FL18XX / FL18-J2 installation (J1939/J1708)

The following procedure should be followed to install and interconnect the optional FL18-J2 SAE J1939/J1708 interface with the Fleetilla FL18XX telematics unit.

1. Follow the included instructions for performing the basic installation of the FL18XX device and verify proper operation. Plan for the additional mounting space required for the FL18-J2 vehicle interface when choosing a location for the FL18XX unit.

2. Mount the FL18-J2 interface with large zip ties or adhesive backed Velcro in a location close to the FL18XX unit. Make sure that the mounting location permits the FL18XX interface cable to reach the FL18XX unit without stretching or kinking the wires. Secure all excess wire so that it will not be snagged or disrupted by vehicle occupants.

3. Route the 6 ft. J1939/J1708 bus cable (containing 4 wires) to the location where it will connect to the vehicle bus. As an option, you may also connect the interface to the J1939/J1708 bus via the vehicle 6 or 9 pin diagnostic connector. This option requires an optional connection adapter for the FL18-J2 interface. Contact Fleetilla about this option.

4. For J1708, connect the RED wire to the J1708 (+) bus connection on the vehicle. Connect the black wire to the J1708 (-) bus connection on the vehicle. For J1939, Connect the white wire to the J1939 (+ or CAN-H) bus connection on the vehicle. Connect the green wire to the J1939 (- or CAN-L) bus connection on the vehicle. See the connection reference on the next page for help identifying the correct vehicle wires. Make sure that the connections are tight and secure. Loose or intermittent connections will cause erratic monitoring performance. Secure all excess cable so that it will not be snagged or disrupted by vehicle occupants. It is permissible for both J1939 and J1708 data bus connections to exist at the same time. The FL18-J2 will automatically prioritize which bus it used to gather each parameter.

5. Remove power from the FL18XX device. Insert the FL18XX over-molded interface cable connector on the FL18-J2 module into port “P1” on the front of the FL18XX unit. Push the cable all the way in until the retaining clip snaps into place.

6. Power the FL18XX device and check it for proper operation.

7. Check the installation by observing the LED on the front of the FL18-J2 unit. This LED should be glowing red constantly. If the LED is not glowing, make sure that the FL18XX unit is powered and that the FL18-J2 connection to the FL18XX unit is secure. See the table on page 2 for blink pattern clarification. Do not proceed until the LED is illuminated red continuously. Start the vehicle and observe the LED on the FL18-J2 interface again. The LED should be flashing while the vehicle is running. If the LED does not flash, check the J1939/J1708 connections to the vehicle. Ensure that the polarity of the connections is correct and that the connections are secure. The FL18-J2 unit is working properly when the LED flashes when the vehicle is running and glows continuously when the vehicle is not running with the ignition off.

8. When the installation is complete, review and correct any loose cable connections or other issues that may result in improper operation or damage to the FL18-J2 interface or it’s cables.

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FL18-J2 LED blink descriptions:

Steady Red	Power ON	Normal	No action required
Green blink	J1708 data being received	Normal	No action required
Red blink	J1939 data being received	Normal	No action required
Red/Green alternate blink	J1708+J1939 data being received	Normal	No action required
No light illuminated	Fault	Problem	Check FL1850 connection; contact Fleetilla

J1939/J1708 Connection Reference

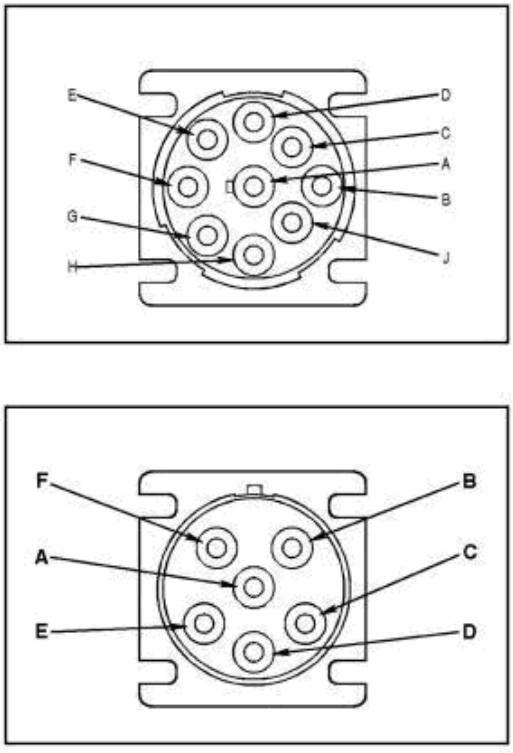
Trucks may be equipped with either a 6-pin or 9-pin diagnostic connector. Identify the J1939/J1708 (+) and (-) wires based upon their locations in the 9 pin connector. The 6 pin connector contains support for only the J1708 data bus, so no connection to the J1939 bus is possible if your vehicle is equipped with a 6 pin connector. The view below is of the front of the connector, as you would see it. Identify the Data (+) and data (-) locations in the appropriate diagram below. Then examine the back of the connector at these same locations to identify the wire that must be tapped for proper connection to the FL18-J2 adapter. The diagnostic connector is usually located under the dash on the driver side of the vehicle, but the location may vary depending on manufacturer.

The pinout for the **9-pin** connector is:

PIN	SIGNAL
A	Ground
B	Unswitched +12 VOLTS
C	J1939 Datalink (+)
D	J1939 Datalink (-)
F	J1708Datalink (+)
G	J1708Datalink (-)

The pinout for the **6-pin** connector is:

Pin	Signal
A	J1708Datalink (+)
B	J1708Datalink (-)
C	Unswitched +12 VOLTS
E	Ground



Front view of 9-pin and 6-pin Deutsch connectors in cab