

Wiring

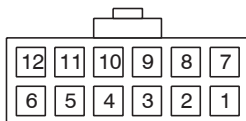
For almost all vehicles, wiring the VMS is straightforward. The VMS requires just five wires to function, and four are supplied by the diagnostic plug under the dash. For most coaches, wiring the VMS requires just three steps:

1. Use the VMS harness to connect the VMS to the diagnostic plug.
2. Find a lead or unused spade in the headlight switch that is active when the headlights are on. (Use a voltmeter or indicator light to find an appropriate lead.)
3. Splice or connect the Headlight lead on the wire harness to the lead you found on the headlight switch.

If a diagnostic plug is not available, the VMS can still be installed (assuming the engine is electronic.) Cut the diagnostic plug end off the wire harness, and manually connect the wires as follows:

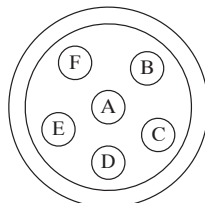
1. The power lead must go to a source of 12VDC power, preferably switched to the key. If it is not switched on with the key, then a switch of some sort must also be installed to allow the VMS to be turned off. Note that the VMS does not require any power whatsoever when it is off.
2. The ground lead must go to an appropriate ground.
3. The data wires (the twisted pair) must go to the corresponding data link wires on the chassis. In most cases there will be a diagnostic plug for the transmission located near the steering column. The pinout for this plug is given in the diagram, and the VMS data wires can be spliced into the data wires on this plug.

Transmissions will either be J1708/J1587 or J1939, depending on the Model Year of the coach. J1939 data will require the DATA C wire pair and a 9-pin Diagnostic Plug.



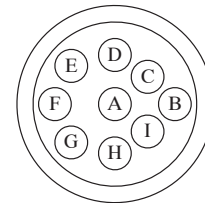
VMS

- 1 - Ground
- 3 - J1708/J1587 Data Link +
- 4 - J1708/J1587 Data Link -
- 5 - J1939 or RV-C Data Link +
- 6 - J1939 or RV-C Data Link -
- 7 - Power (12V)
- 8 - Headlight Switch



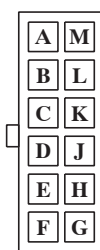
Six-Pin Diagnostic

- A - Data Link +
- B - Data Link -
- C - Power
- E - Ground



Nine-Pin Diagnostic

- A - Ground
- B - Power
- C - J1939 Data Link +
- D - J1939 Data Link -
- E - J1939 Common
- F - Data Link +
- G - Data Link -



Transmission Diagnostic

- A - Ground
- H - Power
- J - Data Link +
- K - Data Link -