



An ISO 9001:2008 Registered Company

J1939 Translator 1939XR501-A

2008-2012 Ford E250-450 Series 5.4L, 6.0L, 6.8L
2008-2010 Ford F250-550 Series 5.4L, 6.4L, 6.8L
2011-2012 Ford F250-550 Series 6.2L, 6.7L, 6.8L

Introduction

The 1939XR501-A system acts as a “translator” for chassis data. It is a unidirectional communication portal for J1939 based systems to operate in a J2284 environment. Select data collected via OBDII (CAN) data stream will be transmitted over a separate CAN network that adheres to the J1939 protocol. This will allow various devices (Vehicle Data Recorders, Fuel Management Systems, etc.) from multiple manufacturers to simply read the provided J1939 data without having to make significant changes to their systems.

The following are the specific chassis data provided by this translator:

- Acceleration Position - SPN91, PGN 0xF003 (61443)
- Engine Speed - SPN190, PGN 0xF004 (61444)
- Engine Coolant Temperature - SPN110, PGN 0xFEEE (65262)
- Transmission Fluid Temperature - SPN177, PGN 0xFEFE8 (65272)
- Transmission Range - SPN163, PGN 0xF005 (61445)
- Engine Oil Pressure - SPN100, PGN 0xFEEF (65263)
- ABS State - SPN563, PGN 0xF001 (61441)
- Vehicle Speed - SPN84, PGN 0xFEFE1 (65265)
- Parking Brake - SPN70, PGN 0xFEFE1 (65265)
- Service Brake - SPN597, PGN 0xFEFE1 (65265)
- VIN - SPN237, PGN 0xFEEC (65260)

In addition, many other types of data may be available depending on the vehicle. Because many auxiliary devices may be added to the CAN bus, the J1939XR501-A acquires all pre-2011 model year CAN bus data passively. However, it requires the device to actively request VIN data once on installation.

Installation Instructions

Remove the lower dash panel below the steering column area and find a suitable location to mount the J1939 Translator module. Do not mount the module until all wire harnesses are routed and secure. (The last step of the installation is to mount the module).



WARNING
Disconnect the battery to prevent setting a check engine light.

Be sure the vehicle's battery is disconnected before proceeding with the installation.

It is the installer's responsibility to route and secure all wiring harnesses where they cannot be damaged by sharp objects, mechanical moving parts and high heat sources. Failure to do so could result in damage to the system or vehicle and create possible safety concerns for the operator and passengers.

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J1939XR501-A-02-INS

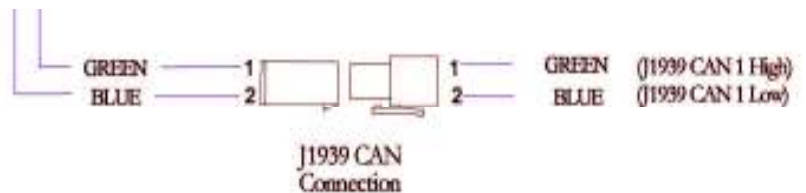
Data Link Harness (6-pin connector)

- Locate the vehicle OBDII Data Link Connector. It will be mounted below the lower left dash panel.
- Remove the mounting screws for the OBDII connector. Plug the red connector from the Data Link Harness into the vehicle's OBDII connector. Ensure the connection is fully seated and secured with the supplied wire tie.
- Mount the black connector from the Data Link Harness in the former location of the vehicle's OBDII connector. Reconnect the Battery.
- **Important:** With the key on and the engine off, hold a ground source to the TEST pad on the J1939 Translator module. This action prompts the module to request and store the Vehicle Identification Number (VIN). This action only needs to occur once.
- While holding a ground source to the TEST pad, plug the 6-pin "Data Link" connector into the 6-pin connector on the J1939 Translator module.



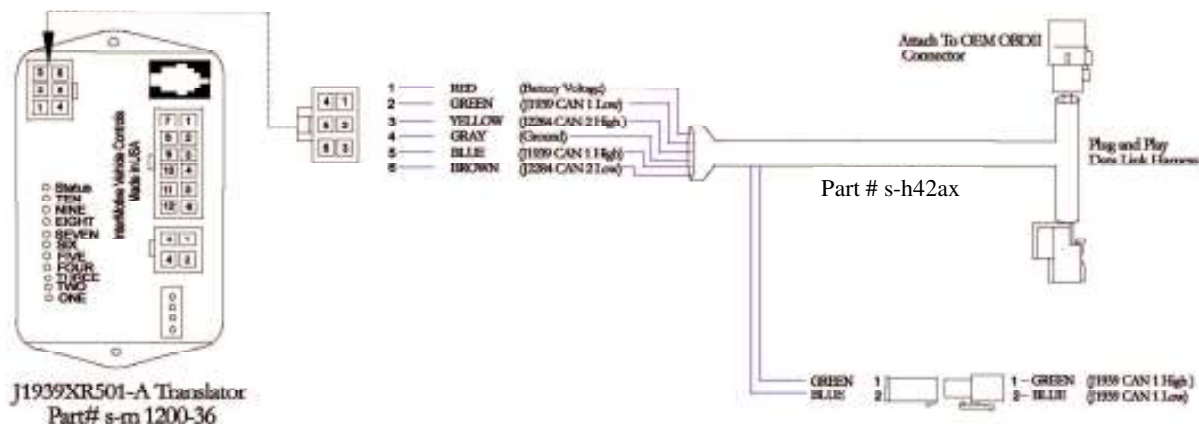
NFPA501-A Translator Connection Output

- The NFPA501-A Data Link Harness has a 2-Pin White connector that provides J1939 CAN 1 High and CAN 1 Low signals for connecting the VDR J1939 inputs.
- Pin #1 - Green Wire - J1939 CAN 1 High.
Pin #2 - Blue Wire - J1939 CAN 1 Low.



Scan Tool Detection

While most previous InterMotive devices required monitoring for the presence of an external scan tool or other device on the vehicle CAN bus, the 1939XR device acquires all required vehicle information on the CAN bus completely passively on the SAE J2284CAN data stream after VIN is acquired during installation.



Submit product registration at www.intermotive.net

If the J1939 Translator fails any step in the System Operation Test, review the installation instructions and check all connections.

If necessary, call

InterMotive technical support @ (530) 823-1048.

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