

GATEWAY and GATEWAY LITE INSTALLATION MANUAL

This manual provides an overview of what is entailed with installing the PressurePro Gateway onto a vehicle. Included are descriptions of the Gateway and the cabling.

For Devices:

GWRE32 – Drop and Hook Gateway

GWRLT – Gateway Lite

*Gateway in this manual refers to both devices.



CAN/J1939 INSTALLATION

Installing the PressurePro Gateway involves 3 components: Power/Ground, coax antenna, and CAN/J1939 connections.

- Determine method of CAN access inside the dash (Extended details on page 3). The Gateway can be mounted anywhere that allows the Gateway Cable (3 ft.) to reach the J1939 access points and allows the coax antenna to be attached. The Gateway features two holes for mounting.
- 2. It is important to note that Power/Ground needs to be connected. **The Gateway cannot be powered by the CAN Bus (Green/Yellow) connections alone.** (Note: If Gateway cable colors do not match Green/Yellow & Red/Black. Contact Pressure Pro for wiring diagrams.)
- 3. The 35ft long TNC coax antenna (connects to the Gateway) is used to allow for easy installation towards the back of the tractor. The coax cable should be run through the firewall, and zip-tied to the frame to prevent "wear and tear". The preferred Antenna mounting location is on a rear trailer cross member, pointed down, at least 18 inches off the ground. The coax antenna kit includes L-mounting brackets for the 6 inch antenna. It is important for the antenna to be mounted to metal, but to not be surrounded by metal.

Photo of Gateway, 35ft. Coax, and Cabled Antenna with bracket







RS-232 Connections

When connecting to the Gateway via RS-232, simply connect the make db9 to your device's female db9.

CAN BUS CONNECTIONS

The most unfamiliar aspect of installation will be locating, identifying, and accessing the CAN Bus. The physical CAN Bus network, otherwise known as a J1939 backbone, has 120 ohm terminating resistors on both ends. On many trucks one resides behind the center dash panel, but terminating resistors can be in door runners, behind the dash, and other locations. Newer vehicles also have multiple CANs; you will need to verify which CAN you need to connect to prior to installation.

Upon completion of installation, there should be two 120ohm terminating resistors, one per end of the J1939 backbone.

The preferred methods of accessing the CAN Network, in order, are:

1. Use a Y-Connector at the end of the J1939 Backbone.

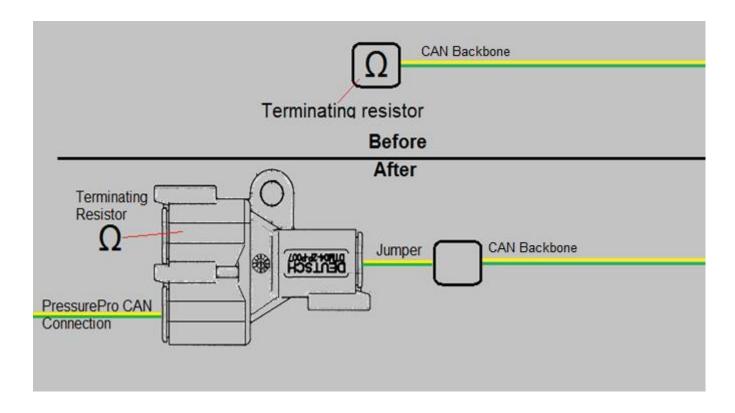
First, identify the part number, or take a picture of your backbone connector and terminating resistor. Then submit to your installation service provider. PressurePro offers Y-Connectors and Jumpers for plug and play installation termination on your Gateway Cable. The Y-Connector will provide a removable 120ohm resistor. (In-depth instructions on pages 4-5)

2. Use the Diagnostic port. (Not SAE recommended)

Most trucks have a 9-pin diagnostic port available in the cab. PressurePro has designed a 9-pin T-Jumper that allows our Gateway to plug directly into the port. The T-Jumper provides a free diagnostic port for any other device that requires it. The Diagnostic Port is usually located in the back of the dashboard under the steering wheel. The Gateway can be installed "hidden away" if the coax antenna can be run outside.



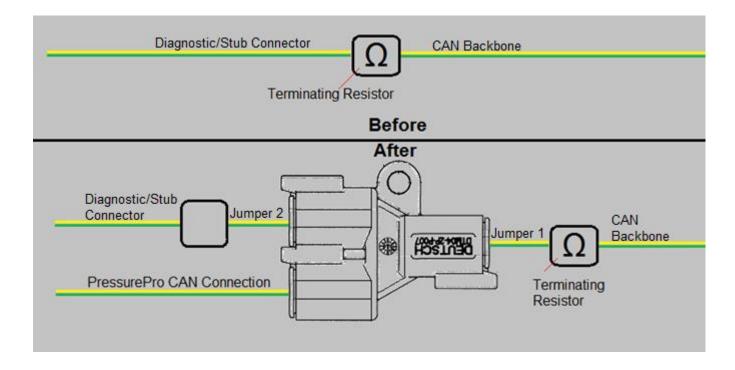
Terminating Resistor



- 1. Remove Terminating Resistor from Vehicle CAN Backbone.
- 2. Insert Jumper into open CAN Backbone.
- 3. Insert opposite end of Jumper (Deutsch 2pin) into Deutsch 2pin Y.
 - Provided Terminating Resistor (In Deutsch 2pin Y) will replace original Terminating Resistor. (Do not reinstall original Terminating Resistor)
- 4. Verify PressurePro CAN connection is plugged in Deutsch 2pin Y.
- 5. Plug Pressure Pro CAN connection Deutsch 12pin plug properly into Gateway. (Fully inserted when it clicks).
- 6. Ensure Red (Power) and Black (Ground) are connected to an Ignition power source, and a proper ground. (Note: If Gateway cable colors do not match Green/Yellow & Red/Black. Contact Pressure Pro for wiring diagrams.)

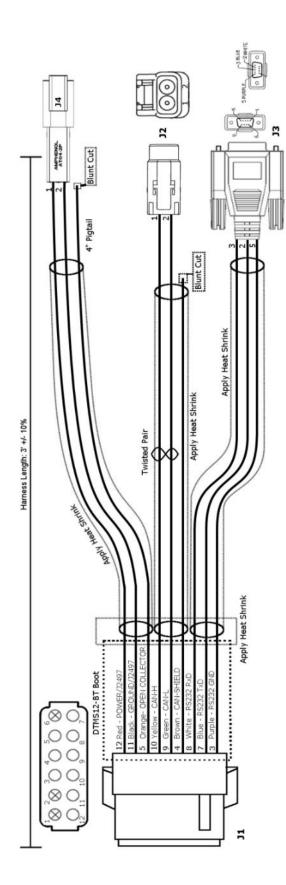


IN-LINE RESISTOR (Stub)



- 1. Remove Diagnostic/Stub connection from CAN Backbone. (Terminating Resistor may be attached to the Diagnostic/Stub connector. Remove Terminating Resistor from Diagnostic/Stub CAN connector, and add to Jumper 1.)
- 2. Insert Jumper 1 (with original Terminating Resistor) into CAN Backbone.
- 3. Insert opposite end of Jumper 1 (Deutsch 2pin) into Deutsch 2pin Y.
- 4. Remove Deutsch 2pin 120ohm Resistor from Deutsch 2pin Y.
- 5. Plug Diagnostic/Stub Connection into Jumper 2, and Jumper 2 Deutsch 2pin plug into the final open receptacle in Deutsch 2pin Y (Formerly filled by Deutsch 2pin Resistor).
- 6. Verify PressurePro CAN connection Deutsch 2pin Y is plugged in.
- 7. Plug Pressure Pro CAN connection Deutsch 12pin into Gateway. (Fully inserted when it clicks).
- 8. Ensure Red (Power) and Black (Ground) are connected to an Ignition power source, and a proper ground. (Note: If Gateway cable colors do not match Green/Yellow & Red/Black. Contact Pressure Pro for wiring diagrams.)

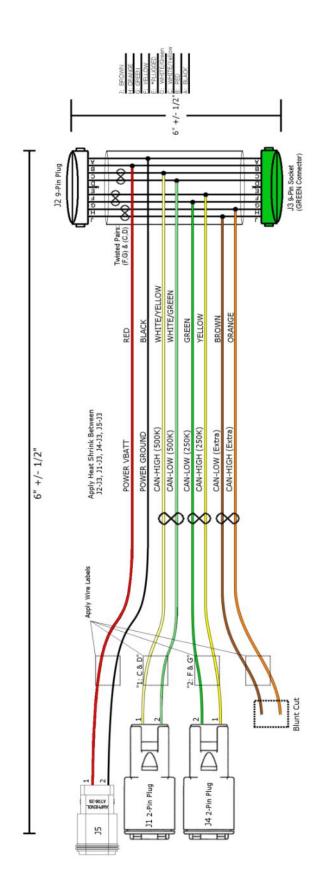




Pressurem 205 West Wall Street Harrisonvolle, MO 64701		Link	Link MOAC Cable	
Unless Otherwise Specified, Dimensions Drawn By: and Tolerances Are in Inches		Edward Lutsko	Date: 2016-09-30	Rev:
Do Not Scale This Drawing	Part Number: LNK-200PD	RoHS Compliant Document Number:	Document Number: 20160930_LNK	20160930_LNK-200PD_MOAC

Notes:	
J1 Termination Summary:	Manuf & Series: Amphenol ATM06-125A-SR1GY Shell or equivalent Boot: DTMS12-8T Boot or equivalent
	Contact P/N: AT62-201-2014 (Fem Term Nickel 24-20) or equivalent Sealing Cavity Plug: Manuf & P/N: Amphenol AT13-204-2005-SR Install Plugs in Postions 1.2, 2, Wordenfork Amphenol AWM-175 or equivalent
J2 Termination Summary:	Manuf & Series: Amphenol ATM06-25 Shell or equivalent
	Contact P/N: AT62-201-20141(Fem Term Nickel 24-20) or equivalent
	Wedgelock: Deutsch WM-2SB (Black)
JZ Notes:	Apply stub wire splice to Pin4, Blunt cut even with heat shrink
J3 Termination Summary:	Generic D-Sub 9P/F Attach D-Sub Hood if available
J4 Termination Summary:	Manuf & Series: Amphenol ATO4-2P-RD01 or equivalent contact PN: ATG-02-1614 to requivalent Wedgelock: AW2P or equivalent
Conductor Cable Summary:	Each wire to be 20ga, minimum 75mil outer insulation diameter
Harness Label:	Apply part number label over heat shrink on harness.
Wire Labelling:	All Wires should be labeled according to function as detailed on the drawing.







J1/J4 Termination Summary:



Operates under all normal voltage conditions for either 12V or 24V vehicles as outlined in SAE J1455, and will remain undamaged by any fault voltages outlined in J1455 AND SAE J1113-11, class L3 exposure, for either 12V or 24V vehicle systems.

Overall dimensions: 4.6"Wide, 1.4"High, 5.3" Long – including flanges but excluding side-connector. Operating Temperature -40°C / -40F to +85°C / 302F RX Frequency 433.92 MHz FM Effective Data Rate 17,700 bits/sec

This device complies with Part 15 of the FCC Rules and with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

This device has been tested to these CE standards: will be updated.