CAN BRIDGE INSTRUCTIONS

2650-2046-77

Connects V2 InVision dashes or Air Core driven gauges to OBDII

What is Included:
(1) CAN Bridge module
(1) OBDII interface cable
(1) Power cable
(6) Gauge interface cables
(3) Spade terminal splitters

Recommended Tools & Supplies:
Wire strippers
Wire crimpers
Wire coverings for neatly organizing or bundling wires.
Zip Ties for neatly bundling wires and/or mounting the module.
Wire diagram of your vehicle
3A & 5A fuse & fuse holders
Soldering iron, solder & various sizes of heat shrink tubing
Digital volt/ohm meter

Step 1, Indroduction:
The CAN Bridge is designed to worked with OEM OBDII.

It can provide instrument signals for the AMP V2 InVision displays and/or AMP traditional Air Core gauges (does not support stepper motor driven gauges).

It works with the government required ODBII PIDs of speed, RPM, Water Temperature, and Fuel level. If supported by your vehicle Oil Pressure and Oil Temperature are also available. The update rate of these PIDs are designated by the manufacture and vary from year to year and model to model.

The InVision dash, and of course the traditional gauges, can still be hard wired to their own sensors if need be.

Step 2 Wiring

Wiring will require some basic automotive electrical knowledge, and in some cases a vehicle specific wiring diagram, or the ability to test circuits to verify proper hook ups. You will need to be able to test various circuits at this time.:

Power Harness

4-Pin connector: Plug this connector into port J1
Red 12v, key on power. Connect to the factory gauges' power only if it is 12v. This power should turn on and off with the ignition switch. If there is no factory wire to use, you might find an ignition power from the fuse box, or from the ignition switch. This should be protected with a standard automotive 5A inline fuse.
Pink: Battery power, for memory retention. You should connect this to any constant-on, battery power such as at the factory fuse box, the ignition switch, or directly to the battery. Check for power at these locations by leaving the key switched off, and using your test light to locate power that is still on. This should be protected with a standard automotive 3A inline fuse.
Black System ground. We recommend you choose a new ground location for these wires, preferably at the engine. You can ground to the rear of one of the cylinder heads, or on the intake manifold to one of the unused accessory bolt holes. We do NOT recommend using existing, factory cluster ground as this is going to be a much older circuit, which may no longer be a very clean ground.

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Gauge Interface Harness

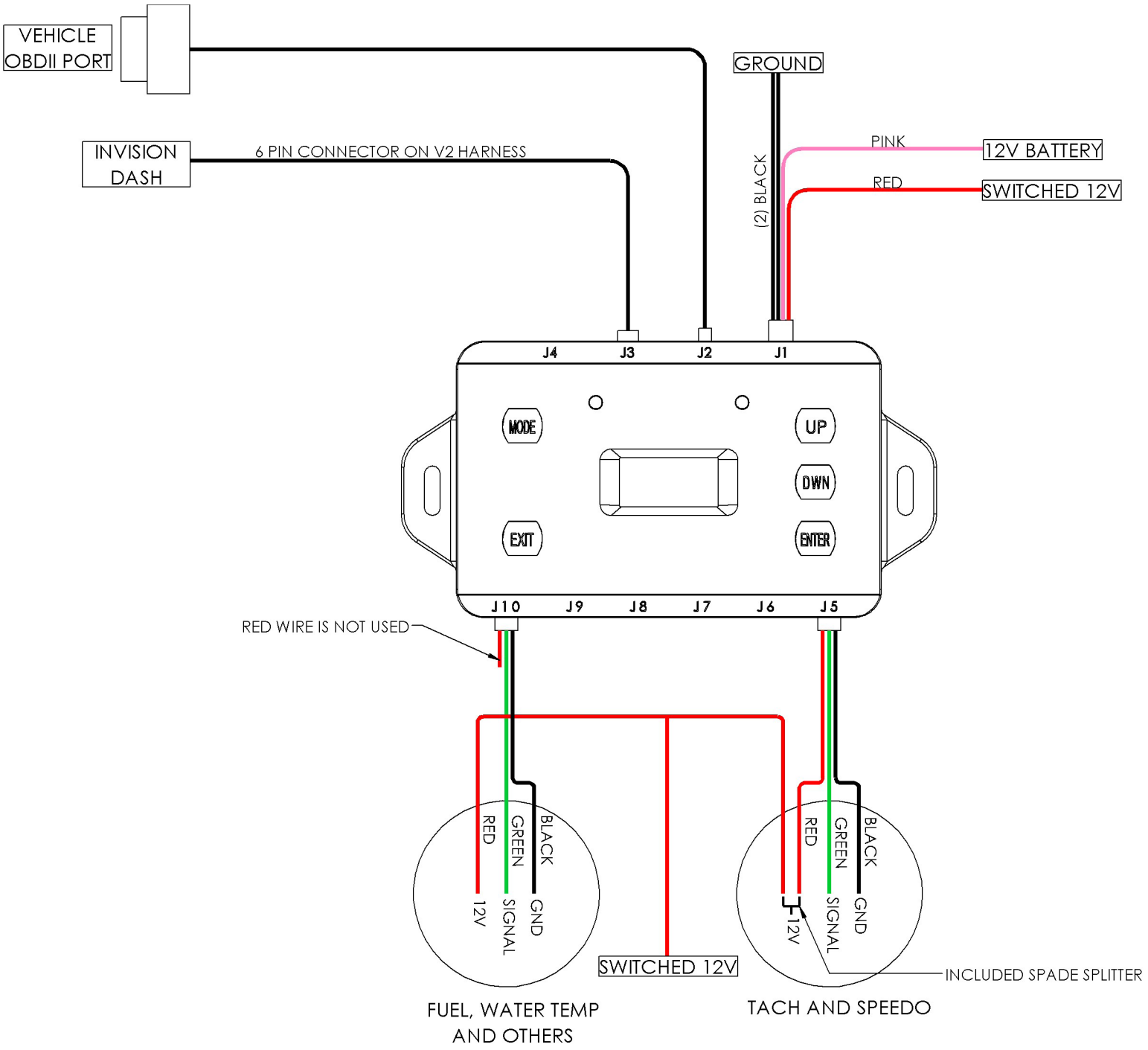
3-Pin connector: Plug this connector into one of the ports; J5-J10.
Red 12v Reference. This wire is only used for a tach or a speedo and does not provide power. It must be connected to 12v source that is fed to the gauge and the spade terminal splitter is provided. This can be coiled up or snipped off for the other gauges.
Green: Signal wire. Connect to the signal terminal on the gauge
Black: Gauge Ground. Connect to the ground terminal on the gauge.

OBDII Interface Harness

4-Pin connector: Plug this connector into port J2
ODBII Connector: Plug this connector into the vehicle's OBDII port. This port is typically located under the driver's side dash. If you want to have use of the OBDII port for diagnostics without the hassle of unplugging the CAN Bridge AutoMeter's 5323 OBDII signal splitter can be used.

InVision Interface Harness

6-Pin connector: This connector is part of the InVision V2 harness, plug this connector into port J3


VEHICLE OBDII PORT
INVISION DASH
6 PIN CONNECTOR ON V2 HARNESS
GROUND
(2) BLACK
PINK
12V BATTERY
RED
SWITCHED 12V
J4
J3
J2
J1
MODE
UP
DWN
EXIT
ENTER
J10
J9
J8
J7
J6
J5
RED WIRE IS NOT USED
RED
GREEN
BLACK
12V
SIGNAL
GND
SWITCHED 12V
INCLUDED SPADE SPLITTER
FUEL, WATER TEMP AND OTHERS
TACH AND SPEEDO

Step 4, Setting up the module:

Entering configuration mode: With the Can Bridge connected to power, press and hold the “MODE” button for until the blue LED lights up (approximately 6 seconds)

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Setting the channels: Channel 1 is port J5, Channel 2 is port J6…
The factory defaults are the following:

Channel 1 is Tachometer
Channel 2 is Speedometer
Channel 3 is Water temperature with a set range of 100-250°F or 40-120°C
Channel 4 is Oil Temperature with a set range of 100-250°F or 40-120°C
Channel 5 is Oil Pressure with a set range of 0-100 PSI or 0-7 Bars
Channel 6 is Fuel Level with a default output for 0-90 ohms

These can be moved from one port to another to your liking by clicking “ENTER” on the Channel you want to change then selecting and clicking “ENTER” on value you want that channel to be. You can click “EXIT” to get to the previous menu.

CAN: CAN1 (OBDII) is defaulted at 500 kbps and this setting works with most domestic vehicles. CAN2 is to the InVision dash must remain at 500 kbps.

LCD Cluster: By default, Speed, RPM, Engine temperature, fuel level, and oil pressure set to “CAN” meaning that an InVision dash will take these signals from the CAN Bridge. If you want to hardwire a signal to the InVision click “ENTER” on the signal, select HARDWIRE and click “ENTER”. You can click “EXIT” to get to the previous menu.

Fuel Meter Select: The CAN bridge can output to the six most common fuel level olm ranges. Select the olm range that corresponds to the gauge you have and click “ENTER”. The following are available:

0-90 olm (factory default)
73-10NL olm (non-linear)
240-33 olm
0-30 olm
16-158 olm
73-10L olm (linear)

Utilities: The brightness of the menu can be changed from 10-100%

About: Under Version you can find the firmware information. Update is factory use only.

Leaving configuration mode: Press and hold the “MODE” button for until the blue LED turns off (approximately 6 seconds).

Notes:

The odometer on both traditional Auto Meter Speedometer and the InVision are driven by speed signal and not from the OBDII

When using the CAN Bridge with traditional gauges keep it in mind that it will only work with short sweep Air Core type gauges. Full sweep stepper motor driven gauges will not function.

Menu screen will automatically go to sleep after 20 seconds of inactivity, hit any button to wake it up.

SERVICE

For service send your product to Auto Meter in a well packed shipping carton. Please include a note explaining what the problem is along with your phone number. If you are sending product back for warranty adjustment, you must include a copy (or original) of your sales receipt from the place of purchase.

12 MONTH LIMITED WARRANTY

AutoMeter Products, Inc. warrants to the consumer that all AutoMeter High Performance products purchased from an Authorized AutoMeter Reseller will be free from defects in material and workmanship for a period of twelve (12) months from date of the original purchase. Products that fail within this 12 month warranty period will be repaired or replaced at AutoMeter’s option, when determined by AutoMeter that the product failed due to defects in material or workmanship. This warranty is limited to the repair or replacement of parts in the AutoMeter High Performance product and the necessary labor done by AutoMeter to effect the repair or replacement of the AutoMeter High Performance product. In no event shall AutoMeter’s cost to repair or replace an AutoMeter High Performance Product under this warranty exceed the original purchase price of the AutoMeter High Performance Product. Nor shall AutoMeter Products, Inc. be responsible for special, incidental or consequential damages or costs incurred due to the failure of an AutoMeter High Performance Product. This warranty applies only to the original purchaser of the AutoMeter High Performance Product and is non-transferable. This warranty also applies only to AutoMeter High Performance Products purchased from an Authorized AutoMeter Reseller. All implied warranties shall be limited in duration to the said 12 month warranty period. Breaking the instrument seal, improper use or installation, accident, water damage, abuse, unauthorized repairs or alterations voids this warranty. AutoMeter disclaims any liability for consequential damages due to the breach of any written or implied warranty on all products manufactured by AutoMeter Products, Inc. For a comprehensive listing of Un-Authorized AutoMeter Resellers please visit www.autometer.com/autometerlocator/index/unauthorized.

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