Aeroforce 1900 psig Nitrous Pressure Sensor Kit Instructions

Sens011

Your kit contains a 1900 psig sensor with connector/pigtail and 470 Ohm resistor. The sensor has a male 1/8" NPT fitting.

Connections: The black wire of the pigtail goes to ground, **red to +5v**. Do not connect 12v to this sensor, it will destroy it! Blue wire is the output. The 470 Ohm resistor needs to be connected in series with this blue wire and the input of the Interceptor scan gauge. This will allow you to disconnect the gauge from the OBD2 port without damaging the sensor. Without this resistor this particular sensor has been known to fail if it remains connected to the gauge when it is unplugged which results in the gauge losing its ground reference and resulting input impedance. If this is not used with an Interceptor you don't need the resistor.

Specifications:

- +/- 1% accuracy from -40° C to 105° C
- Compact size, excellent price/performance ratio
- 5 V-dc Input with 0.5 to 4.5 V-dc Output

The sensor will need a **5v** and ground connection which can be obtained from our **5v sensor power supply (part number Sens010)**, or another sensor such as the MAP or throttle position, or directly from the car's PCM. See diagram on the back of this sheet for wiring diagram if using our 5v regulator. Tapping into another sensor's 5v signal will not effect that sensor's operation as long as the connection is solid and insulated properly to prevent a short to ground.

Run the sensor's output wire to the data acquisition device such as the Interceptor scan gauge. Remember to connect the resistor to the end of the blue wire of the sensor pigtail before connecting to the input if using the Interceptor scan gauge.

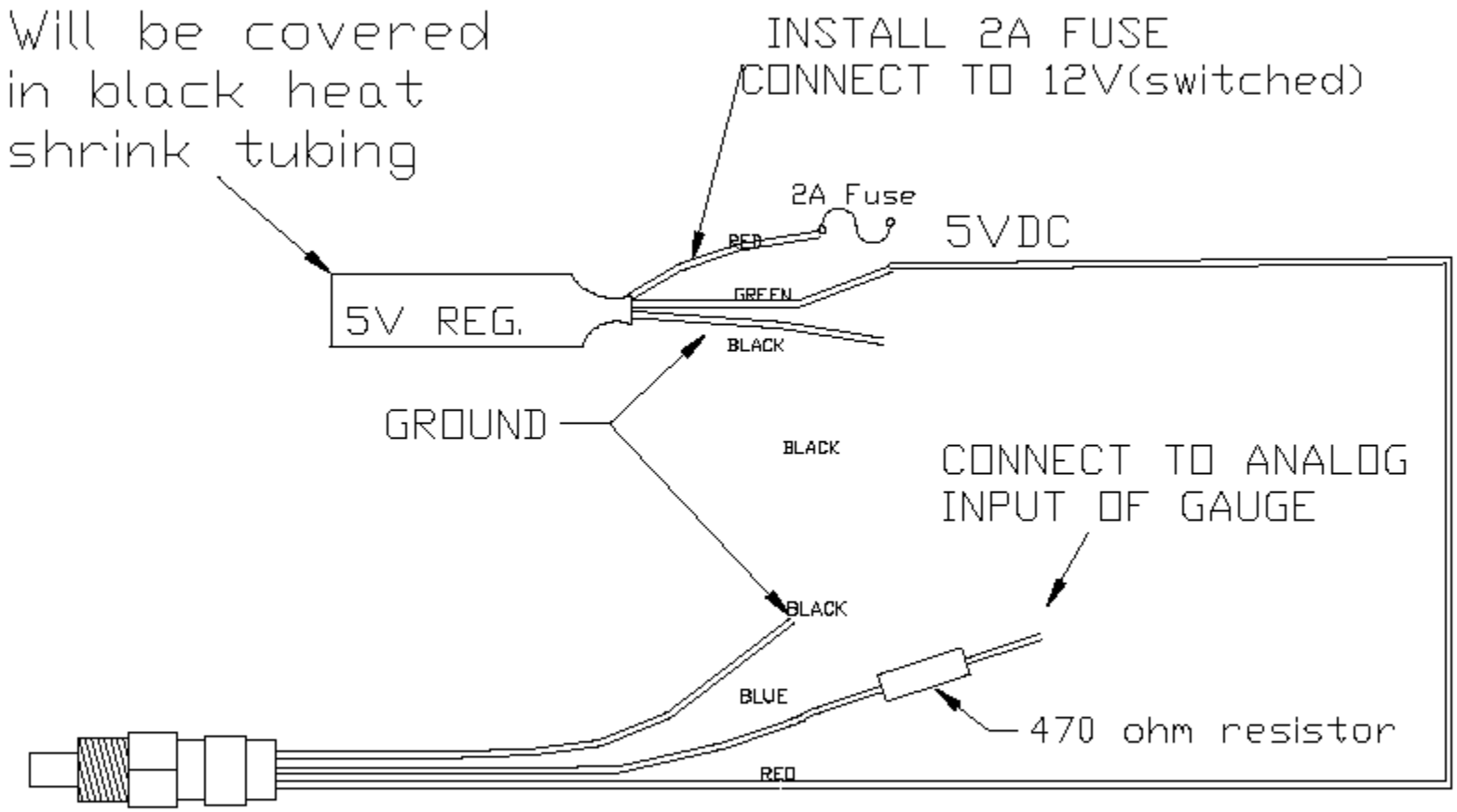
To configure the Interceptor to read psi, you'll need to enter the menu and choose the appropriate analog input. You'll then be able to enter a conversion. When using the resistor, number to enter for slope is **476**, and **–236** (negative 236) for intercept. The negative "-" sign needs to be entered in the first position on the left, so it will look like "-0236" after you enter this number. If you're not using the resistor (using sensor for another application) or do not plan on unplugging the gauge from the OBD2 port with sensor connected, the slope is **471**, and intercept is **-236**. The value displayed on the gauge when this analog input is chosen will now be in psi.

Warranty

This product is Aeroforce Technology warrants this product and its accessories against defects in material and workmanship for a period of 90 days from the date of purchase.

Aeroforce Technology Inc. shall not be held liable in any way for any incidental or consequential damages to the vehicle, driver, passengers, and or other involved parties or property occurring while using the sensor.

CHANGE HISTORY			
REV	DESCRIPTION	DATE	APP'D



WIRE	CONNECTION
RED	5VDC
BLACK	GROUND
BLUE	ANALOG INPUT

AeroForce Technology Incorporated		
DRAWN BY: PJM	PROJECT: AEROFORCE PRESSURE SENSOR	
CHK'D BY: MHM	TITLE: WIRING DIAGRAM FOR AEROFORCE PRESSURE SENSOR	
DATE: 11/12/13	SCALE: NONE	SHEET 01 OF 1