



## Arctic Cat Air Density Kit Installation Guide

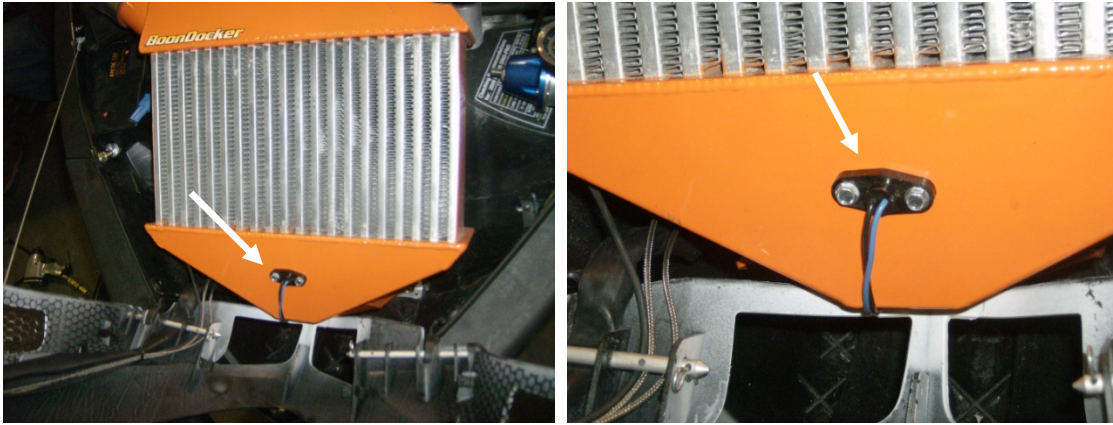
### The Temperature Sensor Kit includes:

- Auxiliary Injector Harness modified to include Temperature Sensor Harness
- Resistor Assembly
- Connector housing
- Two sheet metal screws (#6 X 1/2")
- Four zip ties
- These installation instructions
- User Instructions

### Sensor wiring modifications:

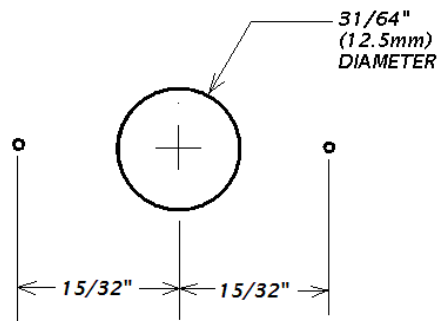
- 1) Use the stock temperature sensor you removed during turbo installation.
- 2) Remove the blue connector from the stock temperature sensor. (Release the plastic terminal latches by inserting a small jeweler's screwdriver into the front of the connector next to each terminal. Pull the terminals out the back side, noting which side of the terminal faces the latch.)
- 3) Using the correct orientation, push these terminals into the supplied natural-color connector housing until they click into place. (Polarity does not matter.)
- 4) Using the correct orientation, insert the terminals of the supplied resistor assembly into the blue stock connector housing until they click. (Polarity does not matter.)
- 5) Plug this resistor assembly into the stock harness where the temperature sensor used to be.
- 6) Use zip ties to secure this harness away from heat and moving parts.

## Installing the temperature sensor:



**Note:** It is recommended that you remove the intercooler for this operation. If you choose not to remove it, use plenty of grease on the large drill bit to catch all the aluminum shavings so they don't fall into the intercooler.

The temperature sensor is mounted so it protrudes into the intercooler on the engine (downstream) side (see photos). Mount it as close to center as you can, both vertically and horizontally, for the best access to moving air. First mark the center hole location, then mark the screw hole locations  $15/32$ " (12mm) to each side of the center location. Center punch all three hole locations. Use about a  $3/16$ " pilot drill **for the center hole only**. Then drill



the center hole  $31/64$ " (12.5mm) diameter for the sensor head. Install the sensor with a small amount of silicone gasket material. Do not get any silicone on the sensor element. Attach the sensor with two #6 self drilling and self tapping screws.

## Installing the Auxiliary Injector Harness:

For hooking up auxiliary power, injectors, button, and pressure transducer, follow the instructions in your Control Box manual. To hook up the temperature sensor, route the temperature wires (orange and black) of the Auxiliary Injector Harness to the sensor and plug it in. Keep the harness away from heat and moving parts and secure with zip ties.