



## ARC2-GM Air/Fuel Ratio Calibrator

### Installation Instructions

These instructions are specific to applications where the ARC2 is used to calibrate GM MAF sensors. The ARC2-GM is connected in-line between the MAF sensor and the ECU. MAF sensor connections may be made at the ECU, however, it is recommended that connections be made at the sensor with the in-line plug adapter provided. If the in-line plug adapter is used, the **BLACK, RED, SHIELDED** and **VIOLET** wires are routed through the firewall. They are spliced onto the corresponding wires on the in-line plug adapter and connected by plugging the adapter into the MAF sensor and existing harness. Solder connections will provide the highest reliability. Crimp connectors are provided for convenience.

- 1) Find a suitable location to mount the ARC2. It may be mounted in a hidden location if it is going to be adjusted one time or occasionally. Most installations call for the ARC2 to be accessible while driving.
- 2) Secure it in place after routing the wires behind the dashboard. There are threaded mounting holes and 3/16" screws on either side of the ARC2. L brackets are provided for mounting.

☞ **WARNING!** Disconnect the negative terminal of the battery before connecting the **RED** and **BLACK** leads. Be sure you know the code if you have an anti-theft radio before disconnecting the battery.

Step 3 through 6 may be completed by using the in-line plug adapter, or as individual connections under the dashboard.

- 3) Find a convenient screw that is connected to chassis ground. Connect the **BLACK** wire to that screw using one of the ring terminal crimp connectors. The **BLACK** wire provides the power ground for the ARC2.
- 4) Locate a suitable fused +12V connection for the **RED** wire. Good locations are on the fuse block or the +12V line to the glove box light. Be sure to connect the **RED** wire to a switched +12V line, otherwise it will drain the battery. The **RED** wire provides the +12V power to run the ARC2.
- 5) Cut the MAF signal wire leading to the ECU. Connect the **SHIELDED** wire to the signal output of the MAF sensor. This is the primary input signal to the ARC2.
- 6) Connect the **VIOLET** wire to the MAF signal input of the ECU. The **VIOLET** wire carries the output of the ARC2.
- 7) Connect the **YELLOW** wire to the 0-5V variable throttle position sensor (TPS) signal.
- 8) Connect the **WHITE** wire to the dashboard panel lights. A convenient location can often be found at a dash light or the ash tray light. The **WHITE** wire should be connected to the wire that goes from 0V to +12V when the lights are turned on. This signal is used to dim the ARC2 display at night.
- 9) Reconnect the negative terminal of the battery.

If you have any difficulty with installation, please call us at (949)863-1359 for assistance. We hope you enjoy the precise, filtered operation of your new ARC2-GM air/fuel ratio calibrator. Keep us in mind when your needs call for an oxygen sensor or air/fuel ratio meter.

**THANK YOU FOR CHOOSING SPLIT SECOND**