

AIM2 INSTALLATION INSTRUCTIONS
Syn-Tech Systems, Inc.
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WARNING: AIM2 equipment is only intended to be used with the AIM2 system. Do not connect any AIM2 part to any non-AIM2 part unless specified in these instructions.

Installation must be in accordance with the National Electrical code and/or local Electrical code requirements.

Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate this device.

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

This device complies with part 15 of the FCC rules. 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.

AIM2 FMU Radio Board installation

Step 1: Plug the FMU Radio Board into any available expansion slot on the FMU Main Board.

Step 2: Plug the two BNC antenna cables into the two BNC connectors on the FMU Radio Board.

AIM2 vehicle installations for vehicles using the OBD port.

Step 1: Select mounting location for the AIM2 Main Module. Recommended locations are under the dash or under the seat that is on the same side of the vehicle as the fuel tank's filler neck. Keep in mind the distance from the power source and grounding requirements in relation to the mounting location.

Note:

The AIM2 Main Module should be mounted out of harms way but, accessible for service or troubleshooting.

Warning:

The AIM2 Main Module uses Radio Frequency technology to communicate with the fuel island. Do not mount this unit in steel or fiberglass enclosures. This type of install may prevent your system from working properly.

Please contact FuelMaster for installation recommendations. 1-800-888-9136

Step 2: Connect the main ground lug to a good chassis ground. For the main ground lug, use 12 gauge wire and the provided 12 gauge ring terminal.

Note:

For installations in Canada, two 12 gauge ground wires must be used.

Step 3: If necessary, drill a hole large enough for the connector on the RFID Extension Cable to fit through, usually in a wire chase.

Step 4: Plug one end of the RFID Extension Cable into one of the AIM2 Main Module's Tank Ring Ports (Fig. 1).

Step 5: Place the provided rubber grommet around the RFID Extension Cable and pass the cable through the drilled hole, fitting the grommet securely in the opening.

Step 6: Route the RFID Extension Cable to the top of the fuel tank filler neck. If routing outside the vehicle, make sure to use the protective loom for the entire length of the pull under the vehicle. Loosely zip tie the loom and cable. Make sure to leave room to adjust slack.

Step 7: Drill hole large enough for the connector on the Filler Neck Ring in the housing around the filler neck where the gas cap is located.

Step 8: Place the Filler Neck Ring around the filler neck under the gas cap and pass the Filler Neck Ring cable (with grommet) through the drilled hole and secure grommet in opening.

Step 9: Attach RFID Interface Module to Filler Neck Ring cable and RFID Extension Cable and zip tie in place.

Step 10: From the mounting location of the AIM2 Main Module, pull the slack from the RFID Extension Cable so that it is snug.

Step 11: Tighten all zip ties and clip the extra plastic with a pair of wire snips and seal both drilled holes with silicon.

Step 12: Coil any leftover slack from the RFID Extension Cable secure so it is out of the way.

Step 13: Connect OBD interface cable (KSM-DEV052305, KSM-2538 or KSM-2539) to the Vehicle's OBD connector and AIM2 Main Module via the OBD Port (Fig. 1) and secure cable so that it is out of the driver's way.

Step 14: Start vehicle, AIM2 Main Module status lights should turn on.

AIM2 vehicle installations for vehicles using the Vehicle Speed Sensor (odometer) output.

Step 1: Select mounting location for the AIM2 Main Module. Recommended locations are under the dash or under the seat that is on the same side of the vehicle as the fuel tank's filler neck. Keep in mind the distance from the power source and grounding requirements in relation to the mounting location.

Note:

The AIM2 Main Module should be mounted out of harms way but, accessible for service or troubleshooting.

Warning:

The AIM2 Main Module uses Radio Frequency technology to communicate with the fuel island. Do not mount this unit in steel or fiberglass enclosures. This type of install may prevent your system from working properly.

Please contact FuelMaster for installation recommendations. 1-800-888-9136

Step 2: Connect the Analog Speed Sensor Cable Assembly ground wires as well as the main ground lug to a good chassis ground. For the main ground lug, use 12 gauge wire and the provided 12 gauge ring terminal.

Note:

Do not lengthen these wires. It may be necessary to remove paint from painted surfaces to achieve a proper ground.

For installations in Canada, 2 12 gauge ground wires must be used.

Do not connect the AIM2 at this time.

Step 3: Locate a constant **+12VDC** supply with the vehicle key in the "off" position. This will provide power to the "**RED**" lead of the Analog Speed Sensor Cable Assembly to operate the AIM2 Main Module.

Step 4: Locate a switched **+12VDC** supply that is present only when the vehicle key is in the "ON" position. Connect the "**BROWN**" wire of the Analog Speed Sensor Cable Assembly to this source. This signal is required to indicate the status of the vehicle **on** or **off**.

Step 5: Locate and terminate the **GREEN** wire of the Analog Speed Sensor Cable Assembly to the **VSS (vehicle speed sensor)** output. This signal can be found at the transmission speed sensor after the vehicles computer module.

Note: Vehicle applications may vary with manufacturer and model.

Step 6: If necessary, drill a hole large enough for the connector on the RFID Extension Cable to fit through, usually in a wire chase.

Step 7: Plug one end of the RFID Extension Cable into one of the AIM2 Main Module's Tank Ring Ports (Fig. 1).

Step 8: Place the provided rubber grommet around the RFID Extension Cable and pass the cable through the drilled hole, fitting the grommet securely in the opening.

Step 9: Route the RFID Extension Cable to the top of the fuel tank filler neck. If routing outside the vehicle, make sure to use the protective loom for the entire length of the pull under the vehicle. Loosely zip tie the loom and cable. Make sure to leave room to adjust slack.

Note: Please make sure cables and wires are routed away from moving components or devices that may become hot during normal vehicle operation.

Step 10: Drill hole large enough for the connector on the Filler Neck Ring in the housing around the filler neck where the gas cap is located.

Step 11: Place the Filler Neck Ring around the filler neck under the gas cap and pass the Filler Neck Ring cable (with grommet) through the drilled hole and secure grommet in opening.

Step 12: Attach RFID Interface Module to Filler Neck Ring cable and RFID Extension Cable. Ensure that the connections are sealed and the gaskets fully compressed and zip tie in place.

Step 13: From the mounting location of the AIM2 Main Module, pull the slack from the RFID Extension Cable so that it is snug.

Step 14: Tighten all zip ties and clip the extra plastic with a pair of wire snips and seal both drilled holes with silicon.

Step 15: Coil any leftover slack from the RFID Extension Cable secure so it is out of the way.

Step 16: You may now connect the AIM2 Main Module to the Analog Speed Sensor Cable Assembly via the Power/Speed Sensor Port (Fig. 1). Verify that the power LED is illuminated and the module is ready for programming.

Figure 1

