

# Installation Instructions

## VCMS-PM1 Power Module

## VCMS-PM1A Power Module

1. Determine the best location for the power module(s). Take into consideration the routing of the interconnecting logic cable that attaches to the 10-pin connector on the top of the module. This cable interfaces the power module to the other VCMS modules in the system. Also take into consideration the routing of the wires to the power outputs, inputs and the +12 volt fused power source.

2. The power modules have a label that contains the InPower Special Spec. Number and the module's address (Mod #), model number and LOT number. In applications with more than one power module each module will contain a different module address (Mod1, Mod2, Mod3 or Mod4). Be sure to identify the correct Mod # when wiring (See the VCMS Input/Output Diagram for the system being installed.).

**VCMS - MOD1**

LOT # 999999 SS43

3. We recommend mounting the power module to a flat metal surface. This allows the transfer of heat from the module when operating high current draw loads. Mount the module using four 6-32 screws and lock washers. **Do not drill out the mounting holes to accept larger screw sizes. This will break the module's ground connection. Do not over tighten the mounting screws.**

4. The wiring terminals on the power module are male ¼ inch faston blade terminals. You will need to attach insulated female terminals to the wires. Use a good quality crimping tool and follow the manufacturer's instructions for the correct terminal types for wire sizes.

**NOTE We recommend using wire tags that allow proper wire identification in the event the wires are removed at a later date.**

5. Wire the ground (GND) terminal to a good quality vehicle ground (Battery Negative). **It is important that this ground is connected to the power module before the interconnecting logic cable is connected.**

6. Wire the six module output terminals (O-1, O-2, O-3, O-4, O-5 & O-6) to the correct auxiliary loads using the VCMS Input/Output Diagram for reference. Note that some outputs may not be used.

**NOTE If inductive loads (motors, coils, etc.) are used it is important that these devices contain a diode suppressor across the device.**

## Installation, Continued

7. Wire the four module digital input terminals (I-1, I-2, I-3 & I-4) to the correct input device (e.g., Ignition +12 volts) using the VCMS Input/Output Diagram for reference. Note that some inputs may not be used.
8. Locate the +12 volt power source. Install fuses at the power source as shown on the system's InPut/Output Diagram. Install wires of suitable size for the amperage and length from the three fuses to the three BAT terminals on the power module. **Be sure to determine the current draw of the six power outputs to ensure that the power module is not overloaded. The maximum current draw of the combined loads cannot exceed 60 amps.** If the +12 volt power source is directly connected to the vehicle battery, note that a VCMS configuration with a single power module with all switches and back lights off will draw about 16 milliamps of power. Alternatively, you may obtain the +12 volts power from an ignition switch-activated power source.
9. Install the other VCMS modules referring to their respective installation instructions.

