

VECTOR SENSORS INSTALLATION POWER | TEMPERATURE

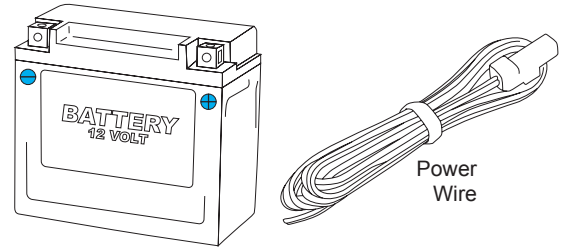
POWER INSTALLATION:

Wired to Vehicle Battery: Connect the power wire to the vehicle battery and to Vector. A 0.5A fuse (not provided) should be used between the power cable and positive battery terminal when connecting directly to a battery. Vector is polarity independent, so it cannot be installed backwards. Use zip-ties to secure the cable to the bike as it is routed to Vector.

System Tap: It is possible to tap into the vehicle electrical system anywhere in the circuit. When tapping into the electrical system, connect to a circuit protected by fuse. Possible points are at the lights, ignition, or CDI. It is best to connect so power is not interrupted by key switch.

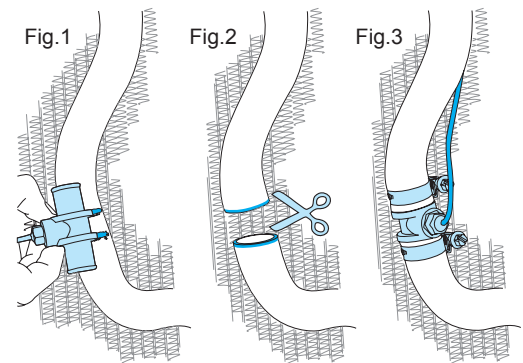
MX Bikes: Motocross bikes do not have 12 volt power. For connection to an MX bike, connect power leads to ignition power leads from stator. Use caution, as this is a high voltage option.

Vector will operate in the range of 6.0-400 VAC/VDC, but will not draw enough power to drain a vehicle battery.



RADIATOR TEMPERATURE SENSOR INSTALLATION:

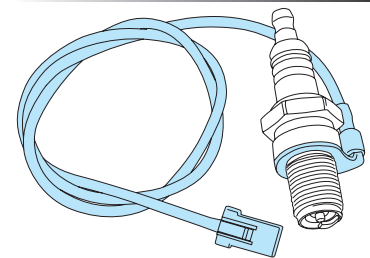
1. Drain fluid from the radiator. To drain the fluid, remove the lower bolt from the water pump housing. It can be found by looking for the bolt with a copper washer. Remove the radiator cap to let the coolant flow (fast) from the water pump housing.
2. Fig.1: Use the sensor to mark on the radiator hose where to make two cuts. (Use the left hose to measure hot fluid, or the right hose to measure fluid after it's been cooled.) The cuts should be about $\frac{1}{4}$ " apart from each other and in a straight section of the hose.
3. Fig 2: Cut radiator hose. Use a pair of good scissors or cutters.
4. Fig 3: Install sensor in hose. Slide a provided hose clamp on each end of the newly cut radiator hose. Insert Radiator Hose Sensor to join the two halves of the radiator hose. Tighten the hose clamps as shown in Fig.3.
5. Connect sensor wire connector to Vector.
6. Refill the radiator with fluid.
7. Perform a two button reset (<LEFT> + <MODE>.) Vector will not display temperature until the reset is performed (telling Vector to look for a sensor.)
Vector will display "--" for engine temperature until it reaches 100°F (38°C).
8. Test the system. Make sure there is no fluid leakage.
9. Use zip-ties to secure the sensor wire along bike as it is routed to Vector.



Radiator Hose Temperature Sensor
1: Mark hose, 2: Cut Hose, 3: Install Sensor

AIR-COOLED TEMPERATURE SENSOR INSTALLATION:

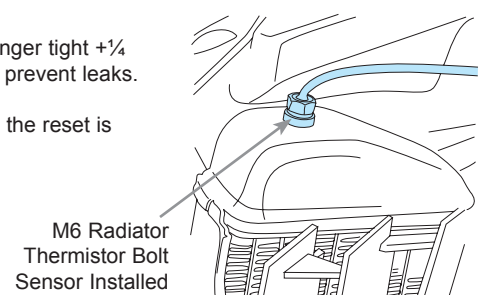
1. Remove spark plug.
2. Remove the crush washer from spark plug and discard.
3. Screw on the air-cooled temperature sensor (it looks like a ring terminal) where the crush washer was located.
4. Reinstall spark plug.
5. Connect sensor wire connector to Vector.
6. Perform a two button reset (<LEFT> + <MODE>.) Vector will not display temperature until the reset is performed (telling Vector to look for a sensor.)
Vector will display "--" for engine temperature until it reaches 100°F (38°C).
7. Test the system.
8. Use zip-ties to secure the sensor wire along bike as it is routed to Vector.



Air-Cooled Temperature Sensor on Spark Plug
Ready to be installed in bike.

THERMISTOR BOLT TEMP SENSOR INSTALLATION:

1. Remove the M6 pressure relief bolt from top of radiator.
2. Install Vector M6 Temperature Thermistor in pressure bolt hole. Tighten to no more than finger tight $\frac{1}{4}$ turn. Note that sensor is hollow brass and can break easily. Use silicone gasket sealer to prevent leaks.
3. Connect sensor wire connector to Vector.
4. Perform a two button reset (<LEFT> + <MODE>.) Vector will not display temperature until the reset is performed (telling Vector to look for a sensor.)
Vector will display "--" for engine temperature until it reaches 100°F (38°C).
If the water level drops below the level of the thermistor bolt, the temperature reading may become inaccurate.
5. Test the system.
6. Use zip-ties to secure the sensor wire along bike as it is routed to Vector.



M6 Radiator
Thermistor Bolt
Sensor Installed