

Installation Instructions Equipment Vehicle Monitoring (EVM) Cable w/ *Shadow Tracker*™ 2000



Installation should be performed by a qualified professional who is familiar with your vehicles electrical system.

The EVM cable is a 30' cable constructed with a DB9 female connector and 2 Sensor leads. The Sensor 1 lead is gray w/ yellow stripes and the Sensor 2 lead is all gray. Each Sensor lead contains a red and a black wire which will be connected to the vehicle signals that will be monitored. Once installed, Sensor 1 will coorespond to EVM Port 1 and Sensor 2 will coorespond to EVM Port 2, in the *Shadow Tracker*™ *Professional* software.

Connecting the Cable

In the following example we will connect two single-pole, single-throw switches [Switch 1 and 2] to the [Sensor 1 and 2] leads.

1. Connect the red wire from the Sensor 1 lead into Switch 1 at a place where voltage is greater than 9 volts.
2. Connect the black wire from the Sensor 1 lead into Switch 1 at a place where voltage is less than 1.5 volts.
3. Repeat this procedure to connect the Sensor 2 lead into Switch 2.
4. Connect the EVM cable DB9 female connector to the back panel of the *Shadow Tracker*™ 2000 at the connection labeled "Serial 2". Tighten securely.

The *Shadow Tracker*™ 2000 unit is now ready to begin collecting EVM data.

The Sensor signals will become **Active** whenever the Switch is closed, connecting the Battery voltage. The data recorded for this switch state will cooresponds to the EVM Ports - Active State column of the EVM Ports Definition table in the *Shadow Tracker*™ *Professional* software.

The Sensor signals will become **Inactive** whenever the Switch is open. The data recorded for this switch state will cooresponds to the EVM Ports - Inactive State column of the EVM Ports Definition table in the *Shadow Tracker*™ *Professional* software.

Note: If voltage is already connected to Switch 1 or 2, the red wire is not required for that Sensor lead.

The following facts should be noted regarding the recording of EVM data in the *Shadow Tracker*™ 2000 unit:

- No sensor recording will occur until GPS satellites have been visible at least once.
- Sensor readings are recorded at the GPS recording or collection rate.

