

CDMA PRO

Installation Guide



Overview

A minimal installation requires power, ground and ignition to be connected, and will only deliver GPS data. Before the device and tracking site are able to take advantage of remote **Input and Output (I/O)** functionality, the I/O must be wired appropriately **AND** the I/O must be configured on the CovertTrack site. See ***NAMING THE INPUTS/OUTPUTS** on page 2 for more information.

CABLES

	Color	Signal Name	Description
POWER CONNECTOR	Red	Primary Power	Primary power 12-24 VDC
	White	Ignition	Ignition/Input 0
	Black	Ground	Vehicle or Chassis Ground
INPUT/OUTPUT CONNECTOR	Blue	Input - bias low	Input 1 - Optional
	Orange	Input - bias low	Input 2 - Optional
	Violet	Input - bias low	Input 3 - Optional
	Gray	Input - bias low	Input 4 - Optional
	Green & White	Input - bias low	Input 5 - Optional
	Blue & White	Input - bias high	Input 6 - Optional
	Black & White	Input - bias high	Input 7 - Optional
	Green	Output 0	Output 0 - Optional
	Brown	Output 1	Output 1 - Optional
	Yellow	Output 2	Output 2 - Optional
	Blue, White & Orange	Output 3	Output 3 - Optional
	Green, Black & Orange	Output 4	Output 4 - Optional

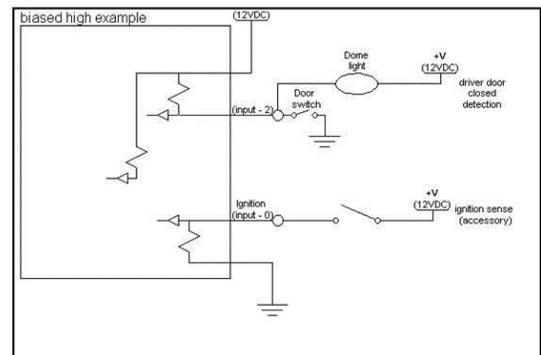
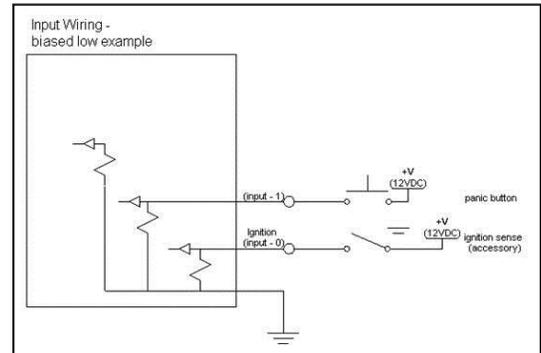
INSTALLATION

Check and verify Power, Ground and Ignition sources to ensure that the proper signaling exists. Be sure that the cables to the CDMA PRO are not bent or constricted in any way. Keep the CDMA PRO free from direct exposure to the elements (sun, heat, rain, moisture etc).

The power input (red wire) from the power connector must be connected to a constant (un-switched) +12 VDC or +24 VDC supply; preferably, connected directly to the vehicle battery terminal or as close to it as possible. This connection point should be fuse-protected to not more than 5 Amps.

The ignition input (white wire) from the power connector must be connected to the vehicle ignition or another appropriate key operated line, such as ACCESSORY, ensuring that power to the ignition wire is available only when the vehicle ignition is on.

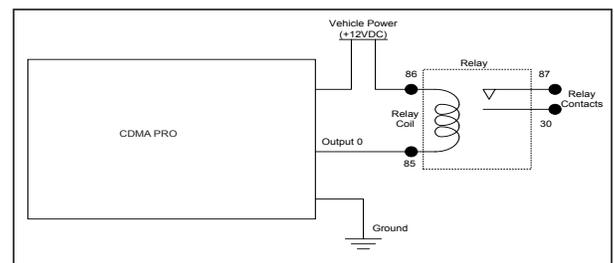
The ground line (black wire) from the power connector must be connected to chassis ground.



Inputs/Outputs

The Ignition input is biased low. When +12 VDC is provided it will send an alert. Providing +12 VDC to Input – Bias Low wires will send an alert. When Input – Bias High wires are grounded, they will send an alert.

The CDMA PRO's outputs are designed to drive external relays. These outputs provide a high-current, open-collector driver that can sink up to 150 mA each. These drivers may be used to drive external relays that can then control vehicle functions such as door locks, sirens and lights. If additional current is required to drive the relays, external circuitry can be added to source the current. This diagram is a typical use of an output to drive a relay.



PLACEMENT OF TRACKING DEVICE

Be certain that the installation point will not violate any of the CDMA PRO's environmental specification (temperature, moisture, etc.) as improper installation of the CDMA PRO may void the warranty. See the CDMA PRO Environmental Specifications for the exact specifications.

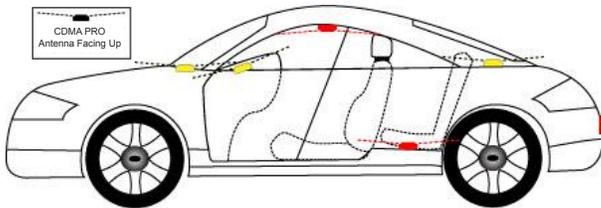
For best satellite reception, the unit should be placed horizontally. Satellite signals will not penetrate through metal, therefore do not place the device in a location where it would be surrounded by metal such as in the vehicle trunk.

A typical installations will place the CDMA PRO under the vehicle dash board. Attach the CDMA PRO to the solid body of the vehicle, not to plastic panels. Make sure you can get access to the unit afterwards as under some circumstances it may be necessary to add additional wiring or connections to the CDMA PRO.

ANTENNA PLACEMENT

The CDMA PRO uses an external antenna for both GPS and Cellular. Any blockage of the antenna can affect the tracking quality. In order to maximize performance, make sure that there are as few obstructions as possible around the CDMA PRO's antenna. It should have a 360° view to the horizon, near the center of the dash with a full view of the sky through the front windshield.

Examples of OK (yellow) and Poor (red) internal antenna placements



PROTECTION FROM HEAT

It is best not to place the CDMA PRO unit in an unusually warm location such as directly near heater vents, near hot engine components or in direct sunlight. The maximum temperature that can be tolerated by the CDMA PRO is described in the CDMA PRO Environmental Specifications section.

MOISTURE AND WEATHER PROTECTION

The CDMA PRO must be installed in a protected location, where it will not be exposed to direct or indirect water spray. Improper installation of the CDMA PRO may void the warranty.

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature -30° C to 70° C (-22° F to 167° F)
Storage Temperature -40° C to 85° C (-40° F to 185° F)
Humidity 95% relative humidity @ 50°C non-condensing

ACTIVATION

Visit www.covertrack.com to activate your CDMA PRO. Activation requires the barcode number found on the silver label at the bottom of the device. Allow up to 10 minutes to download the satellite data, while the CDMA PRO is outside with a clear view of the sky.

*NAMING THE INPUTS /OUTPUTS

To name the input and outputs, choose the [ACCOUNT](#) link, found in the upper right corner of the CovertTrack tracking page. Find your tracker from the device list and choose [Select for Update](#). Edit the text box adjacent to each colored wire. Name the wires according to the triggered event or alert programmed for that color during installation. Select [Update](#). Repeat for as many outputs as required. Select the [TRACKING](#) link at the top of the page to return to tracking. You will find the updated input and output names in the "Reports Panel" on the right side of the CovertTrack tracking page.

The control for the inputs is located within the SMS/Email section of the "Report Panel."

The control for the outputs is located just beneath the Geo-Fence Settings.