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## MTM701LTE INSTALLATION GUIDE

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### HOW TO HARD WIRE YOUR GPS TRACKING UNIT

The installation of the MTM701LTE can have a major impact on the device performance. Care should be given to physical placement of the device as well as the connections made during installation.

#### Plan the installation:

Locate and verify a constant (un-switched) +12 VDC or +24 VDC power supply, the chassis ground, and the vehicle ignition line or other key operated line.

#### Place the MTM701LTE in the vehicle:

The MTM701LTE features dual internal cellular and GPS antenna. The device needs to be placed inside the vehicle with the **label facing away from the sky**. Ideal device location is to mount the unit horizontally, high under the dashboard, close to the front windshield. Ensure that the device is kept free from direct exposure to the elements.

#### Connect POWER, GROUND, and IGNITION:

The power input (red wire) 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.

The ignition input (white\* wire) 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) must be connected to chassis ground.

Please verify that your power, ground and ignition wires are connected correctly, then plug the harness connector into the MTM701LTE.

#### Verify:

Successful device operation can be verified by observing the LED indicators near the harness connector.

A solid **GREEN LED** indicates that the device has a GPS lock.

Blinking 1Hz = Searching      Solid = GPS Signal is OK

A solid **AMBER LED** indicates that the device is connected to the cellular network.

Blinking 1Hz = Searching      Solid = Cellular signal is OK

#### Note:

If the **AMBER LED** does not turn solid after 2 or 3 minutes, cycle power to the device and take the vehicle for a drive. Verify LEDs after the drive.

When enters sleep state, both GREEN and AMBER LEDs will blink slowly (once every 5 seconds).



# MTM701LTE



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## HARNESS DIAGRAMS

### Power Harness - 4 Pin Black Plug that connects to the end of the MTM701LTE unit

SIGNAL	DESCRIPTION	WIRE COLOR
VCC	Primary Power Input	RED
GND	Ground	BLACK
IN-0	Ignition Biased low	WHITE
OUT-0	Output 0 (Optional - Starter Disable)	GREEN

### I/O Harness - 14 Pin - White plug - connects to the Side of the MTM701LTE unit

Pin	SIGNAL	DESCRIPTION	WIRE COLOR
1	1 Wire Bus	Not Currently used	BROWN/WHITE
2	VDD	Not Currently used	RED/WHITE
3	12C SCL	Not Currently used	PINK/GREEN
4	I2C SDA	Not currently used	POWDER BLUE
5	INPUT 1	Biased High	BLUE
6	INPUT 2	Biased High	ORANGE
7	INPUT 3	Biased High	VIOLET
8	BOOT 0	Not currently Used	BLACK/WHITE
9	ADC 0	Not Currently used	PINK
10	OUTPUT 1	DOOR UNLOCK	BROWN
11	OUTPUT 2	Not currently used	YELLOW
12	OUTPUT 3	Not currently used	GREY
13	VCC	+12v to power accessories	RED
14	GROUND	Ground	BLACK

**Note:** The MTM701LTE has several wires that are not currently used. They are for future features and currently non-functioning. There is also a small WHITE 4 pin socket next to the 14-pin socket, that is mainly for device programming at the factory.

### View of Label side with Power & I/O Harness Connected

I/O Harness

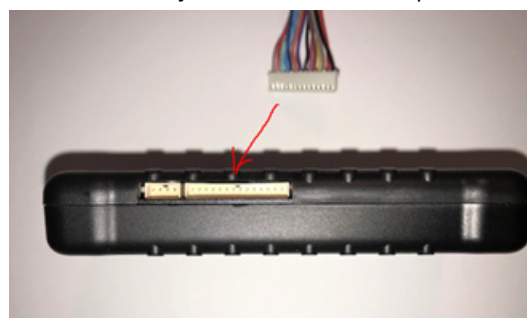


Power Harness

View of Plugs disconnected



Side view Picture of MTM701LTE and 14 pin Harness and



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