

Power Requirements: In most installations, the GPSBOX is powered by the attached two-way radio. DC voltage is supplied to the GPSBOX from the accessory connector of the radio. However, some radios do not have DC power available on the accessory connector. In that case, the GPSBOX may be powered by one of two ways.

1. Wire leads may be provided on the Radio Interface Cable which are used to connect the GPSBOX to a regulated 12 VDC power source, such as an automobile battery. These leads correspond to pins 14 and 15 of the GPSBOX DB15 connector.

2. The GPSBOX can be plugged into the USB port of a personal computer (see below) or a powered USB hub. Note that an unpowered USB hub cannot be used for this purpose.

When the GPSBOX has power applied the LED on the device will show a constant green light.

Two-Way Radio Reprogramming: In order for the GPSBOX to function properly, some two-way radios may require reprogramming using the manufacturer's Computer Programming Software and interface cable. The exact programming changes that are required for each model of two-way radio can be found in tech notes which are provided with the Radio Interface Cable for that model. If you do not have a programming cable and software, contact your System Admin or the company that you purchased the two-way radios from.

CONNECTING TO A COMPUTER (optional): The GPSBOX can be connected to a personal computer running the GPSMIC Tools software suite. This enables the GPSBOX to operate as a single-channel Base Station and gives the user access to dispatch functions such as the visual display of location reports received, and over-the-air location polling of other GPSMIC units.

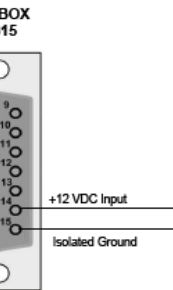
The GPSBOX has a built-in mini-USB style jack. To connect the GPSBOX to a desktop or laptop Personal Computer, plug the USB interface cable into both the GPSBOX and the USB port of the PC. You must also install the GPSBOX software driver. See the Help file of the GPSMIC Tools software for more information.

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GPS ACCURACY NOTICE: GPS location data is acquired from government satellites. Accuracy of this data is subject to obstructions, reflections, interference, and government interventions, and is not under our control. Users should avoid placing absolute reliance on coordinates obtained from any GPS receiving device.

Patent Numbers:  
US 6,912,397 TW 1248771 CN 2798422Y  
US 6,941,147 TW 1252705 MX 262620  
OTHER US AND WORLDWIDE PATENTS PENDING

This Class digital apparatus complies with Canadian ICES-003.  
Cet appareil numérique de la classe\* est conforme à la norme NMB-003 du Canada.



## GPSBOX for mobile radios

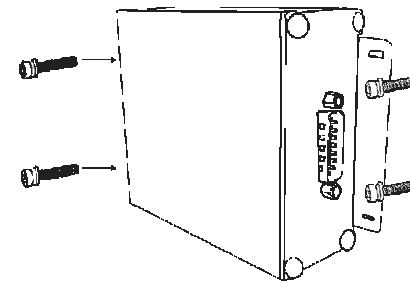
### Installation Guide

“Get Connected”

Compatible with the GPSMIC™ System

PROGRAMMING REQUIRED: Typically all GPSMIC series products will require setup and programming prior to use. This guide is based only on default features and programming; your unit may be configured differently. If you have questions about the operation of the GPSBOX, contact your radio system administrator or the dealer that you purchased the GPSMIC system from. Always use the USB interface cable provided by us with your GPSBOX to connect the device to a PC. Using another manufacturer's cable can result in erratic operation since the cable contains additional filtering to help prevent Radio Frequency Interference to the USB port.

MOUNTING THE GPSBOX: The GPSBOX has four notches on the bottom plates which allow it to be secured using bolts or screws. The GPSBOX can be mounted in any convenient location, such as in a radio console, a trunk-mounted radio tray, under the car seat, or under the dashboard of a vehicle. For fixed (based) station installations, the GPSBOX can be co-located with the two-way radio or computer. Although not required for operation, you may want to mount where the LED indicator is visible.



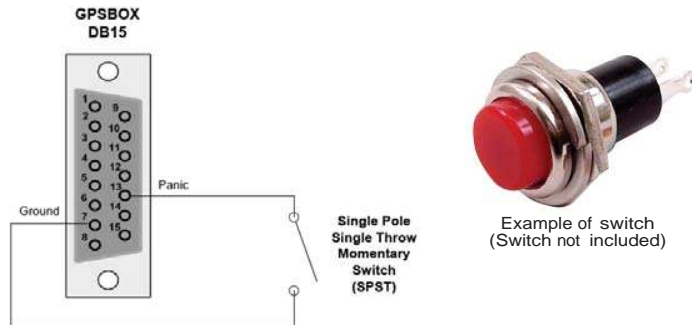
## GPSBOX INSTALLATION MANUAL

**CONNECTING THE GPS ANTENNA:** The GPSBox is packaged with a GPS active antenna. This antenna connects to the SMA antenna jack of the GPSBOX. For fixed (base) station operation, installation of the GPS antenna is optional. However, if the antenna is not installed the GPSBOX will be unable to get a GPS fix showing its current location. The GPSBOX will still be able to receive reports from other GPMIC compatible units when acting as a base station.

The mounting location of the GPS antenna can affect the ability of the GPSBOX to acquire location fixes. The GPS antenna should have a clear, unobstructed view of the sky. For best results, the antenna should be affixed using the integrated magnet and positioned on the center of the roof of the vehicle, as far away from the two-way radio transmitting antenna as possible. The GPS antenna must be orientated horizontally. When routing the coax, avoid sharp bends or kinking. Do not crimp or crush the coaxial cable.



**INSTALLING A PANIC SWITCH (Optional):** The GPSBOX has a panic function which, when activated, sends an over-the-air alert and a series of location reports at specific programmed intervals. This function requires an external switch for activation. This switch is not provided. A Single Pole Single Throw momentary switch can be used for this purpose. The switch can be installed in any convenient location, such as the radio console, dashboard, or a foot-switch on the floor of the vehicle. Installation of a panic switch is optional. If no switch is installed the panic function will not be available.



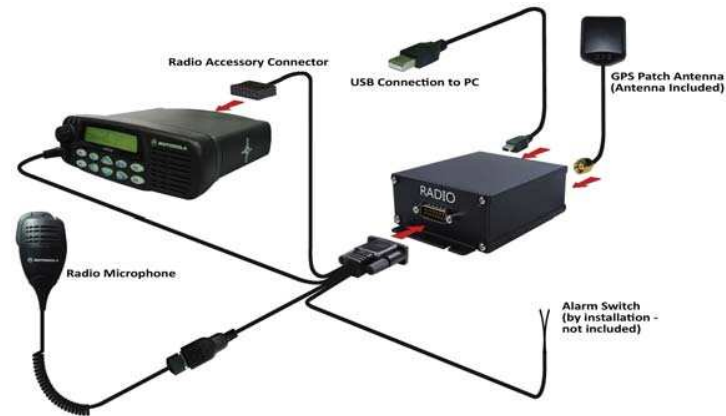
The Interface Cable that is used to connect the GPSBOX to a two-way radio normally has two unconnected wire leads which allow the panic switch to be connected. These leads correspond to pins 13 and 7 of the GPSBOX DB15 radio interface connector. If no panic switch will be installed these two leads should be insulated so that they do not ground-out against any metal objects.

## GPSBOX INSTALLATION MANUAL

**CONNECTING TO A TWO-WAY RADIO:** The GPSBOX requires a connection to a two-way radio operating on a voice radio system with other GPMIC compatible devices. The connection to the two-way radio is accomplished using an Interface Cable, which is sold separately. Interface cables for the GPSBOX are available for a variety of two-way radios, including models by Motorola, Kenwood, Vertex, and Icom.

The Radio Interface Cable connects to the DB15 connector of the GPSBOX. Typically, the cable connects to the accessory connector of the mobile two-way radio. However, the exact configuration of the cable varies depending on the model of radio and additional connections to the radio's microphone and/or external speaker jack may be needed.

Note: Always make sure the two-way radio is turned off when connecting or disconnect a GPSBOX Radio Interface Cable.



Example only! Actual cable varies by radio model.

**DISCLAIMER:** This guide covers typical installations. Some installations may require a slightly different procedure or equipment. The information contained in this help file is believed to be correct as of the date of publication. However, PRYME follows a policy of continuous development, so the information is subject to change without notice, and does not represent a commitment on the part of us. If you have questions, please contact MobilitySound Technical Support or your local MobilitySound dealer.