



## RVsecure Installation Manual – Protector E edition

**This installation guide assumes that you already have experience in Caravan installations. Installing any system in any van requires a level of knowledge of your vans electrical systems prior to starting. If in doubt please have a professional installer complete the installation for you.**

### Tools you will require

- Electric Drill
- Automotive crimpers
- Phillips head screw driver
- Flat screwdriver

### Other consumable items that may be required

- Cable ties
- Screws
- 5A inline fuses and holder

### Mounting the Control unit

The control unit can be mounted in any location protected from the elements within the van and with any physical orientation. Mounting close to the battery is a good choice as it minimises cabling required

The Control unit is attached with 4x suitable screws on the end plates.

### Installing the PIR

The RV PIR can be mounted in a variety of positions due to its unique ability to work through multiple planes. It is good practice to firstly test the operation of the PIR in the chosen position before a final decision is made to install, ensuring suitable operation.

To install the PIR

1. Open the battery compartment at the rear and install the batteries
2. Mount the bracket in the chosen position
3. Clip the PIR on the bracket
4. When ready, power up, add sensor to control unit and then test.

### Installing Reed switches

The reed switches are installed so that opening the door will break the contact. They do not need to be touching, a distance of 1~3cm will generally be suitable however it is important to test this before permanent mounting with the double sided tape (supplied). Remove cover and install battery. The blue light can be seen activating when the connection is broken allowing easy test.

When mounting remember that the sensor will require occasional change of batteries (the blue light goes dim / flashes when battery low) so do not bond the outer cover in place.

### Installing the Siren

It is recommended that the siren be mounted near to the control unit. Its operation will not interfere with the unit. The siren is waterproof so it can be mounted outside of the vehicle however it is perfectly OK to mount inside. Once a position has been chosen screw the siren bracket into the surface and plug the siren into the control unit.

### Installing Wired Switches (optional)

Zone 15 has the capability to install 1 or more wired switches in parallel. Each switch requires two wires from the alarm side of the GPS loom, or if not using the a GPS from the wired switch plug (optional), the Orange (earth) and the White (active). The Orange is connected to the ring connector and the White to the Pin. It is important that these two do not get mixed up and the White earthed to the vehicle otherwise the alarm will not arm.

## Wiring – (also see wiring diagrams page 3)

### Connecting Power

The 4 pin loom contains the power and earth cables and should be connected directly to the battery. Do not connect this through any master switching circuits as turning them off will de-power the alarm. The Red cable goes to the +ve battery (we recommend fitting a 5A inline fuse), whilst the Black cable goes to Earth.

### Installing (optional) GPS and Communications Hub

The GPS and Communications Hub connects to the alarm system via a 6 pin loom (supplied with GPS kit), 2 of these cables are for the wired sensors (Orange and White) and are not required to be connected to the GPS. The plug end with all 6 cables is connected to the alarm system whilst the plug end with 4 cables is connected to the GPS. Install the 4G and GPS antennas in a convenient position. The ideal position for the GPS antenna is either internally just under the roof or externally on top of the roof. The 4G antenna should be as high as practical. Please see GPS Communications Hub manual for further information.

### Liability

1/ tech7/RVsecure accepts no liability for damage done either to the unit itself, its sub components or to the vehicle due to owners incorrect wiring. If in doubt please consult a professional.

2/ tech7/RVsecure accepts no liability for any theft of any property, boat or other.

3/ tech7/RVsecure accepts no liability for any damage to any property, boat or other.

### Installation Notes

- As with any plastic material it is recommended that if drilling any holes they be slightly larger than the screw to avoid cracking the plastic.
- When using double sided tape it is advisable to first clean the surface. Prepsol or IPA are suitable cleaners however caution is suggested when using these on wood (or wood lookalike) surfaces.
- If using bonding agents be careful to follow the manufacturers advice.
- Whilst the control unit has internal power fusing and advanced automotive type power filtering when connecting the + power cable to the unit it is highly recommended to install an inline fuse as a first line of defence.

Wiring Diagram

