

Booster Instructions

Introduction

This booster unit is intended for use with Geofire SALAMANDER Door Holders. It functions as a mains powered radio repeater that, as a fixed part of an installation, extends the radio range from the controller. Up to 8 boosters can be used in any installation.

The unit should be wired into a fused mains spur so it is permanently powered on. The booster features a red LED to show power, a green LED to show each received broadcast and a two-digit display to show signal strength. Once the booster is permanently fitted the two-digit display can be covered using the supplied blanking plug.

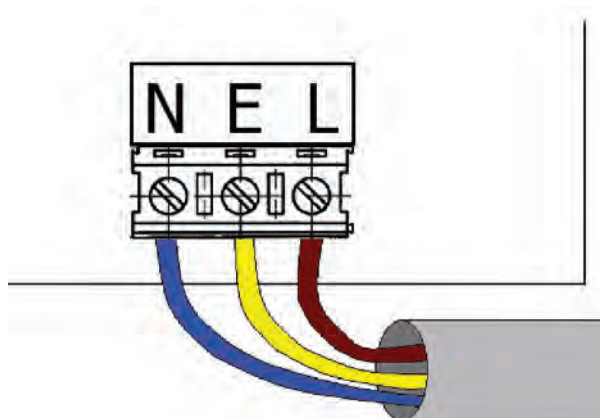
A built-in backup battery enables the booster to continue working for 6 hours of mains power failure. The red power LED does not light when the booster is running by battery power alone, but the green LED will still flash with each received broadcast.

A thorough radio survey should be conducted to identify suitable positions for mounting boosters. A battery powered Survey Kit is available that will give an indication of radio signal strength at any location in the building.

1) Enrol

The booster must be enrolled at the control panel before it can be used. This is done in a very similar way to enrolling a door holder.

1. Open the case and connect the backup battery connector to the main circuit board. (As supplied the battery should have enough power to complete the ENROL procedure but if not connect a temporary mains lead to the booster as below. Refit the cover before turning on mains power.)
2. Press the ENROL button on the control panel.
3. If enrolling is successful, the booster number is displayed at the panel. If it is not successful, EE is displayed – try again.
4. Write the booster number on the back of the case.
5. Disconnect the backup battery (if a mains lead has been fitted, unplug it before removing the front cover).

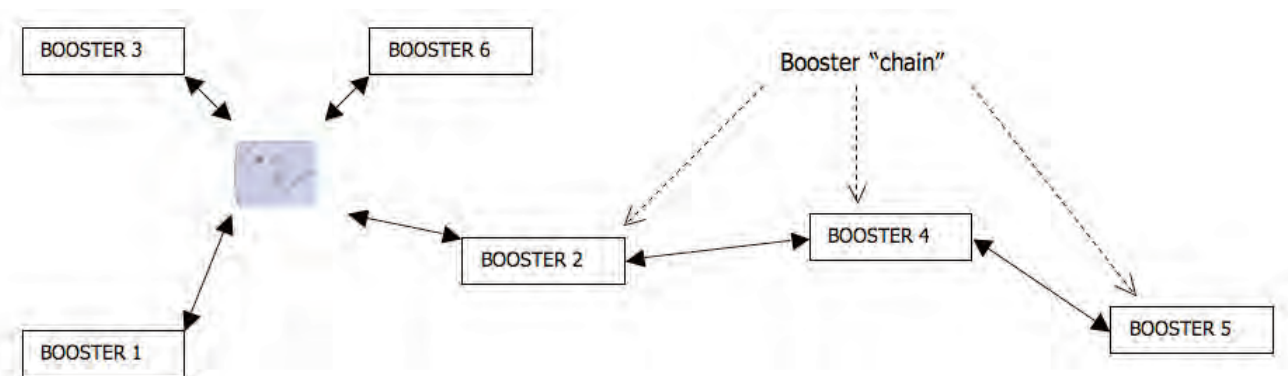


During Use

Before fitting, a suitable site for the booster must be identified where it will cover the doors required and where it can consistently receive the broadcast signal from the controller. Use the Salamander Survey Kit and refer to the instructions.

1. Enrol each booster at the controller before fitting in position. Mounting positions must be at head height or above for good performance, no closer than 600 mm to any wall or similar surface. Do not mount in an alcove or corner.
2. You may test the booster in the standard 32 second broadcast mode but it is quicker with the controller set to a 4 second broadcast. To do this, enter COMMAND MODE and select option 3 (see controller installation instructions). NOTE - If you already have door holders fitted you should take out the batteries to avoid unpredictable releases in the 4 second broadcast mode.
3. Power up the booster and wait for 2 minutes while the booster synchronises with the controller or the nearest booster. The green LED on the booster will then start to blink at every broadcast and the display gives an indication of signal strength.
4. The broadcast signal must be consistently received as shown by the green LED and a minimum strength of 30 at each LED blink should be obtained – note that this is for indication only and is not a substitute for a radio survey. Check for 10 consecutive broadcasts.
5. Reset the controller to 32 second broadcasts. Power on the door holders in the intended locations and check that they work reliably.
6. Repeat this process as required to cover the area of installation. Up to 8 boosters can be used in one installation.
7. Permanently fix the booster to the wall using 4 screws and wire into a fused spur outlet.

Multiple boosters can be used in succession to extend the range away from the controller. The only point to remember in a chain of boosters is that the boosters closer to the controller must have a lower unit number than those further away. See diagram below.



To commission a system of boosters, simply connect the backup-battery and switch on each booster in order starting with the boosters closest to the controller. When powered up, each booster will synchronise to the strongest signal that it receives whether from the controller or another booster (with a lower unit number). In the same way every door holder when switched on will lock-on to the strongest signal it receives whether from the controller or a booster. This may take up to 2 minutes.