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Everclear® Intercom Installation Tips

CAUTION: Avoid damaging circuit boards with static. Always discharge static by touching a grounded object before handling circuit boards.

Installation Overview: The power supply with battery mounts in the controller. Multicar or multi-master intercoms have a selector board which also mounts in the controller. The master stations can mount wherever allowed by code. The car amplifier is designed to mount in the COP, and must mount in the car.

Do not mount intercom near blowers, air conditioning or other noisy equipment. While the Everclear intercom is resistant to induced noise, any intercom will convey ambient noise.

Recommended wire size is 18 gage. If you do use twisted, shielded wiring, do not ground the shield in more than one location. Connect the shield to 12 V (-) at the power supply only. Don't let the shield touch ground any place it is spliced.

Avoid damage by not wiring the power supply to the selector board (or, in the case of single car intercoms, to the master station) until all wiring is complete. Hook up the power supply last. Don't forget to connect the red and black wires from the power supply board to the battery.

DO NOT connect 120 volt AC to anything except the power supply.

Master station priority: Only one master can communicate at a time. Master station priority is determined by which master station is wired into the Master 1 terminal strip on the selector board. The one wired into Master 2 terminal will have second priority, etc. When turned on, the higher priority master station removes power from lower priority master stations.

The car amplifier *must* go in the car. It can't be in the controller. It is designed to mount behind a speaker grill in the car station. If no grill has been provided, our optional ceiling-mount enclosure will protect the speaker and amplifier, and is a real labor saver.

The stud pattern for mounting the car speaker is 2.8" CL to CL. The speaker mounting bracket can be rotated and drilled to fit other stud patterns.

If possible, intercom wiring should be in a different traveling cable than the door operator or car light circuit. When wiring for the intercom must be in the same traveling cable as the car light circuit, best practice is to use wiring from the outer course for the intercom wiring. The car light circuit is generally on heavier wire at the center of the traveling cable.

The intercom not only operates independently of the phone system, it cannot be wired into the phone or any other communication system **except** to override the emergency telephone as required by code.

The in-use light should be located on the same panel in the car as the "HELP" push button (per ASME A17.1a-2002 - 2007) and requires a 3/8" hole.

Multicar intercoms only: On the display board in the master station, set jumper JB1 on the pin with the number that corresponds with the number of cars (or cars you want to turn on and display).

Additional technical information is available at

www.everclear-intercom.com