



AED Locator System Installation Instructions

Important Notice to the Purchaser and Installer:

Proper operation of the Locator System is dependent on (1) the AED being visible at the Receiver/Siren location, (2) the Heart Transmitters being located within the wireless transmission and audible range of the Receiver/Siren, and (3) the Heart Transmitter batteries being tested and replaced as needed. Therefore, it is the responsibility of the Locator System Owner to assure proper operation of the Locator System under all conditions.

General Operation:

The Locator System consists of a single Receiver/Siren (referred to as “receiver” in remainder of document) and up to 100 Heart Transmitters (referred to as “transmitters” in remainder of document). The transmitters are to be mounted near doorways, stairs, elevators, corridor intersections, and in remote areas to promote awareness of AED’s on site and also as a means to quickly locate an AED in a cardiac emergency. Pressing the button within the transmitter triggers the siren within the receiver. The rescuer then quickly follows the siren directly to the AED.

Programming Transmitters to Receiver:

Locator Packs are supplied with the transmitters preset to the receiver. This section is only required if additional transmitters need to be added to a receiver or if the transmitters and receivers were not purchased as part of a Pack. If you purchased a Pack, proceed to page 2. Adding additional transmitters or changing transmitters to operate with different receivers is accomplished as follows:

- 1) Remove screw plug and screw on each side of the receiver. (Fasteners are supplied, but not installed)
- 2) Lift cover out and up to remove.
- 3) Apply power to the receiver. (This step can happen in advance of installation by plugging the receiver into an outlet, or after completing the Installation of the Receiver Siren.)
- 4) Wait at least 5 seconds for the internal system checks following initial power up.
- 5) Hold transmitter within 1 foot of the receiver with antennas parallel. (Receiver antenna is black wire taped to left siren.)
- 6) Press and release the small black “study” button on the top piggy back circuit board. (See Figure 1) LED near button will turn red.
- 7) Press the transmitter button within 3 seconds and hold until the LED flashes red and then turns green, indicating that the transmitter was learned. After 5 seconds, the learn process is discontinued by the receiver.
- 8) Test the transmitter by pressing the transmitter button to assure that the siren is triggered. Pressing the transmitter button after 5 seconds will stop the siren. See Test Mode on page 1.

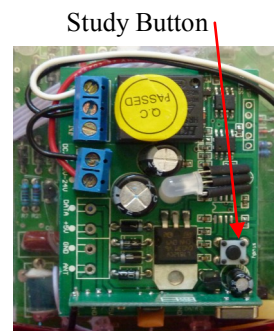


Figure 1

If a transmitter must be removed from memory, it is necessary to clear the receiver. To remove all codes, press and hold the “study” button until the LED flashes red 5 times. This will take about 10 seconds. The receiver may then be

Test Mode:

Under normal operation the siren will sound for about 2 minutes after the transmitter button is pressed. During range testing and in periodic system tests, it is desirable to have the alarm sound for a shorter period. By pressing the transmitter button AFTER 5 seconds, the siren will stop. The system will immediately return to the ready state.

Installing the Receiver/Siren:

- 1) **Determine Location:** For best utilization of the Locator System, the AED and receiver should be located in a central location rather than on an outside wall such that the range can be utilized over a full 360 degrees. The receiver must be located so that the AED is visible from the receiver, however does not need to be directly above the AED if power is more readily available nearby. The receiver should be located on a wall near the ceiling and must be mounted on a vertical surface with the red lens on the bottom. High locations resist tampering and provide the fewest signal obstacles.
- 2) **Supply Power:** The receiver is supplied with an internal 12 volt supply such that it can operate off line power (100-240Vac). This internal power supply can also be bypassed by directly supplying low voltage (12 volts/0.4 amp). In addition, the internal 12 volt supply can be relocated externally to allow installation of only low voltage power lines to the receiver. Select from the following options for supplying power to the receiver:
 - a) *Recessed electrical box behind receiver with 100-240Vac (PREFERRED):* Recess an electrical box directly behind the location where the receiver is to be mounted. After mounting the back plate (per step 3) run power leads through the back plate of the receiver housing. Cut off the power cord plug supplied with the power supply and tie directly into the input power leads.
 - b) *120-240Vac outlet beside receiver:* The receiver is supplied with a common Type A plug. Follow step 3 for mounting the receiver back plate within 5 feet of the outlet. Cut a small slot in the receiver cover for the cord to exit the receiver in the desired location. Plug the receiver plug into the outlet.
 - c) *Remote junction box with conduit to receiver:* Mount the receiver back plate per step 3. Run conduit to the side or top of the back plate. Cut off the power cord plug supplied with the power supply and tie directly into line power. Cut a small slot in the receiver cover at the point where the conduit enters the receiver.
 - d) *Low voltage (12 volt) supply to receiver:* The receiver operates directly off 12 volts/0.4 amps. For some installations it may be preferred to remove the internal power supply or to mount it within a remote electrical enclosure and to simply run a low voltage line to the receiver. Connect low voltage to the main board Power +/- . The low voltage lines can enter through a hole in the receiver back or the receiver perimeter by cutting a small slot in the cover.
- 3) **Mount Back Plate:** Install the 2 supplied square nuts into the receiver back plate slots from the back side. These will be used later for securing the cover. Using supplied fasteners and anchors, mount the receiver back plate to the wall using the four corner mounting holes. Be sure to locate the back plate in accordance with the box or conduit discussed in step 2 to assure wires enter the receiver without being pinched.
- 4) **Install the cover:** Assure that appropriate slot has been cut in the cover as discussed in step 2. Install the cover by hooking the top tabs into the base plate and rotating the cover onto the base plate and groove in the red lens. Secure the cover by inserting the 2 supplied fasteners through the cover into the square nuts inserted into the base plate in step 3. Insert 2 supplied cap plugs over fasteners.
- 5) **Apply power and observe blinking LED indicator on lower circuit board, signifying operation.** Power must be applied for approximately 5 seconds before the receiver is ready to receive the transmitter's signal.

Installing the Transmitter:

- 1) **Determine Location:** Due to various conditions and obstacles that influence wireless and audible transmission, it is the responsibility of the Locator System Owner to assure that the location selected for the transmitter is within a range to trigger the receiver siren and that the siren can be heard from the transmitter location under all conditions. This can be easily tested by using the Test Mode per page 1. Transmitters should be located near doorways, stairs, elevators, at corridor intersections, and in remote areas. Wireless and audible range may not always permit the exact desired location, however the goal of the heart transmitters is to extend the awareness and accessibility to the AED as broadly as possible.

Start with the desired location. This may be up to 500 feet from the receiver when line of sight, and up to 250 feet with obstacles. These ranges will vary based on obstacles and conditions. Test the signal at this desired location. If wireless signal does not consistently trigger the receiver siren or the audible signal is not heard from the desired location, try alternate locations. These may be across the hall, on a different wall, or on the other side of the room. It may be necessary to move to locations closer to the receiver to achieve consistent operation.

- 2) **Attach the transmitter to the wall:** The transmitter should be mounted at a height of 3.5 to 4.5 feet. Mount to a wall stud using the 2 fasteners taped to the inside of the heart. Mount through the holes behind the removable heart insert. Be careful not to over tighten which may deform the plastic heart housing.
- 3) **Insert heart cover:** The heart cover serves as the first stage of a dual action device to limit tampering. To install, place the cover over the heart slot and press firmly to engage the 3 Dual Lock fasteners.
- 4) **Optional break tie:** For additional tamper resistance, an optional triple stage device can be created by drilling a small hole through the side of the main housing and into the finger slot. Also, drill a small hole in the insert heart near the "PULL" label. Insert a tie through the main housing and heart insert.

Maintenance and Battery Replacement:

The Locator System should be tested monthly to assure that all transmitters trigger the receiver. See Test Mode.

The transmitter batteries should be replaced annually or as needed. To replace the batteries:

- 1) Remove heart insert to expose the battery cover directly below "PRESS Button, FOLLOW Siren to AED".
- 2) Insert finger and pull on battery cover to remove
- 3) Use a small screw driver to remove battery
- 4) Replace battery with a 12 volt alkaline (A23) battery observing polarity. (Negative terminal on coil spring)
- 5) Replace battery cover and heart insert cover.

Troubleshooting:

- 1) **No reception**
 - Reprogram transmitter per Programming Transmitters to Receiver
 - Verify that 12 volt battery of transmitter is good and receiver lower board is receiving 12 volts at Power pins.
- 2) **Poor reception**
 - Verify that antenna within transmitter heart is fully extended (approximately 2.75 inches).
 - Verify that antenna within receiver is vertical and extends from near red lens to top of backplate.
 - Verify that 12 volt battery of transmitter is good.
- 3) **Alarm shuts off in less than 2 minutes**
 - Verify that jumpers on lower receiver board are set to "EXT", "cont", and "SAB".

FCC STATEMENT

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

WARNING Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio / TV technician for help.

Declaration of Conformity

Trade Name: Transmitter

Model Number: WSYJJ-RC-A

Responsible Party: Giant Alarm System Co., Ltd

Address: No. 5 Mansion, Jingpin Park, Huinan Industry Zone, Quanzhou City, China

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Declaration of Conformity

Trade Name: Receiver

Model Number: JJ-JS-183

Responsible Party: Giant Alarm System Co., Ltd

Address: No. 5 Mansion, Jingpin Park, Huinan Industry Zone, Quanzhou City, China

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Warning:

Proper operation of the Locator System is dependent on:

- 1) the AED being visible from the Receiver/Siren location
- 2) the Heart Transmitters being located within wireless transmission and audible range of the Receiver/Siren
- 3) the Heart Transmitter batteries being tested and replaced as needed.

Therefore, it is the responsibility of the Locator System Owner to assure proper operation of the Locator System under all conditions. By installing the locator system, owner assumes all responsibility for personal injury or death arising out of the operation of the equipment. Owner agrees to indemnify, defend, and save HeartStation harmless from and against any and all claims, losses, damages, deaths or liabilities of any kind arising out of or in connection with operation of equipment on or about Owner's facility.

Receiver Specifications:

Twin piezo sirens produce 130dB at 1M
100-240Vac input or 12Vdc, 400mA
433.92 MHz Superheterodyne

Transmitter Specifications:

12 volt alkaline battery power
433.92 MHz

Warranty:

One year limited warranty against failure due to substandard material and workmanship.

HeartStation
1000 Brown Street, Wauconda, IL 60084
Sales: (800) 818-2939
Service: 847-487-9376

Patent Pending