Refer to Supplemental Information (next page) for complete descriptions of these installation steps.

**5853 Glassbreak Detector Internal Parts**

- Latch
- Mounting Hole
- Front Tamper Switch
- Microphone
- Wall Tamper (behind battery)
- Sensitivity Switches
- Batteries
- Test Mode pads (on PCB)
- Mounting Hole
- LED Indicators
- Front Cover

**Connect Batteries**

Remove pull tab to connect batteries

**Select Mounting Location**

For the best detector performance, select a mounting location that is:
- within 7.6 m (25 feet) of the protected glass;
- within clear view of the protected glass;
- at least 2 m (6.5 feet) from the floor;
- at least 1 m (3.3 feet) from forced air ducts;
- at least 1 m (3.3 feet) from sirens or bells greater than 5 cm (2 inches) in diameter;
- between the protected glass and any heavy window coverings that may be present.

Alternatively, when heavy window coverings are present, the detector can be mounted on the frame of the window.

Avoid mounting the detector on the same wall as the protected glass, on free-standing posts or pillars, or in rooms with noisy equipment (air compressors, bells, power tools, etc.), if this equipment is operated when the detector is armed.

**Set Sensitivity (Range)**

SENS1 & SENS2 configure sensitivity

<table>
<thead>
<tr>
<th>SENSITIVITY</th>
<th>APPROXIMATE RANGE</th>
<th>SENS1</th>
<th>SENS2</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAX</td>
<td>7.6 m (25 ft)</td>
<td>OFF</td>
<td>OFF</td>
</tr>
<tr>
<td>MEDIUM</td>
<td>4.6 m (15 ft)</td>
<td>ON</td>
<td>OFF</td>
</tr>
<tr>
<td>LOW</td>
<td>3 m (10 ft)</td>
<td>OFF</td>
<td>ON</td>
</tr>
<tr>
<td>LOWEST</td>
<td>1.5 m (5 ft)</td>
<td>ON</td>
<td>ON</td>
</tr>
</tbody>
</table>

**NOTE:** Ranges are approximate and vary with each room's acoustic properties. Always verify range with a FlexGuard FG-701 Glassbreak Simulator.

**Mount Detector**

- Use mounting holes as a template to mark mounting locations on ceiling or wall.
- If using the optional back tamper, remove the batteries, then mark the wall tamper location through its mounting hole.
- Mount detector using appropriate hardware.

**NOTE:** A screw capture feature designed to make ceiling mounting easier will cause some resistance when inserting the screw into the plastic.

- Close detector cover when finished.

**Test Detector Installation**

Enter Test Mode using a FlexGuard FG-701 Glassbreak Simulator (see Testing the Detector on the next page). To enter Test Mode manually, short the Test Mode pads (as shown below).

**Install Cover Screw (optional)**

Use an (optional) #3, 3.5 mm (1/8") #4 x 5/8" self-tapping screw or a #3 Phillips head screw, or a #4 x 1/2" self-tapping screw, or 6 mm (1/4") long #3 Phillips head screw.

The screw retention feature simplifies installation: A rib in the screw cavity lightly holds the screw in place when installing the detector.

*The screw retention feature simplifies installation: A rib in the screw cavity lightly holds the screw in place when installing the detector.*
1. General Information

The 5853 Wireless Glassbreak detector with Transceiver has a low profile, flat aluminum case, plated tempered, laminated, wired, coated and sealed insulating glass. The self-contained detector includes a transmitter that can send alarm tamper data, glassbreak sounds, following the instructions as shown in the table below:

<table>
<thead>
<tr>
<th>SENSIVITY</th>
<th>APPROX. RANGE</th>
<th>SENSIT1</th>
<th>SENSIT2</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIGH</td>
<td>7.6m (25 ft)</td>
<td>OFF</td>
<td>ON</td>
</tr>
<tr>
<td>MEDIUM</td>
<td>4.6m (15 ft)</td>
<td>ON</td>
<td>OFF</td>
</tr>
<tr>
<td>LOW</td>
<td>3.6m (12 ft)</td>
<td>OFF</td>
<td>ON</td>
</tr>
<tr>
<td>LOWEST</td>
<td>1.5m (5 ft)</td>
<td>ON</td>
<td>ON</td>
</tr>
</tbody>
</table>

2. Connecting Batteries/Initial Power Up

To connect the batteries, remove the tab from the end of the battery holder. The detector will start its power up sequence, in which both the LED indicators will illuminate for one second. (The LED indicators are described later in these instructions.)

3. Adjusting Detector Sensitivity (Range)

The 5853 has four sensitivity settings, which are set using the SENS1 and SENS2 DIP switches. The settings are: 1) maximum; 2) medium; 3) low; and 4) lowest. By default, sensitivity is set to MAXIMUM. To change the range of the detector’s sensitivity, use the screwdriver to adjust the SENS1 and SENS2 switches, as shown in the table above.

4. Enrolling Detector Into 5800-Series Receiver

Before the control panel will recognize the 5853, you must program the device’s serial number into the control panel. This process, (‘enrolling’) is described in detail in the control panel’s installation instructions. When programming the transmitter, specify:

- Input Type = 3 (Supervised RF)
- Loop Number = 1

You can transmit the device’s serial number automatically or enter it manually. To transmit the number automatically, nominally activate the front tamper switch. To enter the serial number manually, refer to the control panel’s instructions to enroll the serial ID number which appears on the product.

5. Selecting Installation Location

The 5853 can be mounted on the ceiling or the wall. Choose a mounting location that is at least 2.1m (7 feet) from floor and no more than 7.6m (25 feet) from the farthest protected glass. Be sure the detector has an unobstructed line of sight to the protected glass!

Before mounting the detector permanently, test it to ensure that it functions satisfactorily in the chosen mounting location. Verify that the detector can detect glassbreak sounds, following the directions in the “Testing the Detector” section. Ensure that the 5853 is within range of the receiver, following the instructions for the signal strength test found in the control panel’s installation instructions. (To send the signal required by the test, press the detector’s front tamper switch.) If the detector fails, relocate it and repeat both tests.

6. Mounting the Detector

- Using the 5853 mounting holes as a template, mark mounting locations on the ceiling or wall.
- If using the optional wall tamper, mark the wall tamper location through its mounting hole. The tamper screw must be securely mounted. See details on page 1.
- If required by the mounting location, install wall anchors for the mounting screws. Secure the 5853 to the wall or ceiling, oriented so the microphone has the best line-of-sight to the protected glass.
- Reinstall the batteries if previously removed.
- Close and secure the detector front cover.

7. Testing the Detector

The detector should be tested at least once each year. To test the detector, use the FlexGuard FG-701 Glassbreak Simulator. Other simulators will not give accurate indication of range.

8. LED Indicators

The LED indicator is equipped with two LEDs: a green Event LED and a red Alarm LED. When the LEDs are enabled during testing, they light in a variety of patterns to convey the detector’s operational status.

9. Cover Screw

The front cover can be secured after installation. To do so, remove the cover breakout flash (illustration on next page) and secure the front cover with a 6 mm (¼ in.), 2.9 mm (4#) screw (supplied).

10. Maintaining Proper Operation

To maintain the 5853 Glassbreak Detector in proper working order, please observe the following:

11. Protected Glass Types Chart

% Minimum for all types is 28mm (1 1/8 in) thick, glass must be framed in the wall or mounted in a barrier at least 30mm (12 in) wide. Protected only if both plates in the unit are broken

- Coated glass with security films up to 0.35mm (14 mils) thick (including films for color protection) may be used with the FlexGuard 5853. See the "SENSITIVITY APPROX.

12. Specifications

- Power: Two 3 V Batteries (included), Replacable only if AED225 or AED226. All other brands mentioned are trademarks of Honeywell International Inc. - All other brands mentioned are trademarks of their respective owners. Specifications subject to change without prior notice.

P/N 5-051-735-0 Rev G