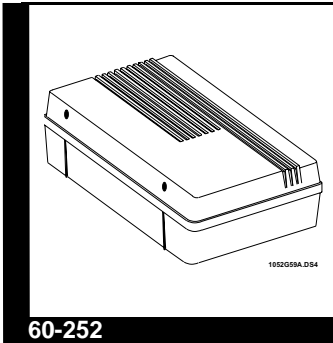


# Hardwire Interior Speaker and Piezo

Document Number: 46-324 Rev. B  
August 1996



60-252

## INSTALLATION INSTRUCTIONS

### Product Summary

The Hardwire Interior Speaker and Piezo produces low-volume status sounds and high-volume siren sounds with voice alarm messages.

Install these sirens in areas where the user can always hear what is happening on the premises. The unit includes an 8-ohm, 15- to 20-watt speaker and a single piezo and broadcasts voice messages, siren sounds, and status beeps.

Each unit draws a maximum 75 mA of current and can deliver an 80dB siren level in high-level alarm.

### Installation Guidelines

- v The Hardwire Interior Speaker and Piezo can be mounted anywhere indoors. Locate this device in interior areas where the system status and siren sounds need to be heard.
- v A maximum of two speakers (per panel) is allowed. Wire multiple speakers in series and piezos in parallel.
- v Use 4-conductor, 22-gauge stranded wire.

### Tools Needed

- v Phillips screwdriver
- v Screws and anchors (included)
- v Drill

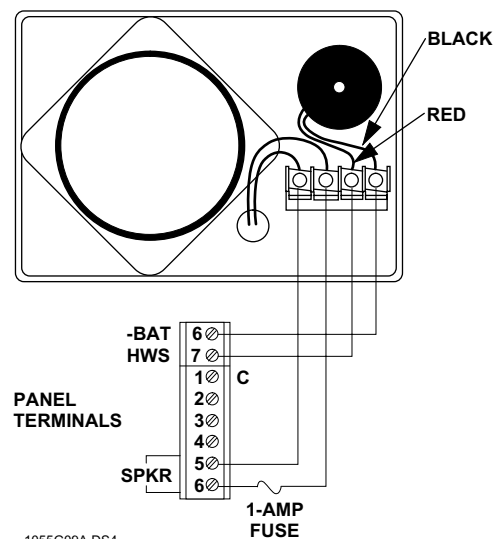
## Installation

1. Turn off the panel power switch.
2. Run a 22 gauge or greater, 4-conductor stranded wire cable from the panel to the speaker location.
3. Remove the speaker's front cover by removing the two bottom screws.
4. Remove the four screws that secure the speaker/piezo assembly and pull the assembly off the base.
5. Feed the cable through the circular cut-out in the back of the base.
6. Mount the base to the wall with the appropriate anchors and screws.
7. Attach the speaker/piezo assembly to the base.

## CareTaker Wiring

1. Connect the wires from the speaker to the two left screws and the wires from the single piezo to the two right screws.
2. Make wiring connections between one speaker and piezo and the panel as shown in Figure 1.

**Note:** Be sure to install the 1-amp fuse in the circuit as shown in Figure 1. This helps protect the panel's speaker output from short circuits that may cause damage to the panel's circuit board.



**Figure 1.** Wiring One Speaker and Piezo to the CareTaker

If two speakers and piezos are installed, make wiring connections to the panel as shown in Figure 2.

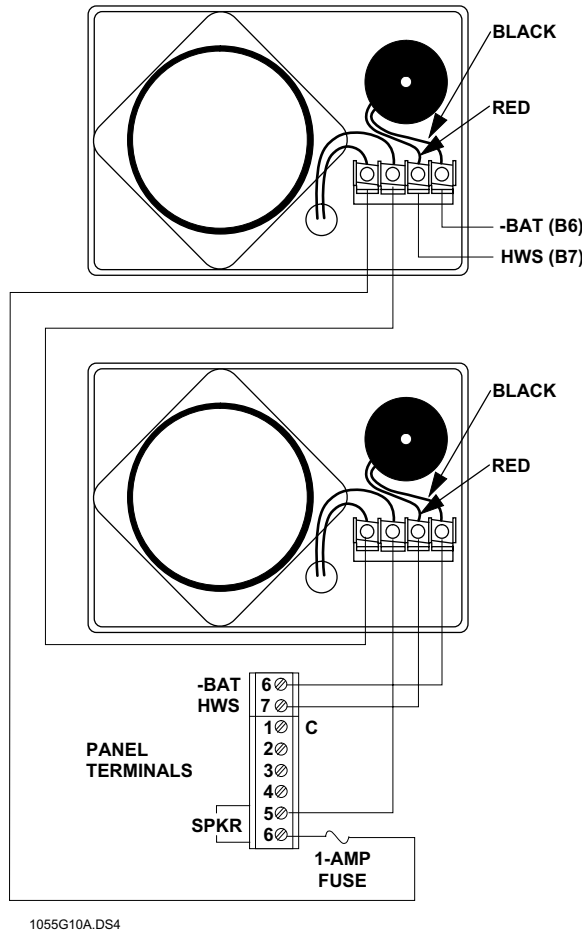


Figure 2. Wiring Two Speakers and Piezos to the CareTaker

## CareTaker Plus Wiring

1. Connect the wires from the speaker to the two left screws and the wires from the single piezo to the two right screws.
2. Make wiring connections between one speaker and piezo and the panel as shown in Figure 1.

**Note:** Speakers connected to the Feature Expansion Module produce only fire and intrusion alarm sounds.

To get voice status messages and auxiliary alarm sounds from speakers, connect speakers to panel terminals 11 (GND) and 16 (VOICE).

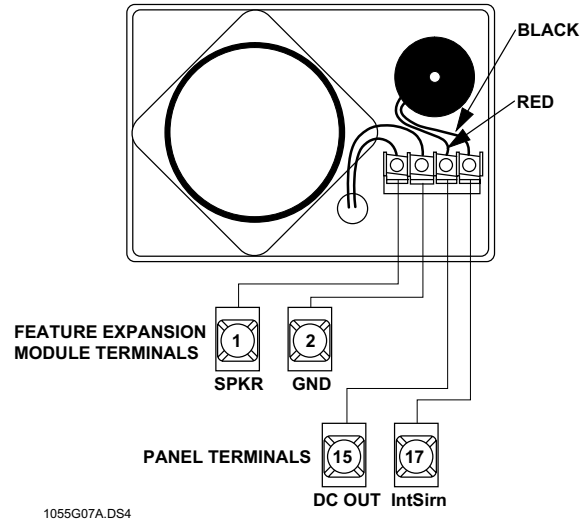


Figure 3. Wiring One Speaker and Piezo to the CareTaker Plus

If two speakers and piezos are installed, make wiring connections to the panel as shown in Figure 4.

**Note:** Speakers must be wired in series as shown, when connecting two speakers.

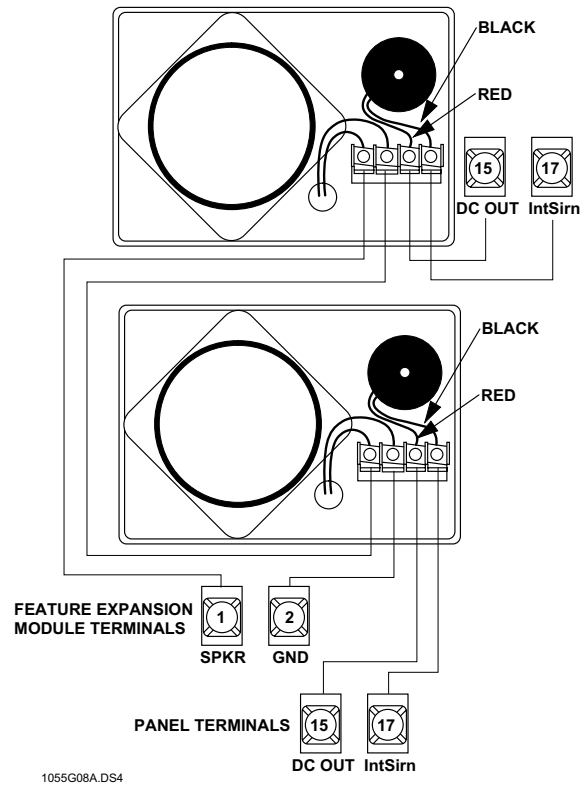
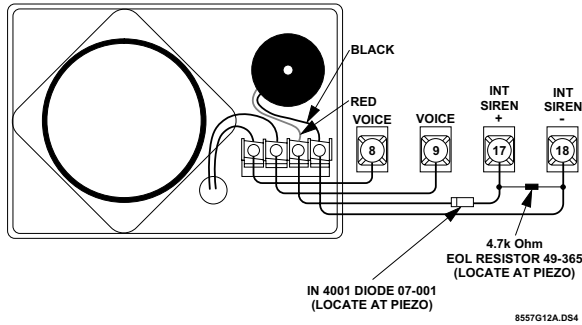


Figure 4. Wiring Two Speakers and Piezos to the CareTaker Plus

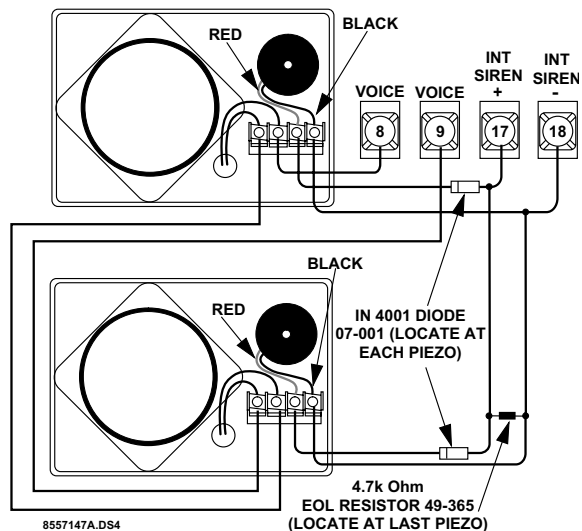
## UltraGard Wiring

1. Connect the wires from the speaker to the two left screws and the wires from the single piezo to the two right screws.
2. Make wiring connections between one speaker and piezo and the panel as shown in Figure 5.



**Figure 5.** Wiring One Speaker and Piezo to UltraGard

If two speakers and piezos are installed, make wiring connections to the panel as shown in Figure 6.



**Figure 6.** Wiring Two Speakers and Piezos to UltraGard

**WARNING:** A maximum of two speakers is allowed. Wire multiple speakers in series only, as shown. Wiring more than two speakers or multiple speakers in parallel can result in permanent damage to the panel.

## Testing

This section describes the basic steps for testing siren operation. For complete testing information, refer to the specific panel's *installation instructions*.

### To test siren operation:

1. Contact the central monitoring station and inform them that you will be testing the system and they are not to dispatch any authorities.
2. Arm the system and listen for status beeps and voice status message, indicating successful arming.
3. Trip an instant perimeter sensor. You should hear a loud, slow on-off-on-off sound and a voice message such as "Intrusion! Intrusion! Sensor NN."
4. Disarm the system.
5. Activate a fire alarm by pressing and holding the test button on a smoke sensor, or press and hold the fire panic button on the panel or touchpad. You should hear a loud, steady sound and a voice message such as "Fire! Fire! Sensor NN."
6. Disarm the system.
7. Activate an auxiliary alarm by pressing and holding the auxiliary panic button on the panel or touchpad. You should hear a fast on-off-on-off sound and the voice message "Help! Help! Sensor eight two."
8. Disarm the system.
9. Contact the central monitoring station and inform them that you are done testing the system.

## Specifications

Compatibility: CareTaker, CareTaker *Plus* and Custom Versions, UltraGard and Custom Versions

Power Requirements: 6- to 14-VDC; 75 mA maximum

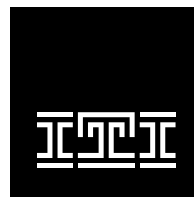
Dimensions: 6.780" x 4.780" x 2.40" (L x W x D)

## Notices

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.
- 2) This device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by Interactive Technologies, Inc. can void the users' authority to operate the equipment.



**INTERACTIVE TECHNOLOGIES, INC.**

**2266 SECOND STREET NORTH  
NORTH SAINT PAUL, MN 55109**

**T: 612/777-2690**

**F: 612/779-4890**

**WIRELESS**

**Security**

**Automation**

**Access Control**

ITI and CareTaker are registered trademarks of Interactive Technologies, Inc. UltraGard is a trademark of Interactive Technologies, Inc.