

**INSTALLATION
AND
OPERATING
INSTRUCTIONS
FOR THE
BGE-5742 WIRELESS
AUDIO SWITCH™
GLASS BREAK DETECTOR**



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I. INTRODUCTION

The BGE-5742 Wireless Audio Switch™ is designed to detect intrusions initiated by the breaking of glass barriers such as windows and commercial doors. The Audio Switch is designed around a state-of-the-art microprocessor which provides accurate digital analysis of the glass break sounds. The BGE-5742 also incorporates the Ademco 5716 Alert III transmitter to form a completely wireless glass break unit.

The BGE-5742 Wireless Audio Switch™ has a red indicator to indicate an alarm condition. The unit's audio sensitivity can be set to HI or LOW via the shunt jumper located on the back of the unit. Refer to illustration A.

The BGE-5742 incorporates the Ademco 5716 Alert III Universal Transmitter for wireless communication to the Ademco 5700 or 4280 based wireless alarm systems. This transmitter is built into the BGE-5742 and is powered from the same 9 volt battery used by the BGE-5742. There are two 6 position dip switches used to set the unit's "House ID" and "Transmitter ID". Refer to the installation instructions for proper ID setting.

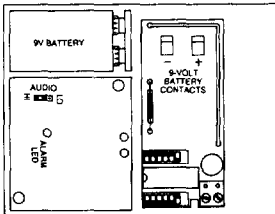


ILLUSTRATION "A"

II. INSTALLATION

1. **LOCATION:** The BGE-5742 may be located on the ceiling just above the glass barrier to be protected, on the same wall, on an opposite wall, or an adjacent wall. The Wireless Audio Switch™ should be located with an open field between the unit and points of entry; no partitions, walls, furniture, etc. should be between the unit and the glass to be protected. The unit must be located within a 15 foot radius of the glass being protected. Refer to illustration B. If the BGE-5742 is mounted within 7 feet of the glass to be protected, the sensitivity should be set to "LOW". When the BGE-5742 is mounted on the same wall, all sensitivity distances should be reduced by 50%.

In choosing a location, it is important to keep in mind the transmission path of the 5716 wireless transmitter. A good transmission path should be established before permanently installing the BGE-5742.

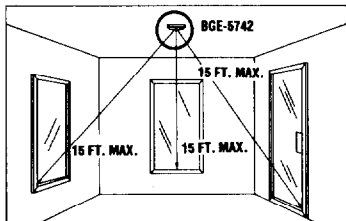


ILLUSTRATION "B"

2. TESTING: The installer should always ensure proper operation of the BGE-5742 after locating the unit. Testing of the unit should be done to ensure good audio reception at the desired mounting location. The BGS-III Simulator, shown in illustration C, should be used to test the BGE-5742. To test the BGE-5742, aim the simulator at the glass break detector while holding it near the furthest glass to be protected. Activate the simulator by pressing the button on the top of the simulator. The BGE-5742 should go into alarm if the glass is within its protection range. The BGS-III is very directional and must be aimed directly at the BGE-5742.

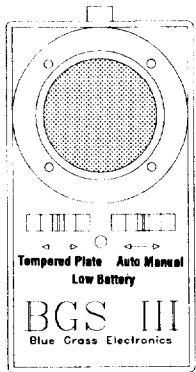


ILLUSTRATION "C"

When installation and testing procedures are completed, activate any devices such as; air compressors, large fans, blowers, etc. that may generate background noise while the system is armed. For proper operation, devices that generate background noise should not cause the unit to go into alarm. If this condition results, relocate the unit to a new position where the noise from these sources are minimized.

If the unit has been moved it must be retested with the BGS-III Simulator and again checked for troublesome background noise. If a position cannot be found to satisfy these conditions, and the sources of troublesome noise cannot be minimized or eliminated, then the BGE-5742 is not suited for that application.

3. SELECTING THE ID NUMBERS: The "House ID" and "Transmitter ID" are set via the two dip switches, #3 & #4. The "House ID" is determined by dip switch #3, positions (1-5). The "Transmitter ID" is determined by switch positions (1-6) on switch #4. Illustration D shows a "House ID" of 31 and a "Transmitter ID" of 1. Refer to the "House ID" and "Transmitter ID" tables to the right for proper settings. Position six (6) of dip switch #3 should always be set to "UP", as shown in Illustration D. Not shown are transmitter ID's 32-47 which should not be used for glass break detectors due to a 3 minute transmit delay restriction.

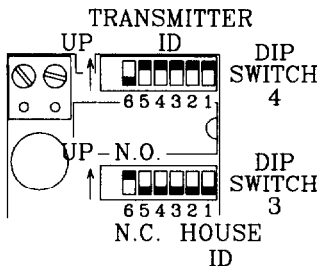


ILLUSTRATION "D"

HOUSE ID (SW3)

SWITCH TOWARD ARROWHEAD IS "UP"

TRANSMITTER ID (SW4)

SWITCH IS TOWARD ARROWHEAD IS "UP"

HOUSE ID	DIP SWITCH SETTINGS				
	5	4	3	2	1
1	dn	UP	UP	UP	UP
2	UP	dn	UP	UP	UP
3	dn	dn	UP	UP	UP
4	UP	UP	dn	UP	UP
5	dn	UP	dn	UP	UP
6	UP	dn	dn	UP	UP
7	dn	dn	dn	UP	UP
8	UP	UP	UP	dn	UP
9	dn	UP	UP	dn	UP
10	UP	dn	UP	dn	UP
11	dn	dn	UP	dn	UP
12	UP	UP	dn	dn	UP
13	dn	UP	dn	dn	UP
14	UP	dn	dn	dn	UP
15	dn	dn	dn	dn	UP
16	UP	UP	UP	UP	dn
17	dn	UP	UP	UP	dn
18	UP	dn	UP	UP	dn
19	dn	dn	UP	UP	dn
20	UP	UP	dn	UP	dn
21	dn	UP	dn	UP	dn
22	UP	dn	dn	UP	dn
23	dn	dn	dn	UP	dn
24	UP	UP	UP	dn	dn
25	dn	UP	UP	dn	dn
26	UP	dn	UP	dn	dn
27	dn	dn	UP	dn	dn
28	UP	UP	dn	dn	dn
29	dn	UP	dn	dn	dn
30	UP	dn	dn	dn	dn
31	dn	dn	dn	dn	dn

TRANSMITTER ID	DIP SWITCH SETTINGS					
	6	5	4	3	2	1
1	dn	UP	UP	UP	UP	UP
2	UP	dn	UP	UP	UP	UP
3	dn	dn	UP	UP	UP	UP
4	UP	UP	dn	UP	UP	UP
5	dn	UP	dn	UP	UP	UP
6	UP	dn	dn	UP	UP	UP
7	dn	dn	dn	UP	UP	UP
8	UP	UP	UP	dn	UP	UP
9	dn	UP	UP	dn	UP	UP
10	UP	dn	UP	dn	UP	UP
11	dn	dn	UP	dn	UP	UP
12	UP	UP	dn	dn	UP	UP
13	dn	UP	dn	dn	UP	UP
14	UP	dn	dn	dn	UP	UP
15	dn	dn	dn	dn	UP	UP
16	UP	UP	UP	UP	dn	UP
17	dn	UP	UP	UP	dn	UP
18	UP	dn	UP	UP	dn	UP
19	dn	dn	UP	UP	dn	UP
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22	UP	dn	dn	UP	dn	UP
23	dn	dn	dn	UP	dn	UP
24	UP	UP	UP	dn	dn	UP
25	dn	UP	UP	dn	dn	UP
26	UP	dn	UP	dn	dn	UP
27	dn	dn	UP	dn	dn	UP
28	UP	UP	dn	dn	dn	UP
29	dn	UP	dn	dn	dn	UP
30	UP	dn	dn	dn	dn	UP
31	dn	dn	dn	dn	dn	UP

III. OPERATION

1. INDICATORS: RED-(ALARM) This LED indicates that a valid alarm condition has been detected.

IV. SPECIFICATIONS

1. ALARM DURATION: 2 seconds
2. ALARM OUTPUT: Optically Isolated Solid State Output
3. CIRCUIT PROTECTION: Built in Electronics
4. CASE DIMENSIONS: 3.6" x 4.7" x 1.2"
5. MAXIMUM STAND BY CURRENT: 25 μ A
6. MAXIMUM ALARM CURRENT: 10 mA
7. OPERATING TEMPERATURE: 0°C (32°F) TO 55°C (130°F)
8. POWER REQUIREMENTS: 9 Volt Lithium Battery *See Note
9. MAXIMUM RANGE: 15 foot radius
10. SUPERVISED SYSTEM: Low Battery Supervision via the 5716 transmitter
11. USER OPTIONS: Audio Hi/Low, and Transmitter ID Switches

Note: The BGE-5742 can accept two 9 Volt batteries, one located in the case and one in the transmitter. This will put the two 9 volt cells in parallel and will increase the overall battery life. See illustration A for proper polarity on the transmitter battery connection.

V. APPLICATION AND MOUNTING TABLES

TYPE OF GLASS PROTECTED

1/8" and 1/4" Plate Glass

1/4" Tempered Glass

1/4" Laminated Glass

1/4" Wired Glass

SENSOR LOCATIONS

Location	Recommended
Same wall as glass	Yes
Adjoining wall	Yes
Opposite wall	Yes
Ceilings-Structural (Fixed)	Yes
Acoustical	Yes
Drop Tile	Yes
Maximum Range	15'

MOUNTING SURFACE

Surface	Recommended
Drywall/sheetrock	Yes
Metal	Yes
Brick	Yes
Concrete block	Yes
Poured concrete	Yes
Wood	Yes

TO THE INSTALLER

Regular maintenance by the installer and frequent testing by the user are vital to maintain proper operation of any alarm system.

NOTE: The BGE-5742 should be tested at least once a year by the installer.

The installer should assume the responsibility of developing and offering a regular maintenance program to the user as well as acquainting the user with the proper operation and limitations of the alarm system and its component parts. Recommendations must be included for a specific program of frequent testing to insure the system's proper operation at all times.

WARRANTY

Your BGE-5742 Wireless Audio Switch™ is warranted for a period of 24 months from the date of purchase against defective materials and workmanship. The manufacturer agrees to replace defective materials and repair defective workmanship which is discovered during the aforesaid 24 month period, and this remedy is exclusive of all others including incidental or consequential damages. This warranty is in lieu of all others including specifically the warranties of marketability and fitness for a particular purpose.

"FEDERAL COMMUNICATIONS COMMISSION (FCC) STATEMENT"

The user shall not make any changes or modifications to the equipment unless authorized by the Installation Instructions or User's Manual. Unauthorized changes or modifications could void the user's authority to operate the equipment.

