

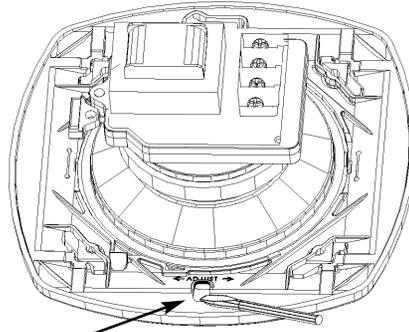
## VII. ELECTRICAL SPECIFICATIONS:

| MODEL NUMBERS | SPEAKERS dBA @ 10 FEET<br>PER UL 1480 |     |     |    |    |    |
|---------------|---------------------------------------|-----|-----|----|----|----|
| RATED WATTS   | 1/8                                   | 1/4 | 1/2 | 1  | 2  | 4  |
| SSPK SERIES   | 75                                    | 78  | 81  | 84 | 87 | 89 |

### SSPKC FIELD SELECTABLE CANDELA SELECTOR

| WALL STROBE CURRENT RATINGS* |                            |                            |
|------------------------------|----------------------------|----------------------------|
| Candela                      | Regulated 24VDC            | Regulated 24VFWR           |
|                              | Max. Operating Current(mA) | Max. Operating Current(mA) |
| 15                           | 78                         | 113                        |
| 30                           | 96                         | 135                        |
| 60                           | 137                        | 186                        |
| 75 & 15/75                   | 180                        | 245                        |
| 110                          | 224                        | 313                        |

| CEILING STROBE CURRENT RATINGS* |                            |                            |
|---------------------------------|----------------------------|----------------------------|
| Candela                         | Regulated 24VDC            | Regulated 24VFWR           |
|                                 | Max. Operating Current(mA) | Max. Operating Current(mA) |
| 15                              | 120                        | 183                        |
| 30                              | 130                        | 190                        |
| 75                              | 272                        | 374                        |
| 95                              | 318                        | 439                        |
| 115                             | 360                        | 494                        |



Adjust brightness by using small flatblade screwdriver to turn dial. Displayed number will be candela selected.

**Note:** - DC Voltage Range Limits: 16-33v. FWR Voltage Range Limits: 16-33v. This product was only tested to the stated voltage range(s); do not apply 80% and 110% of this range for system operation.

\* Wall and Ceiling Mount Speaker Strobes are synchable using the Gentex AVSM Synchronization Module.

### LIMITED WARRANTY

For a period of 36 months from the date of purchase, or a maximum of 42 months from the date of manufacture, Gentex warrants to you, the original purchaser, that your appliance will be free from defects in workmanship, materials, and construction under normal use and service. If a defect in workmanship, materials, or construction should cause your appliance to become inoperable within the warranty period, Gentex will repair your appliance or furnish you with a new or rebuilt replacement appliance without charge to you except for postage required to return the appliance to us. Gentex will not reimburse you for repairs or replacement parts provided by other parties. Your repaired or replacement appliance will be returned to you free of charge and it will be covered under this warranty for the balance of the warranty period.

This warranty is void if our inspection of your appliance shows that the damage or failure was caused by abuse, misuse, abnormal usage, faulty installation, improper maintenance, or repairs other than those performed by us.

ANY WARRANTIES IMPLIED UNDER ANY STATE LAW, INCLUDING IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, APPLY ONLY FOR THE WARRANTY PERIOD SPECIFIED ABOVE. PLEASE NOTE THAT SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE EXCLUSION MAY NOT APPLY TO YOU.

GENTEX WILL NOT BE LIABLE FOR ANY LOSS, DAMAGE, INCIDENTAL OR CONSEQUENTIAL DAMAGES OF ANY KIND ARISING IN CONNECTION WITH THE SALE, USE OR REPAIR OF THIS APPLIANCE. THE MAXIMUM LIABILITY OF GENTEX SHALL NOT IN ANY CASE EXCEED THE PURCHASE PRICE PAID BY YOU FOR THE APPLIANCE. PLEASE NOTE THAT SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE EXCLUSION MAY NOT APPLY TO YOU.

If a defect in workmanship, materials, or construction should cause your appliance to become inoperable within the warranty period, you must return the appliance to Gentex postage prepaid. You must also prove to the satisfaction of Gentex the date of purchase of your appliance. Warranty service may only be performed by Gentex personnel at Gentex's facilities in Zeeland, Michigan. You must also pack the appliance to minimize the risk of it being damaged in transit. You must also enclose a return address. Appliances returned for warranty service should be sent to: Gentex Corporation, 10985 Chicago Drive, Zeeland, MI 49464. If we receive an appliance in a damaged condition as the result of shipping, we will notify you and you must file a claim with the shipper.

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.

GENTEX CORPORATION

10985 CHICAGO DRIVE, ZEELAND, MI 49464

PHONE: 800-436-8391

10-1-01

550-244-6

# GENTEX CORPORATION

SSPK SERIES  
UL 1971 COMPLIANT

## SPEAKER AND SPEAKER/STROBE

## Installation Instructions- Owner's Information

### MODELS

SSPK\*.....WALL MOUNT SPEAKER WITHOUT STROBE  
 SSPK24-15\*.....WALL MOUNT SPEAKER WITH 15Cd STROBE  
 SSPK24-15/75\*.....WALL MOUNT SPEAKER WITH 15/75 Cd STROBE  
 SSPK24-30\*.....WALL MOUNT SPEAKER WITH 30Cd STROBE  
 SSPK24-60\*.....WALL MOUNT SPEAKER WITH 60Cd STROBE  
 SSPK24-75\*.....WALL MOUNT SPEAKER WITH 75Cd STROBE  
 SSPK24-110\*.....WALL MOUNT SPEAKER WITH 110Cd STROBE  
 SSPKC\*.....CEILING MOUNT SPEAKER WITHOUT STROBE  
 SSPK24C\*.....CEILING MOUNT SPEAKER WITH SELECTABLE STROBE

\* Includes one or more of the following suffixes, P (plain), W (wall) or C (ceiling), R (red) or W (white).

### I. INTRODUCTION

The Gentex SSPK Series is a high quality speaker and speaker/visual signal appliance. The SSPK Series is UL Listed for fire protective service. The high intensity strobe utilizes a Xenon flash tube which generates a high-intensity light visible from all sides. The strobe is UL Listed in compliance with UL 1971, Signaling Appliances for the Hearing Impaired.

### II. PRODUCT INFORMATION

The SSPK Series speaker and speaker/strobe offer a choice of field selectable power taps, 1/8, 1/4, 1/2, 1, 2 and 4 Watts for either 25v or 70.7v audio amplifiers. The speaker/strobe offers the option of a high intensity strobe which complies with UL 1971. The frequency range of the speakers is 400-4000Hz. All devices are suitable for line supervision. Speaker includes DC blocking capacitor which allows for supervision voltage of either polarity.

### III. LOCATION

This appliance is intended for use in Fire Alarm Systems and is to be installed in accordance with this installation manual, the recommendation of the local authorities having jurisdiction, and other NFPA Standards that provide standards on notification appliances for protective signaling systems.

The Gentex "SSPK" is intended for indoor installation only. This appliance is not weatherproofed for outdoor or drip proof applications.

Wall-mounted speaker/strobe appliances shall have their entire lens at heights above the finished floor of not less than 80 in. (2m) and no greater than 96 in. (2.4m)\*\*. Spacing shall be in accordance with Table A. If a room configuration is not square, the room size that will entirely encompass the room or subdivide the room into multiple squares shall be used.

Wall mounted speaker only appliances shall have their tops above the finished floors at heights of not less than 90 in. (2.3m) and below the finished ceilings at heights of not less than 6 in.

Different mounting heights shall be permitted by the AHJ provided the sound pressure level requirements of NFPA72 are met.

Table A

Use for wall mount appliances

| Maximum Room Size |           | Minimum Required Light Output (Effective Intensity, Cd) |   |   |
|-------------------|-----------|---|---|---|
| Meters            | Feet      | One Light per Room                                      | Two Lights per Room (Located on Opposite Walls) | Four Lights per Room (One Light per Wall) |
| 6.10 x 6.10       | 20 x 20   | 15  | NA  | NA  |
| 6.53 x 6.53       | 28 x 28   | 30  | Unknown   | Unknown                                   |
| 9.14 x 9.14       | 30 x 30   | 34  | 15  | NA  |
| 12.2 x 12.2       | 40 x 40   | 60  | 30  | 15  |
| 13.7 x 13.7       | 45 x 45   | 75  | Unknown   | Unknown                                   |
| 15.2 x 15.2       | 50 x 50   | 94  | 6   | 30  |
| 16.5 x 16.5       | 54 x 54   | 110   | Unknown   | Unknown                                   |
| 18.3 x 18.3       | 60 x 60   | 135   | 95  | 30  |
| 21.3 x 21.3       | 70 x 70   | 184   | 95  | 60  |
| 24.4 x 24.4       | 80 x 80   | 240   | 135   | 60  |
| 27.4 x 27.4       | 90 x 90   | 304   | 185   | 95  |
| 30.5 x 30.5       | 100 x 100 | 375   | 240   | 95  |
| 33.5 x 33.5       | 110 x 110 | 455   | 240   | 135                                       |
| 36.6 x 36.6       | 120 x 120 | 540   | 305   | 135                                       |
| 39.6 x 39.6       | 130 x 130 | 635   | 375   | 185                                       |

Use for ceiling mount appliances

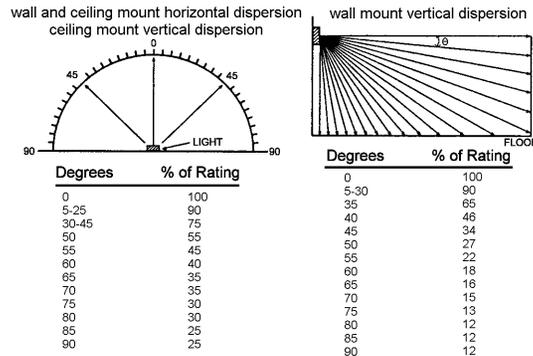
| Maximum Room Size |         | Minimum Required Light Output (Effective Intensity, Cd, One Light) |                 |                 |
|-------------------|---------|--|-----------------|-----------------|
| Meters            | Feet    | 10 Foot Ceiling  | 20 Foot Ceiling | 30 Foot Ceiling |
| 6.10 x 6.10       | 20 x 20 | 15   | 30              | 55              |
| 9.14 x 9.14       | 30 x 30 | 30   | 45              | 75              |
| 12.2 x 12.2       | 40 x 40 | 60   | 90              | 115             |
| 15.2 x 15.2       | 50 x 50 | 95   | 115             | 150             |

NA = Not allowable.

**\*\*Effective Intensity Requirements for Sleeping Area**

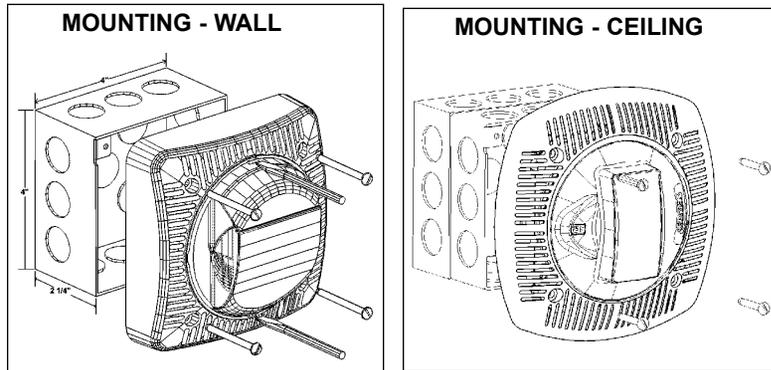
| Visible Notification Appliance   |                     |
|--|---------------------|
| Distance from Ceiling to Top of Lens<br>greater than or equal to 24" (610mm) | Intensity<br>110 Cd |
| less than 24" (610mm)  | 177 Cd              |

**LIGHT OUTPUT IN PERCENTAGE WHEN MEASURED FROM THE FOLLOWING DIRECTIONS**



**IV. MOUNTING ROUGH-IN BOX AND RUN WIRING**

**MOUNTING AND POWER TAP SELECTION  
Shown with optional strobe.**

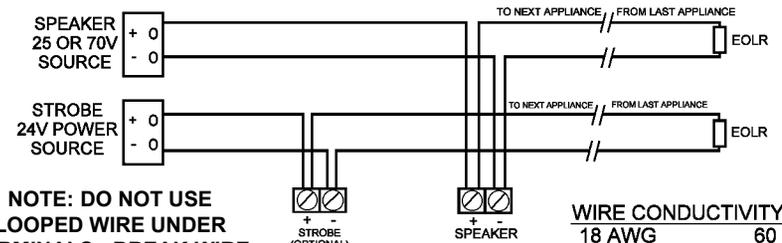


**SYSTEM CONSIDERATIONS**

- To select the proper wattage input for the speaker, move the jumper to the appropriate pin.
- Always maintain electrical isolation between speaker and strobe wiring on combination units.
- Do not exceed 130% of rated speaker voltage. If excessive distortion is heard, check amplifier for signal clipping. If clipping exists, reduce either amplifier input or gain.
- Four screws are provided, two for securing speaker to the backbox and two for aesthetics. The two non-functional screws will be held in place by the pressure fit of the faceplate.
- FOR THE WALL MOUNT SPEAKER/STROBE ONLY: the strobe may be rotated on the face of the speaker so the portion of the speaker in back box may be relocated to accommodate conduit and incoming wire. Insert two flat blade screwdrivers as shown above to squeeze lens slight inward, rotate strobe counter-clockwise up to 270° of rotation.**

**CAUTION**  
WHEN INSTALLING, ROUTE FIELD WIRING AWAY FROM SHARP PROJECTIONS, CORNERS AND INTERNAL COMPONENTS.

NOTE: Strobes are not recommended for use on coded or pulsing signaling circuits.



**NOTE: DO NOT USE LOOPED WIRE UNDER TERMINALS. BREAK WIRE RUN TO PROVIDE SUPERVISION OF CONNECTION.**

| WIRE CONDUCTIVITY |     |
|-------------------|-----|
| 18 AWG            | 60  |
| 16AWG             | 95  |
| 14AWG             | 153 |
| 12AWG             | 244 |

\*MAX. WIRE DISTANCE (IN FEET) =  $\frac{\text{PANEL VOLTAGE} - \text{DEVICE MINIMUM VOLTAGE}}{\text{TOTAL CURRENT DRAW}} \times \text{WIRE CONDUCTIVITY (STROBE ONLY)}$

\* INCLUDES WIRE TO AND FROM APPLIANCE.

ASSUMES ALL APPLIANCES ARE AT THE END OF WIRE RUN (WORST CASE).

CAUTION: APPLIES ONLY TO REGULATED SUPPLIES.

**V. CHECKOUT AND TROUBLESHOOTING**

- Supply power to the system control panel. The auxiliary signaling device should not be activated.
- If the signal is activated:
  - Check all smoke and fire detectors in the system to make sure they have not been activated.
  - Check all wiring connections to make sure the signal detection circuits are not reversed or shorted together. Check wire color codes and traces.
- To test the "SSPK" series and other signaling appliances, trip the auxiliary panel, activate alarm circuit at the main control panel or activate one of the fire detection units in the system. All auxiliary signals should be activated.
- An operational test on this product should be conducted in accordance with National Standards or at a minimum annually and more often if dictated by local and state codes or authorities having jurisdiction.

**SIGNALING APPLIANCE LIMITATIONS:**

Your speaker meets or exceeds current audibility requirements of Underwriters Laboratories. However, if the appliance is located outside a bedroom it may not wake up a sound sleeper, especially if the room door is closed or only partially open.

**WARNING**  
THIS APPLIANCE WILL NOT OPERATE WITHOUT ELECTRICAL POWER. AS FIRES FREQUENTLY CAUSE POWER INTERRUPTIONS, GENTEX SUGGESTS YOU DISCUSS FURTHER SAFEGUARDS WITH YOUR LOCAL FIRE PROTECTION SPECIALIST.

**VI. TO RETURN A UNIT**

Should you experience problems with your "SSPK" unit, proceed as follows:

- Turn off electrical power to the auxiliary alarm circuit.
- Unscrew the unit from the mounting box.
- Disconnect the unit from the field wiring. Reconnect the two positive supply voltage circuits (red wires) and the two negative supply voltage circuits (black wires) of the auxiliary alarm circuit to maintain power to the other auxiliary alarm appliances in the system.
- Carefully pack the defective unit (the manufacturer cannot be responsible for consequential damage due to shipping or mishandling). Include your return address and complete details as to the nature of the difficulties being experienced and date of installation.
- Return to: Gentex Corporation, 10985 Chicago Drive, Zeeland, MI 49464. Prior to returning, call Gentex @ 1-800-436-8391 to obtain an RMA number from our return department.