

Gentex GEC3-24WR

Gentex GEC3-24WR Evacuation Horn & Strobe Instruction Manual

Model: GEC3-24WR | Brand: Gentex

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of the Gentex GEC3-24WR, a red, wall-mount selectable-candela 24VDC horn/strobe. This device is designed for use in fire alarm systems to provide both audible and visual evacuation signals.

2. SAFETY INFORMATION

Always adhere to local and national electrical codes and regulations during installation and maintenance. Disconnect power before servicing the device. Only qualified personnel should perform installation and maintenance procedures. Failure to follow these instructions may result in property damage, serious injury, or death.

3. PRODUCT OVERVIEW

The Gentex GEC3-24WR is a low-profile evacuation horn and strobe combination unit. Key features include:

- Pre-wire entire system, then install signals.
- Ease of Supervision Testing (Super-Slide).
- Checkmate Feature: Instant Voltage Verification.
- Lower installation and operating costs.
- Input Terminals: 12 to 18 AWG.
- Switch Selection for High or Low dBA.
- Switch Selection for High or Low Frequency (1500-3000Hz).
- Switch for Temporal 3, Chime, or Whoop Tones.
- Tamperproof Re-entrant Grill.
- Surface Mount with the GSB (Gentex Surface Mount Box).
- Synchronize Strobe and/or Horn by Using Gentex Synchronization Module.



Figure 1: Front view of the Gentex GEC3-24WR unit, showing the red faceplate, horn grille, and clear strobe lens. A small window on the left displays the candela setting.



Figure 2: Close-up of the Gentex GEC3-24WR, highlighting the selectable candela setting, currently set to 15.

4. SETUP AND INSTALLATION

4.1 Mounting

The GEC3-24WR is designed for wall mounting. Ensure the mounting surface is flat and secure. For surface mounting, use the optional Gentex Surface Mount Box (GSB).

4.2 Wiring

The device accepts 12 to 18 AWG input terminals. Follow the wiring diagram provided with the unit and adhere to all applicable electrical codes. The unit features a 'Super-Slide' for ease of supervision testing and a

'Checkmate' feature for instant voltage verification.

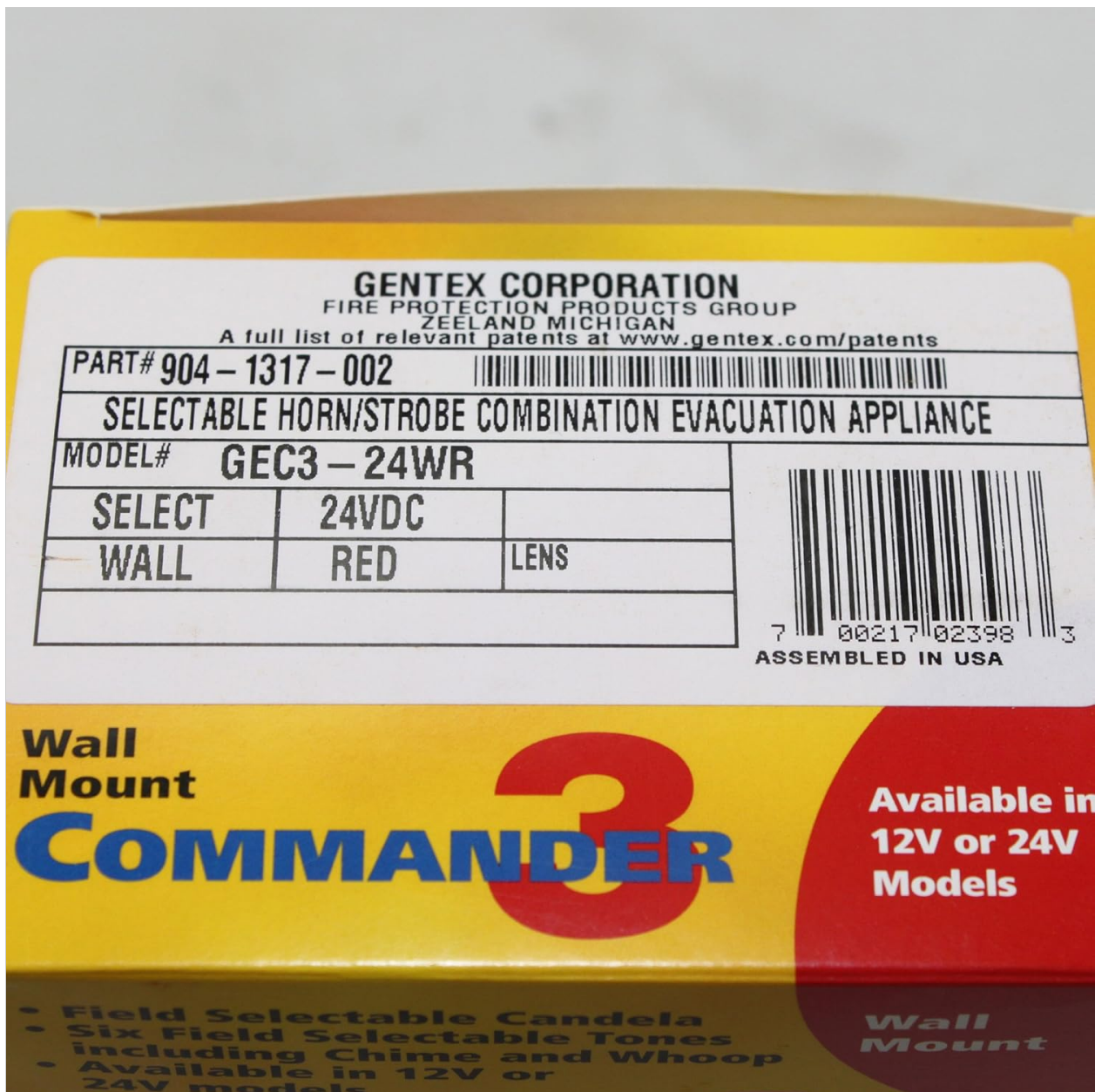


Figure 3: Product packaging, indicating model number 904-1317-002 and UPC 700217023983, essential for identification and compatibility.

5. OPERATING INSTRUCTIONS

The GEC3-24WR offers selectable settings for both its horn and strobe functions. These settings are typically configured during installation based on system requirements and local codes.

5.1 Candela Selection

The strobe candela can be selected from multiple options, including 15, 30, 60, 75, and 110. Use the selector switch located on the unit to set the desired candela output.

5.2 Horn Tone and dBA Selection

The horn offers various tone patterns and sound levels:

- **Tone Patterns:** Temporal 3, Chime, or Whoop.

- **Frequency:** High or Low (1500-3000Hz).
- **dBA Level:** High or Low.

Refer to the internal switches for adjusting these settings according to your fire alarm system's specifications.

5.3 Synchronization

For synchronized operation of multiple strobes and/or horns, a Gentex Synchronization Module is required. Consult the synchronization module's manual for proper integration.



Figure 4: Product packaging emphasizing the unit's field-selectable candela and six field-selectable tones, including Chime and Whoop.

6. MAINTENANCE

Regular maintenance ensures the reliable operation of your Gentex GEC3-24WR. Perform periodic supervision testing as recommended by local codes and the fire alarm system manufacturer. The unit features a tamperproof re-entrant grill, which should not be removed or altered.

7. TROUBLESHOOTING

If the device fails to operate as expected, first verify that power is supplied correctly and that all wiring connections are secure. Check the candela and tone settings to ensure they match the system requirements. If issues persist, consult a qualified fire alarm technician.

8. SPECIFICATIONS

Feature	Detail
Brand	Gentex
Model Number	GEC3-24WR (OEM Part Number: 904-1317-002)
Color	Red
Voltage	24 Volts DC
Wattage	24.00
Item Dimensions (L x W x H)	2.5 x 5 x 4.5 inches
Item Weight	1.05 pounds
Fit Type	Universal Fit
Style	Grill
UPC	700217023983

9. WARRANTY INFORMATION

For specific warranty details, please refer to the documentation included with your product or contact Gentex customer support. General warranty terms typically cover manufacturing defects for a specified period from the date of purchase.

10. SUPPORT

For technical assistance, troubleshooting, or further information regarding your Gentex GEC3-24WR, please visit the official Gentex website or contact their customer support department. Ensure you have your product model number (GEC3-24WR) and any relevant purchase information available when seeking support.

