

SIMPLEX 4903 9149

SIMPLEX 4903-9149 Speaker Strobe 110CD Instruction Manual

1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of the SIMPLEX 4903-9149 Speaker Strobe. This device is designed for fire alarm and emergency signaling applications, combining an audible speaker with a visible 110 candela strobe light. Please read this manual thoroughly before proceeding with installation or use to ensure safety and optimal performance.

2. IMPORTANT SAFETY INFORMATION

Adherence to the following safety guidelines is crucial for preventing injury, property damage, and ensuring the correct function of the device. Installation and servicing must be performed by qualified personnel only.

- **Professional Installation Required:** This device must be installed by a certified fire alarm technician in accordance with all local and national electrical and fire codes.
- **Power Source:** Ensure the power source is disconnected before installation or maintenance to prevent electrical shock. The device operates on 24 Volts DC.
- **Wiring:** All wiring must comply with NFPA 70 (National Electrical Code) and NFPA 72 (National Fire Alarm and Signaling Code).
- **Mounting:** Securely mount the device to a stable surface as specified in the installation instructions.
- **Testing:** After installation, thoroughly test the device and the entire fire alarm system to confirm proper operation.

3. PRODUCT OVERVIEW

The SIMPLEX 4903-9149 is a red, horizontal mount speaker strobe unit designed for clear audible and visible notification during emergency events. It features a speaker for voice messages or alarm tones and a high-intensity 110 candela strobe light for visual alerts.



Figure 1: SIMPLEX 4903-9149 Speaker Strobe unit.

Key Features:

- Integrated speaker and 110 candela strobe.
- Horizontal mounting orientation.
- Red finish for clear identification as a fire safety device.
- Designed for 24VDC operation.

4. INSTALLATION AND SETUP

This section outlines the general steps for installing the SIMPLEX 4903-9149 Speaker Strobe. Refer to the detailed installation sheets provided with the product for specific wiring diagrams and mounting templates.

4.1 Mounting

1. **Select Location:** Choose a suitable wall-mount location that meets local code requirements for visibility and audibility.
2. **Prepare Mounting Surface:** Ensure the mounting surface is clean, flat, and structurally sound to support the device.
3. **Install Back Box:** Install the appropriate electrical back box (not included) according to manufacturer instructions and local codes.
4. **Mount Device:** Secure the speaker strobe unit to the back box using the provided hardware, ensuring a snug and stable fit. The device is designed for horizontal mounting.

4.2 Wiring

1. **Disconnect Power:** Before making any electrical connections, ensure that all power to the fire alarm control panel and associated circuits is disconnected.
2. **Route Wiring:** Route the necessary 24VDC power and audio signal wiring to the back box.
3. **Connect Wires:** Connect the field wiring to the terminal block on the speaker strobe unit according to the wiring diagram provided in the product's specific installation instructions. Pay close attention to polarity.
4. **Verify Connections:** Double-check all wiring connections for correctness and secure termination.
5. **Restore Power:** Once all connections are verified and the device is securely mounted, restore power to the system.

5. OPERATION

The SIMPLEX 4903-9149 Speaker Strobe operates in conjunction with a compatible fire alarm control panel (FACP). Upon receiving an alarm signal from the FACP, the device will activate its audible speaker and visible strobe light simultaneously.

- **Speaker Function:** The speaker will broadcast pre-recorded voice messages or alarm tones as programmed by the FACP.
- **Strobe Function:** The 110 candela strobe light will flash at a specified rate, providing a clear visual alert, especially important for individuals with hearing impairments or in noisy environments.

The device will continue to operate until the alarm condition is cleared and the FACP is reset.

6. MAINTENANCE

Regular maintenance ensures the continued reliability and performance of your SIMPLEX 4903-9149 Speaker Strobe. All maintenance should be performed by qualified personnel.

- **Visual Inspection:** Periodically inspect the device for any signs of physical damage, discoloration, or obstruction of the speaker grille or strobe lens.
- **Cleaning:** Gently clean the exterior of the device, especially the strobe lens, with a soft, damp cloth. Do not use abrasive cleaners or solvents. Ensure no moisture enters the device.
- **Functional Testing:** Conduct periodic functional tests as required by local codes and NFPA 72. This typically involves activating the fire alarm system to verify that the speaker and strobe operate correctly.
- **Power Cycle:** If the device appears to be malfunctioning, a power cycle (disconnecting and reconnecting power) may resolve minor issues. If problems persist, consult a qualified technician.

7. TROUBLESHOOTING

If the SIMPLEX 4903-9149 Speaker Strobe is not functioning as expected, refer to the following troubleshooting guide. For complex issues, contact a qualified fire alarm technician.

Problem	Possible Cause	Solution
No sound from speaker	<ul style="list-style-type: none">• No power to device• Incorrect wiring• Speaker fault• FACP programming issue	<ul style="list-style-type: none">• Verify 24VDC power supply• Check wiring connections and polarity• Test speaker with known good signal (by technician)• Consult FACP manual or technician
Strobe not flashing	<ul style="list-style-type: none">• No power to device• Incorrect wiring• Strobe lamp fault• FACP programming issue	<ul style="list-style-type: none">• Verify 24VDC power supply• Check wiring connections and polarity• Replace device (by technician)• Consult FACP manual or technician

Problem	Possible Cause	Solution
Intermittent operation	<ul style="list-style-type: none">Loose wiring connectionsPower fluctuationsDevice fault	<ul style="list-style-type: none">Inspect and secure all wiring connectionsCheck power supply stabilityReplace device (by technician)

8. TECHNICAL SPECIFICATIONS






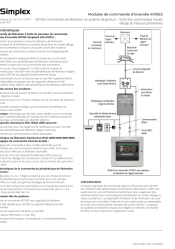
The following table provides key technical specifications for the SIMPLEX 4903-9149 Speaker Strobe.

Specification	Detail
Model Number	4903 9149
Brand	SIMPLEX
Color	Red
Shape	Rectangular
Material	Metal
Finish Type	Painted
Power Source	Battery Powered (via FACP, not internal batteries)
Voltage	24 Volts (DC)
Mounting Type	Wall Mount (Horizontal)
Number of Light Sources	1 (Strobe)
Item Weight	2 pounds
UPC	647358696716

9. WARRANTY AND SUPPORT

SIMPLEX products are manufactured to high-quality standards. For specific warranty information, please refer to the documentation provided with your purchase or contact your authorized SIMPLEX distributor. Any repairs or servicing must be performed by authorized personnel to maintain warranty validity.

For technical support, product inquiries, or to locate an authorized service provider, please contact your SIMPLEX supplier or visit the official SIMPLEX website. When contacting support, please have your product model number (4903-9149) and purchase details readily available.

	<p>Simplex 4090-9007 IDNet Signal IAM: Addressable Module for Fire Alarm Systems</p> <p>Detailed technical specifications and features for the Simplex 4090-9007 IDNet Signal Individual Addressable Module (IAM), designed for enhanced selective signaling and audio control in Simplex 4100ES, 4010ES, 4100U, and 4008 Series fire alarm control panels. Includes wiring, operation, and mounting information.</p>
	<p>Simplex 4010 Fire Alarm: Installation, Operation, and Programming Guide</p> <p>Comprehensive guide for the Simplex 4010 Fire Alarm system, covering installation, operation, and programming instructions. Includes system overview, wiring, configuration, diagnostics, and troubleshooting.</p>
	<p>Simplex 4004 Fire Alarm System Installation and Operation Manual</p> <p>This manual provides comprehensive installation and operation instructions for the Simplex 4004 Fire Alarm Control Panel (FACP). It covers system overview, requirements, installation procedures, operating instructions, glossary of terms, and battery selection. The 4004 FACP is a general alarm, battery-backed, electrically supervised system designed for fire detection and notification.</p>
	<p>Simplex 4010 Fire Alarm: Installation, Operation, and Programming Guide</p> <p>Comprehensive guide for installing, operating, and programming the Simplex 4010 Fire Alarm system. Covers system overview, wiring, configuration, diagnostics, and troubleshooting.</p>
	<p>Simplex 4010ES Fire Alarm Control Panel Operator's Manual</p> <p>This manual provides comprehensive instructions for operating the Simplex 4010ES Fire Alarm Control Panel (FACP). It covers basic concepts, alarm conditions, trouble conditions, supervisory conditions, advanced functions, and system test procedures. Learn how to acknowledge alarms, silence alarms, reset the system, and manage various system events.</p>
	<p>Simplex 4010ES: Systèmes de commande d'extinction automatique par gicleurs</p> <p>Guide technique Simplex 4010ES détaillant les modules de commande pour les systèmes d'extinction automatique par gicleurs, couvrant les modes déluge et préventif, avec spécifications, homologations et schémas de câblage.</p>