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Bogen BG-NR100

BOGEN BG-NR100 Night Ringer Instruction Manual

Model: BG-NR100 | Brand: Bogen

1. INTRODUCTION

1.1 Product Overview



The Bogen BG-NR100 Night Ringer is a compact device designed to provide an audible ring signal for paging systems. It responds to standard 90V telephone ring signals or external contact closures, producing a distinct dual-frequency electronic ringer tone. This unit is ideal for environments where telephone ring signals need to be amplified or integrated into a public address system, automatically muting background music during a ring event.

The Bogen BG-NR100 Night Ringer is an essential component for integrating telephone ringing into a paging or public address system. It is engineered to detect incoming telephone ring signals or external contact closures and generate a loud, clear electronic ringer tone. Its compact design and low current draw make it an efficient and reliable solution for various commercial and industrial applications.

1.2 Key Features

- Responds to 90V ring signals or external contact closures.
- Produces a clear dual-frequency electronic ringer tone.
- Easily connects to any standard paging system.
- Automatically mutes background music while ringing.

- Features a 0-level ringer volume control for adjustable output.
- Compact size for convenient installation.
- Low current draw for energy efficiency.

2. SAFETY INFORMATION

Please read all safety instructions carefully before installing or operating the Bogen BG-NR100 Night Ringer. Failure to follow these instructions may result in electric shock, fire, or other hazards.

2.1 General Safety Precautions

- Do not expose this device to rain or moisture.
- Do not block any ventilation openings.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus that produce heat.
- Only use attachments/accessories specified by the manufacturer.
- Refer all servicing to qualified service personnel.

2.2 Electrical Safety

- Ensure the power supply voltage matches the requirements specified for the device.
- Disconnect power before making any connections or performing maintenance.
- Avoid touching exposed wires or terminals when the unit is powered.
- Proper grounding is essential for safe operation.

3. SETUP

3.1 Unpacking

Carefully remove the Night Ringer from its packaging. Inspect the unit for any signs of damage that may have occurred during shipping. If damage is found, contact your supplier immediately.

3.2 Mounting

The BG-NR100 is designed for surface mounting. Use appropriate screws (not supplied) to secure the unit to a wall or other stable surface using the mounting tabs on either side of the enclosure. Ensure the mounting location allows for adequate ventilation and access to connections.

3.3 Wiring Connections

All connections are made via the screw terminal block located on the front of the unit. Ensure power is disconnected before making any wiring connections.

Terminal Label	Description	Function
TEL RING (T, R)	Telephone Ring Input	Connect to the tip (T) and ring (R) lines of a standard 90V telephone ring signal source.
CONTACT RING (A, B)	External Contact Closure Input	Connect to a dry contact closure (e.g., from a relay or switch) to trigger the ringer.

Terminal Label	Description	Function
POWER SUPPLY (+24, -24)	Power Input	Connect to a regulated 24V DC power supply. Observe polarity (+24V to +24, -24V to -24).
BGM SOURCE (A, B)	Background Music Input	Connect the background music source here. The unit will mute this input during a ring event.
AMP INPUT (A, B)	Amplifier Input / Output to Paging System	Connect this output to the input of your paging amplifier or public address system. This carries the ringer tone and the muted BGM.

4. OPERATING

4.1 Basic Operation

Once properly connected and powered, the BG-NR100 will automatically detect an incoming 90V telephone ring signal or a closure on the Contact Ring terminals. Upon detection, the unit will generate a dual-frequency electronic ringer tone and simultaneously mute any background music connected to the BGM Source input. The ringer tone will be sent to the Amp Input terminals for connection to your paging system.

4.2 Volume Control

The ringer volume can be adjusted using the **TONE VOL** knob located on the top left of the unit. Rotate the knob clockwise to increase the volume and counter-clockwise to decrease it. Adjust the volume to a suitable level for your environment.

5. MAINTENANCE

5.1 Cleaning

To clean the unit, wipe the exterior with a soft, dry cloth. Do not use liquid cleaners or aerosol cleaners. Ensure the unit is powered off and disconnected from all sources before cleaning.

5.2 General Care

The BG-NR100 is designed for reliable operation and requires minimal maintenance. Ensure it is installed in a location free from excessive dust, moisture, and extreme temperatures. Periodically check all wiring connections to ensure they are secure.

6. TROUBLESHOOTING

If you experience issues with your Bogen BG-NR100 Night Ringer, refer to the following table for common problems and solutions.

Problem	Possible Cause	Solution
No ringer tone output.	No power to the unit.	Check power supply connections and ensure 24V DC is present.

Problem	Possible Cause	Solution
	Incorrect or no input signal (TEL RING or CONTACT RING).	Verify 90V ring signal on TEL RING or proper contact closure on CONTACT RING.
	Volume knob set too low.	Adjust the TONE VOL knob clockwise.
Ringer tone is distorted or weak.	Improper connection to paging amplifier.	Ensure AMP INPUT is correctly connected to the amplifier input. Check amplifier settings.
Background music does not mute.	BGM SOURCE not connected correctly.	Verify BGM SOURCE connections. Ensure the music source is routed through the Night Ringer.

If the problem persists after attempting these solutions, please contact Bogen technical support or a qualified service technician.

7. SPECIFICATIONS

Technical specifications for the Bogen BG-NR100 Night Ringer:

Attribute	Value
Manufacturer	BOGEN
Brand	Bogen
Model Number	BG-NR100
Item Weight	1 pound
Product Dimensions	1 x 5 x 3 inches
FCC Registration Number	CD23CH-17566-KX-N
Ringer Equivalence	1.1 B
Date First Available	November 27, 2013

8. WARRANTY AND SUPPORT





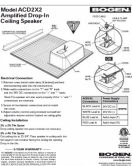



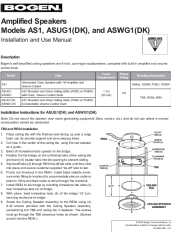

8.1 Warranty Information

For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official Bogen website. Bogen Communications, Inc. typically provides a limited warranty against defects in materials and workmanship for a specified period from the date of purchase.

8.2 Technical Support

If you require technical assistance or have questions regarding the installation or operation of your BG-NR100 Night Ringer, please contact Bogen technical support. Contact information can usually be found on the Bogen website or in the product packaging.

Related Documents - BG-NR100

 <p>Input/Output Controller Configuration Guide NQ-E7010</p> 	<p>Bogen NQ-E7010 Nyquist Input/Output Controller Configuration Guide</p> <p>This guide provides comprehensive instructions for configuring the Bogen NQ-E7010 Nyquist Input/Output Controller. Learn to manage network settings, update firmware, access logs, and ensure secure access with the Bogen Digital Certification Authority.</p>
 <p>MCP35A Master Control Panel Installation & Use Manual</p> 	<p>Bogen MCP35A Master Control Panel: Installation and Use Manual</p> <p>This manual provides detailed installation, operation, and technical specifications for the Bogen MCP35A Master Control Panel, a versatile system for two-way communication and program distribution in various environments.</p>
 <p>Model ACD2X2 Amplified Drop-In Ceiling Speaker</p> 	<p>Bogen ACD2X2 Amplified Drop-In Ceiling Speaker Installation Guide and Warranty</p> <p>Installation instructions, connection details, and warranty information for the Bogen ACD2X2 amplified drop-in ceiling speaker. Covers electrical connections, ceiling mounting for 2x2 and 2x4 tiles, and product specifications.</p>
 <p>VoIP Intercom Module Configuration Guide NQ-GA10P, NQ-GA10PV</p> 	<p>Bogen Nyquist VoIP Intercom Module Configuration Guide (NQ-GA10P, NQ-GA10PV)</p> <p>Detailed configuration guide for Bogen's Nyquist NQ-GA10P and NQ-GA10PV VoIP Intercom Modules. Covers setup, network settings, firmware updates, and standalone operation for IP paging and audio distribution systems.</p>
 <p>Amplified Speakers Module AS1, ASUG1(DK), and ASWG1(DK) Installation and Use Manual</p> 	<p>Bogen AS1, ASUG1(DK), ASWG1(DK) Amplified Ceiling Speaker Installation & Use Manual</p> <p>Installation and use manual for Bogen's AS1, ASUG1(DK), and ASWG1(DK) self-amplified 8-inch cone-type ceiling loudspeakers. Covers product description, installation instructions for TB8 and RE84 enclosures, electrical connections, adjustments, and limited warranty information.</p>



Nyquist Integrated Power Amplifier
Configuration Manual
NQ-GA20P2



[Bogen NQ-GA20P2 Nyquist Integrated Power Amplifier Configuration Manual](#)

Configuration guide for the Bogen NQ-GA20P2 Nyquist 20-watt integrated power amplifier, covering setup, network settings, firmware updates, and DSP parameter adjustments.