



## FMR FM Radio Receiver

The **Bogen Model FMR** is a wall-mounting FM radio designed to furnish background music in paging systems and for music-on-hold applications. It operates from a 12V DC or 24V DC power source and has a line-level output for connection to a paging amplifier or paging control device. A separate 1-watt output is provided to drive an external amplifier speaker.

A tuning dial selects the desired frequency. A built-in speaker facilitates tuning and AFC circuitry prevents signal drift. A screwdriver-adjustable tone control and separate volume controls are provided for the outputs. Switches select power ON/OFF, internal or external antenna (telescoping antenna or external 300-ohm), AFC ON/OFF, and internal or external speaker (1-watt output). Screw terminals are included for connection of external antenna, 24V DC power supply, and outputs. A jack is provided to connect a receptacle-mount 12V DC power supply (not included - PRS40C recommended).

### SPECIFICATIONS

- Tuning Range:** .....87.5 MHz to 108.5 MHz
- FM Sensitivity:** .....8mV
- Frequency Response:** .....90 Hz to 16 kHz, +2dB
- Power Output:** .....1-watt @ 8-ohms; 100 mW (Line Out)
- Signal-to-Noise Ratio:** .....-65dB
- Distortion:** .....Less than 2% at rated power output
- Power Requirements:** .....12V DC or 24V DC; 250 mA
- Dimensions:** .....3-3/8" W x 6" H x 1-1/2" D
- Product Weight:** .....1 lb.

# Installation

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Keyhole slots are provided on the flanges (top and bottom) of the FMR Receiver unit to facilitate installation.

## Connections

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### Power Supply

The unit operates from a 12V DC or 24V DC power source. If a 12V source is used, connect it to the 12V jack located on the lower side of the unit. Connect a 24V DC power supply (not included - PRS40C recommended) to the appropriate screw terminals. Be sure to observe polarity.

### Antenna

The ANT switch selects the internal telescoping antenna (INT), or a user-supplied external 300-ohm antenna (EXT). Connect an external antenna to the screw terminals marked ANT 300Ω, and place the selector switch in the EXT position.

### Output

Connect the LINE OUTPUT terminals to the input of the paging/BGM amplifier or page control module. The 1 WATT OUTPUT terminals are available to drive an external speaker, if desired.

**Note:** The SPK switch must be in the EXT position when using either output.

## Operation

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### Power

The power ON/OFF switch applies power to the unit.

### Tuning

Place the AFC switch in the OFF position. Move the SPK switch to the INT position to use the internal speaker while tuning in a station with the tuning dial. The TUNING LED illuminates when the signal is the strongest. Use the 1 WATT OUTPUT control to adjust the speaker volume, as necessary. Once a station has been tuned, place the AFC switch in the ON position and the SPK switch in the EXT position.

### Tone & Output Controls

**Tone:** Clockwise rotation increases treble response.  
Counterclockwise rotation increases bass response.

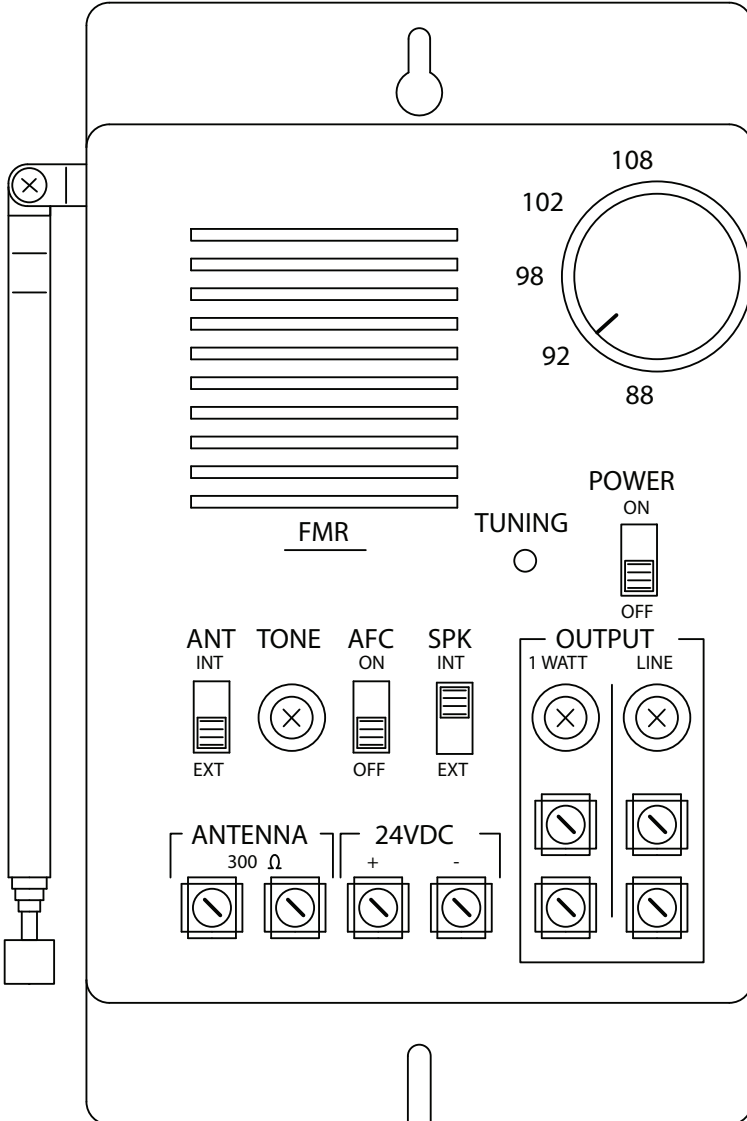
**Output:** Clockwise rotation increases the output volume.  
Counterclockwise rotation decreases volume.

# Service

## CAUTION

*There are no user-serviceable parts within the unit. Have any internal servicing performed by authorized personnel only.*

### FMR FM Radio Receiver



## Limited Warranty; Exclusion of Certain Damages

The **Bogen FMR FM Radio Receiver** is warranted to be free from defects in material and workmanship for two (2) years from the date of sale to the original purchaser. Any part of the product covered by this warranty that, with normal installation and use, becomes defective (as confirmed by Bogen upon inspection) during the applicable warranty period, will be repaired or replaced by Bogen, at Bogen's option, provided the product is shipped insured and prepaid to: Bogen Factory Service Department, 50 Spring Street, Ramsey, NJ 07446, USA. Repaired or replacement product will be returned to you freight prepaid. This warranty does not extend to any of our products that have been subjected to abuse, misuse, improper storage, neglect, accident, improper installation or have been modified or repaired or altered in any manner whatsoever, or where the serial number or date code has been removed or defaced.

**THE FOREGOING LIMITED WARRANTY IS BOGEN'S SOLE AND EXCLUSIVE WARRANTY AND THE PURCHASER'S SOLE AND EXCLUSIVE REMEDY. BOGEN MAKES NO OTHER WARRANTIES OF ANY KIND, EITHER EXPRESS OR IMPLIED, AND ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE HEREBY DISCLAIMED AND EXCLUDED TO THE MAXIMUM EXTENT ALLOWABLE BY LAW.** Bogen's liability arising out of the manufacture, sale or supplying of products or their use or disposition, whether based upon warranty, contract, tort or otherwise, shall be limited to the price of the product. **IN NO EVENT SHALL BOGEN BE LIABLE FOR SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, LOSS OF PROFITS, LOSS OF DATA OR LOSS OF USE DAMAGES) ARISING OUT OF THE MANUFACTURE, SALE OR SUPPLYING OF PRODUCTS, EVEN IF BOGEN HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES OR LOSSES.** Some States do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from State to State.

Products that are out of warranty will also be repaired by the Bogen Factory Service Department – same address as above or call 201-934-8500. The parts and labor involved in these repairs are warranted for 90 days when repaired by the Bogen Factory Service Department. All shipping charges in addition to parts and labor charges will be at the owner's expense. All returns require a Return Authorization number. For most efficient warranty or repair service, please include a description of the failure.

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