



- Low cost—high quality performance
- Self-contained AC and battery supply
- Compact, portable case with tilt-rest cover
- Optional plug-in input transformers
- Separate PA gain control

Two-Channel Remote Amplifier, Type BN-7A

Description

The Type BN-7A Portable Remote Amplifier, MI-11451-A, is designed for broadcast use, providing two separate input channels that can be operated either balanced or unbalanced. Transistors and germanium diodes are employed throughout. The BN-7A is completely self-contained for AC or battery operation. For operating convenience, a pull-out chassis housing the batteries is removable from the front panel. A separate PA gain control is provided. Excellent frequency response and low harmonic distortion assure high quality performance.

The BN-7A Amplifier is styled for operating convenience. All amplifier components, controls, batteries and

AC power supply are mounted on a one piece chassis easily removable from the portable carrying case. This ruggedly-constructed steel case, is provided with a soft leather handle and finished in midnight blue. The cover can be removed easily for quick set-up of the equipment. Special hinges permit the cover to be detached, reversed and used as a special tilt-rest for the amplifier case in applications where inclined positioning of the control panel is desired.

Located on the front panel are all operating functions including an illuminated VU meter, two mixer controls, the master control, phone jack, PA gain control, and power switch. For ease of servicing, the

amplifier chassis may be withdrawn from the case thereby exposing all components.

Mercury cell batteries are self-contained in a convenient battery storage chamber located on a pull-out chassis accessible from the front panel. A rear cut-out in the case provides easy accessibility to the AC power connector, fuse holder, microphone connectors and the output connections. Clips are provided in the cover of the carrying case for securing the 8-foot AC power cord when not in use. The PA gain control bridges the output at the amplifier and allows the operator to conveniently control the level fed to external PA equipment.

Specifications

Input ConnectorType XL
Inputs2 microphones
(both may be used simultaneously) 150/250 Ohms
unbalanced, 37.5/150 Ohms balanced when using MI-11776
Input Transformer
Output (balanced output 600/150 Ohms) (shipped connected
for 600 Ohms)+18 dBm (6 dBm isolation provided)
Gain92.5 dB ± 2 dB (150 Ohm source on 150 Ohm input
to 600 Ohm load)
Frequency Response ± 2 dB from 30-15,000 Hz
Harmonic Distortion (+18 dBm output mixer
and master controls set for 68 dB gain)Less than 1.5%
50-100 Hz; less than 1% 100-15,000 Hz
Noise Level Referred to Input-118 dBm
Meter3" VU illuminated
Power Requirements:
AC Power117/235 Volts, 50/60 Hz, 5 Watts
DC Power6 batteries required (not supplied)
5—PR Mallory Type TR135R 6.5 Volts,
1—RCA VS036, D size, flashlight cell, 1.5 Volts.

Transistor and Diode Complement:

2—2N220, 2—2N404, 1—2N274, 1—2N1090, 3—2N270, 2—1N91
Dimensions (overall)5½" high, 14½" wide, 10½" deep
(13.97 cm, 36.83 cm, 26.67 cm)
Weight15 lbs. approx. (6.8 kg.)
FinishMidnight blue case and silver gray panel

Accessories

Input Transformer (37.5/150 Ohms)MI-11776
Spare Transistor and Diode Kit for BN-7AMI-11785
Step Type Attenuator for BN-7A Master ControlsMI-11751-3
Step Type Attenuator for BN-7A Fader ControlsMI-11751-4

Ordering Information

BN-7A Portable Two-Channel Remote Amplifier including
transistors and diodes but less batteriesMI-11451-A