# BOOM BOXvz

The BOOM BOXv2 is the latest refinement to Remote Audio's popular talkback system for boom operators. This version adds a number of features, including overall headphone level control for the boom-op, balanced line or stereo headphone level input, balanced line-level talkback mic output, battery status indicator LED, TA5 connector for Remote Audio headphones with Talkback, and support for dynamic or electret talkback microphones.

### Connecting the BOOM BOXv2:

The BOOM BOXv2 can be used with most common headsets having an XLR mic connector and a 1/4" or 1/8" headphone connector. It can also be connected directly to Remote Audio's Headsets using a single TA5F connector.

The primary microphone (boom mic) connects to the female XLR connector labeled "BOOM." This signal is sent directly down the extension cable and is shielded from the talkback and monitoring lines, ensuring the cleanest signal possible.

The BCS (Boom Cable System) extension cable plugs into the panel-mounted Neutricon on the bottom of the BOOM BOXv2. The other end of the extension(s) plugs into a fanout adapter that connects to the mixer or recorder. Fanouts are available for a variety of popular field mixers and recorders, including:

**BCSMFV2:** For use with **Cooper 208**, **Cameo**, **and Mackie** mixers. 8-pin Neutricon male fans out to a ¼" Male TRS connector and two XLR3-M. **BCSMFV2442:** For use with **Sound Devices 442** mixers. 8-pin Neutricon male fans out to two TA3 connectors, a XLR3-M connector and a 1/8" male jack. The "Comm Mic Function" needs to be enabled in the 442 menu. The BOOM BOXv2's input switch should be in the "Phones" position (fig 3).

BCSMFV2552: For use with Sound Devices 552 mixers. 8-pin Neutricon male fans out to a XLR3-M connector and two 1/8" male jacks. "Talk Back mode" needs to be enabled in the 552 menu system. The BOOM BOXv2's input switch should be in the "Phones" position (fig 3).

**BCSMFV2CL9:** For use with **Sound Devices 788T recorders with CL-9 controllers**. 8-pin Neutricon male to two XLR3-M connectors and a TA3F. The BOOM BOXv2's input switch should be in the "Bal. Line" position (fig 3). **BCSMFV2DEVA:** For use with **Zaxcom Deva** recorders. 8-pin Neutricon male fans out to two XLR3-M connectors and an XLR3-F. The BOOM BOXv2's input switch should be in the "Bal. Line" position (fig 3).

**BCSV2ADPT:** For adapting original BOOM BOX mixer fans to BOOM BOX v2 standard. 8-pin Neutricon Female to 8-pin Neutricon Female, 8".

The BCS extension cables are made with Canare 2-pair Starquad, dedicating a noise-free Starquad pair for the boom microphone while the second pair is used for monitoring and communications. XLR adapters, which convert the extensions into 2-pair Starquad snakes, may be ordered from your Remote Audio dealer. [NOTE: This system in not compatible with extensions made for ENG "break-away" cables. Even though they use the same 8-pin Neutricon connectors and may seem to work at first; the wiring schemes are different. Remote Audio boom cable extensions are labeled "BOOM", and made only with 2-pair Starquad wire, currently Canare L4E3-2P.]

#### Powering the BOOM BOXv2:

The BOOM BOXv2 requires a 9V battery to power the headphone amplifier and talkback mic preamplifier. Fold down the 9V battery door, flip up the hinged cover (*fig.1*), and insert the battery, terminals first. The battery will only fit one way. If the hinged cover doesn't latch easily, make sure the battery is inserted correctly.

Dimensions: 3 x 5.1 x 1.75 inches. Weight: 10 oz Idle current consumption: 20mA @ 9VDC Frequency Response: 10 Hz - 25 kHz, +/- .5dB fig.1

# Using the BOOM BOXv2:

To turn the BOOM BOXv2 on, rotate the headphone volume knob clockwise until it clicks on. The LED should be illuminated green. If the LED is red, the battery voltage has fallen below ~6.1V and should probably be replaced.

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When the pushbutton on the top of the BOOM BOXv2 is pressed, the signal from the talkback microphone on the boomoperator's headset is amplified and sent down the BCS extension to the mixer as a balanced line-level signal. It is also simultaneously mixed with the monitor signal from the mixer and heard in the boom-operator's headphones.

The BOOM BOXv2 has an adjustable talkback output level located on one side of the box (marked "TB MIC GAIN") and is accessible with a small screwdriver. When shipped, it is preset to give a comfortable level for the boom operator (about 12 o'clock) using a Remote Audio headset with electret talkback mic. If adjustment is needed, follow this procedure: Set the BOOM BOXv2 volume control for desired loudness of the signal to be monitored. Without changing the volume control position, adjust the TB MIC GAIN trim pot so that the boom operator hears their own voice at a volume comfortable to them with the mic placed close to the mouth. Then, adjust the input sensitivity of the mixing console's talkback gain is set too loud, acoustical feedback could result.]

## Talkback Mic Configuration:

The BOOM BOXv2 adds support for electret talkback microphones through an internal switch *(fig.2)*. The BOOM BOXv2 is shipped with the selection switch in the "Elec." position (indicated on the circuit board). This switch can be accessed and changed to the "Dyn" position by removing the two screws in the front panel and sliding the switch.





Monitor Input Configuration:

The Boom Cable System has the ability to carry a balanced linelevel signal to the boom operator, or a stereo or mono headphone-level signal via a switch inside the BOOM BOXv2 (*fig.3*). By default, the BOOM BOXv2 is shipped with this switch in the "Phones" position (indicated on the circuit board). [*Note: stereo headphone-level signals are summed to mono at the* BOOM BOXv2.]

#### Limited Warranty

Remote Audio warrants the BOOM BOXv2 against defects in materials and workmanship for a period of six (6) months from date of original retail purchase. This is a non-transferable warranty that extends only to the original purchaser. Remote Audio will repair or replace qualifying products at its discretion at no charge. Damage related to severe conditions or other abuse is not covered under this warranty.