

# RemoteAmp Three

## Portable Headphone Amplifier



## User Guide

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**JK Audio**

## ***Introduction***

JK Audio combines professional audio electronics in a rugged new belt pack design. RemoteAmp Three provides a listen only connection for IFB or full bandwidth audio monitoring. The XLR line level input accepts either a balanced mono signal or a one or two channel party line intercom feed (listen-only). The XLR source switch selects between balanced input and intercom monitoring.

An integrated speaker is disabled when headphones or earphones are connected. There are separate volume controls for 2 channel party line monitoring. The high output 1/4" headphone jack will cut through any crowd noise. Connect a mono IFB earpiece or stereo headphones to the 3.5 mm earpiece jack.



RemoteAmp Three contains a headphone amplifier that is more powerful than a consumer product. JK Audio products are designed for the broadcast industry.

The broadcast professional must be able to hear headphone signals over the ambient noise level. From the cheering crowd at a football game to track-side at a car race, the program material or cues must be heard at high volumes without distortion.

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## Features—Front



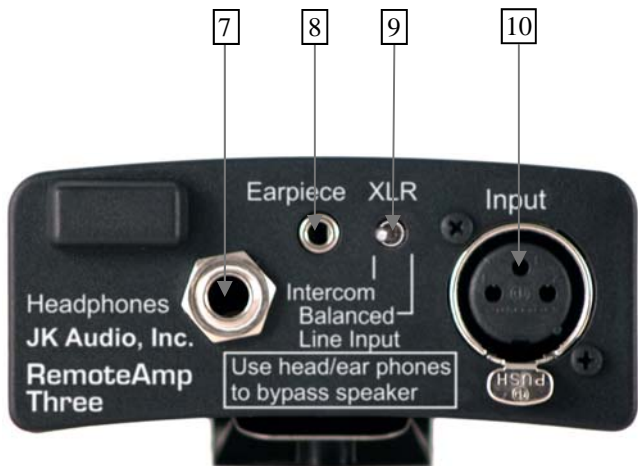
## ***Features—Front***

1. This built-in speaker lets you hear audio without connecting headphones.
2. This control will adjust the level of audio from Channel A of the XLR Line In jack when the selector switch is in the Intercom position.
3. This will adjust the audio level from Channel B of the XLR input jack when the selector switch is in the Intercom position or when you have a balanced audio signal on the XLR and the switch is in the Balanced Line Input position.
4. This red LED indicates when the power is turned on.
5. Press this Power button in to activate the unit. Press again to turn the unit off.
6. Power will be drawn from this 9 volt battery automatically if the intercom line input does not supply sufficient power. The battery will also be used if both jumpers J3 and J5 have been removed (see pages 8-9).

## ***Features—Rear***

7. Connect your stereo headphones to this high output 1/4" headphone jack.
8. Connect your stereo earpiece to this 3.5 mm output jack.
9. This switch will select whether the XLR Input will come from a one or two channel intercom system or from a balanced line input.
10. Connect the output of your audio console or your intercom system to the XLR Input jack. This input is line level only and is not suitable for a microphone.

## Features—Rear



## ***Power Options***

RemoteAmp Three was designed to be compatible with most 3 pin XLR party line intercom systems such as ClearCom®, RTS™ TW or Audiocom® or other similar intercom systems. Many of these intercom systems provide power on either pin 2 or pin 3 of the XLR jack that can be used to operate a personal backpack unit.

RemoteAmp Three has an internal jumper that can be configured so this backpack device can take advantage of that power when it is available. This unit will draw power from a 9 V battery if power from the intercom system is not available or is insufficient.

Please refer to the specifications for your intercom system to determine where to set the jumper in the RemoteAmp Three. Placing the jumper across J3 will draw power from Pin 3 of the XLR jack. Placing the jumper across J5 will draw power from Pin 2 of the XLR. Removing the jumper entirely will force the RemoteAmp Three to draw power only from the 9V battery.



## ***Jumper Settings***

The default jumper position is to have J5 closed. To change the jumper or to remove it, you will need to disassemble the RemoteAmp Three as follows:

- Remove the battery drawer and the two screws from the battery compartment.
- Remove the headphone nut and the two XLR screws from the back panel.
- Remove the four front and back panel screws from each side of the unit. \*Note that the screws on the battery side of the unit are longer than those on the other side.
- Remove the back panel.
- Slide the battery compartment out just enough to allow the circuit board to slide out the front of the enclosure. The circuit board will remain connected to the front panel.
- Unplug the battery harness to allow the circuit board to be completely removed.

Both internal jumper pins J3 and J5 are located on the lower right corner of the printed circuit board.

## **FAQs**

**? Can I connect a microphone to the XLR input jack?**

**!** No, this input is line level only. You will need to connect your mic to a mixer or preamp first.

**? Can I connect the RemoteAmp Three to any intercom unit?**

**!** This headphone amplifier works well as a listen-only backpack when connected to most 3 pin XLR party line intercom systems such as Clear-Com®, RTS™ TW, Audiocom® or other compatible intercom systems.

**? How long will the battery last?**

**!** Based on our tests with the RemoteAmp Three, a standard alkaline battery should last for about 20 hours under normal use. Lithium batteries can significantly increase the battery life, but at a higher cost. As an indicator of low battery, the red Power LED will grow dim and then extinguish a short while before the battery is completely exhausted and the unit shuts down.

## **FAQs**

**? My intercom system has its own power supply. Will that damage the RemoteAmp Three?**

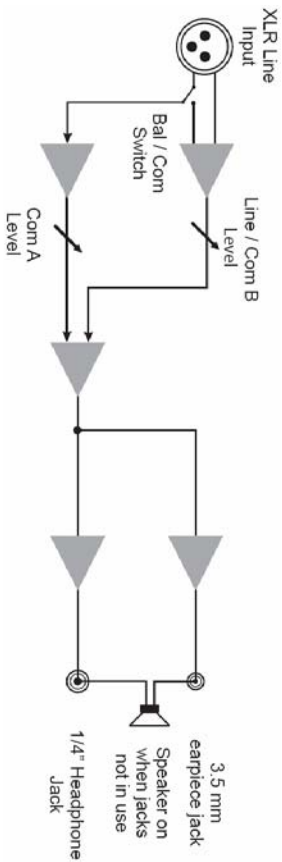
**!** No, the XLR jack on your RemoteAmp Three is capacitively coupled so it is safe to connect to powered intercom lines.

If your party line system supplies voltage on either pin 2, pin 3 or both pins and you have the jumper installed in either position J3 or J5 as described on page 8, the intercom supply voltage will power the RemoteAmp Three. If your intercom system does not supply sufficient voltage or the jumper has been removed, the RemoteAmp Three will draw power from the 9V battery.

**? Can I use both headphone jacks at the same time?**

**!** Yes, you can use the 1/4" Headphone jack and the 1/8" Earpiece jack simultaneously. When you connect either headphone, the integrated speaker is disabled.

# Block Diagram



## **Specifications**

### Input:

Female XLR: Line level, balanced  
0 dBu nom  
20 k ohms impedance

### Outputs:

1/4" Headphone: Stereo, 8 ohms impedance,  
1/2 W per channel

3.5 mm Earpiece: Stereo, 16 ohms impedance  
250 mW per channel

Frequency Response: 50 Hz - 20 kHz

Size: 4.7" x 3.75" x 1.65"  
(12 x 9.5 x 4.2 cm)

Weight: 10 ounces (275 grams)

**Note:** While RemoteAmp Three was designed to be very rugged and durable, it is not waterproof and care should be taken to keep the unit dry.

## **Notes**

## ***Notes***

## ***Warranty***

The model RemoteAmp Three is covered by a 2 year warranty to be free from defective workmanship and materials. In the event that the RemoteAmp Three needs repair, you must call us to get an authorization, and then carefully pack and ship it to us. You will pay for shipping to us and we will pay for return back to you, UPS ground. No free repairs will be made if the defect was caused by misuse, weather conditions, or other cause, except for defective workmanship or materials.

THERE ARE NO EXPRESSED OR IMPLIED WARRANTIES WHICH EXTEND BEYOND THE WARRANTY HERE MADE.

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