

# Ready2Talk

## Adding an Amplifier to a PA 64

Although the PA 64 uses the same 4 x 50 Watt audio IC that's used in Kenwood and JVC head units, sometimes you need more power. Since most amplifiers today accept both low level RCA and high-level speaker inputs, adding an amplifier or self-powered subwoofer to a PA 64 is easier than you might think.

But, it's important to understand the basic concept; The sound from the stereo flows through the PA 64 to the external amp, then to the speakers. This way the variable music muting in the PA 64 controls what happens to the music when the mic is used.

### How it's connected

1. If using an aftermarket stereo with RCA output, connect the RCA output to the PA 64's RCA audio input and set the "Input Switch" to LOW
2. If using an OEM stereo, use one of our installation T harnesses with speaker wire to RCA pigtailed and set the "Input Switch" to HIGH.
3. Next connect the PA 64 speaker output wires into the amplifier's speaker level input. Often the amp manufacturer will supply speaker wire to RCA adaptor pigtailed in the amp box, sometimes not and you have to supply them to complete the installation.
4. Some amps have an input switch, others the input sensitivity pots will cover adjust from 250mV to 4V, so turn the pots to their lowest setting then increase as required.
5. If your amplifier is only RCA and doesn't accept speaker level input, then a line level converter must be used between the PA 64 speaker output wires and the amp's input.
6. Finally, connect the speakers to the additional amplifier's speaker output.

### Audio Adjustment Procedure for a Speaker (High) Input Level Amp

1. Turn off the stereo.
2. Connect the mic to the PA 64 and set the mic volume knob to about 1/2 way.
3. Turn on the mic and talk normally with it about 1/2 inch (10cm) away from the mouth. If the mic volume is fine with the mic volume knob set at 1/2, then you're done.
4. If too loud or soft, adjust your amps input level up or down. If there's feedback, turn it down.
5. Next, turn off the mic, turn on the stereo and check that the stereos' volume acts normally.
6. Next, set the "Audio Mute" knob on the PA 64 to fully clockwise, then turn on the mic and the music will mute. Turn the mic off and the music will come back up.
7. Set the "Audio Mute" knob to fully counter clockwise and then turn on the mic again. This time the music will keep playing while your talk.
8. When your adjustments are done, there shouldn't be any mic feedback with the mic volume set at 1/2 and the volume control on the stereo should act normally.

## Audio Adjustment Procedure for an RCA (Low) Level Input Amp

1. Set the output level on the Line Level Converter (LLC) to the lowest output level.
2. Turn off the stereo.
3. Connect the mic to the PA 64 and set the mic volume knob to about 1/2 way.
4. Turn on the mic and talk normally with it about 1/2 inch (10cm) away from the mouth.
5. While talking, increase the output level of the LLC until the mic level is normal. If the amp is new or was previously connected with that stereo, you don't normally need to adjust the amp input gain, only the LLC output.
6. Next, turn off the mic, turn on the stereo and check that the volume acts normally, it should be close. If not, make further adjustments to the LLC output, then re-test the mic level.
7. Set the "Audio Mute" knob on the PA 64 to fully clockwise, then turn on the mic and the music will mute. Turn the mic off and the music will come back up.
8. Set the "Audio Mute" knob to fully counter clockwise and then turn on the mic again. This time the music will keep playing while you talk.
9. When your adjustments are done, there shouldn't be any mic feedback with the mic volume set at 1/2 and the volume control on the stereo should act normally.

### Wrapping up

I'm sure you found it's simpler than you first thought. BUT... if you have ANY questions, please don't fight with it, just give us a quick call.

The *Ready2Talk* Team  
888 724-5351