

Note:

Diagnostics 101; start at one end or the other and change ONLY one thing at a time.

Always use a DIGITAL VOLT METER. Never use a test light to check power on a car that uses computers!

Always make power checks with the PA connected and turned on. This helps to show resistive connections on power wires.

If using a Ready2Talk T Harness to connect to an OEM stereo, please refer to that install sheet, or give us a call before proceeding.

We strongly advise to watch our "Installation Concept - Set Up - Testing" video before proceeding. Click on the link below.

<https://www.youtube.com/watch?v=KPwn0lp0ZuI>

Issue

1 The power light is on but no sound from either the stereo or mic?

2 The blue power light is not on and there is no sound?

3 I have confirmed the power on the wires but it still doesn't work?

Solution

This is the MOST common question.

1) Check power for 12V on Yellow constant power wire at the plug. The Yellow power wire feeds the main amplifier chip. **If there is no power on the Yellow wire, there will be no sound.**

2) Check the 10A fuse at the back of the PA box. If blown after a short time of operation, it could be caused by low speaker impedance.

See Issue #4

1) Ensure the vehicles key is turned on.

NOTE: The blue power LED is fed by the Red accessory wire and has an internal resettable fuse on the PC board.

2) If your PA 64 has a front panel power switch, ensure it is turned on.

3) Check power for 12V on Red switched power wire at the plug.

4) Unplug the mic from the 4 pin socket, turn off the power for 1 min. With the mic still unplugged, turn on the PA and see if the blue LED stays on. If so, you have a short in the mic plug between pins 1 and 4. Replace the mic.

1) Check for the Black wire for a proper ground.

2) Temporarily connect both the Red and Yellow power wires directly to the vehicles battery. If the PA starts working, then recheck both the Red and Yellow power wires for full voltage with a meter.

3 Continued

- 3) There may be a resistive crimp connection at the PA's main plug or in the power wire coming from the bus.
With the plug connected to the PA **and the PA turned on**, check for power with a meter where the wire connects to the terminal on the PA's main plug, red and yellow. If no power, you either have a resistive crimp at the main plug or in the bus's power wire feeding the PA.
- 4) If ANY of the speaker wires are pinched or shorted to ground, the PA will go into protection mode killing the sound feeding all speakers. With the PA turned on, cut one speaker wire at a time. When the PA comes to life, you have identified the shorted pair of wires. Or, cut all speaker wires and test each output wire pair with a test speaker to confirm the PA is functioning. If so, then meter each speaker wire to find the fault.
- 4 The PA is HOT or stopped working but the power light is still on?
- The PA may run warm but not hot. If hot, please ensure each speaker load (per channel) is between 4 and 8 Ohms. **If at 2 Ohms, the Spk load is outside the designed range and must be rewired.** If this is not addressed, the PA's 10A fuse will blow protecting itself. Please see the speaker wiring diagrams in the manual.
- 5 The stereo sound shuts off when I turn off the power switch on the PA 64? (not applicable with the PA 63 and PA 64 Ver. 2.3 as there is no power switch on the front panel)
- This is normal. Since the PA 64 is installed between the stereo and the speakers, when the power switch is turned off, all sound will stop. The switch can be bypassed by installing the included power switch jumper on the PC board. Please refer to the manual.
- 6 The mic works but not the stereo - or the stereo has low volume?
- 1) Do you have the microphone turned on? With a PA 63, the music will mute with the mic on. With the PA 64, it too will mute when the "Audio Mute" control is turned fully clockwise. Turn off mic and retest.
- 2) Both the PA 63 and PA 64 take the audio input from the stereo's front channels. Confirm that the output from the stereo is connected to the 2 x RCA input sockets on the PA 64. If the stereo's fader is set to the rear, there will be little sound feeding the PA's input. Set the stereo's fader to the middle.
- 7 The stereo sound is either very low or too loud and distorted?
"My factory stereo volume is now VERY touchy"
- Check that the "High/ Low" input switch on the back of the PA. If using an OEM / Factory stereo set the switch to High. If using an Aftermarket stereo set the switch to Low.

8 Sound only one side?

8A Stereo plays only on one side?

8B Sound on one side with the mic and stereo?

9 The stereo works but mic is not working?

10 There is feedback / squealing when using the mic?

11 The front speakers are too loud compared to the rear speakers?

Before you go much further, check if your complaint is A or B.

1) Check that the stereo's balance control is in the centre.

2) If there is sound on both sides with the mic, but not with the stereo, this generally indicates an audio output problem with the stereo or a connection problem between the stereo and PA input. Swap the RCA plugs at the PA 64 RCA input, if the side with sound changes it's either a stereo or RCA cable problem. If the same side is bad, it's a PA or wiring problem to the speakers.

It's always best to check that the wiring to the speakers is correct and that each speaker is working. Unplug the master plug from the PA box. Cut a paper clip in half and insert each half into each of the speaker wire paired in the plug (e.g. white and white/black). Using a 9V battery quickly touch the battery across each of the 4 pr. speaker wire pairs and the speakers those wires are attached to will pop. Test all 4 pairs, if some speakers don't pop, check the wiring. If all pop the problem is in the PA box and must be replaced. Give us a call.

1) Is the switch on the mic turned on? Don't feel bad, it happens.

2) Check the setting of the mic volume control on the front of the PA

3) Try a different mic to rule out a mic issue.

4) Contact us for repair or replacement

1) Although all Ready2Talk PA systems are designed not to have any feedback, if you are standing too close to a speaker and have the mic volume set too high, this may cause the feedback condition.

2) All Ready2Talk mics are designed to be placed a max. of 1" or 3cm away from your mouth. If more, the mic volume will need to be increased to compensate, potentially causing feedback. Move the mic closer to your mouth and turn down the mic volume control.

3) There is a master mic gain control on the PC board for custom adjustments. Please refer to the manual for instructions, or contact us before proceeding.

Adjust the two front channel level potentiometers on the PC board to level match the front vs. the rear volume. Please refer to the manual.

12 The stereo volume is hard to adjust when the mic is on?
(not applicable with the PA 63)

Adjust the stereo volume ONLY when the mic is off. When the mic is on, the PA 64 offers variable music muting from 0% to 100%, controlled by the "Audio Mute" knob. If the Audio Mute is adjusted when the mic is on, it will affect the stereo volume causing confusion. Please watch the "Concept, Set up and Testing video on our homepage.
<https://www.youtube.com/watch?v=KPwn0lp0ZuI>

13 The Stereo and or PA only works on the front speakers?
(This happens mainly when installing into a van using the factory OEM stereo)

The concept for the PA 63 and PA 64 is, 2 ch. input and 4 ch. output. If only playing on the front speakers, then the PA is not connected to the rear speakers as designated in the diagrams. Check and follow the diagrams. Remember... the PA is installed between the stereo's 2 x front output channels and all the speakers in the vehicle.

14 When using a T harness, the stereo plays fine but the HF and GPS has very low volume?

The early versions of R2T Installation T harnesses only had 2 x RCA plugs (White and Grey). But the later versions now come with 4 x RCA one for all output channels from the stereo which allows use on the PA 62 as well.

Because most stereos only play the HF and GPS through the front speakers it is imperative that only the White and Grey RCA are connected into the PA 64. The Green and Purple pairs are not used and should be taped off.

15 I need more power or I want to add a Subwoofer.

The PA 63 and PA 64 use the same 4 x 50 W amp IC as in many car stereos. If you require more power, connect RCA line level converter to the PA output wires or use an amplifier with speaker level inputs. Please contact us for more information.

If this info does not solve your issue? Please give us a call 1 888 724-5351