

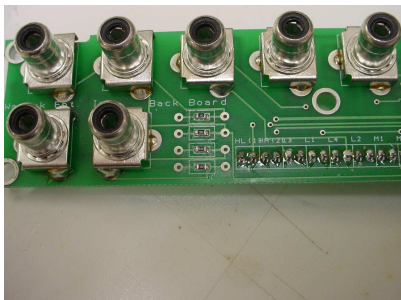
Mixer Modification

The original Wantok mixer, used in the SBS-1 console, had a second audio output which was reduced to a low line level, and could be used with a standard Public Address (PA) system. This is useful, for example, to announce over a PA system at football games, while at the same time drive a broadcast transmitter with the regular line output.

With the advent of the SBS-2 Digital console, the majority of users are now requesting two high level audio outputs. One output is used to drive a transmitter, while the other feeds a logging recorder. This permits recording live broadcasts so they can be used again or re-scheduled at different times.

All new Wantok mixers now have two high level outputs, rather than one high and one low level output. The purpose of this note is to tell you how to modify your existing older style mixer in the field, if you wish to change it from a low level output to a high level output.

All that is required is the removal of four resistors from the back printed circuit board of the mixer and insertion of jumpers. If you have one of the newer mixers, it may have surface mount resistors as shown in the picture below.



If you have one of the older mixers, it may have the through-hole resistors as shown below.



Step 1

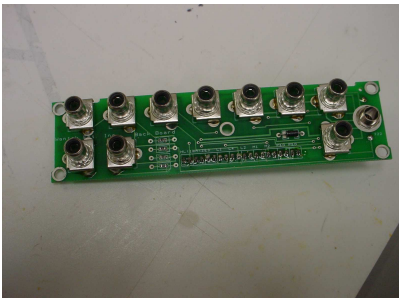
Remove the five screws holding the mixer's cover, and remove it.

Step 2

Remove the screws that hold the main board to the bottom of the mixer. Once the main board is loose, pull it out of the back board and place the top part of the mixer and main board aside.

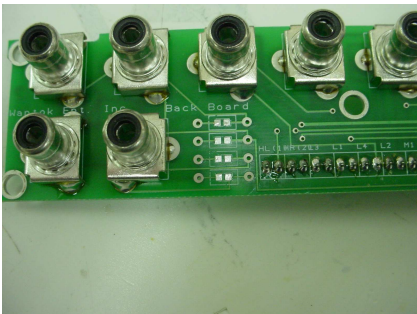
Step 3

Remove the 5 screws securing the back board and place it on your workbench.

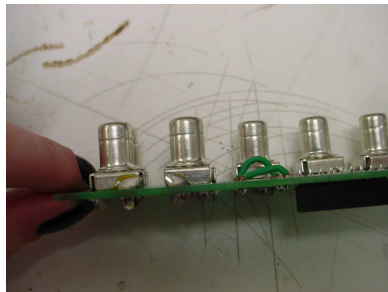
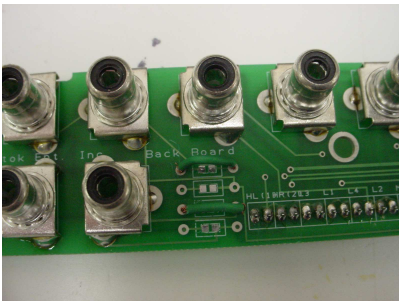


Step 4

Remove the resistors from the back board as shown.

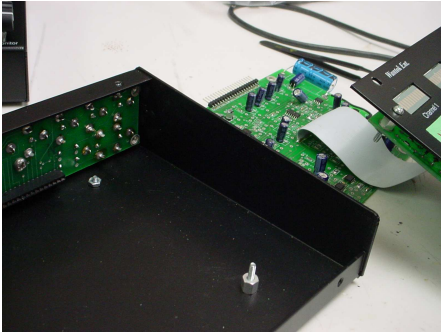


Step 5



Place wire jumpers, or shorting bars across the 1st and 3rd connection points as shown.

Step 6



Remount the back board into the mixer case with its five screws. Plug the main board into the back board with the multi-pin connector and secure the main board onto the bottom of the mixer with its screws. Make sure you use the stand off spacers to keep the main board fixed in place.

Step 7

Place the top of the mixer back on and replace the five screws that hold it in place.

The mixer output levels should now be equal. What used to be the low level output will now be a high level output, and suitable for logging.

RCA Modification

If in the future you need a low level output, the resistors you removed can be connected to the back of the RCA jacks on the console to reduce the signal.



If you have any questions, contact daniel@internationalbroadcast.ca and we will do our best to assist you.