

Modifying a V-Box for Two Channel Operation

The V-Box is designed for a single channel KB-701 wall panel. When using with a two channel KB-702 or KB-702GM, if you want to use both channels and install it in a V-Box, you'll need to make some modifications.

First of all, the KB-702 wall panels ship in "single channel mode". So the first thing you'll want to do is to take the panel out of that mode.

There is a switch on the Printed Circuit Board (PCB) to select or deselect that mode. In the diagram below, you'll find it as item 14 below, from left to right, as you are looking at the PCB in the picture.

(Left) LATCH DISABLE; **(Middle) LONG LINE COMPENSATION** and **(on the right) SINGLE CHANNEL OPERATION**

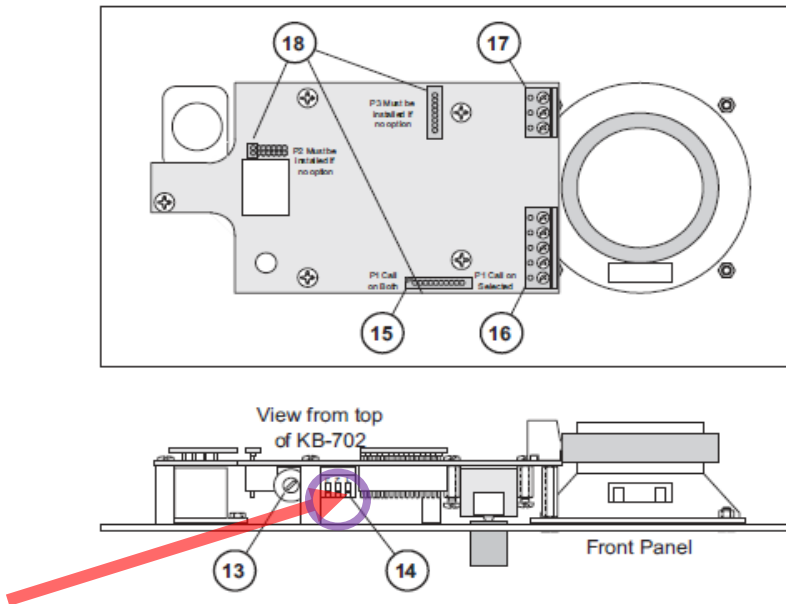
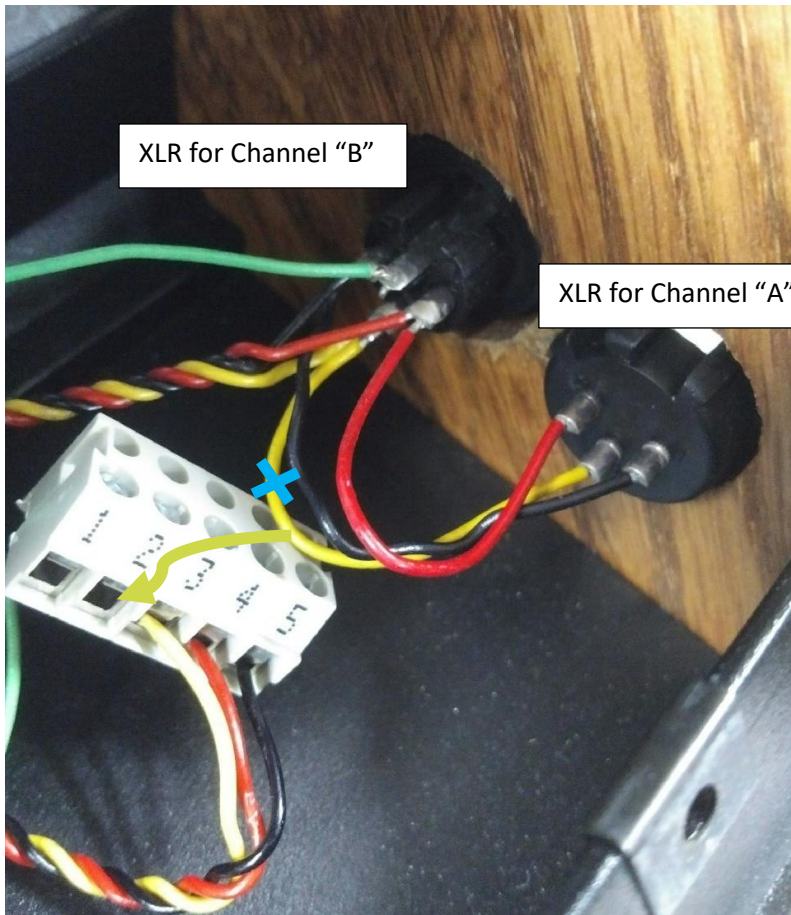


Figure 1-3: Internal Adjustments and Connections

13. **Call Alert Tone Level Control:** This control adjusts the volume of the *call alert tone* sound. This is normally adjusted when the system is set up and there should be no need to adjust it in normal operation. This feature can be disabled by turning the control fully counterclockwise.
14. **Option Switches:** Three *option* switches are provided. They should be configured when the system is set up, but are not changed in normal operation. Note the *on* position of each switch is toward the circuit board and the *off* position is toward the front panel. The default position of the switches is in the *off* position. The function of each switch is as follows:
 1. **SINGLE CHANNEL:** In some installations, the KB-702 is intended to be used only with one intercom channel. Setting the *single channel* switch to the *on* position will connect the KB-702 to the one intercom channel regardless of the position of the front panel channel selector. In two-channel installations, this switch must be set to the *off* position.
 2. **LONG LINE:** If a long cable run is unavoidable and approaches 700 ft. (213.5 m) or more, set the *long line* option switch to the *on* position. The ability to set a sidetone null depends upon properly setting this switch.
 3. **LATCH DISABLE:** Setting the *latch disable* switch to the *on* position will disable the latching function of the *talk* button. In this mode, the talk button must be continuously pressed while the operator is talking.

Next, we will have to modify the wiring in the V-Box, so let's see how it comes from the factory, and then how we'll fix it.

Note that the two 3-pin XLR connectors are a male and a female. They are both going to the 5-pin block as follows:



- 1) Both 3pin XLR pin1s to 5pin 5
Black wire
- 2) Both 3pin XLR pin2s to 5pin 4
Red wire
- 3) Both 3pin XLR pin3s to 5pin 3
Yellow wire
(Disregard the green wire)

This is for single channel operation on one channel only.

To modify for Two Channel operation:

- 1) Cut yellow wire from daisy chaining from the "A" XLR to the "B" XLR.
- 2) Leave the long, twisted yellow wire in #3 of the 5pin block (from XLR "B"'s pin 3)
- 3) Connect the yellow wire from XLR "A" pin 3 to pin 2 of the 5pin block.

Now you are ready for two channel operation, after installing the KB-702 into the V-Box.

