

Sigtronics Panel Mount Intercom Sidetone Modification

Intercom Models: **Sport 200** Circuit Board 1440 S/N 6202355 - to - 6202992
SPA-400* Circuit Board 1440 S/N 6053486 - to - 6069005
SPA-600* Circuit Board 1440 S/N 1101839 - to - 1102527
SDB-800 Circuit Board 1440 S/N 1151004 A & B - to - 1151485

Most aircraft radios, when transmitting, provide what is called "side-tone". Without side-tone, you will not hear yourself or your co-pilot transmit to ATC. This can be distracting, especially during instruction, because no one on the intercom will hear the out going transmission side of the radio conversation. Some aircraft radios do not provide this function, other radios are designed to drive only one headset. Therefore, if you have such a radio, the side-tone may be extremely weak or non-existent. If this is the case and the side-tone is absent or cannot be turned up in the radio(s), a simple modification can be performed within the intercom to simulate side-tone.

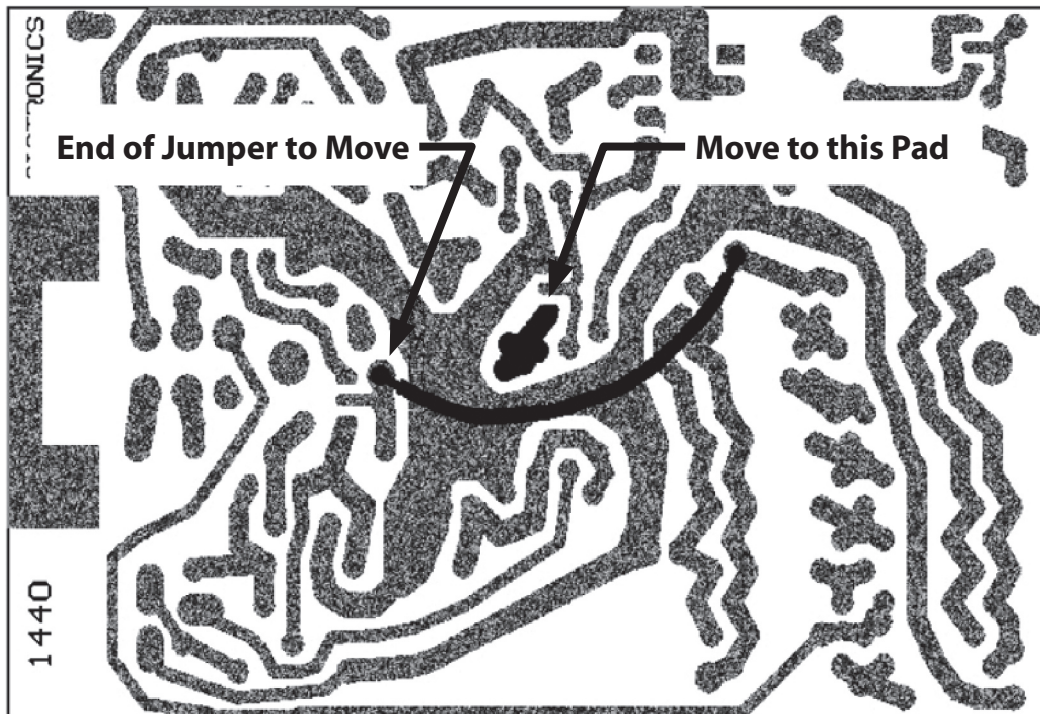
To accomplish this modification the unit must be removed from the aircraft. This is done by first removing the volume and squelch control knobs with an 0.05 inch Allen wrench. Then remove the two mounting screws and switch nut which hold the unit in the instrument panel. The unit is now free for removal from the aircraft after disconnecting the cable at the plug.

To complete the circuit board modification, remove the three screws securing the bottom cover to the case and carefully lift the cover from the case. Locate the jumper wire (usually brown in color) on the solder side of the circuit board. Note that the circuit board does not need to be removed from its case to complete the "side-tone" modification. Unsolder the wire from the solder trace at the end closest to the controls. Move the free end of the wire to the solder pad indicated in the attached drawing and solder the wire to the trace at the location specified.

Replace the cover and secure it with the three screws as before. Install the unit back in the instrument panel as before and plug the cable back together.

NOTE: With the unit modified in this way, the intercom volume control adjusts the level of the side-tone.

* Also applies to Sigtronics ST-400 and ST-600 units.



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