



Technical Note TN-SYS004
**STA6682-4H T2000 Multi-Control
Head Microphone Audio Level
Modification**

7 September 2001

Applicability.

This technical note TN-SYS004 applies to all STA6682-4H (PCB IPN 220-01680-01A) T2000 Multi-Control Heads (Master and Slave) delivered before 31/07/2001. All STA6682-4H Control Heads shipped after this date have been modified.

Introduction.

Some users have found the microphone sensitivity insufficient when operating T2000 radio's from STA6682-4H Multi-Control heads. The following circuit value changes increase the microphone audio level to match that of a standard T2000. Note that the advantage of increased background noise immunity is still retained.

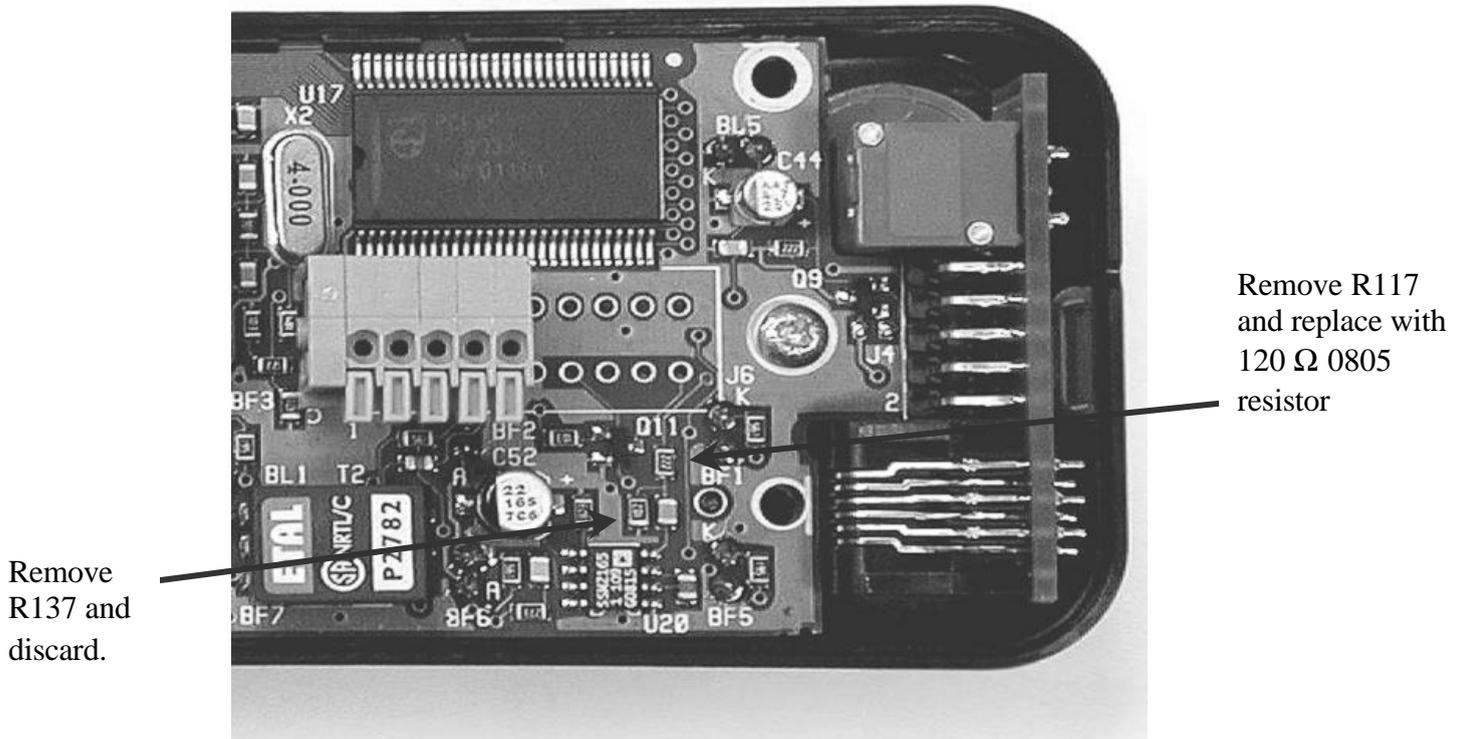
Parts Required.

Component	IPN	Description	Quantity
1200 resistor	036-13120-00	0805 SMD resistor	1

Method.

1. Unplug power supply leads, speaker leads, and microphone hook switch lead from the green connector block mounted on the back of the head.
2. Remove the plate cover and unplug the 8 way micromatch lead.
3. Remove the 4 screws holding the rear panel on to the head. Remove the rear cover. Ensure the two captive bracket mounting square nuts in are not misplaced.
4. Referring to figure 1, remove R117 (2k20) and R137 (1k00).
5. Replace R117 with a 1200 0805 Chip Resistor (as above).
6. Reassemble the head, ensuring the captive square nuts are fitted.

7. Test for correct operation. When holding the microphone approximately 15cm away from the mouth, normal speech should produce 60% FSD. Holding the microphone approximately 60cm away from the mouth, normal speech should produce less than 10% FSD.



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