Service Note		
Product	Description:	Service note no.
TC2290	**Updating TC2290 Main Board to FATR/STSA:**	**706 10 T073**

IMPORTANT: The inf. is only related to 2290's with serial no. lower than 511106. If your 2290 has a serial no. between 511106 and 511463 please only update according to point 1. 2290 with serial no. higher than 511463 do not need to be updated.

This service-information concerns update of the TC2290 main board before TC-FATR/TC-STSA can be applied. This note replaces the note called "FATR/STSA" dated 14/12-1987.

If the SA02-option which is to be used has a serial no. higher than 960130 please ignore point 7.

ATTENTION: This update must only be carried out by skilled technicians authorized by TC-Electronic.

Tools needed: A FATR updating-model of the 2290 main board which has been equipped with the updates mentioned below.

1. Replace electrolyte C607 with an 4u7/min.10V. Place it correctly with "+" against slanted stroke.

2. Replace capacitor C307 with a 10nF ceramic.

3. Take out resistor R341 on 4k7. Replace with 2 resistors of 3k9 and 560R as shown on the main-model. Solder + of a tantalum of 0.22uF onto the middle of the 2 resistors. Solder a wire from of the tantalum to the hole placed right between the pins of C307 (the wire may also be soldered onto the right pin of C307).

4. Now fasten the small PCB with a 8-pin socket left of connector J6 with double adhesive tape. It is very important that the circuit-board is installed quite closely to the electrolyte C308 and closely up against the resistor R341 in order not to collide with connector J6 or MEXX PCB, if any.

5. Now mount wires 1-7. Before soldering wires 1-2 on remove capacitor C617 (it is not needed anymore). Before soldering wires 3,4 and 7 on remove some of the green lacquer on the PCB. Just solder wires 5-6 onto pins 1 and 7 of IC12.

    For two reasons it is very important that the wires are placed exactly as shown on the model. If wires are not placed correctly:

    1. There will be Crosstalk of digital noise to the analog signal-path.

    2. There will not be room enough for the stag from the converter-board to the right of connector J5. Finally, glue wires on. Use Loctite type 460 in a syringe applied with a thin needle.

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6. Cut track from IC12/pin1 (see black speed marker circle on back of the main board).

7. Change electrolyte C4 to 4,7uF/min.10V on small SAO2 option-board (the board that is placed vertically in connector J8). Please see enclosed component arrangement/diagram/sparepartslist covering SAO2.

8. If IC19 are not mounted in a socket (main boards with serial no. lower than 510884), you now have to solder a 14-pin socket into the main board.

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