

A20 Modification Regarding Remote

This solves problem with misunderstanding remote control commands

Pre Work:

Make sure the amplifier is not connected to the mains.

Remove the cover.

Remove the two toroid transformers.

Remove the IDC-connected flat cable, that connects the front with the main board.

Remove the front, unscrew the eight nuts.

Remove the display card, 2 screws.

Solve the problem:

Try first with changing the ceramic oscillator (crystal) X1, this usually

Solves the problem. The crystal is a Murata 12Mhz Ceramic Oscillator (CSA12.00MHZ).

If it still is to bad, do the following:

Processor =U3

Cut the signal trace from the Ir-receiver, between R5 and the via-hole.

(Not between R5 and the receiver). Cut it also in the other end, pin 6 Processor.

Solder a wire (use 0.75") between the output of the Ir-reciver and pin 6 processor.

Solder a wire (use 0.75") between the ground of the Ir-reciver and pin 10 processor.

Solder a 0.1uF capacitor between the 2 bottom pins Ir-reciver.

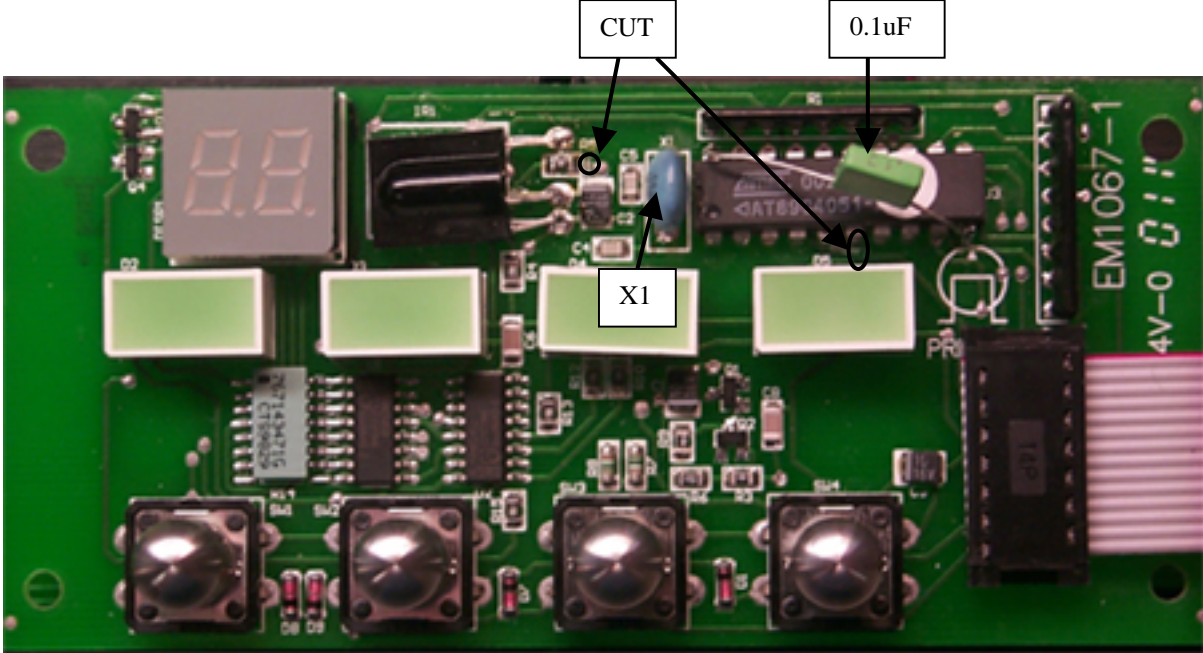
Solder a 0.1uF capacitor between pin 10 and 20 processor.

If It still is problem:

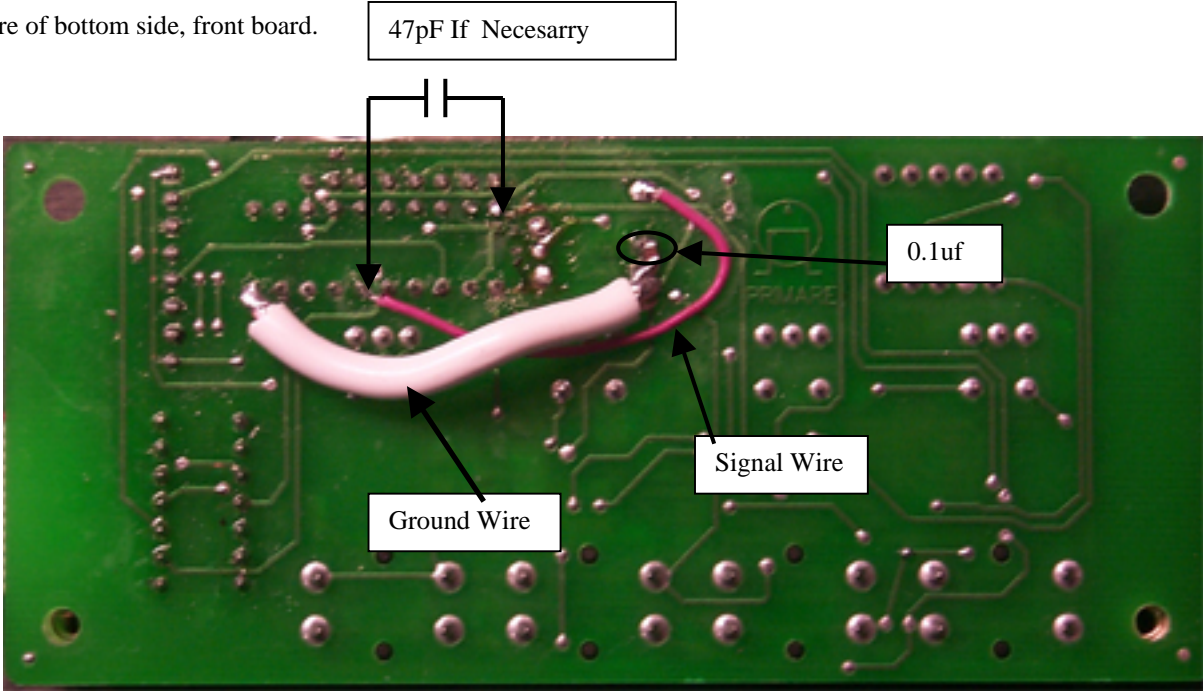
Solder a 47pF capacitor between pin 6 and pin 20 proc. This lowers the sensitivity of the remote control but if nothing else works.....

Remember, any system can misunderstand remote control commands, especially at low signal level.
But It should not happend all the time.

Picture of top side, front board



Picture of bottom side, front board.



Best Regards
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