

CCM Board 5 modification for Clock

1. Remove the 3 screws from the front panel of the CCM
2. Remove the nuts from the 4 screws on the side of the CCM
3. Lift off the Top plate.
4. Remove the 4 aluminum standoffs from PC board 1.
5. Remove PC board 1.
6. Remove the 4 aluminum standoffs that were below PC board 1.
7. Remove the aluminum channel.
8. Remove the 4 aluminum standoffs that are above PC board 5.
9. Remove PC board 5.

The PC boards are connected together with board to board connectors – don't flex the boards pulling them apart.

PC board 5: picture shown below.

10. Lift pin 7 of U15 to disconnect it from the board. Heating the pin and pad should allow you to lift the pin. Make sure there is no connection from the pin to the board or between the other pins.
11. Cut a wire to the desired length and strip both ends.(Once you figure out the length you need – it will be easier to make a number of precut wires)
12. Solder one end to the pad of U15 pin 7. Again make sure it isn't touching the other pads or any pins.(It shouldn't connect to pin 7 of the IC)
13. Solder the other end to U5 pin 6 or 7 or both.
14. Make the wire lay flat on the board similar to the picture shown below.
15. I used some of the thermal putty to tack it down. The thermal putty is used on the board's components to transfer heat to the aluminum shell.
16. Visually inspect the board before putting the board back into the aluminum shell.
17. Put Board 5 back onto the 4 screws of the CCM, make sure the board to board connectors line up and are fully seated.
18. Put the 4 aluminum standoffs back in above PC board 5.
19. Install the aluminum shell back on.
20. Put the 4 aluminum standoffs back in that go below PC board 1.
21. Put PC board 1 back onto the 4 screws of the CCM, make sure the board to board connectors line up and are fully seated.
22. Put the 4 aluminum standoffs back in above PC board 1.
23. Put the top plate back on.
24. Install the 4 nuts onto the screws.
25. Install the front panel and 3 screws.
26. The unit should be tested to verify that it works. You could use the CCM Debugger program the Serguei Sergueev made along with a test crate or into some type of test stand.

