

Hermes/Angelia Daughtercard Installation instructions:

The Hermes/Angelia Daughter card provides automated switching of the internal/external clocks and adds a 100PPB 10Mhz TCXO (if ordered), please note that installation of the daughtercard is relatively simple and only one 0805 resistor R142 needs to be replaced with a 330E resistor supplied with the kit, please DO NOT attempt this upgrade if you are not comfortable soldering SMDs or do not have adequate technical experience.

Please follow the ANAN disassembly instructions 100W rigs:

1. Remove all external connectors and cables.
2. Place the unit on a workbench which will provide sufficient room to open the unit up to twice its length and width.
3. Remove the nuts and lock washers from all the BNC connectors and the SMA connectors. Do NOT remove the attaching hardware for the PTT OUT, or ACC PORT connectors.
4. Remove all the Phillips-head screws from the front and back panels. Use a good #1 Phillips screwdriver so as to not damage the screw heads.
5. Turn the 100 on its side so that the top is facing you and the front panel is to the right.
6. Swing the front panel to the back. This will allow the bottom plate to slide to the left (toward the rear of the unit) without over stressing the wiring to the front panel power switch.
7. Route the coax bundle over the top of the cooling fan (toward you). The wire bundle will remain stationary while the bottom plate with the attached Hermes board slides left (aft).
8. Carefully slide the bottom plate to the left (aft) in order to expose the SMA connectors on the Hermes/Angelia board. This will also expose the board connector for the Accessory jack.
9. Unplug the accessory cable and the 10 pin Alex control ribbon cable from the Hermes board. Note the position and orientation of the 10-conductor ribbon cable near the center of the Hermes board. Remove the ribbon cable.
10. Carefully disconnect the SMA connectors on the coax bundle from the connectors on the Hermes/Angelia board.
11. Set aside the back panel out of the way.
12. Release the lock retaining the power switch to the steel push button. This will free the front panel . Set it aside.
13. Unplug the 2 wire connector between the power supply board and RF amplifier board.

14. You can now slide the bottom plate with the attached fan, power supply, and Hermes board completely clear of the case.
15. Cut the cable ties and free the coaxial cables.
16. Slide the middle shielding plate completely clear of the case.
17. Cut the cable ties securing the ferrite bead on the middle shielding plate and holding the ribbon cable in place.
18. Replace the old cable and secure with the new one.
19. Remove the coaxial cable number 5 from the power amplifier board end and replace with the new cable.
20. Re-harness the coaxial cable with the provided new cable ties.
21. Assemble back in reverse order starting with the middle plate. Attach the coaxial cables and the 10 pin ribbon cable. Slide the bottom plate and connect the 2 pin molex power connector to the PA board..
22. Snap fit the switch section of the power switch to the front panel and fix the panel with the Philips screws.
23. Connect the ACC port ribbon cable.
24. Place the back panel and assemble nuts and lock washers from all the BNC connectors and the SMA connectors.
25. Power up and test the radio and install the back panel screws.

The daughter card should be installed after replacing R142 with the supplied 330E resistor and all jumpers must be removed from the clock section, install as shown in the below picture and solder all the berg pins to the daughter card.

Hermes



