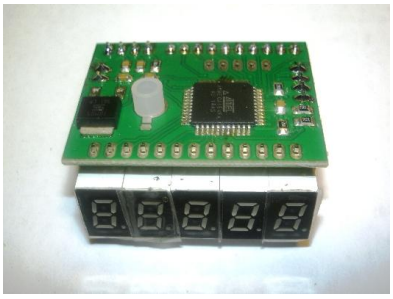
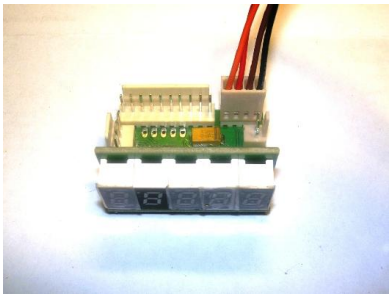
Conversion President Adams to Frequency Display

1. Placing the module

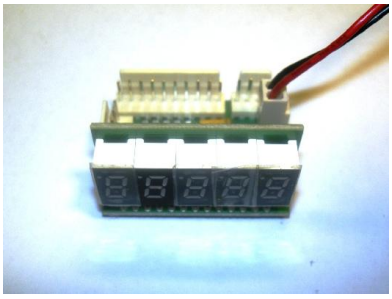
Remove channel selector and channel display from the radio. Also remove the bracket between board and chassis to get the hole free. Cut the window for the display in the metal chassis to get space for the module. Mount the module to the free hole using the 5mm spacer. Mount the new rotary encoder with the small board and 2 screws so that it is in the middle. Connect it to the module as shown in pic2. Do not mix up with the other 4pin connector. Connect power 9V to the 2pin header in pic3 via a 47R (1W) resistor, take care of direction as shown in pic4. Find +9V on the light (TR707), but modify the dimmer for not to fall below 5V by changing (increasing) R717. Best value must be tried out!



Pic1: module and spacer



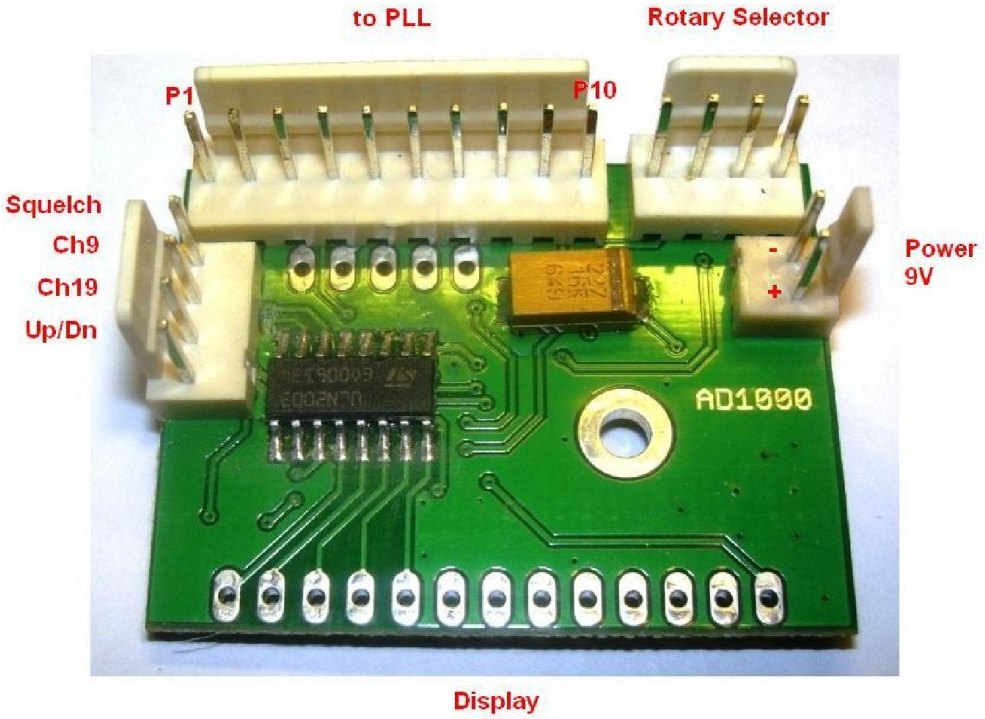
Pic2: Conn. rotary selector



Pic3: Conn. Power

2. Connecting the module

Open the pins 13-22 of the the pll uPD858 of the radio. Then connect 10 wires from the 10-pin header of the module to these 10 pins of the pll. Connect P1 to pin 13, P2 to pin 14, … , P10 to pin 22.
Open pin7 of the pll and connect it to GND.
Connect the 2 switches, ch9 and ch19 to the pins of the 4-pin expansion header to switch to 5-12V. Connect 2 diodes from the scan-switch to switch both ch9 and ch19 to 5-12V for scanning, which is now a real scanner.
Do not mix up with the header for the rotary encoder otherwise this can destroy the module.
Connect the squelch-wire from the module to pin3 (IC701). Open pin13 (IC701) and connect it together to pin14. Also connect pins 1 and 2 (IC701) together).
Up/dn on the mic can be used, connected directly to the mic jack (when GDCH norm).



Pic4: The pins on the module

3. Finish the radio

Remove the glass face from the plastic frontcover of the radio. Then cut the window of the display in the plastic cover to fit the 3mm red filter glass. Use some strips of a double sided adhesive tape to mount the new face to the front.

4. Technical details:

Power supply: 8-10V
Frequency range: 26.200 to 27.995 straight
Tuning steps: 5k, 100k
Channel mode: 1-40, normal as before + UK40 (27.600 to 27.990)

How to use:

Press rotary encoder for 1 sec. to switch between channel- and frequency mode.
In frequency mode, press rotary encoder shortly to switch between 5k and 100k tuning steps.
In channel mode, press rotary encoder shortly to switch between normal EU channels and UK channels (shown by dot).

Changing ch19 (M1) memory channel:

Press and hold rotary encoder while powering the radio on and then release it. The display flashes. Now choose the wanted channel and press rotary encoder again. The channel is stored and can be switched by M1 (Ch19) switch.