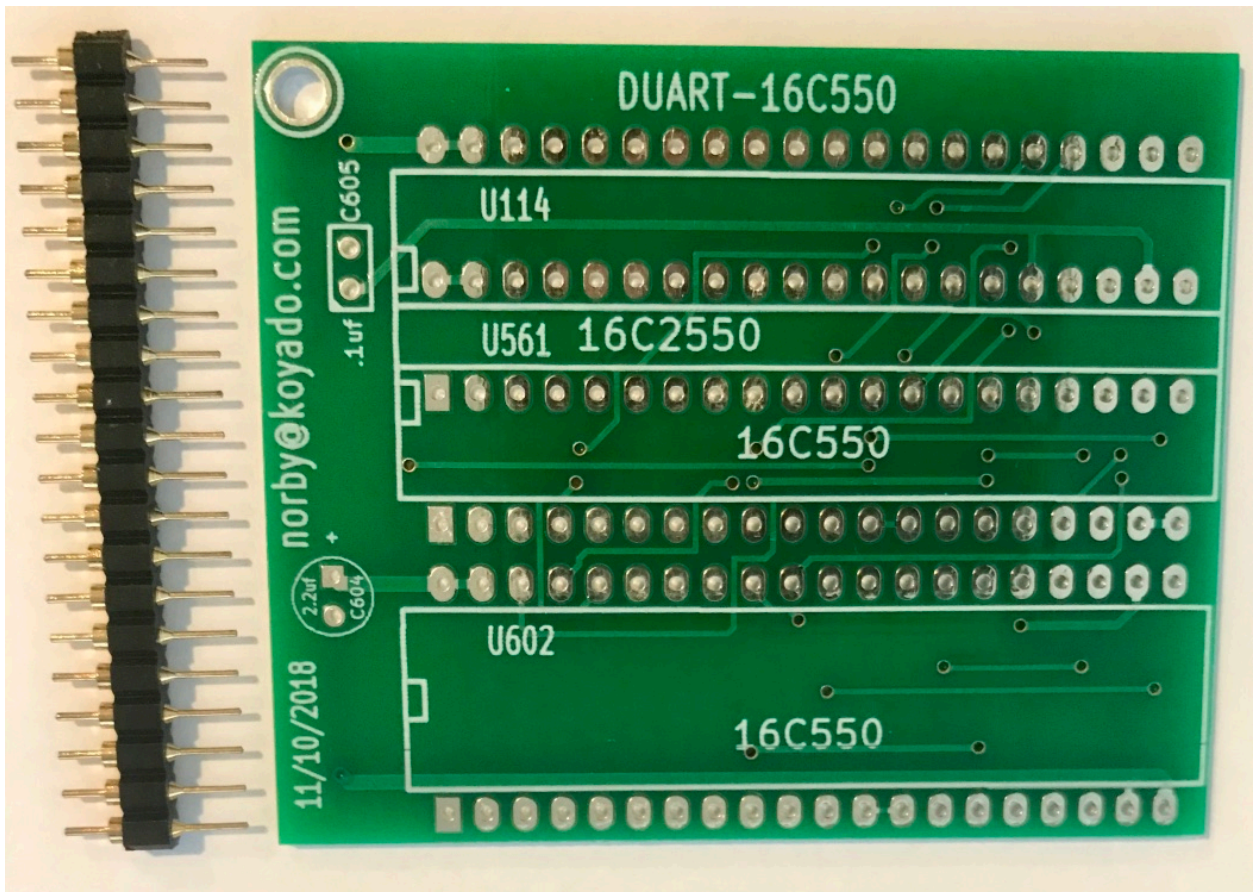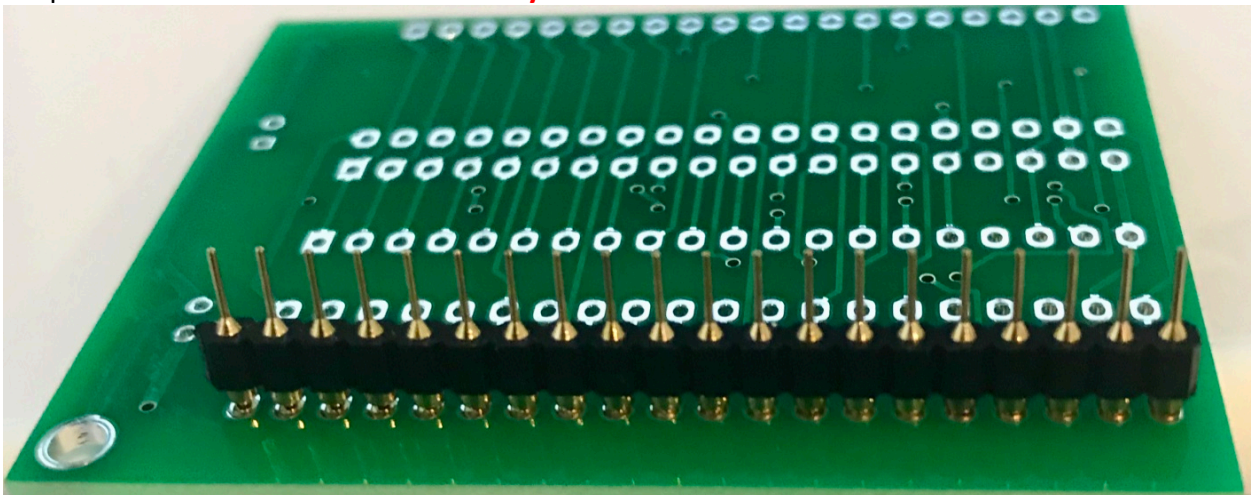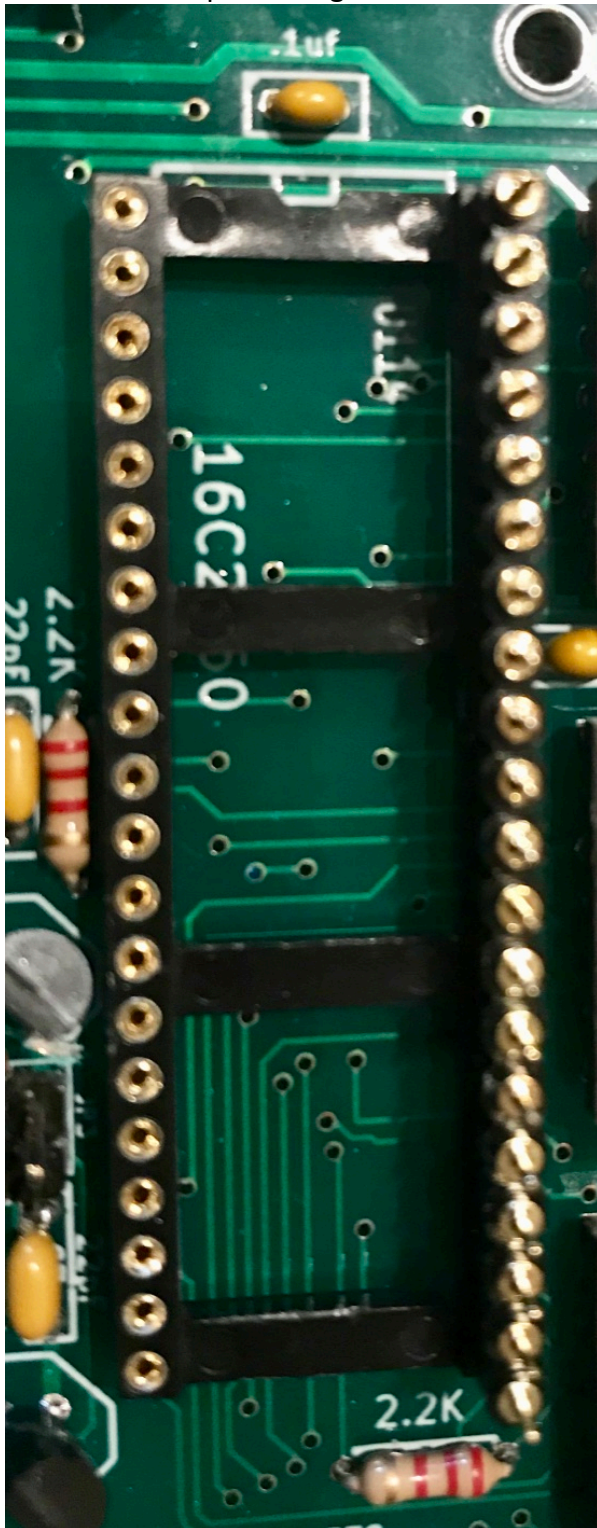# H8-Z80-V3.1 DUART Assembly instructions.

1. Get a 40-pin header ,single row male, 40 round precision machine pins. Refer to the Z80 V3.1 BOM file for proper P/N.
2. Locate DUART module as shown below.

3. The round pins will be soldered to the DUAL board as shown below. This is important to keep in mind. **Do not solder the header yet.**
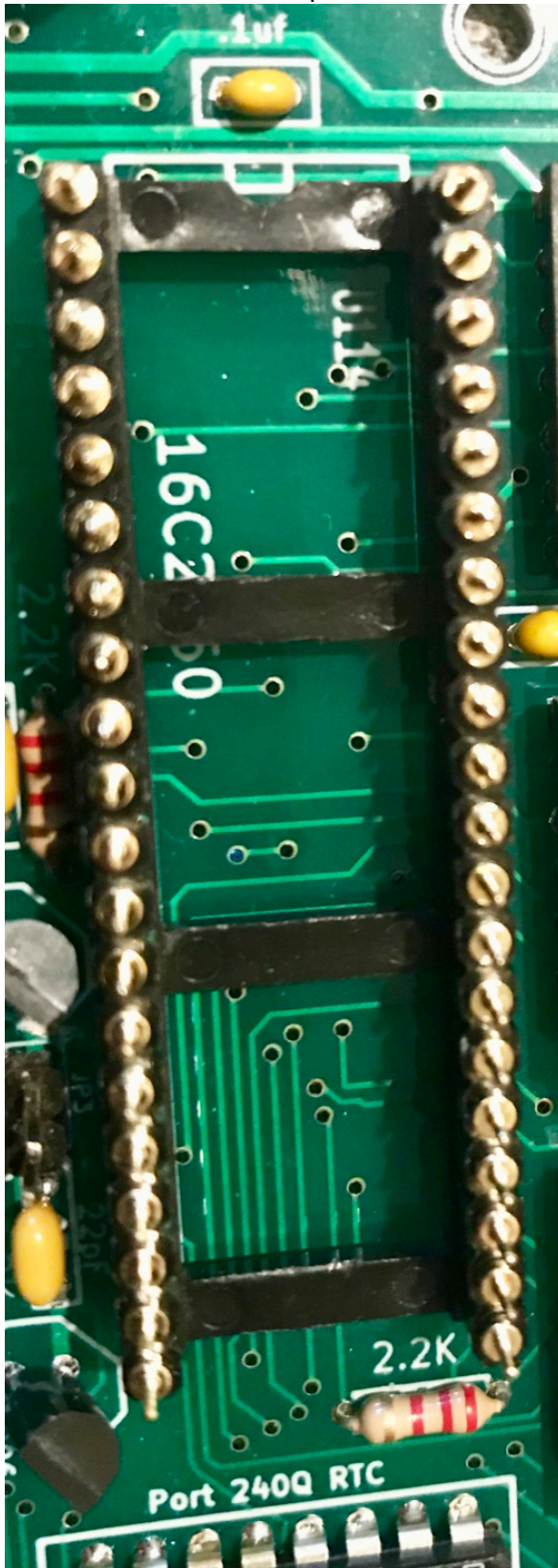
4. Locate on the Z80 board U114 DUART 40 pin machined socket. Insert the 20-pin header with the round pins facing out as shown.
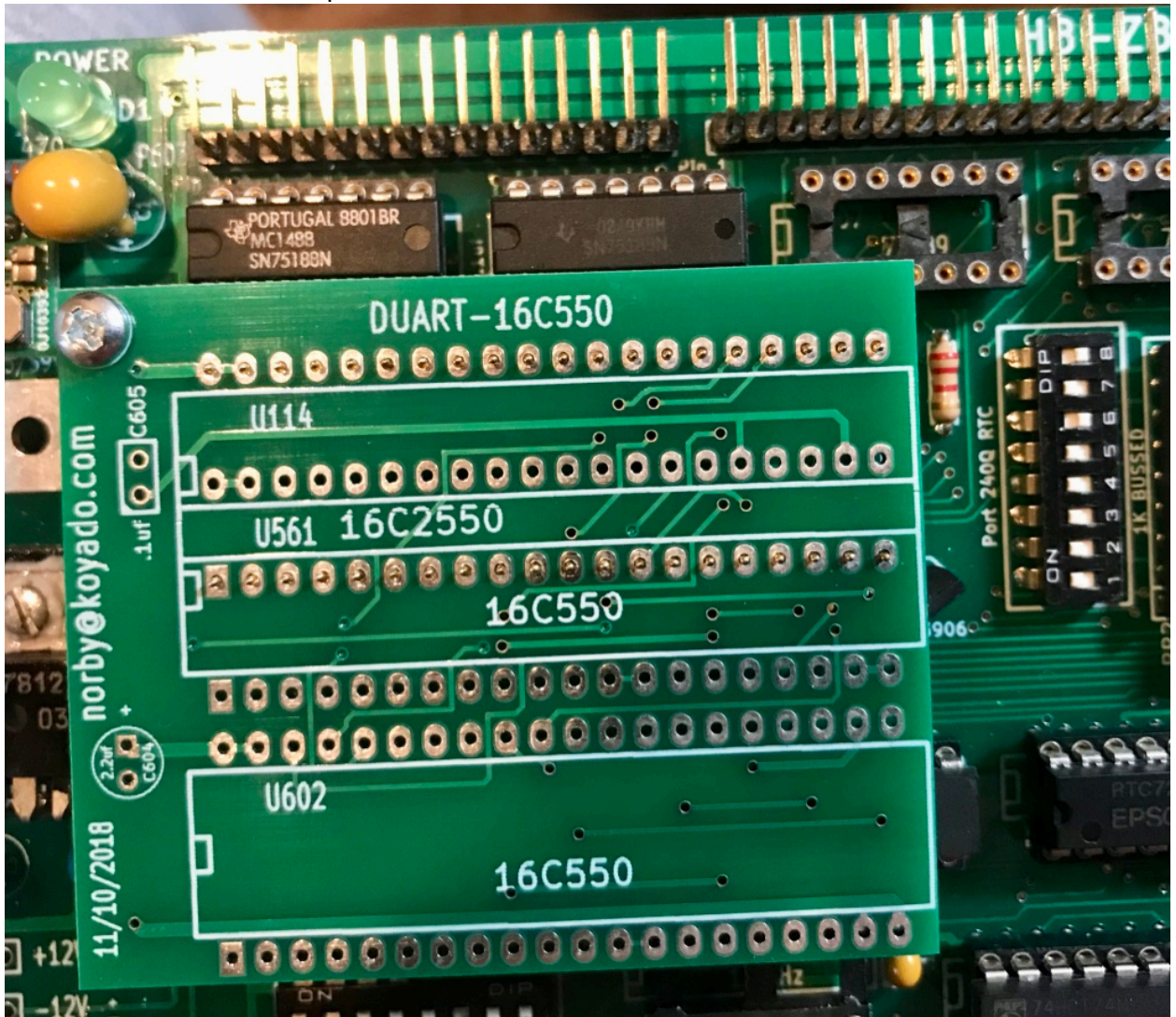
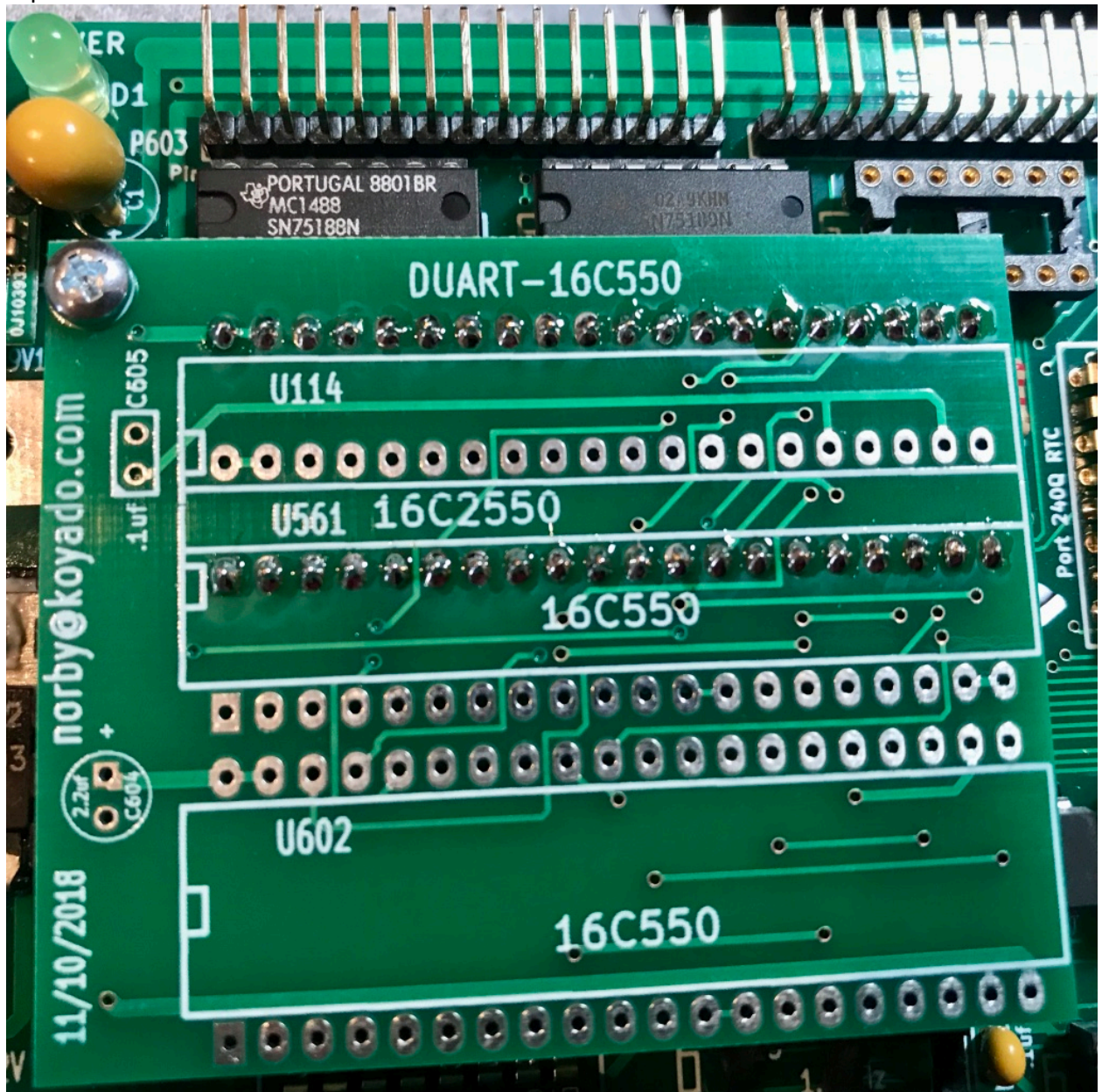5. Insert the remainder 20-pin header as shown below.

6. Placed DUART board on top of U114 as shown below.

7. While pushing down on the middle of U114, solder the 2x20 male pin headers from the top of the board as shown below.

8. Carefully remove the DUAL module from U114.
9. Proceed to solder U561 and U602 40 pin machined sockets.
10. Solder 2.2uf and .1uf caps needed to support 10MHz operations.
11. Insert both 16C550 or PC15550DN into U561 and U602.
12. Carefully insert DUART board into U114 socket.
13. Connect serial cables.
14. Power-up Z80 board and U561 UART will be initialized by the new PAM-37 monitor.

15. Enjoy your new hardware.