

HOW TO CONNECT DISPLAYS TO Trxavrb WHEN USED WITH 'COMBO'

These drawings are currently DRAFT only versions.

They refer *ONLY* to the Trxavrb PCB which is supplied with the "Combo BB" panel. Note there are some variations to the connector pinout over that used on the Trxavrb panel supplied in 2009. I had to rationalise the pinout.

PLEASE verify pinout of the display you are using with these drawings before connecting them up.

Displays are expensive and you can easily destroy a display or even the Trxavrb PCB with incorrect interconnect.

Refer also to Ian, G3VPX's pages. Ian has found some displays have the 5v and gnd pins reversed, for example !

vk3pe

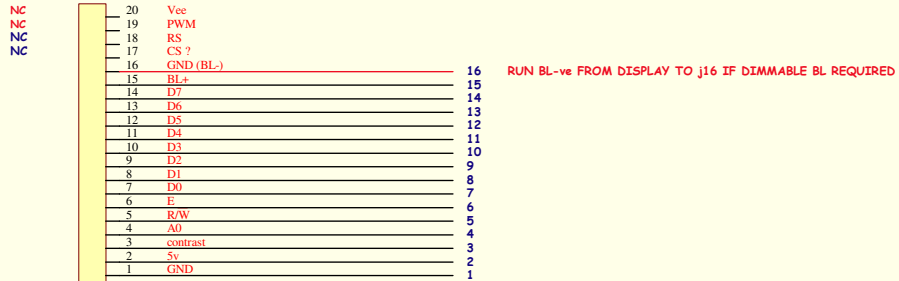
28th March 2010

DISPLAY INTERCONNECTION DETAILS FOR Trxavrb on COMBO panel only

SIMPLE Trxavrb (COMBO) TO 4X20 lcd DISPLAY

J6 on 'simple' Trxavrb on Combo Panel

LCD THIS IS A GENERIC CONNECTION PINOUT



20pin dual row IDC socket

SIMPLE Trxavrb (COMBO) TO COLOUR (TFT) DISPLAY

DRAWING SOON BUT LINK BELOW IS OK.

Or, goto www.carnut.info, then slect Trxavrb, and scroll down to the Interconnection area.

NOTE:- the other diagrams there will not suit Combo Trxavrb directly, as a different connectr is fitted on Trxavrb (J6)

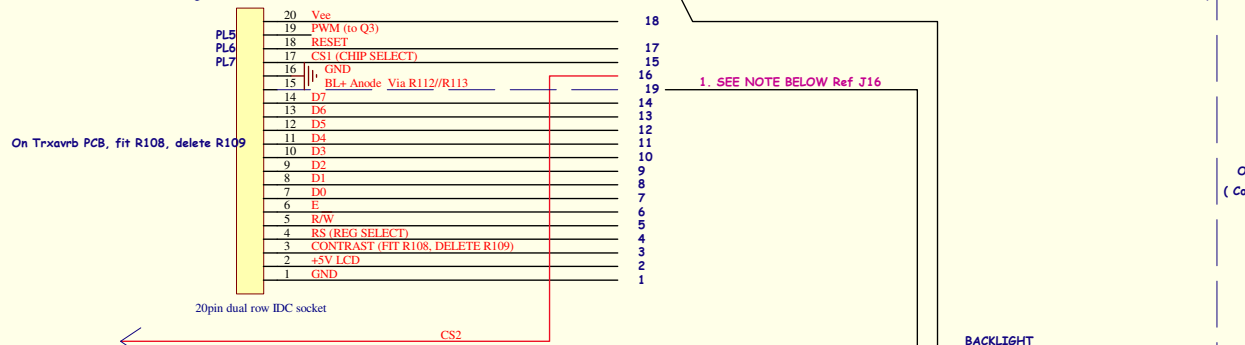
http://www.carnut.info/star-parts/TrxAVR_interface_pcb/Schematic/%27ASSEMBLY_ELECTRONICS%27-COLOUR_TFT_WIRING_DRAFT_270809.pdf

!! DISPLAYS ARE EXPENSIVE !!! VERIFY THIS INFORMATION WITH THE DISPLAY YOU ARE USING BEFORE CONNECTING TO Trxavrb

SIMPLE Trxavrb (COMBO) TO 128x64 GRAPHICS DISPLAY

THIS IS Lumex 'LCM-X128646XX' PINOUT. CHECK YOURS !

J6 on 'simple' Trxavrb on Combo Panel



20pin dual row IDC socket

RUN WIRE TO POINT 'G' ON Trxavrb PCB. This is pin 39 of 'IC1'

J16 ON Trxavrb

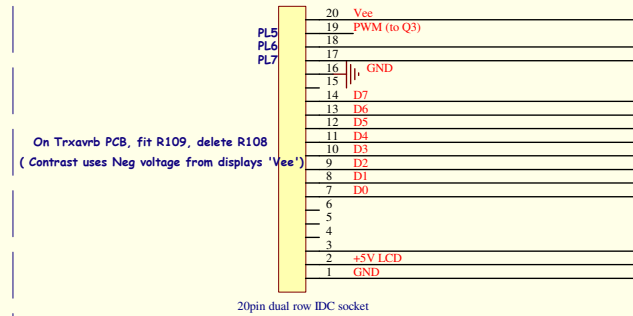
3 PIN single row SOCKET

BACKLIGHT

DISPLAY BACKLIGHTING

SIMPLE Trxavrb (COMBO) TO 320 x 240 GRAPHICS DISPLAY

J6 on 'simple' Trxavrb on Combo Panel



20pin dual row IDC socket

CONNECTIONS NOT YET COMPLETED !

DRAFT ONLY 26th March, 2010

CONNECTORS SHOWN HERE ARE NOT IN THE BOM

Sheet:	SCHEMATICS BY VK3PE & C.S.	
1 of 1	TITLE:- H:\COMBO-SCHEMATIC-PROJECT-121109\DISPLAY CONNECTION DIAGRAMS\	
	"VK3PE"	Vers DRAFT MARCH 2010

THIS WIRING IS FOR THE 'ELECTRONICS ASSEMBLY' TFT DISPLAY ONLY

This display has two 20 pin single in-line connectors.

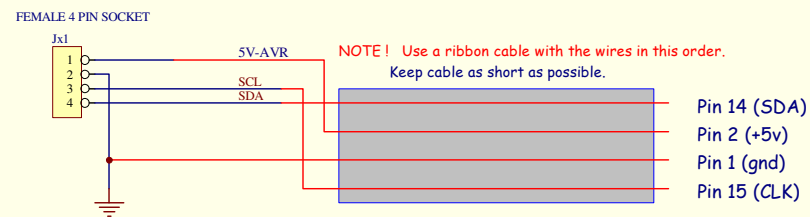
The Connector numbered 1-20 is used for connecting to TrxAVRB

PLEASE VERIFY CONNECTIONS WITH THE DATA SHEET FOR THE DISPLAY YOU HAVE.

IF IN DOUBT, PLEASE ASK !

**A 4 WAY RIBBON CABLE CONNECTS FROM Jx1 ON TrxAVRB
TO THE 'ELECTRONICS ASSEMBLY' COLOUR TFT DISPLAY.)**

PLUGS INTO 'Jx1' ON TrxAVRB PCB



20 PIN SOCKET PLUGS INTO DISPLAY

Also:-

Pin 5 (reset) tie to +5v with 6k8 resistor.

Pin 12 (I2C mode), tie to GND

Option: Pin 16 can drive a buzzer, via a transistor for touchpad audio indication.

THE CONNECTORS SHOWN HERE ARE NOT ON THE BOM.

Title		
Trxavr COLOUR CONNECTIONS		
Size	Number	Revision
B		DRAFT
Date:	26-Aug-2009	Sheet of
File:	F:\TrxAVR PCB\Trxavrb_COLOUR_TFT_DISPLAY_CONNECTIONS_1.Sch	