

T41-EP SDT v12 Display Kit Assembly Manual

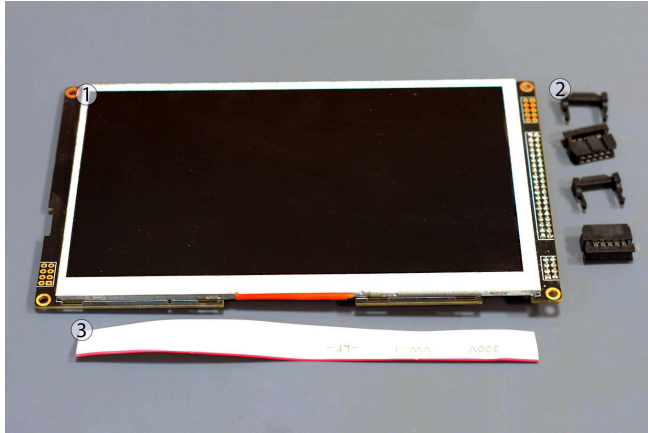


Figure 1. Parts included in Display Kit

The display kit is the simplest of all the T41 modules. It's just the display in your chosen side, a bit of ribbon cable, and a couple of IDC connectors. This manual covers connecting the display to the T41 main board.

What's Included (Parts List)

1. (1) Display Module
2. (1) 15cm (6") Ribbon Cable
3. (2) 2×5 IDC Connectors

You Will Need

1. Vise or Mallet
2. Scissors
3. Angled Snips

Missing a part? Send an email to justin@ai6ym.radio.

Remove Display Pins

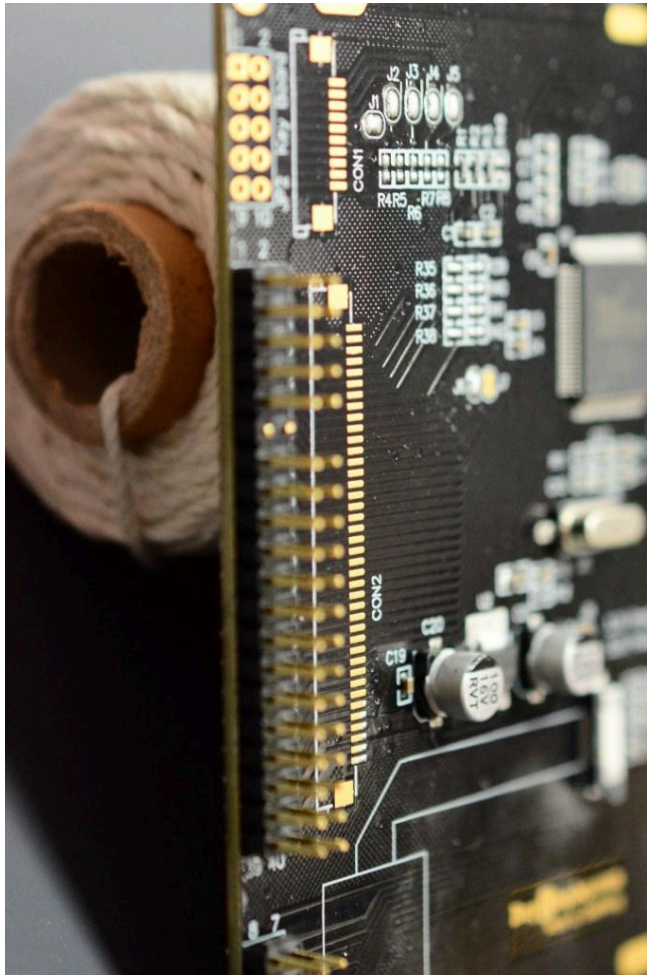


Figure 2: Pins removed from JP3.

Remove pins 11 and 12 on *JP3* of the display module. This can be done just by snipping them off as close to the base as possible.

These pins are unused, removing them makes room for the IDC connector to mate on pins 1-10.

Make the Cable

First cut the ribbon cable to the shortest possible length that will reach from your display to the main board. A length of 8cm (3") or shorter is best.

Crimp the first connector onto the ribbon cable with the key (the bump in the connector) facing out (away from the ribbon cable).

The connector can be crimped simply by opening the two parts slightly, sliding the ribbon cable through (be sure the red strip is aligned with the triangle marking on the connector), and then squeezing the two parts together.

A vise or small mallet can provide the force needed to puncture the ribbon cable and complete the connection.

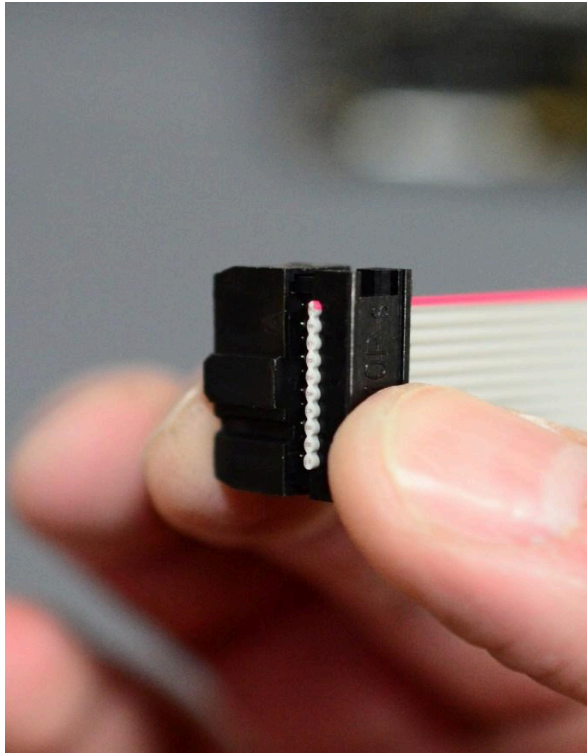


Figure 3: First display connector crimped.

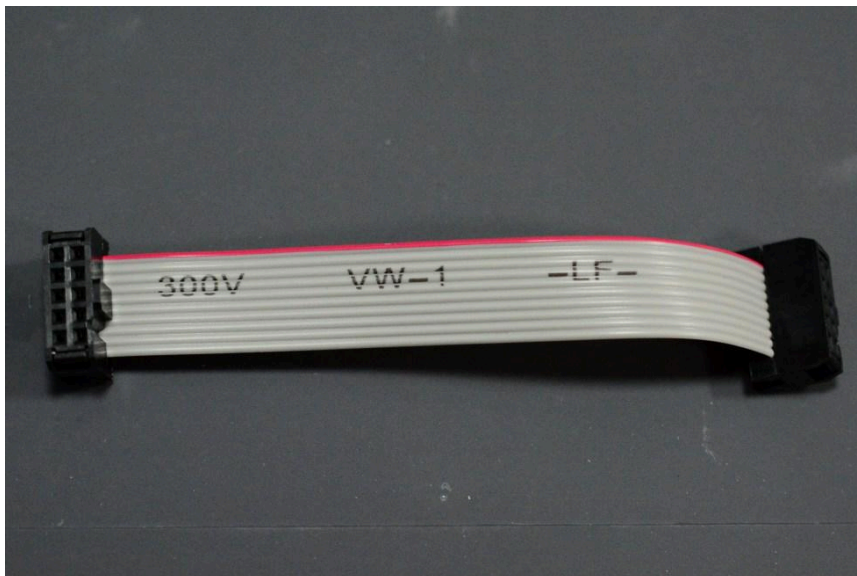


Figure 4: Completed display cable.

Crimp the second connector with the key facing in (toward the ribbon cable). The completed cable should look like figure 4.

This arrangement of connectors allows the cable to make a small S and connect to the main board.

I recommend against using the strain reliefs, although I have included them. The extra length of cable required is undesirable.

Connect the Display

Seat the first connector (with the key facing out) on the display module's *JP3* pins 1-10 as shown in Figure 5. Connect the other end to your main board's *Display* header.

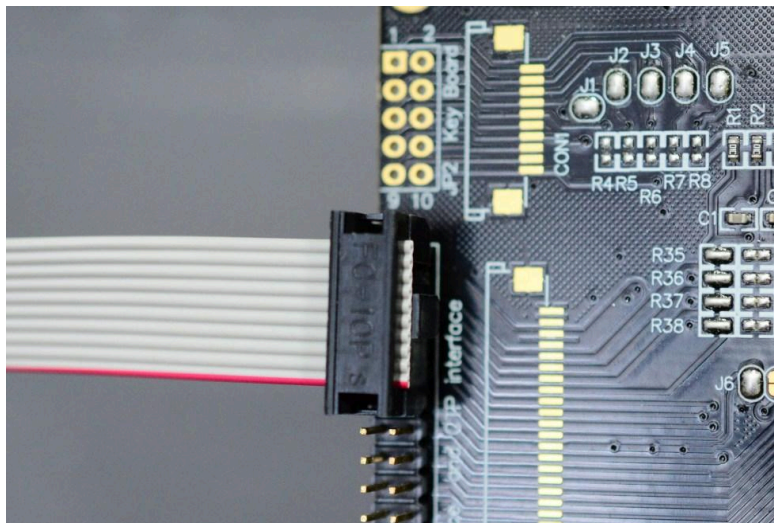


Figure 5: Cable connected to display module.