



Addendum to [Fab@Home](#) Assembly Instructions

Part No. C-4 – Interface Board

To properly implement these parts, the following changes must be made to the [Fab@Home](#) assembly instructions. In most cases, the assembly is simplified.

Chapter 10 – Model 1 Cables, Section 10.1 – Power Supply Cable:

- Disregard these instructions. The power supply connector should remain intact.

Chapter 10 – Model 1 Cables, Section 10.4 – Ribbon Cables:

- Disregard these instructions. Ribbon cables are no longer required.

Chapter 10 – Model 1 Cables, Section 10.5 – Amplifier Enable Cable:

- Disregard these instructions. The amplifier enable cable is no longer required.

Chapter 11 – Assembly Tips, Section 11.5 – Making IDC Ribbon Cable Connectors:

- Disregard these instructions. Ribbon cables are no longer required.

Chapter 18 – Electronics Assembly, Section 18.3 Attach the Enable Cable to the Winford Board:

- Disregard these instructions. The Winford board is no longer required.

Chapter 18 – Electronics Assembly, Section 18.4 Mounting the Boards, Electronics Assembly Step 2:

- Disregard these instructions. The Winford board is no longer required.

Chapter 18 – Electronics Assembly, Section 18.4 Mounting the Boards, Electronics Assembly Step 4:

- Disregard these instructions. The Olimex Microcontroller Board will be mounted elsewhere.

To connect the Olimex Microcontroller Board to the Xylotex Motor Amplifier Board:

- Figure 1 shows the C-4 Interface Board.
- Make sure that the limit switch connector on the Xylotex board is oriented to the side as in Figure 2. If your connector points straight out, re-orient it by simply unplugging, rotating to the side, and reinstalling.
- Insert the female 26-pin IDC and 4-pin amplifier enable connectors on the C-4 Interface Board into the male 26-pin IDC and 5-pin amplifier enable connectors on the Xylotex Motor Amplifier Board as shown in Figures 2 & 3.
- Connect the power leads from the C-4 Interface Board to the Xylotex Motor Amplifier Board as shown in Figure 3. Be sure to install the black lead to the left and the red lead to the right (VBB).
- Insert the 2 female 26-pin IDC connectors on the Olimex Microcontroller Board into the 2 male 26-pin IDC connectors on the Interface Board as shown in Figures 4 & 5.
- Once the installation is complete, use the USB and power jacks on the C-4 Interface Board to make power and control connections.
- Use power taps at the top of the C-4 Interface Board to connect auxiliary equipment (e.g. 2nd tool & fan motor, UV LED, *etcetera*).
- Connections for additional tool upgrade are labeled and located on the lower left of the board.



Figure 1. Koba C-1 Interface Board.

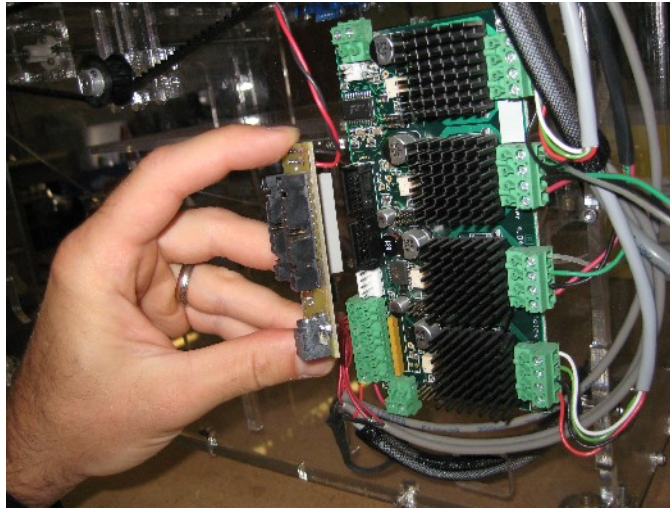


Figure 2. Lining up the C-4 Interface Board.

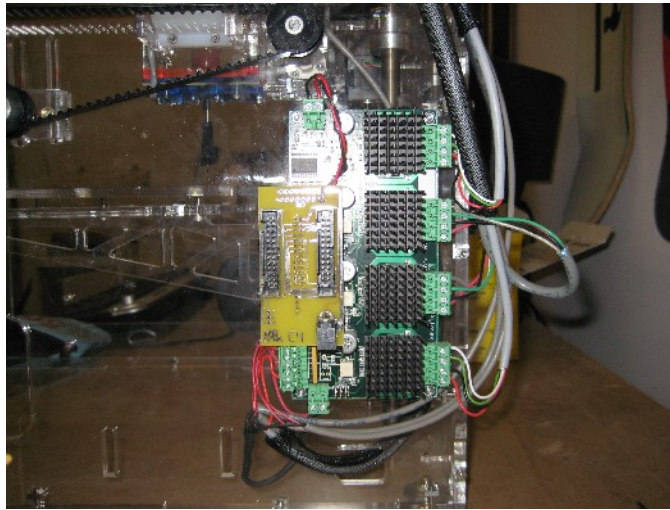


Figure 3. C-4 Interface Board installed.

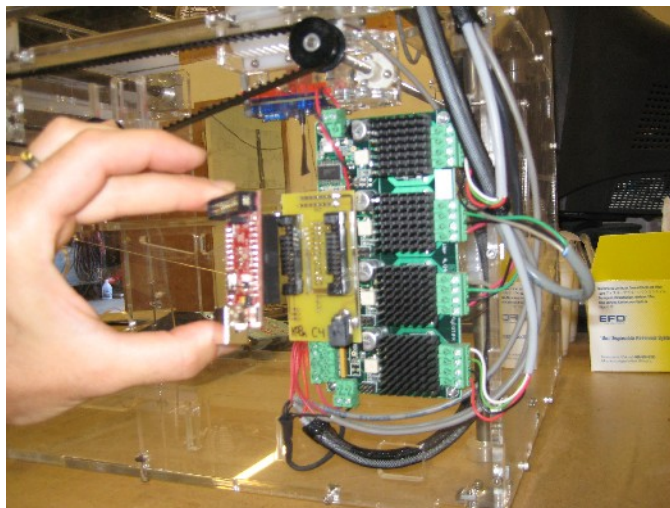


Figure 4. Lining up the Olimex board.

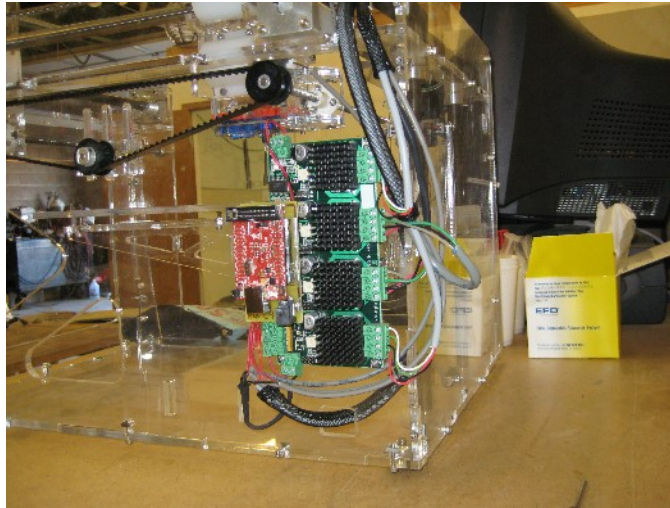


Figure 5. Installation complete.