Building the 16 pin ribbon cable for the H8-Z37 and H89-Z37 boards.

1. Order from Jameco (**Part no. 42674)** two 16 pin position IDC connector as shown below.

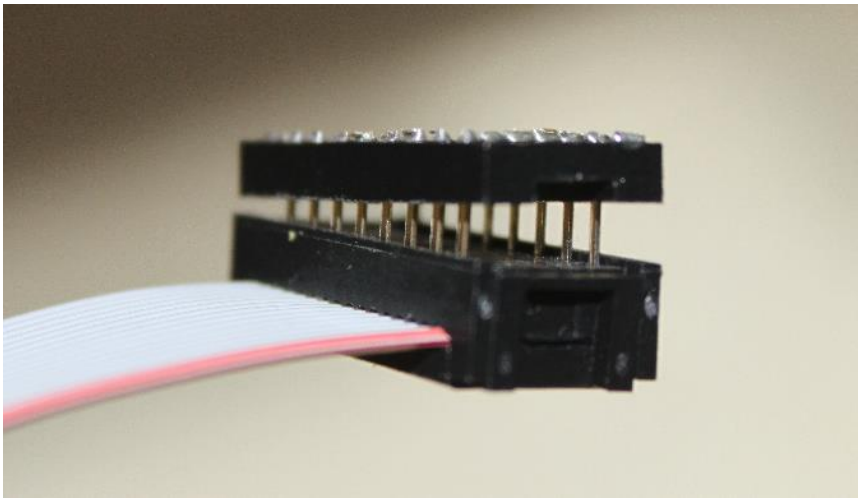
2. Order from Jameco (**Part no. 643532)** cable Ribbon 16 conductor.

3. Crimping tools to build-out the cable. Also you can use a plier and a small G-Style Clamp as well.

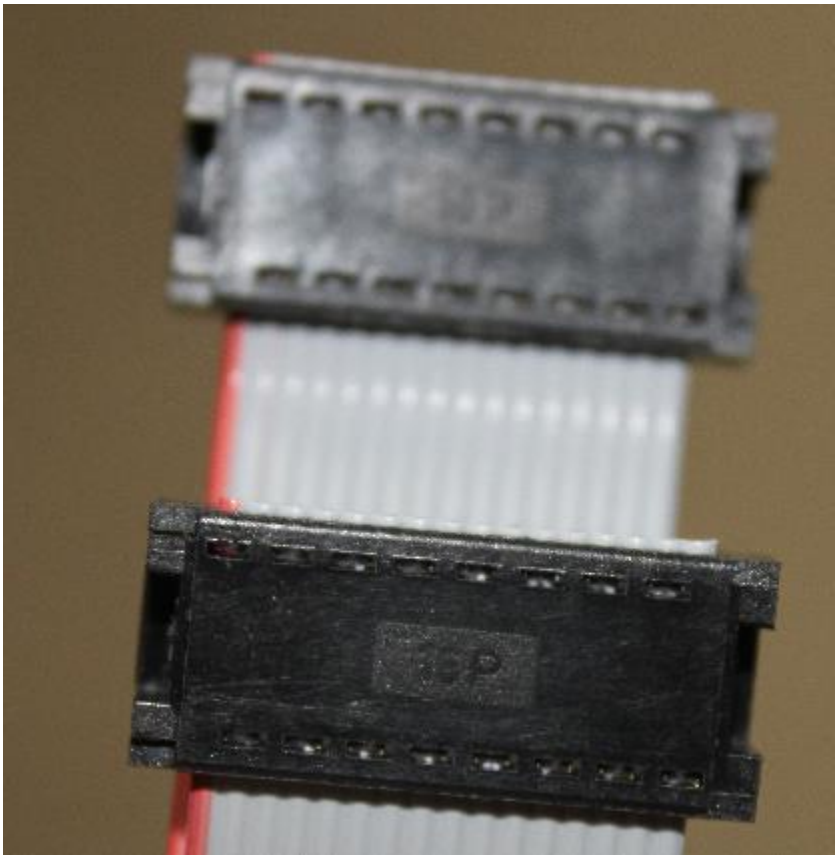
4. To crimp you will need some pressure, but you do not want to damage the pins in doing so. So you can sacrificed a 16 or a 20 pin machine tooled low profile IC socket by cutting the pins which we are going to use to protect the 16 pin IDC header pins. Insert the ribbon cable and pushed together using any of the above crimping tools. The ribbon cable cannot be no more than 14 inches long. Please make sure that pin 1 on both sides of the cable matches pin one of the connector with same wire color. In the picture below pin 1 is the brown cable and it aligns with the 16 pin male IDC pin 1 connector.

Pictures on building a cable:

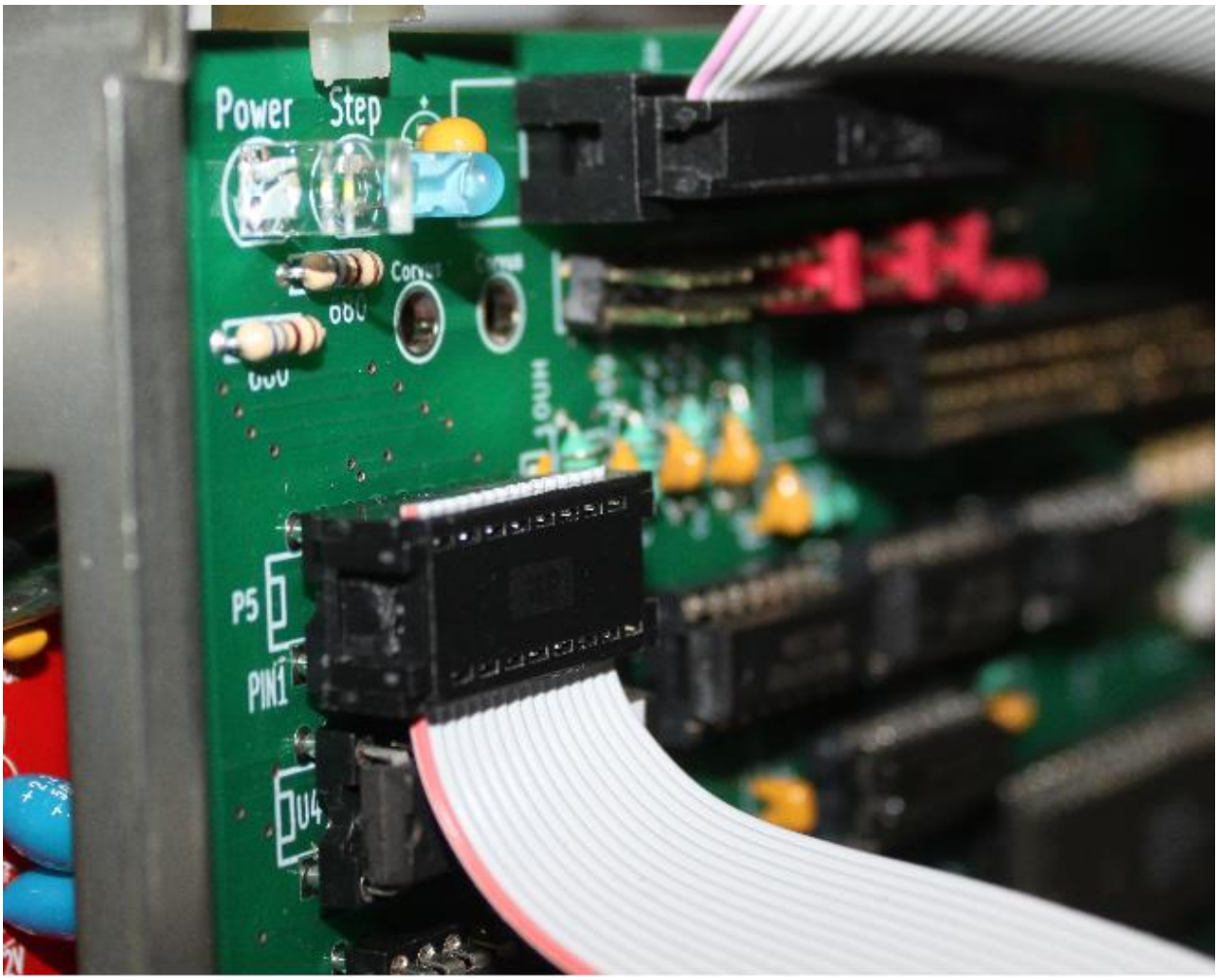
Note: Please use a 14 inch cable to support a fully populated H89-SBC and same cable can be used on the H8 computer as well.



Using an IC socket to protect the pins when using the crimping tool.



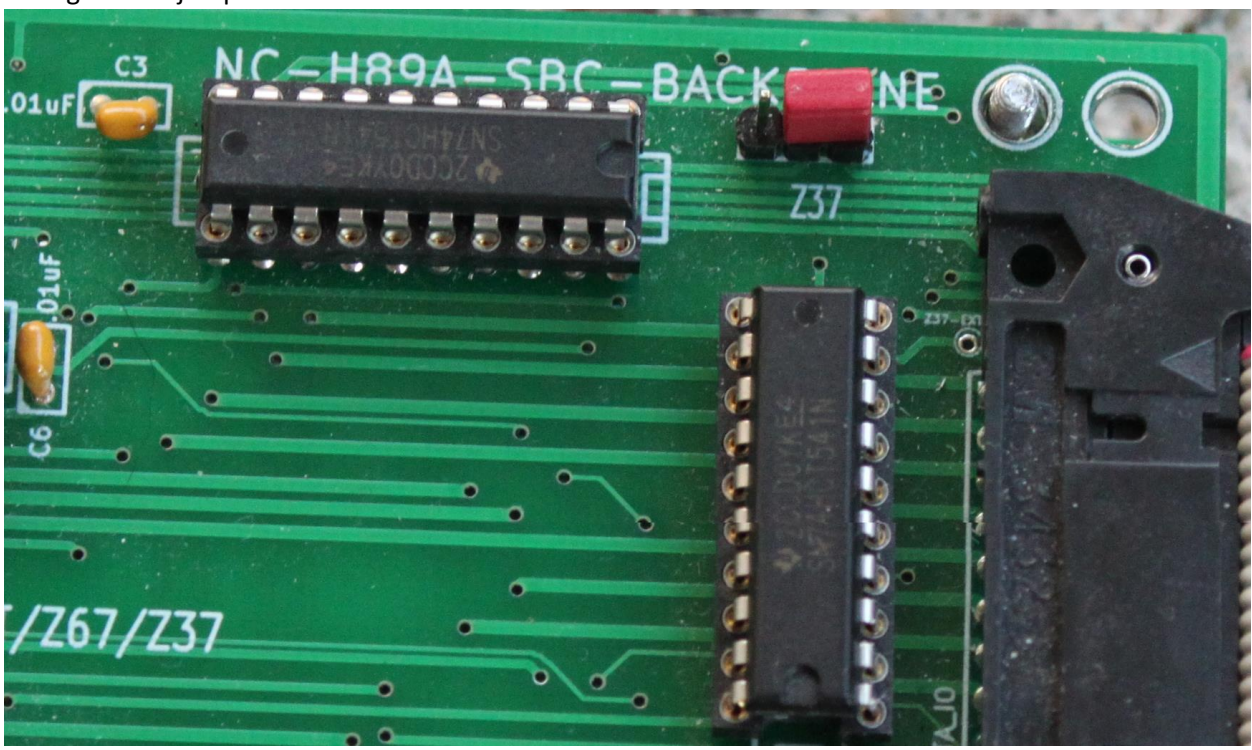
Pin 1 (red cable) aligned with pin 1 for both IDC 16 pin headers



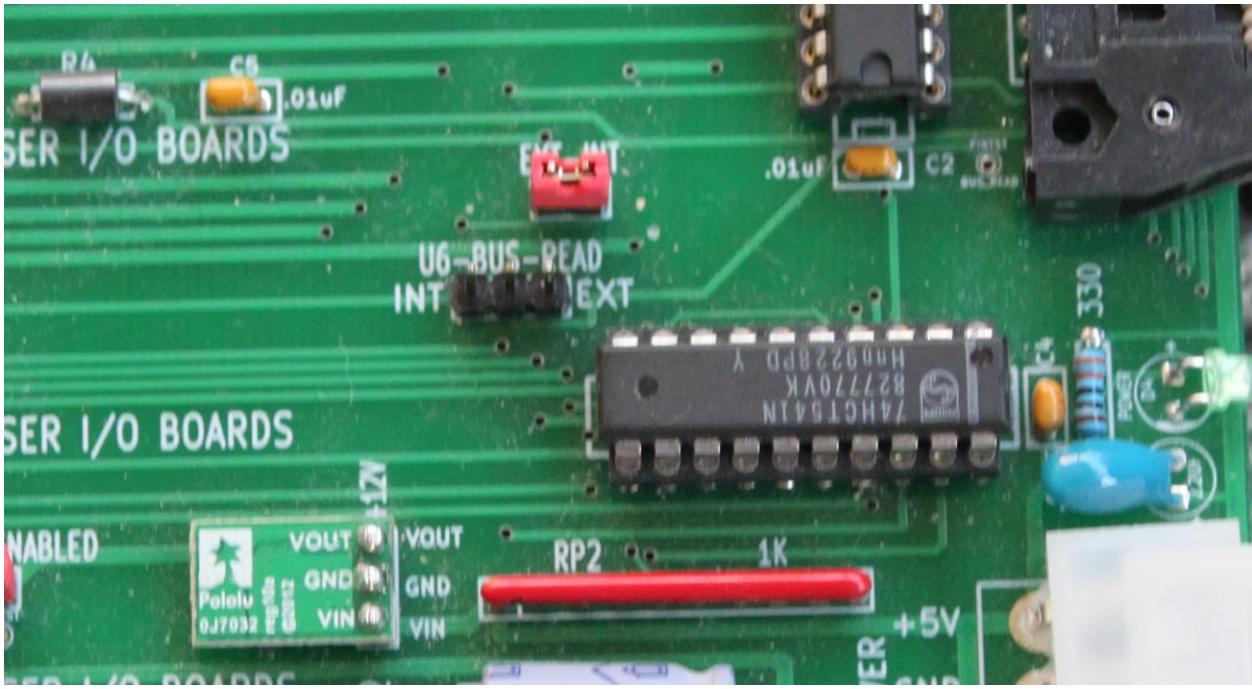
Insert 16 pin IDC connector into P5 socket. Make sure pin 1 is aligned with the red cable.

Configuring the H89-SBC baseboard and backplane to support the H89-Z37 controller

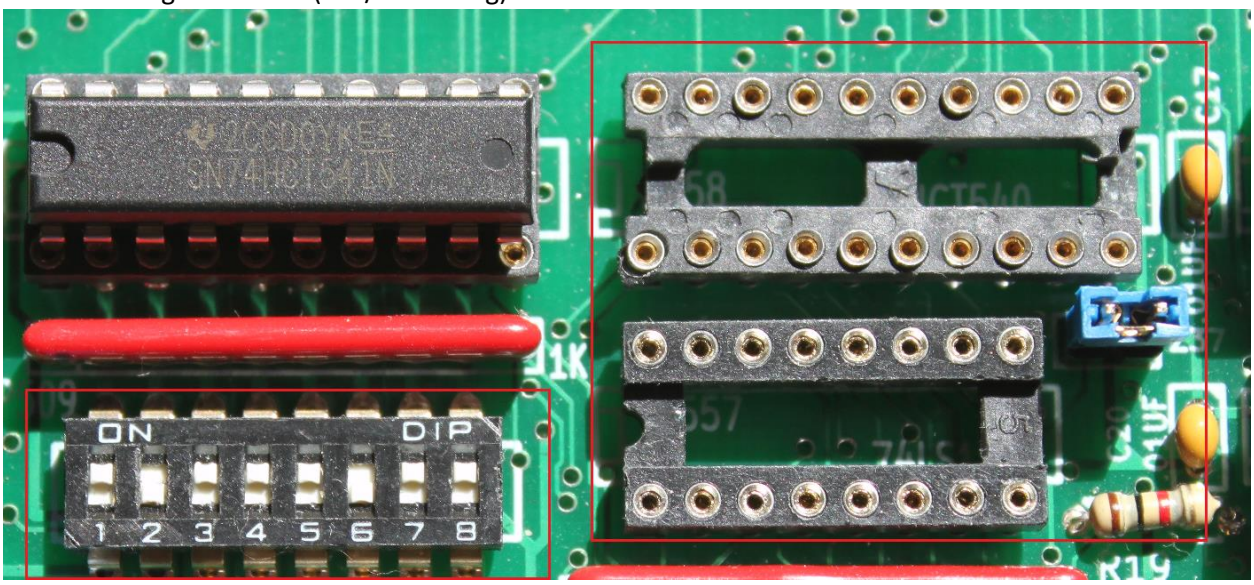
1. Configuring the H89-SBC Backplane
    a. Configure Z67 jumper as shown below



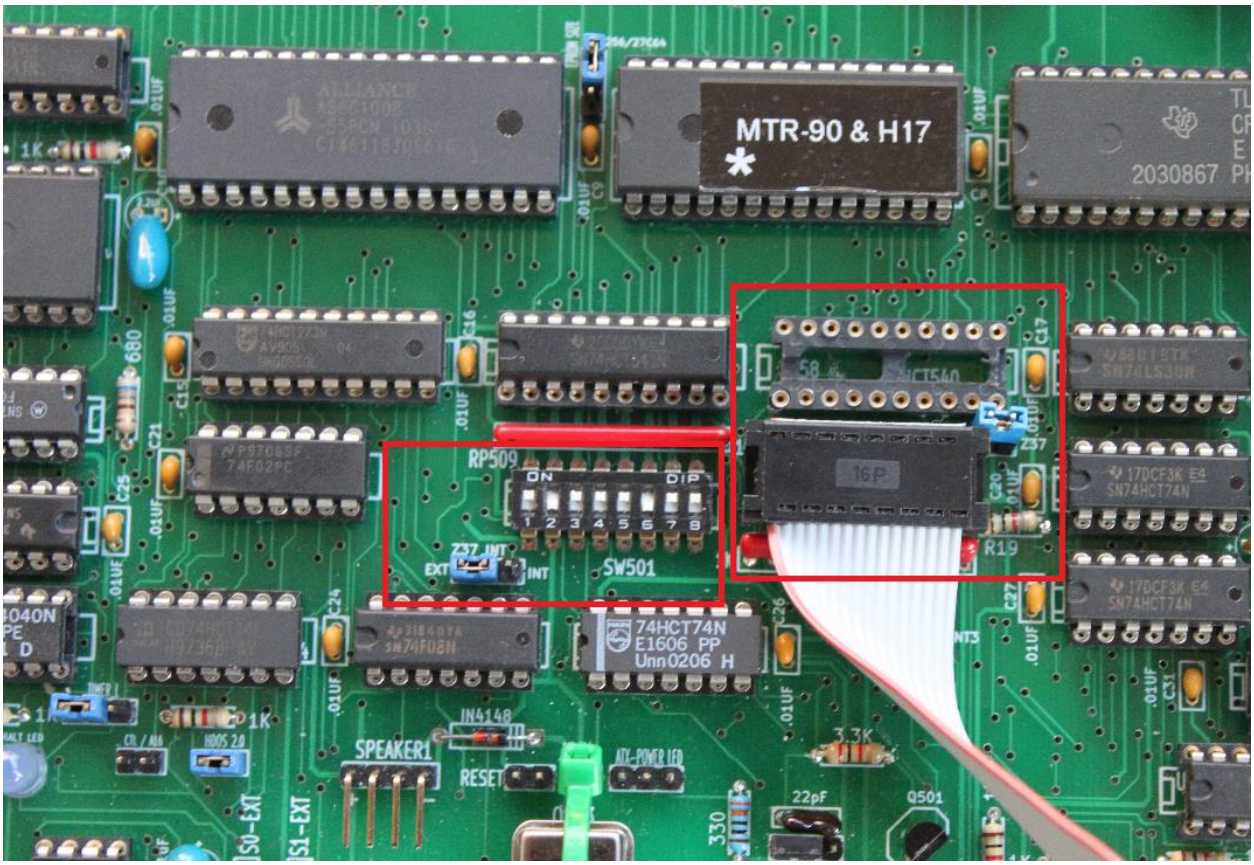
    b. Insert jumper on “EXT-INT” pins. Remove any jumper on “U6-BUS-READ” 3-pin header.



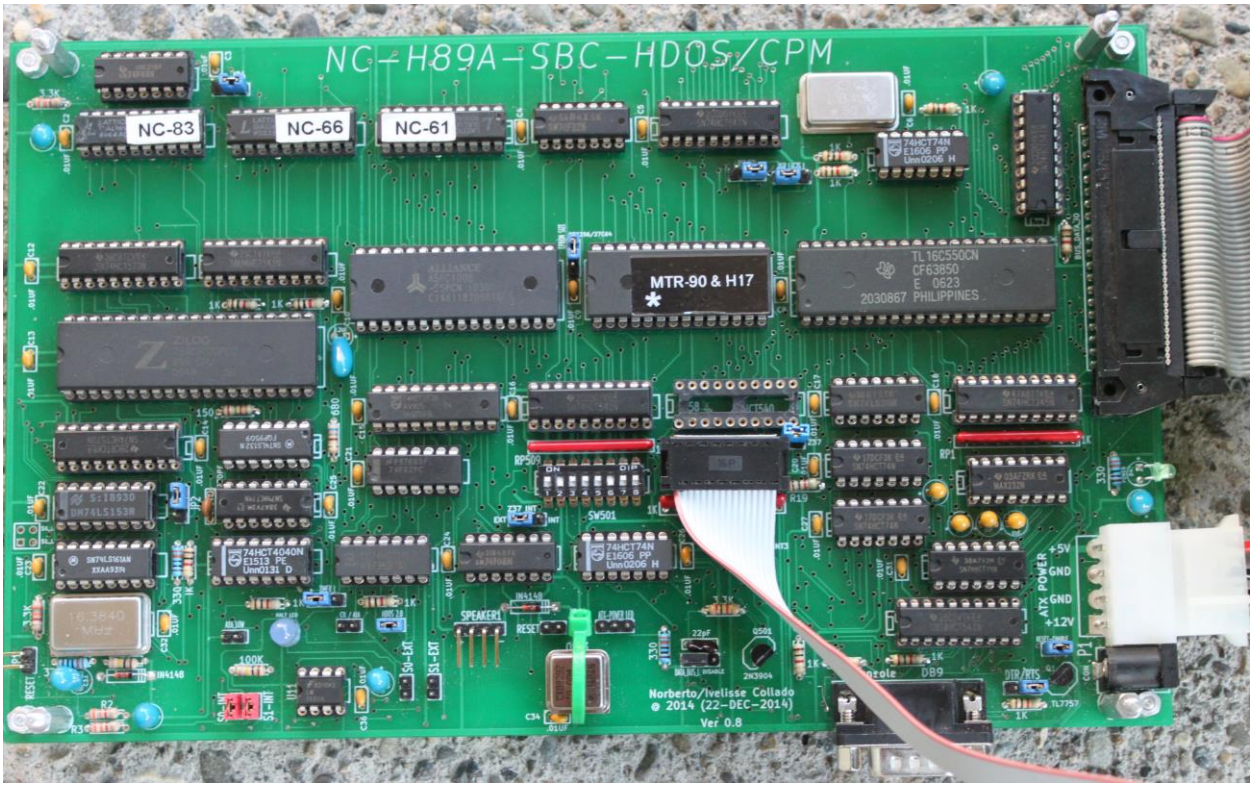
2. Configuring the H89-SBC computer board.
    a. Remove the following IC's (U558 & U557) as shown below and insert Z37 jumper.
    b. Configure SW501 (Z67/Z37 config) as shown.

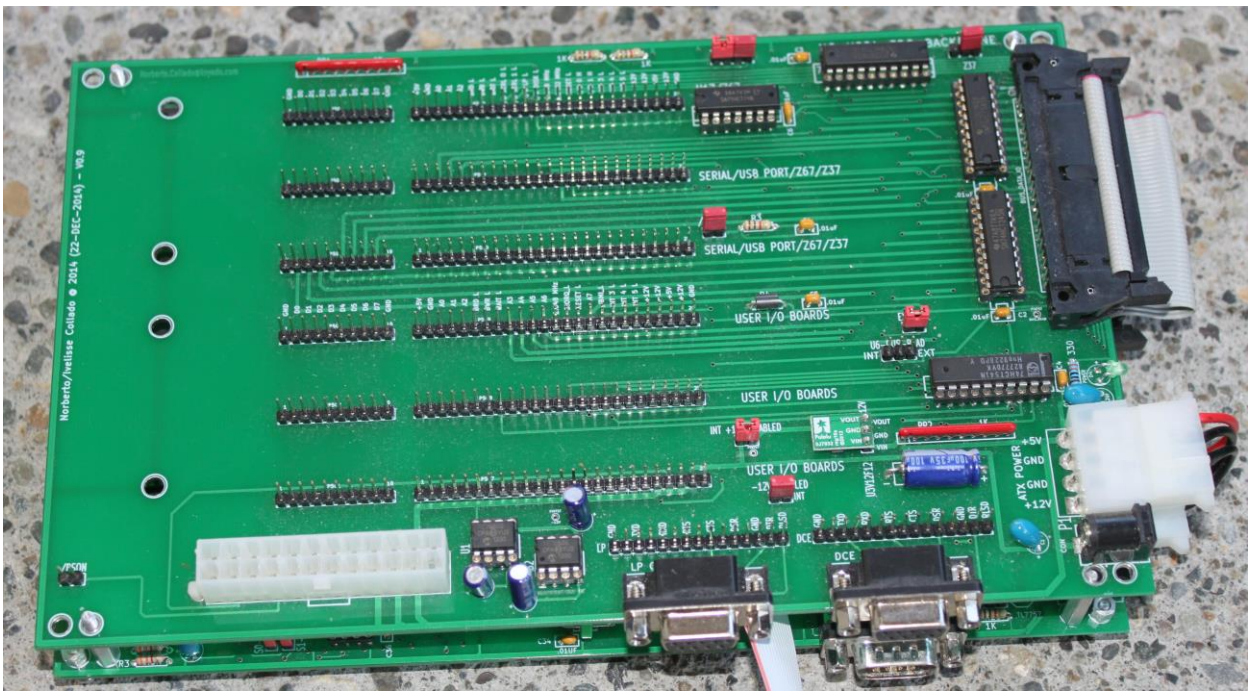


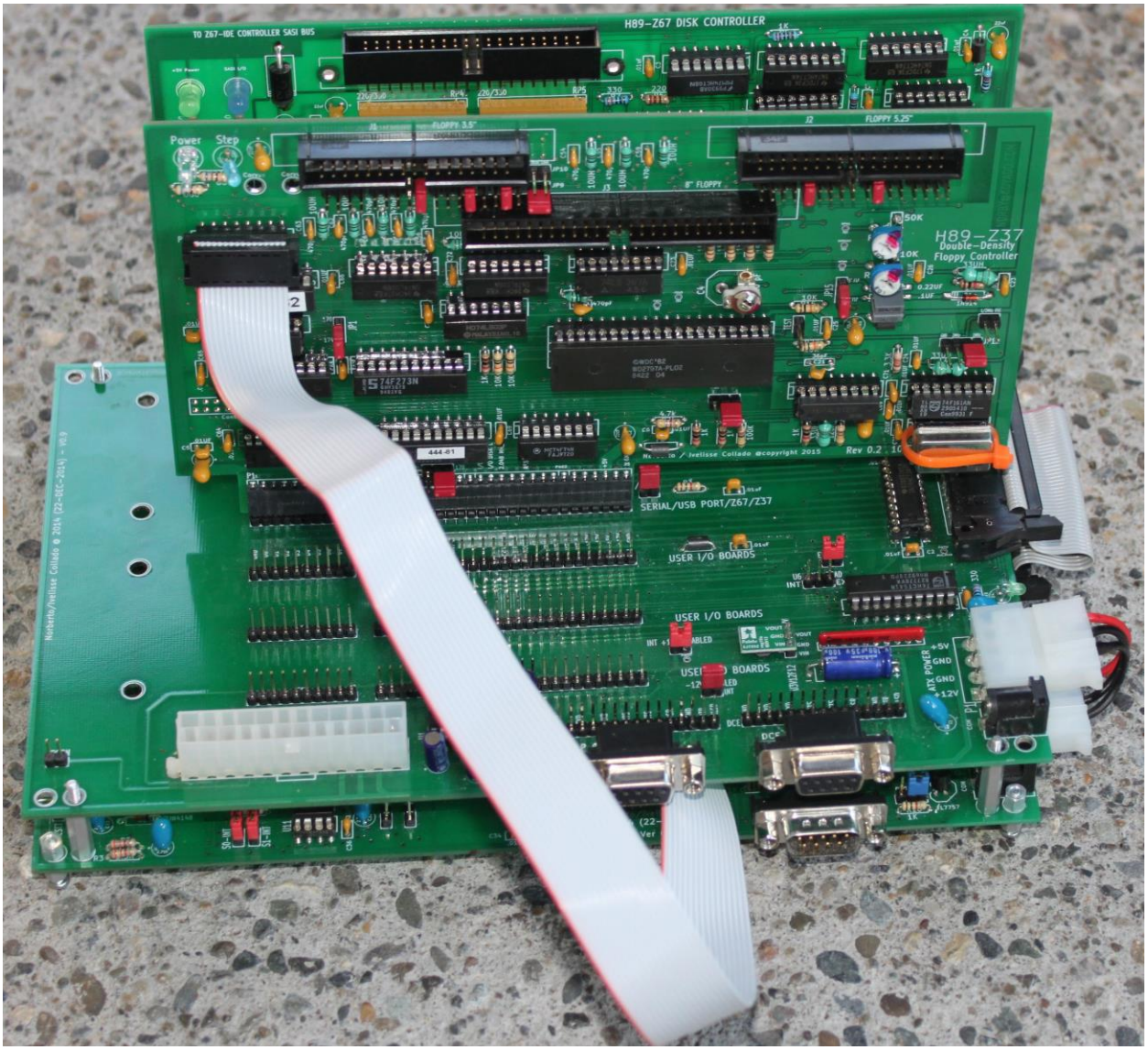
3. Insert Cable as shown below.
4. Configure Z37_INT jumper to EXT interrupts as shown below.



Putting it all together!






H89-Z67 DISK CONTROLLER
TO Z67-IDE CONTROLLER SASI BUS
FLOPPY 3.5"
FLOPPY 5.25"
8" FLOPPY
Power
Step
H89-Z37
Double-Density
Floppy Controller
SERIAL/USB PORT/Z67/Z37
USER I/O BOARDS
USER I/O BOARDS
ATX POWER
+5V
GND
GND
+12V