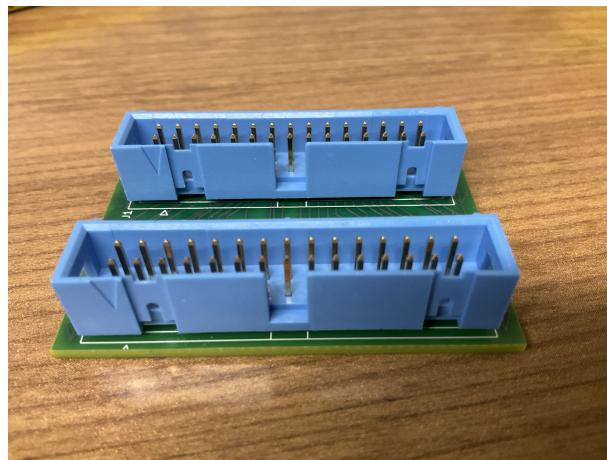


Paladin control board extension assembly instruction

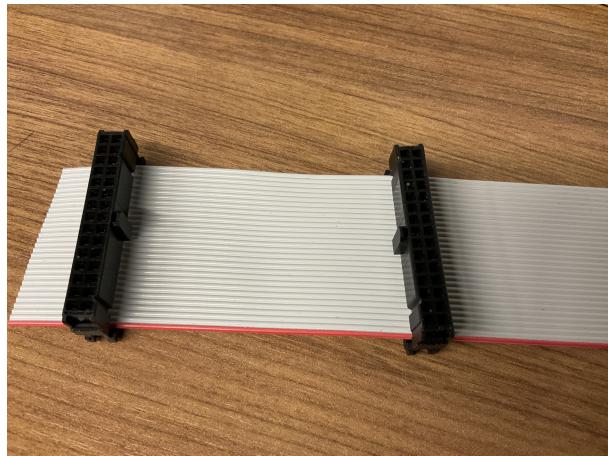
May 5, 2022

1. Solder the connectors on the PCB in the orientation and on the side as indicated on the board
 - (a) One female 3x20 on one board, one male 3x20 on the other board.
 - (b) Two 2x15 sockets on the other side of each board. The notch should face the orientation indicated in the silk screen on the board.



2. Crimp two 30 wire ribbon cables

Both of the connector should be on the same side of the cable and for both of them, the cable should come out from the side of the connector with the notch. In another word, in the final cable, when pulled straight, the two notches on each end should face towards each other.



You can make one cable 1-2cm shorter than the other but the actual lengths needed depends on the bend in the cable in the final setup.

3. Plug the two ribbon cables to the boards.

The boards have arrows pointing up. One cable should connect the top socket to the other top socket whereas the other cable should connect the bottom socket to the other bottom socket. This should also be the only way you can plug the cables both in without twisting.

4. Testing the board

With the arrow on both board pointing up on each board, the 3 rows on each board should be connected to the corresponding rows on the other board. The pins within each row should be connected to the pin on the other board in the reverse direction.

5. Plugging in the board.

The arrow should point up when plugging to the paladin housing.

The arrow on the other side should point to the original up direction on the control PCB.