MXDB Assembly Guide

Last Revised 4/27/19

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Procedure

Step 1: Break Apart Headers

Break apart the three 40-pin headers

From header 1: 5x 8-pin headers

From header 2: 1x 8-pin headers, 2x 5-pin headers, 1x 3-pin headers, and 3x 2-pin headers

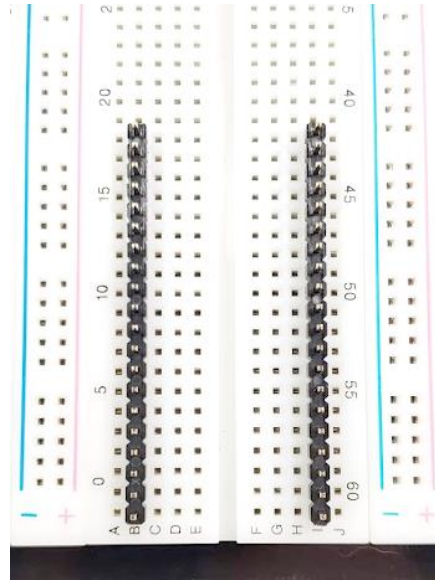**From header 3:** 2x 20-pin headers

Step 2: USB Connector

Solder the USB Connector to the MXDB

out of the
BOX

Electronics and Robotics LLC

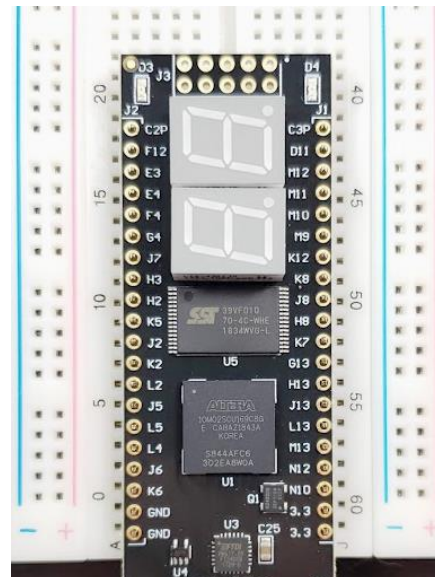ootbrobotics.com

Step 3: MXDB Breadboard Connections

Step 3.1: Insert Pins into Breadboard

Insert the 20-pin headers as displayed. The long side of the headers will be inserted into the breadboard.

Step 3.2: Solder Pins
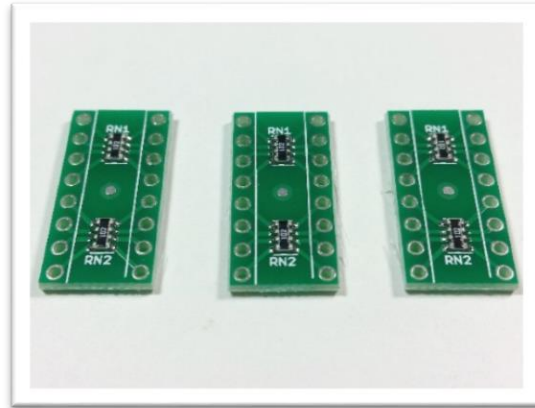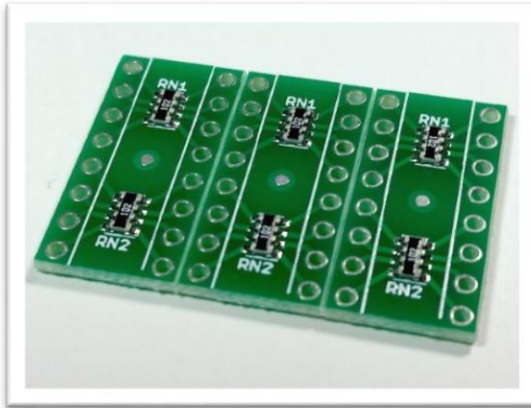
Lay the MXDB on the pins in the breadboard and solder.

Step 4: JTAG Connection

Solder the 5-pin headers to J3 as displayed. The long portion of the headers will point up. To solder these pins, the MXDB will need to be removed from the breadboard.

Step 5: Read Enable Header

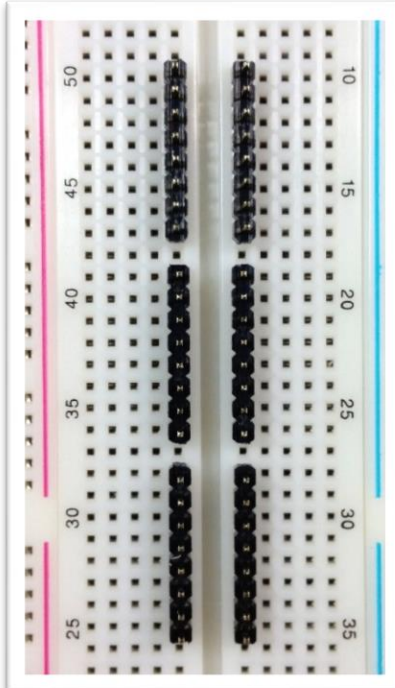Solder a 2-pin header to J5 of the MXDB.

Step 6: DIP Resistors

Step 6.1: Break Apart Array

Break apart the DIP resistor boards from the array.

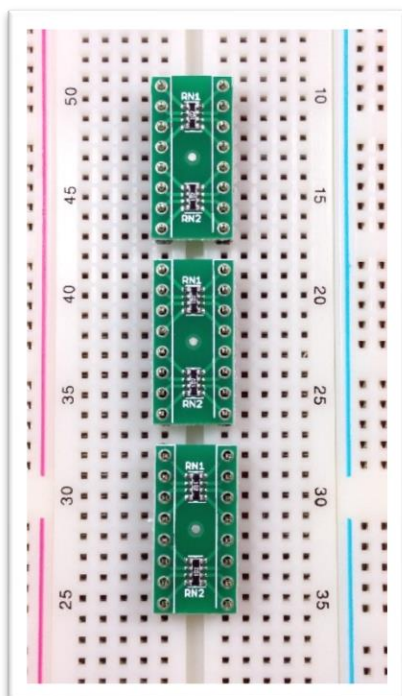
Step 6.2: Insert Pins into Breadboard

Place the 8-pin headers into the breadboard as displayed.

Step 6.3: Solder Pins
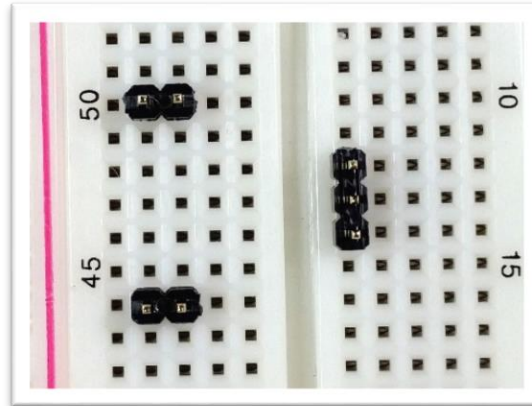
Place the DIP resistor boards onto the headers and solder.

Step 7: Toggle Switch
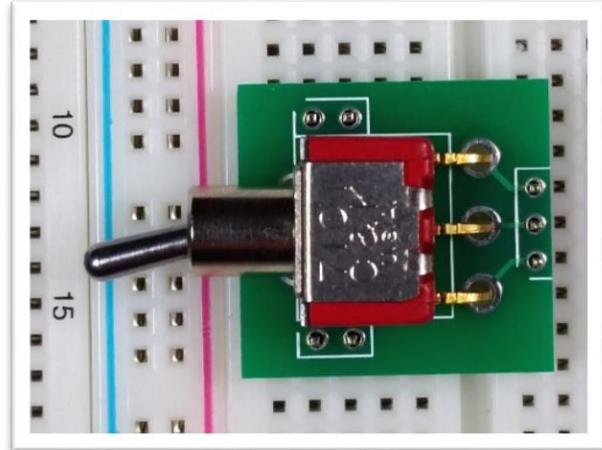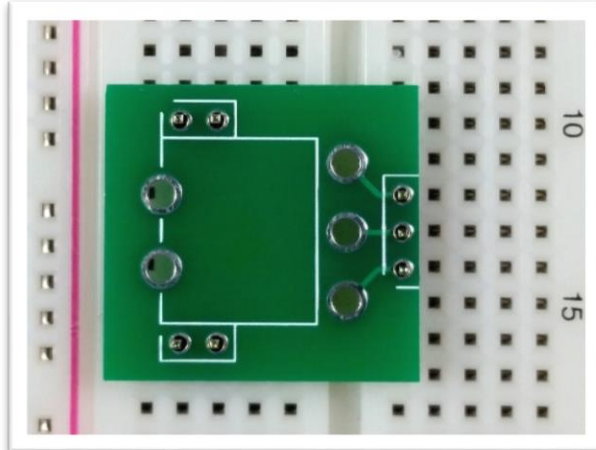
Step 7.1: Insert pins into Breadboard

Insert the 2-pin headers and the 3-pin header into the breadboard as displayed.

Step 7.2: Place Board and Switch

Place the switch breakout board and switch as displayed, and then solder.

Step 7.3: Solder Mechanical Pins

Remove the switch breakout board from the breadboard and solder the remaining mechanical mounts of the switch.