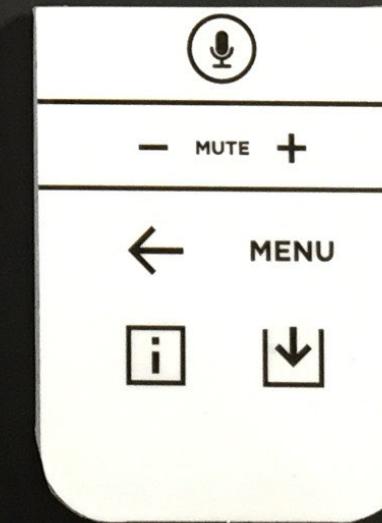
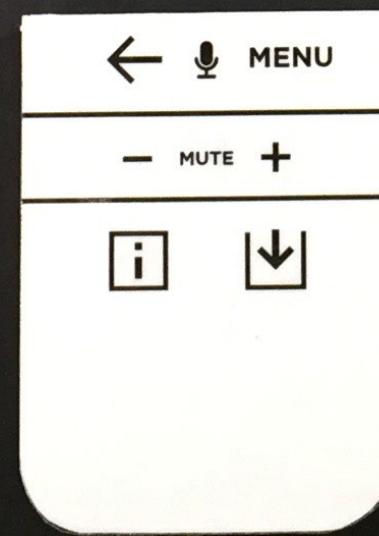
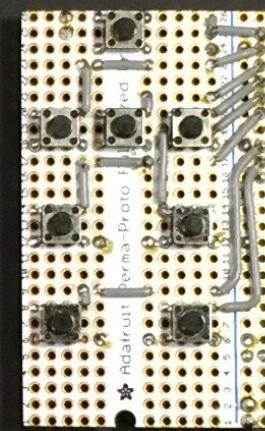
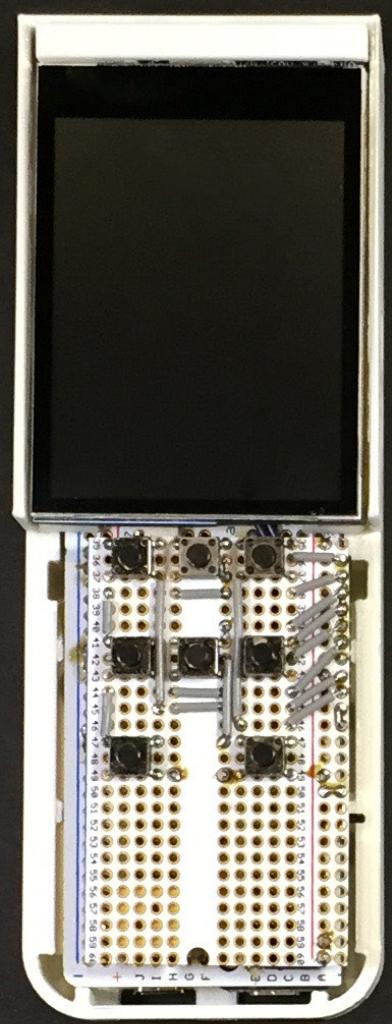
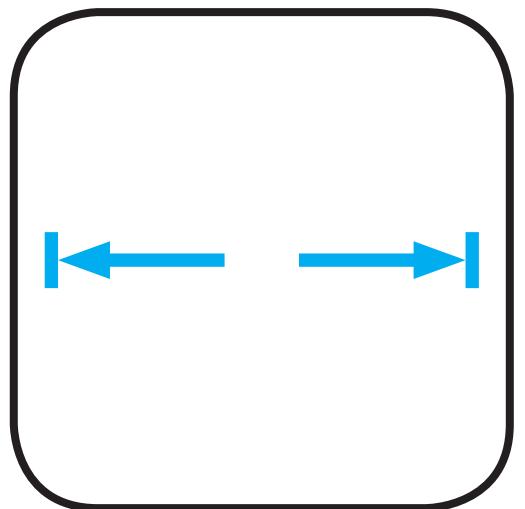


XR 16 Prototype Documentation

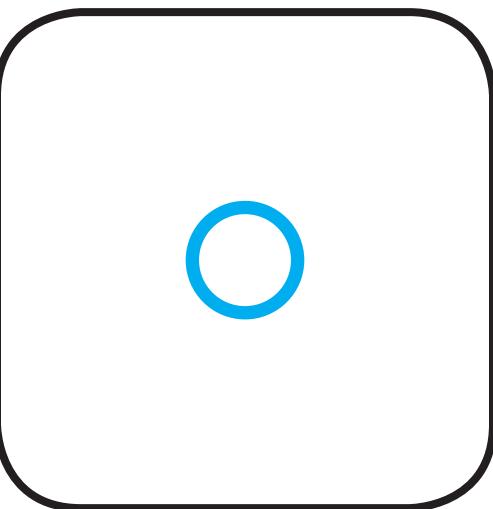
Prepared by Code and Theory
for Comcast
April 14, 2015



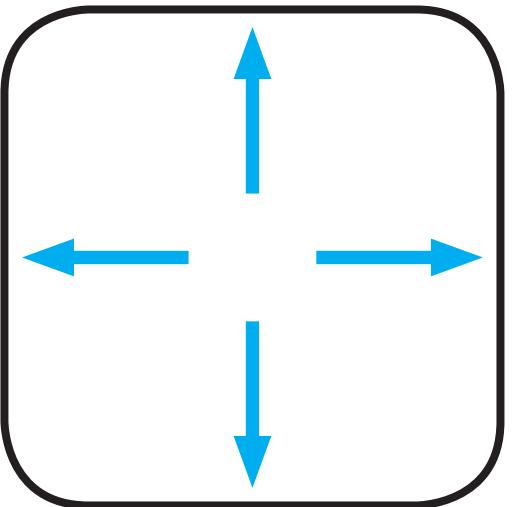
Square Interaction Family



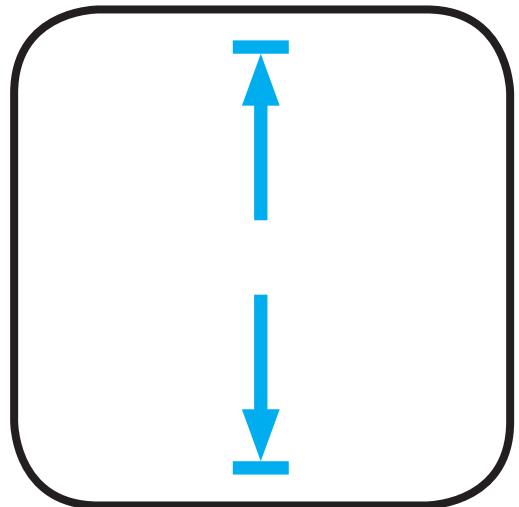
FF/RW



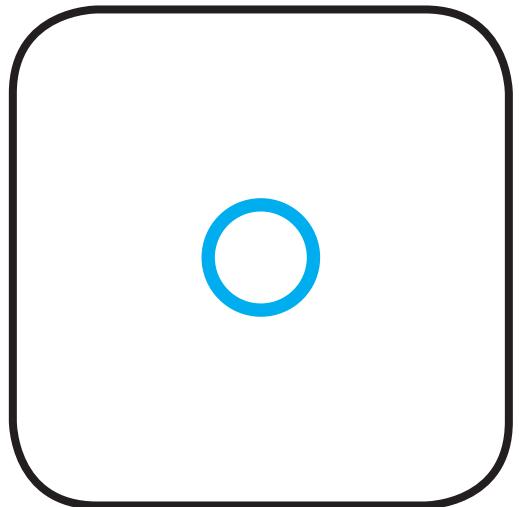
Play/Pause



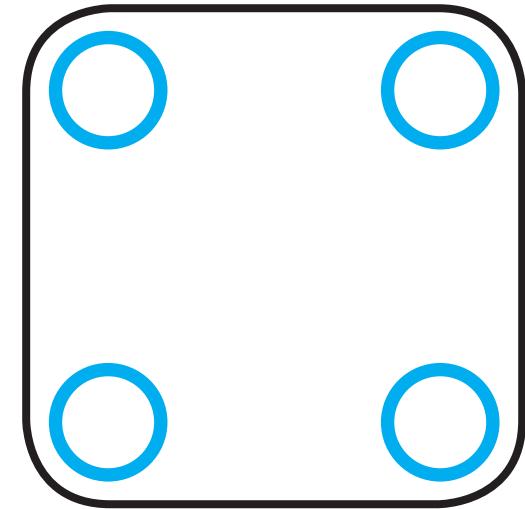
Navigation



Page Up/Down



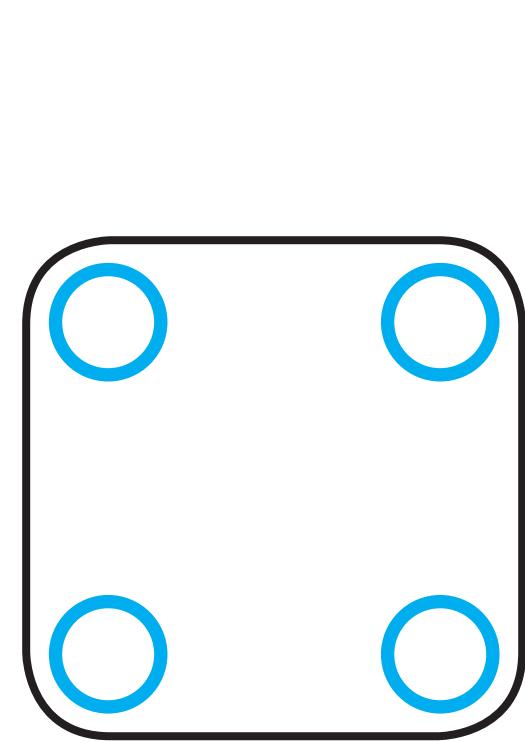
Select



Guide

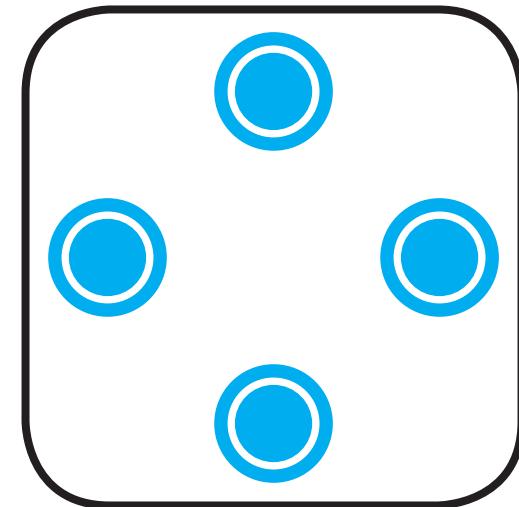
Mini
Guide

Last 9



Menu Access

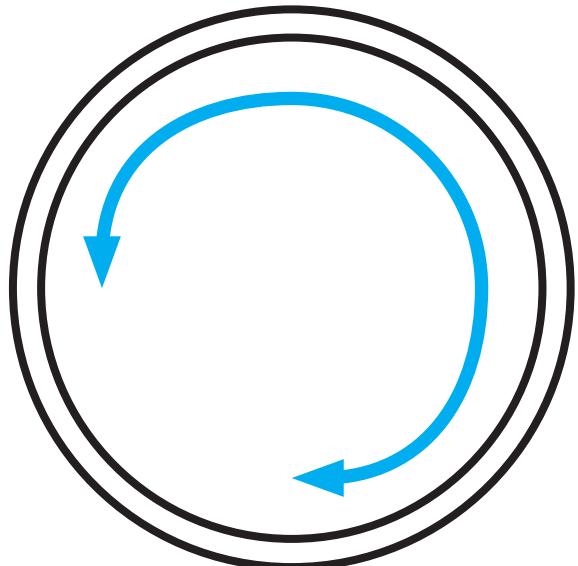
Help



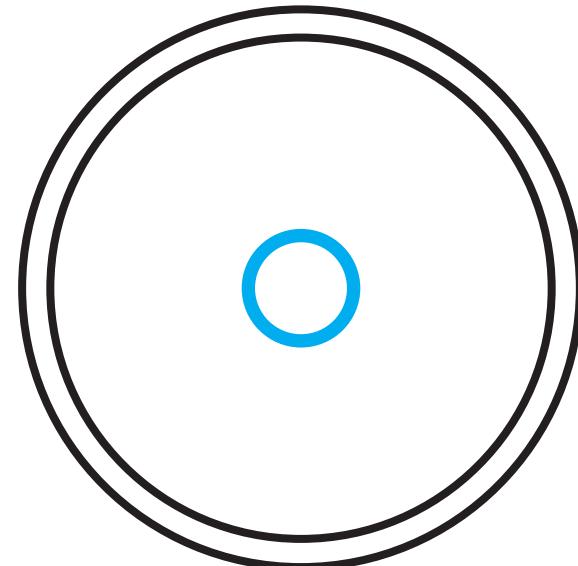
CC

Accessibility

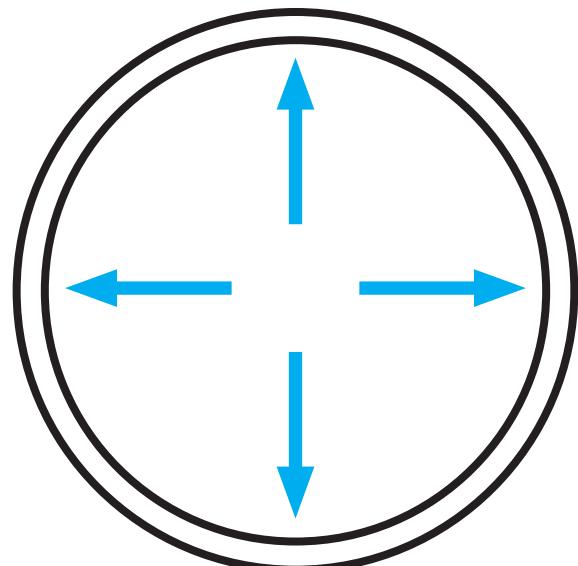
Circular Interaction Family



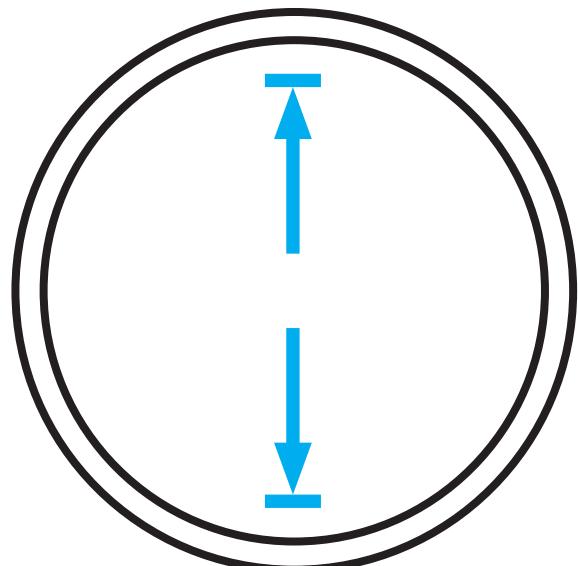
FF/RW



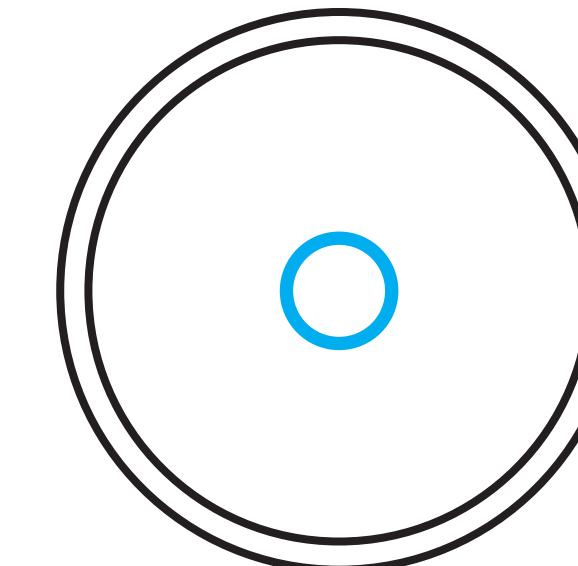
Play/Pause



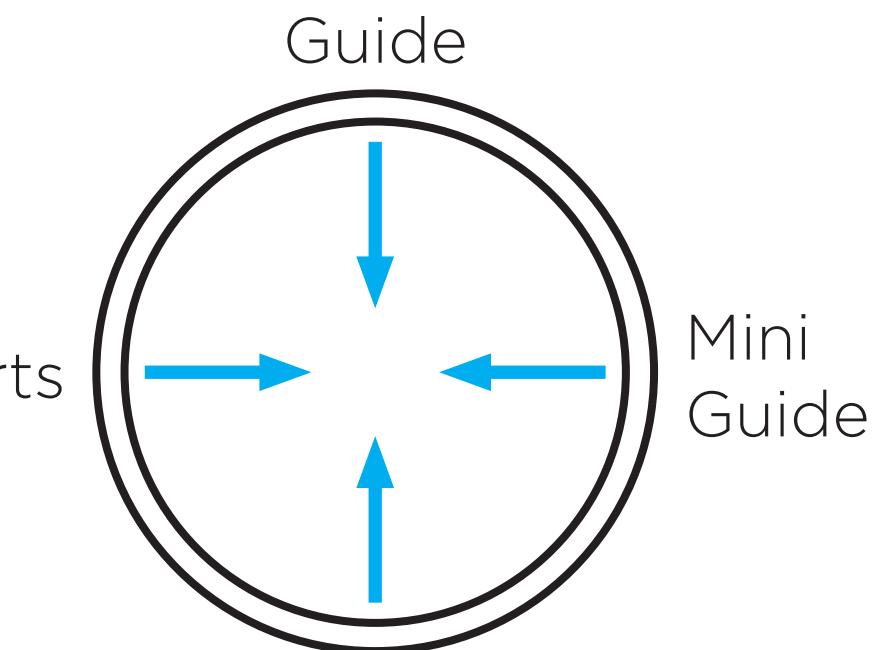
Navigation



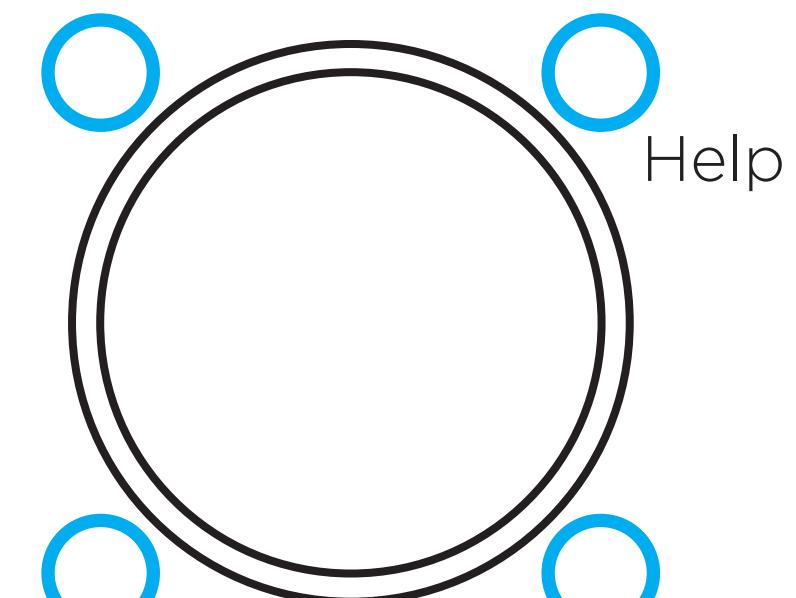
Page Up/Down



Select



Menu Access

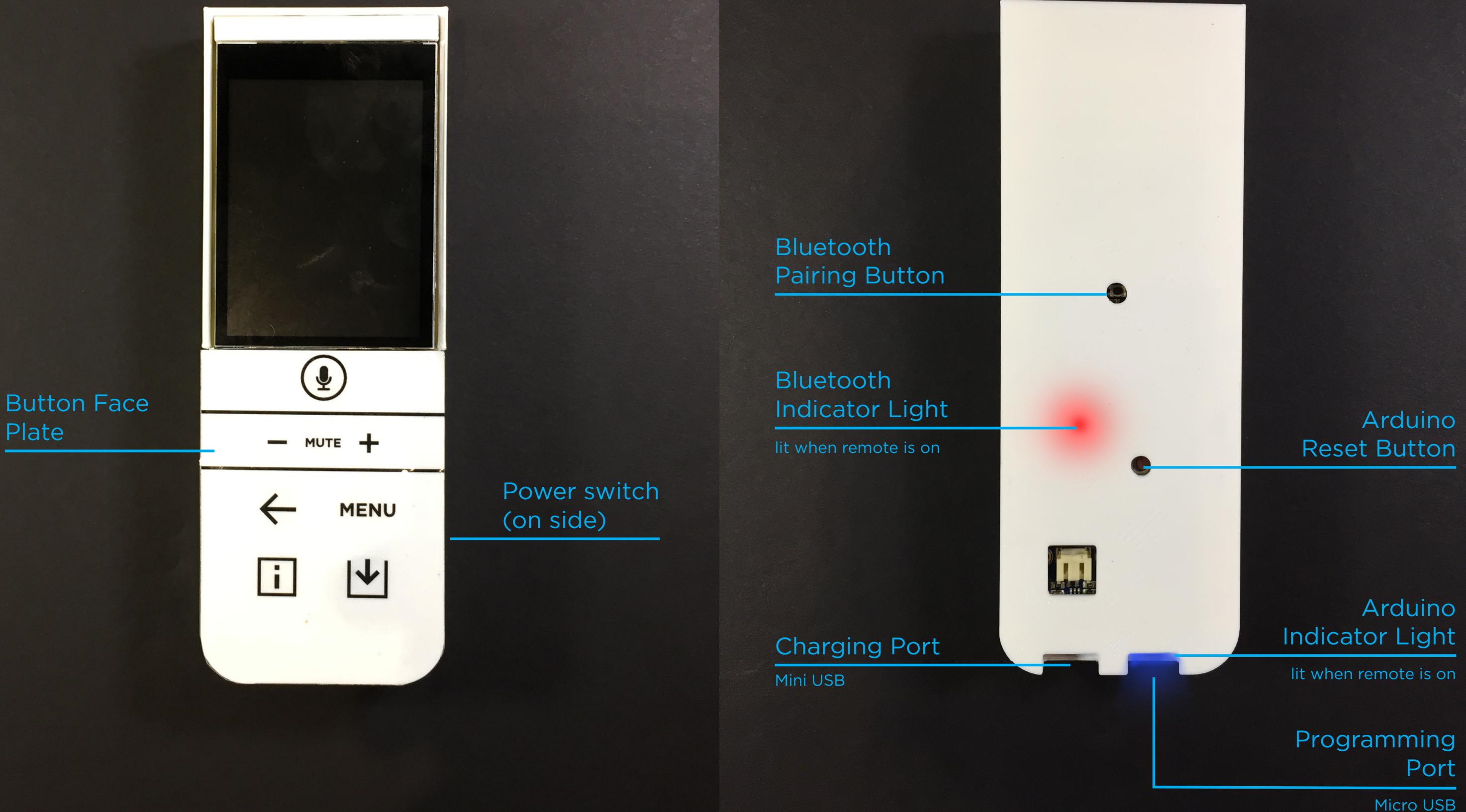


Accessibility

Help

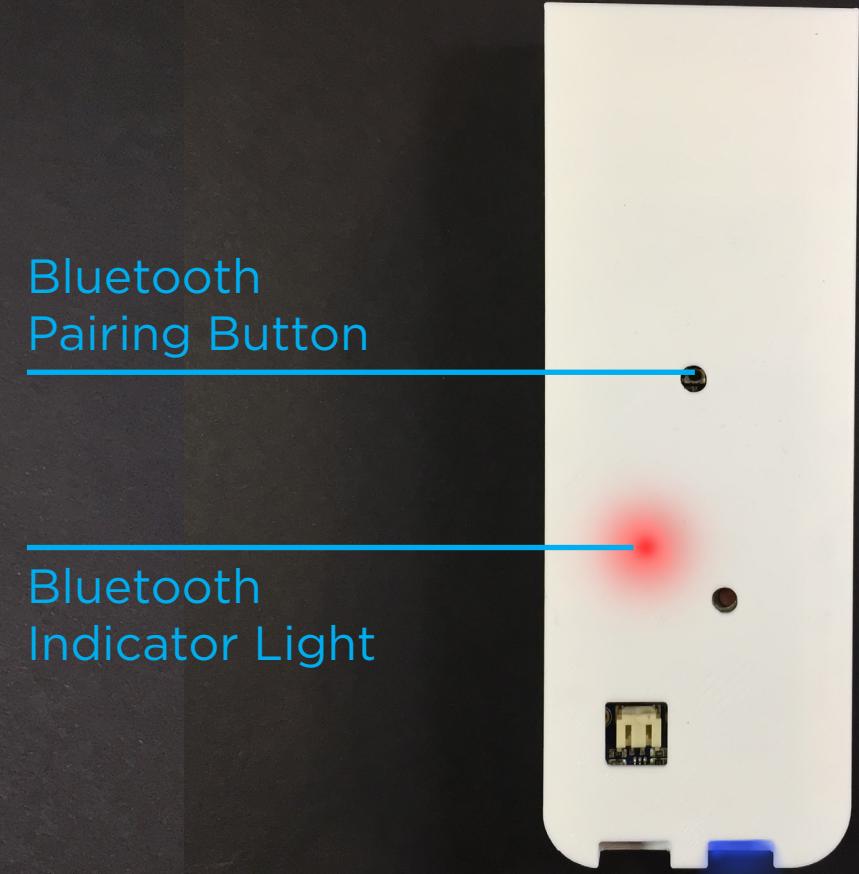
CC

Overview



Pairing

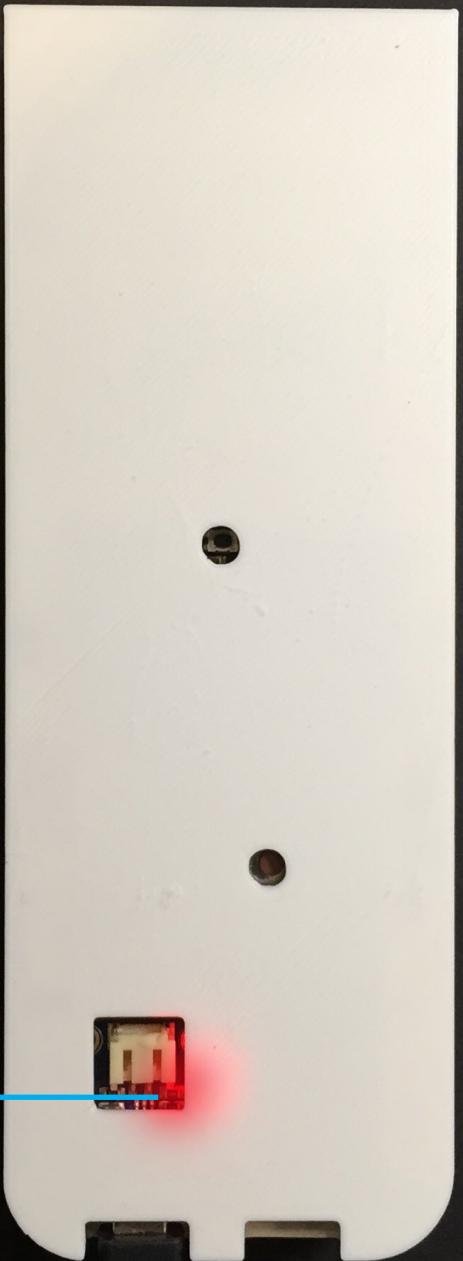
- Remote should pair automatically with computer once it is turned on. In the instance it doesn't, follow these steps.



- 1) Turn on computer Bluetooth.
- 2) Turn on XR16 Prototype.
- 3) Using a pen or pencil hold down the pairing button on the prototype until the bluetooth indicator red light starts to blink steadily every 1 second.
- 4) The Remote should appear on the computer Bluetooth menu as a keyboard named “Adafruit EZ-Key 4249”.
- 5) On the computer, select pair with “Adafruit EZ-Key 4249”.
- 6) When connected, the bluetooth indicator light will blink slowly every 2 seconds.

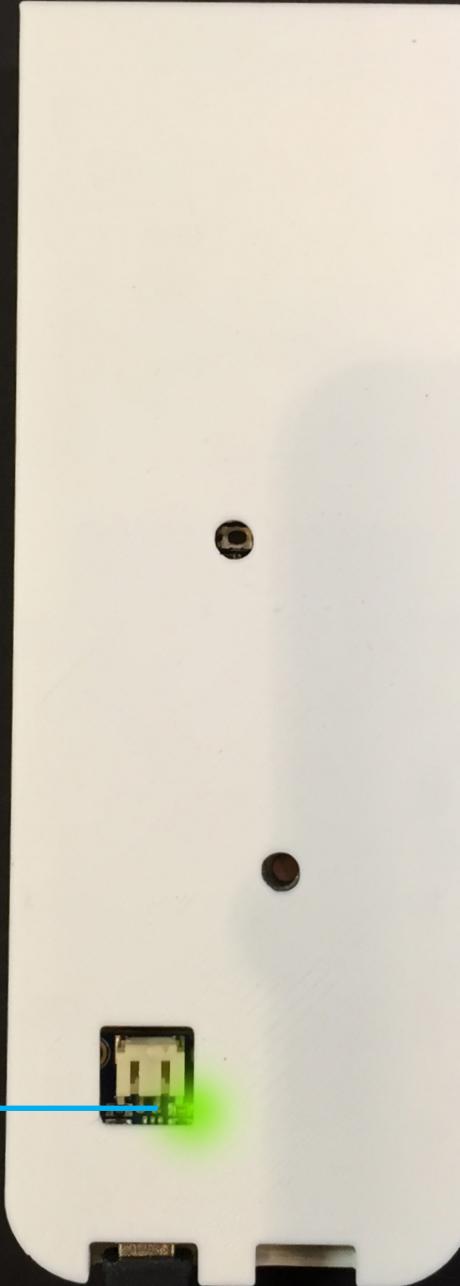
Charging

- The Remote must be off in order to charge
- If both Red and Green lights are on it means the remote is on but not charging

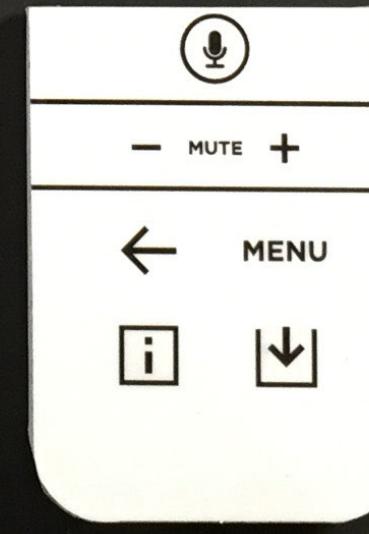
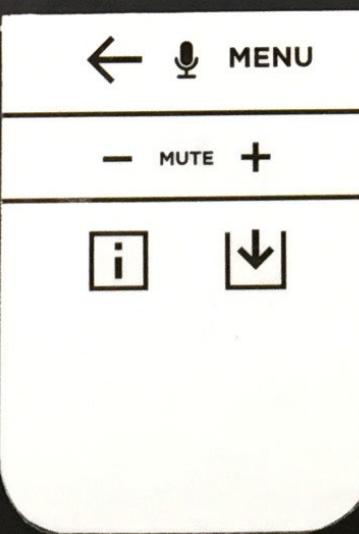
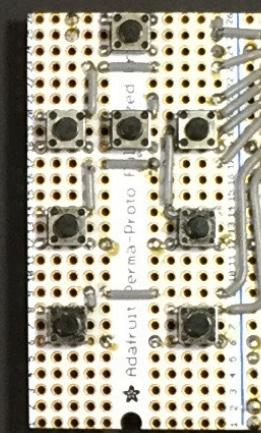
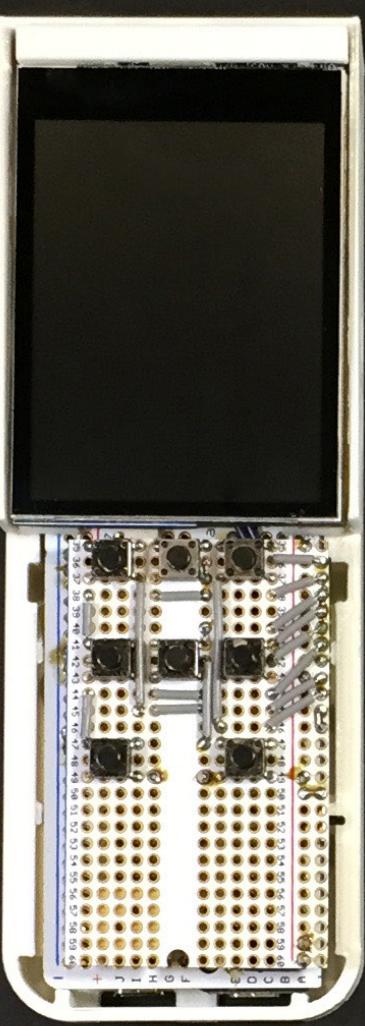


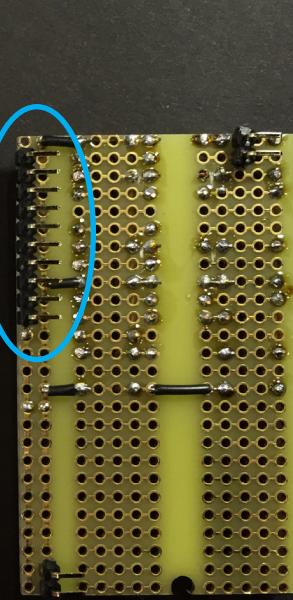
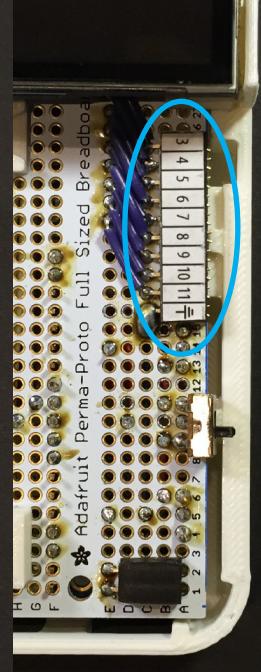
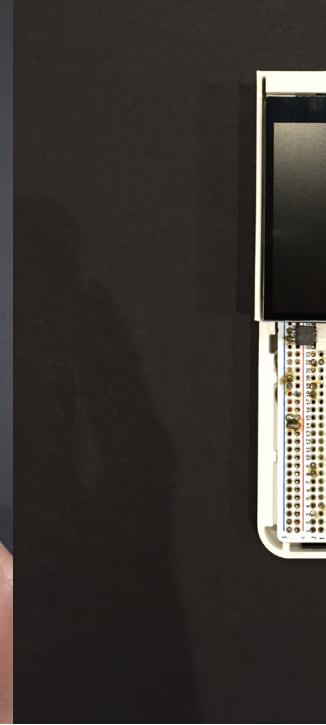
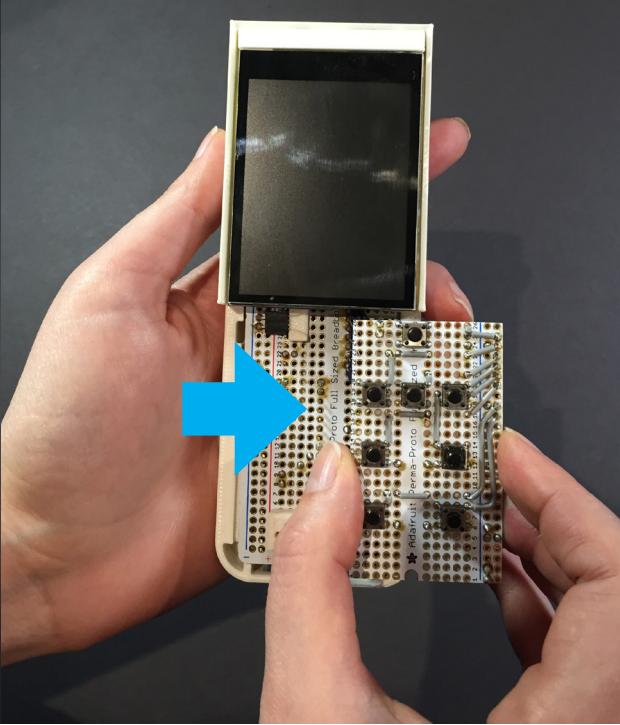
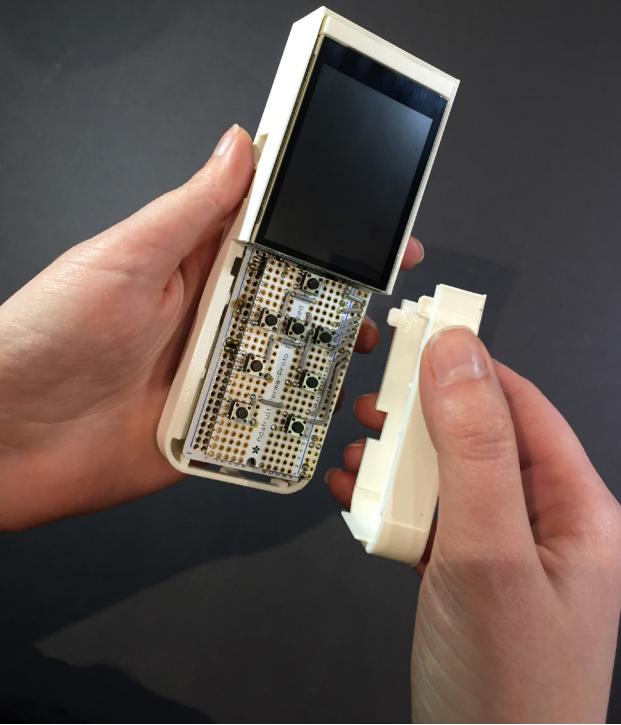
Red when
charging

Green when fully
charged



Swapping Buttons

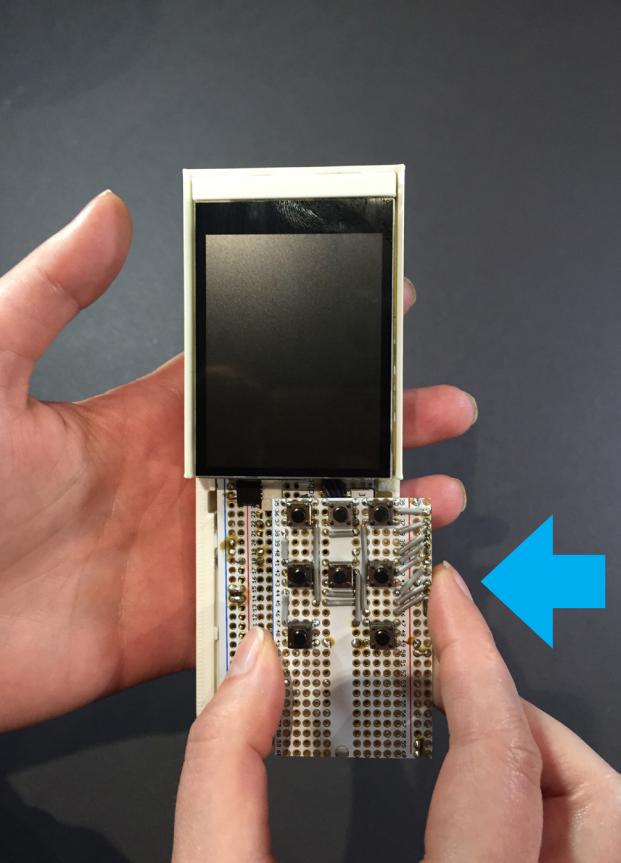
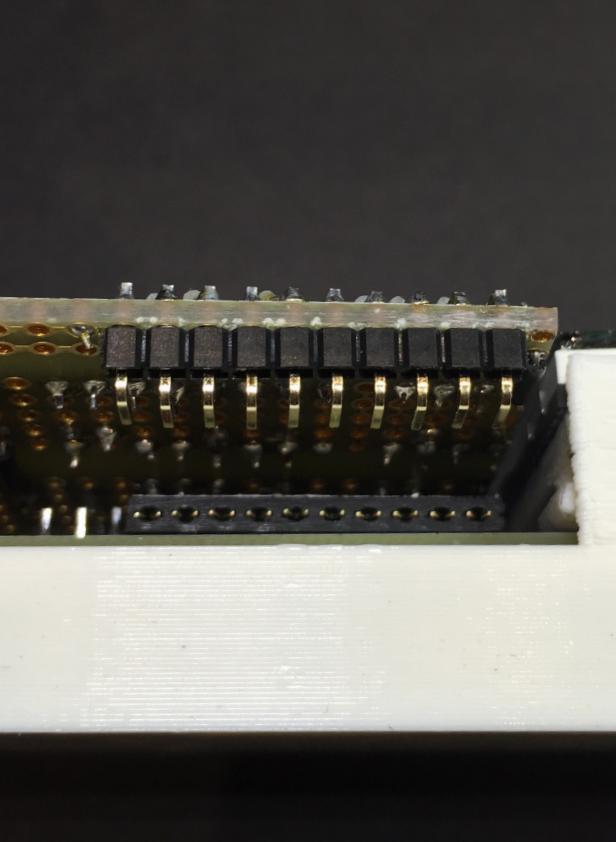




1) Remove the button face plate by lifting it off.

2) Slide button circuit board to the right to remove.

3) The line of 10 pins on the bottom of the button circuit board connects to the socket on the right of the remote.



3) Make sure that these pins align properly with the socket.

4) Then gently push the circuit board left until the pins are fully inserted.

4) Press the corresponding button face plate onto the remote.

Swapping Screen Bezels



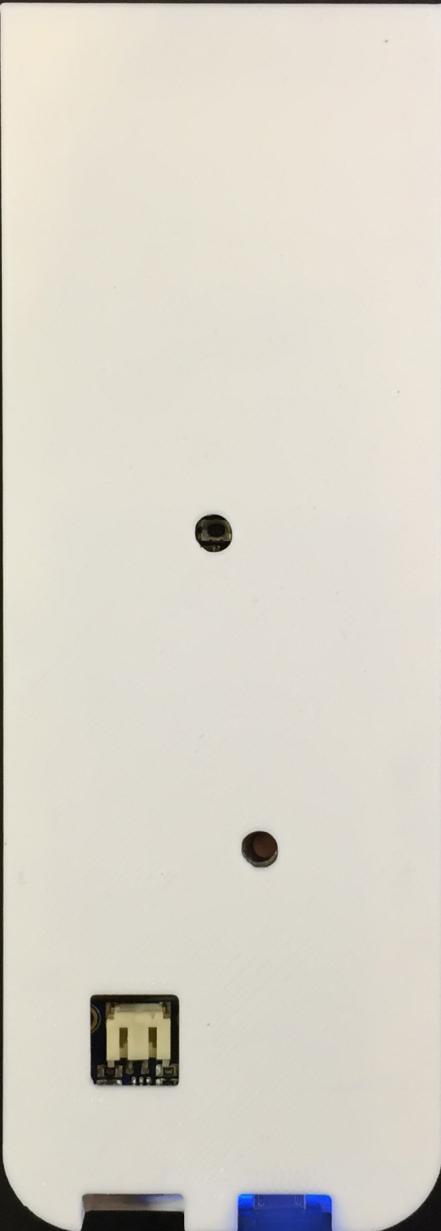
1) Peel current screen bezel off.
Note that the guidelines displayed
on screen will match the bezel.

2) Enter command to change
interaction family (up, up, down,
down, left, right, left, right, center,
center, center)

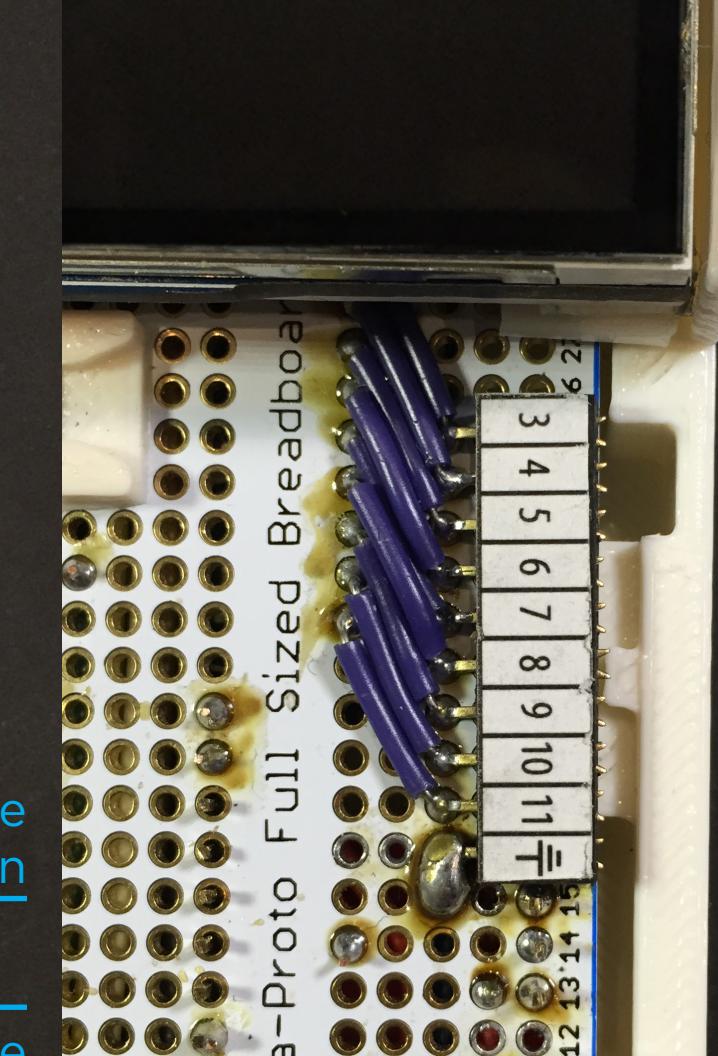
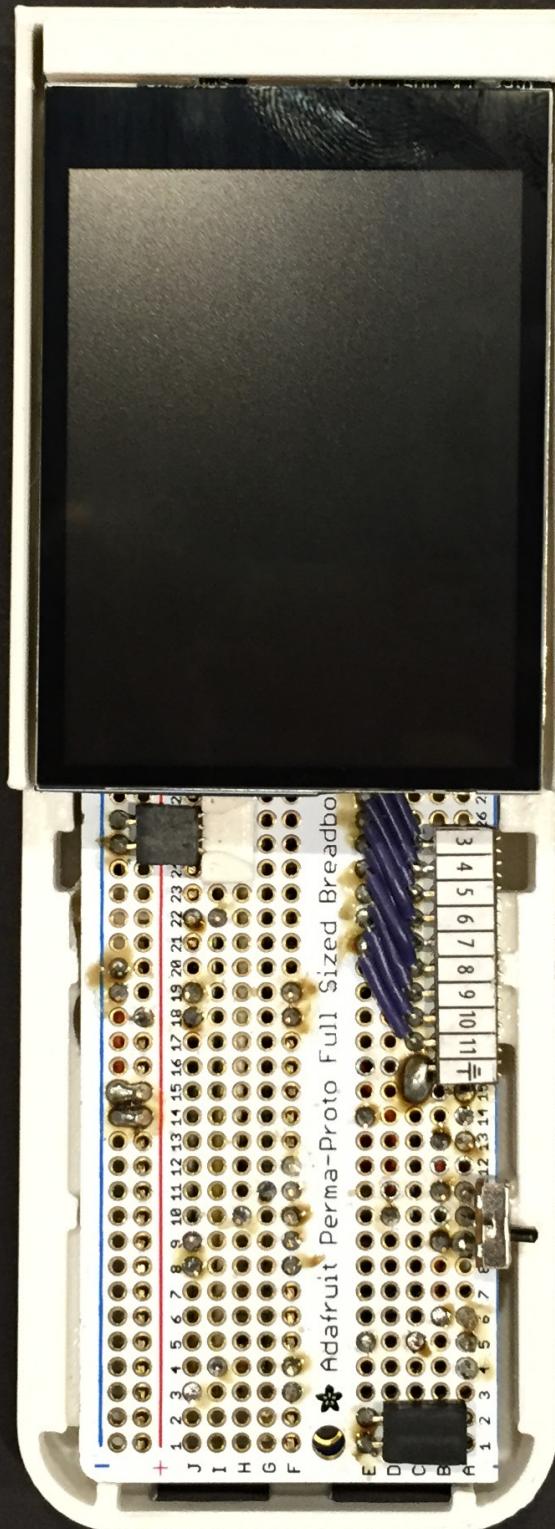
Guide lines will change to show
new bezel shape.

3) Apply new screen bezel on top
of guide lines.

Programming & Pin Layout



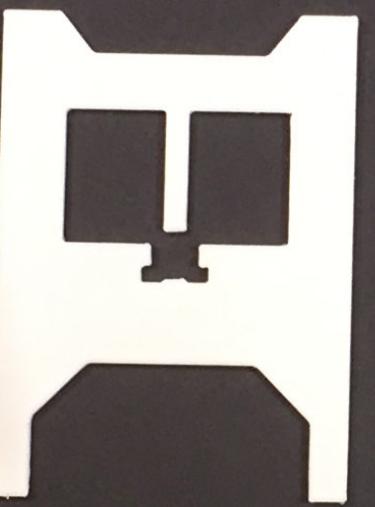
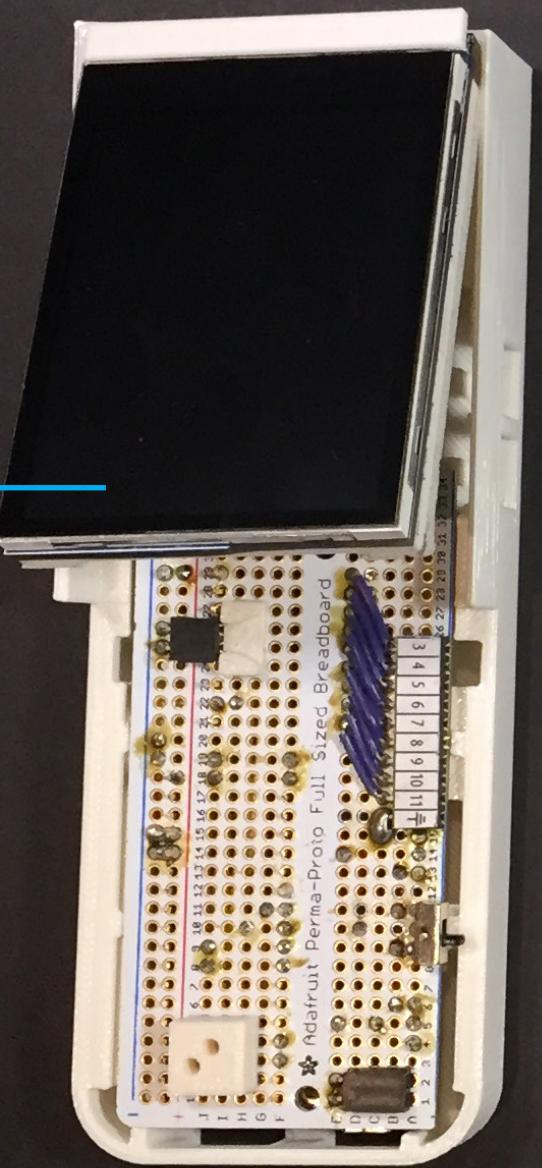
Micro USB



- 0 - Bottom Side Button
- 1 - Top Side Button
- 2 - Unconnected
- 3 - Voice/Search
- 4 - Volume down
- 5 - Mute
- 6 - Volume Up
- 7 - Menu
- 8 - Back
- 9 - Unassigned
- 10 - Info
- 11 - Save
- ⏚ - Circuit Ground

Replacing Tape Under Screen

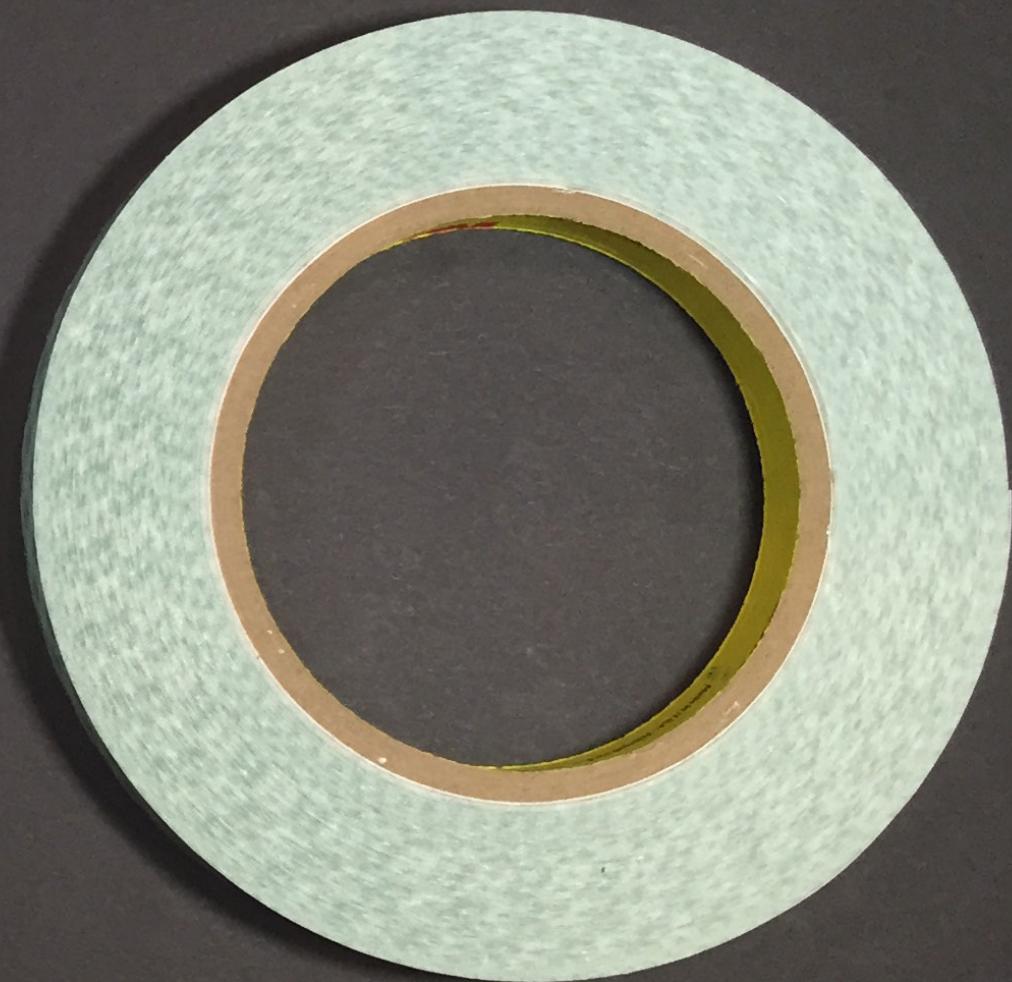
Screen
Assembly

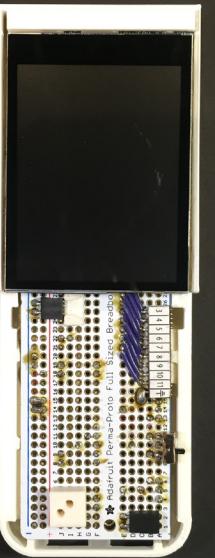


Screen Sled

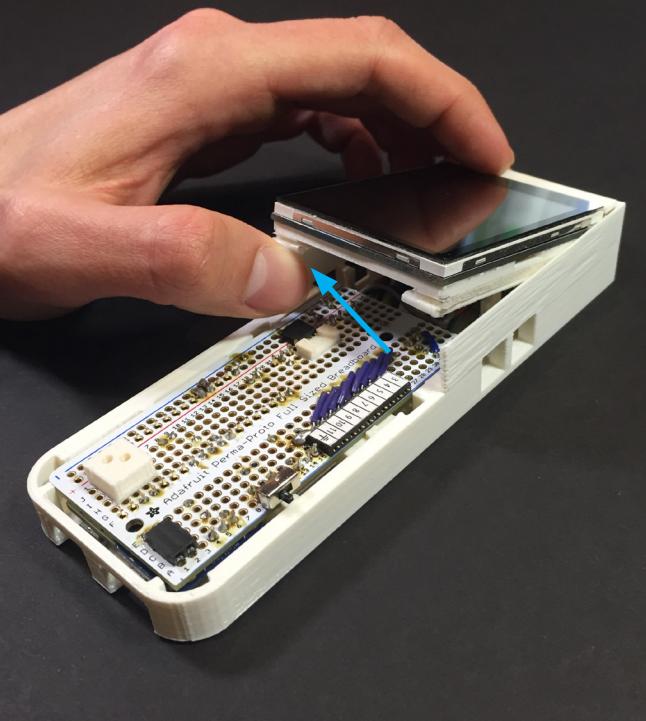


Double
Sided Tape

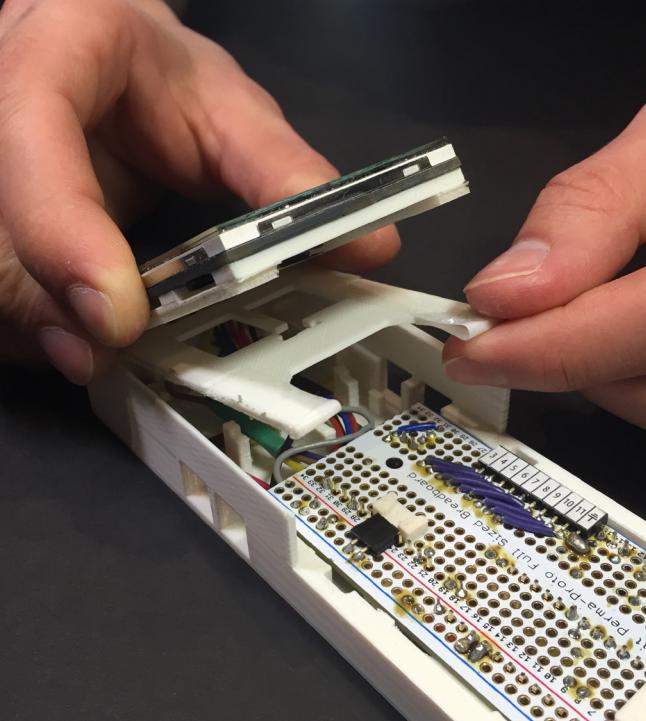




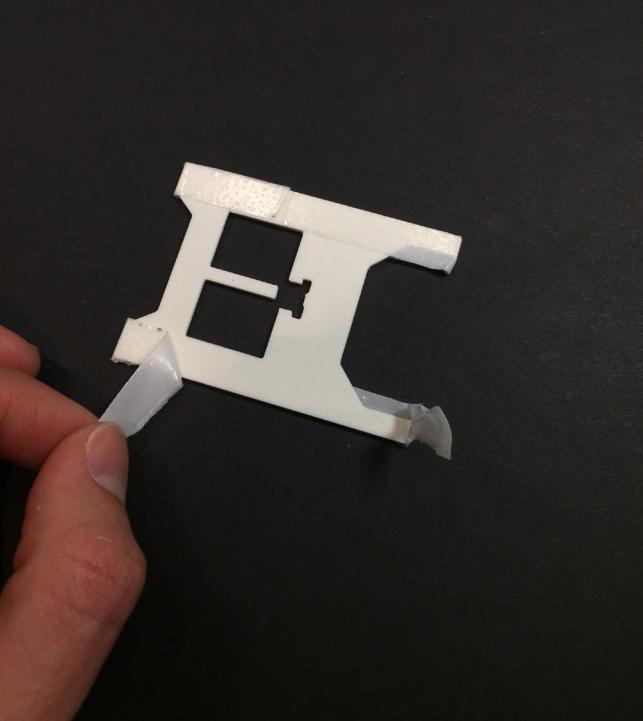
1) Remove the button face plate and button circuit board. (See “Swapping Buttons” section for instructions.)



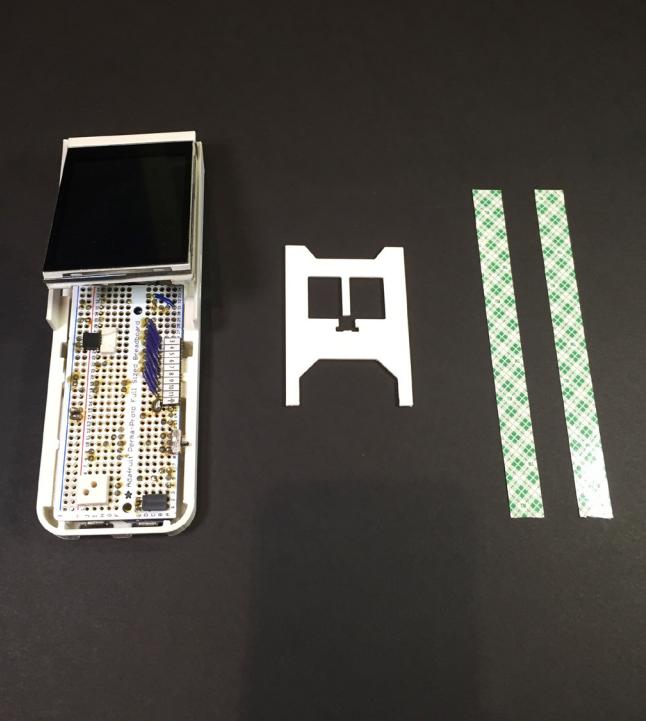
2) Carefully lift screen assembly up from the bottom. Grab the assembly from beneath the screen sled.



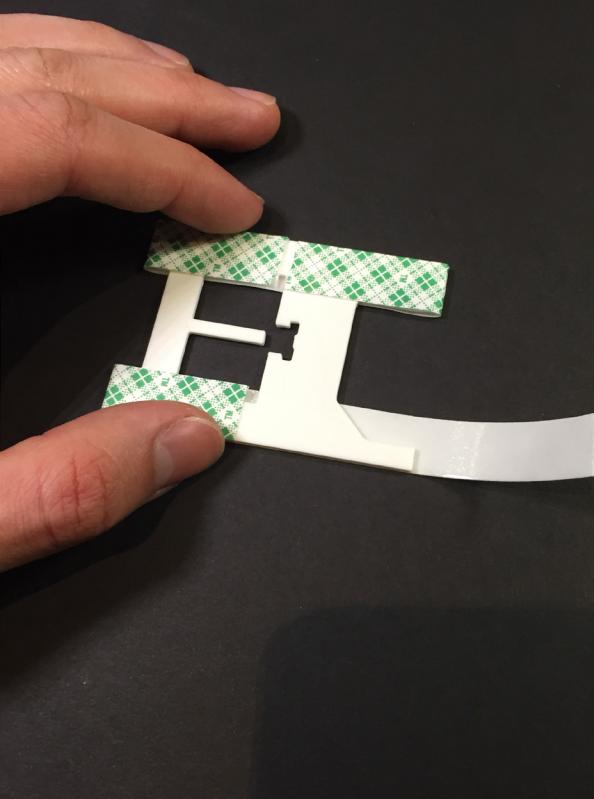
3) Separate screen sled from screen assembly, being careful not to tear support foam.



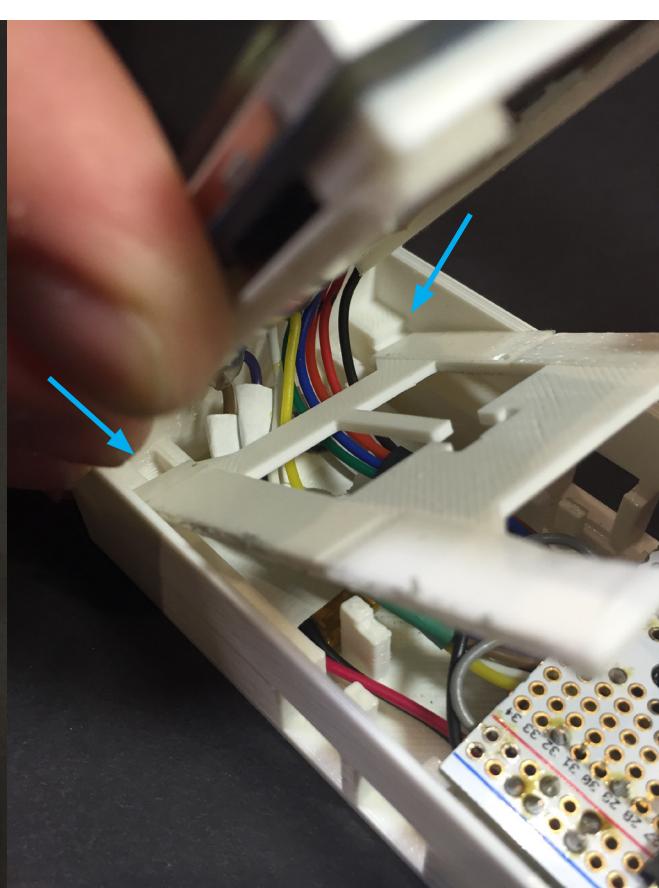
4) Remove old tape from screen sled.



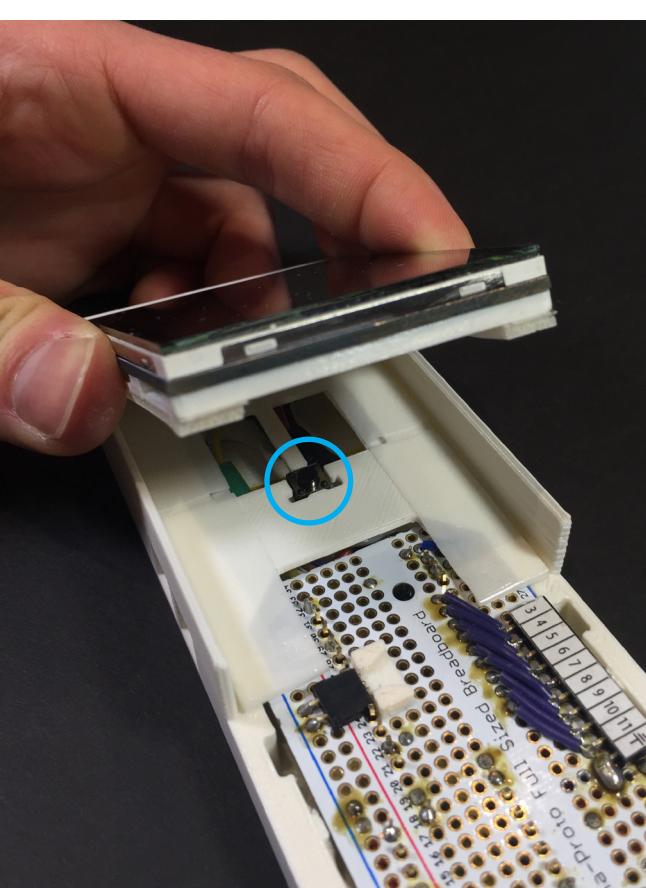
5) Cut 2 new pieces of tape to 5.5 inches.



6) Apply new tape to sled, wrapping it around the long edges.



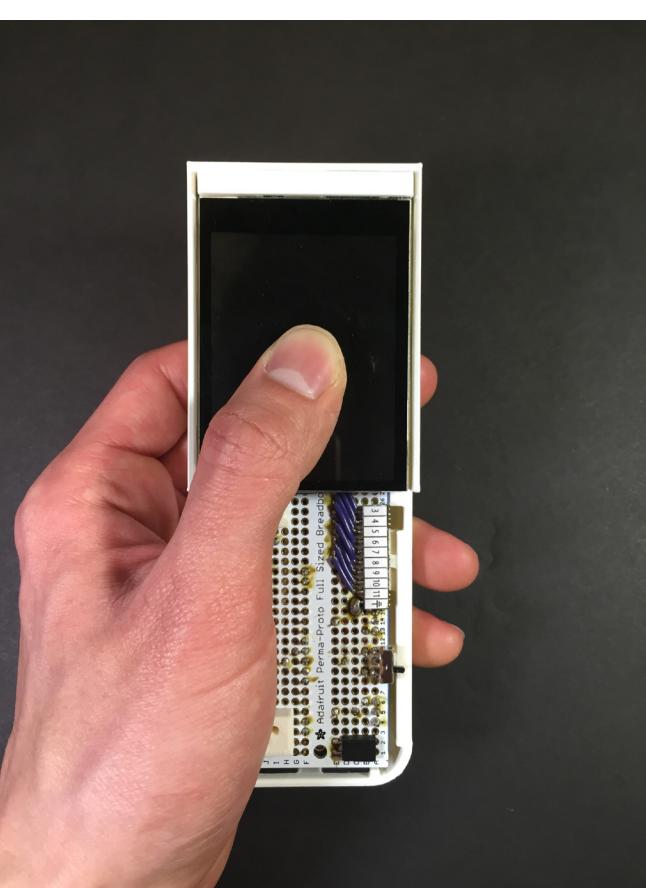
7) Place sled into remote top-edge first. Sled will touch off on small steps inside top of remote enclosure.



8) Press sled down onto remote enclosure. Center button should align with hole in sled.



9) Center and place screen back into place. Allow clearance on all sides so screen doesn't interfere with enclosure when it is pressed.



10) Press the screen down gently in each corner and in center to make sure tape holds firm.