



How does it work?

It's easy, you just need a small amount of curiosity. Simply touch the illustrations and watch the display change before your very eyes.

Give it a try.

**Interactive Wall Kit**

Connect, create and engage with touch sensors.

Project and image by Dalziel and Pow

**You're on your way to make an interactive wall!**

We've seen and built many interactive walls in our time. In this kit, we are transferring all our knowledge to you.

We've carefully gathered a collection of the tools, resources, tips and tricks you need to make the process as easy and stress-free as possible. No searching for the right screws, no looking for the right tutorial. They're already here ready for you. All you need to do is add your creative touch.

Use this Interactive Wall Guide as a tool to help you navigate through your kit and build. It will lead you towards more detailed information, resources and tutorials online.

Happy building - we can't wait to see what you come up with!

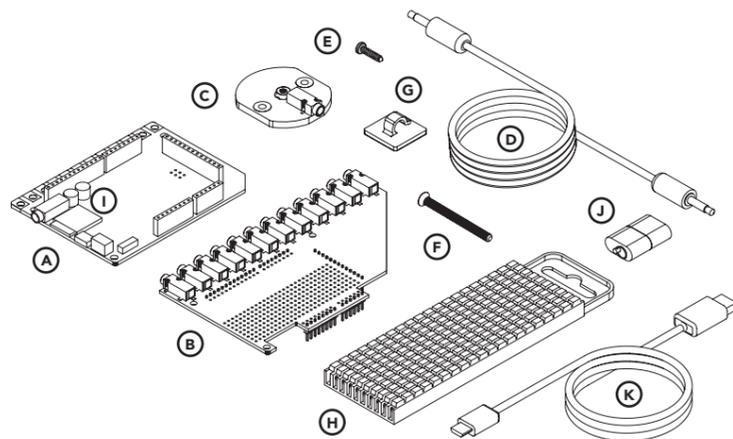
Download this Interactive Wall Guide as a PDF at: [www.bit.ly/IWK\\_Guide](http://www.bit.ly/IWK_Guide)

Or use the search terms to navigate to the digital version of each resource at:

[bareconductive.com/make](http://bareconductive.com/make)

Search: **Interactive Wall Guide**

**GET TO KNOW YOUR KIT**



- A. Touch Board with pre-soldered headers x1
- B. Electrode Shield x1
- C. Electrode Pads x12
- D. Shielded Cable, 5m, 3.5mm Jack Plug-Plug x12
- E. Self Tapping Screw No.4 x 9.5mm x30
- F. M3 Machine Screw x 30mm x12
- G. Cable Management Clips x50
- H. Cable Marking Set x1
- I. microSD Card x1
- J. microSD Card Reader x1
- K. Micro USB Cable x1

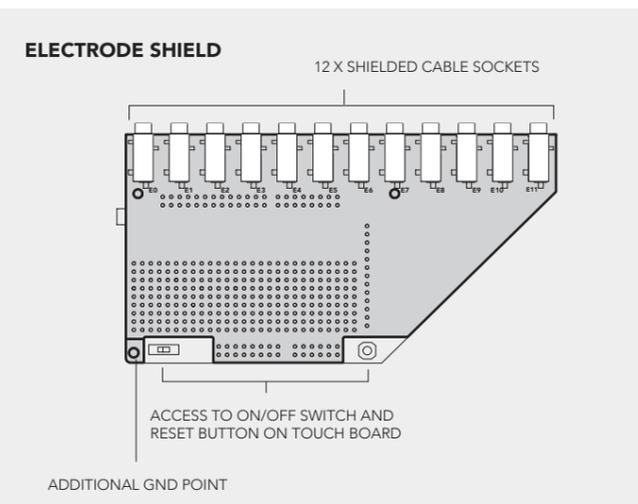
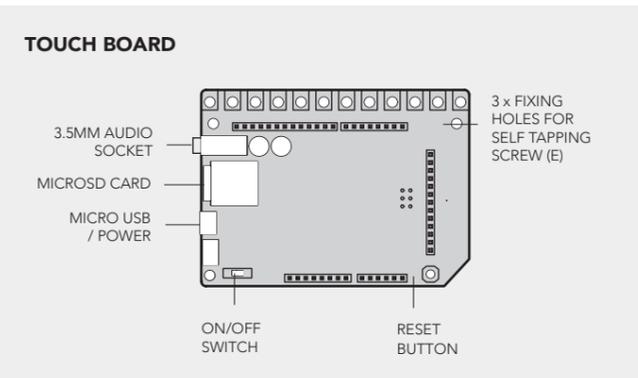
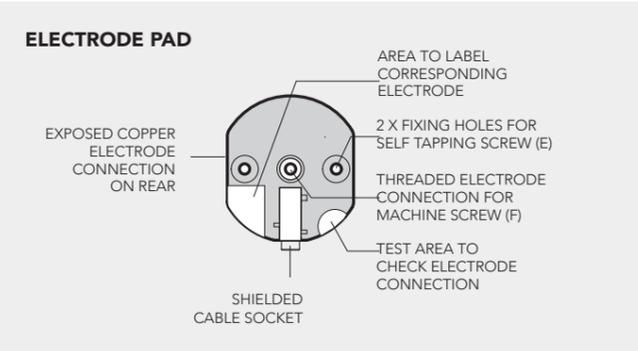
**1 | YOUR TOOLS**

There are just five steps to see your sensors in action. Before you start, you will need to set up your Touch Board. Then, follow the instructions to the right to activate your kit and familiarise yourself with the three clever circuit boards that will power your interactive wall.

**Set up the Touch Board + Arduino**

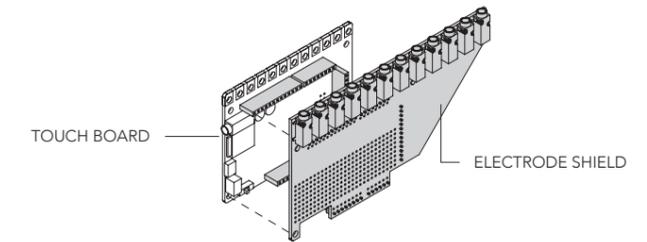
The Touch Board comes pre-programmed to play sound, but it can have other output options. Before you begin putting your kit together, follow this simple tutorial to set up the Arduino software and change the code on the Touch Board so it works with your shielded cables

Search: **Arduino**

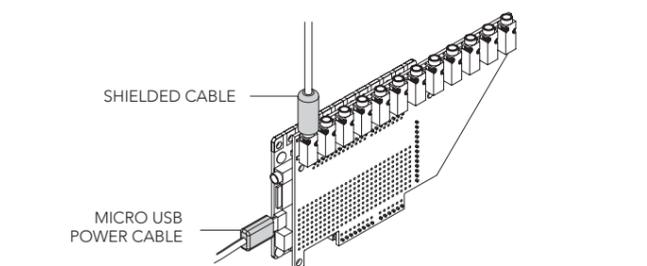


**2 | QUICK START**

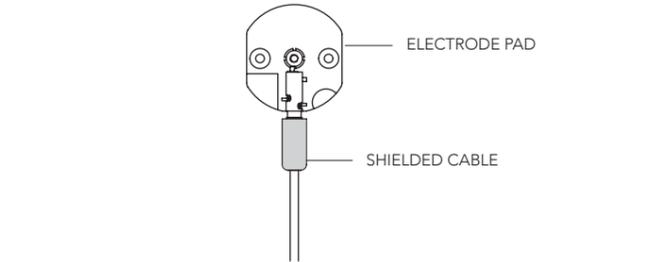
**1** Carefully attach the Electrode Shield onto the Touch Board. Make sure the headers are aligned.



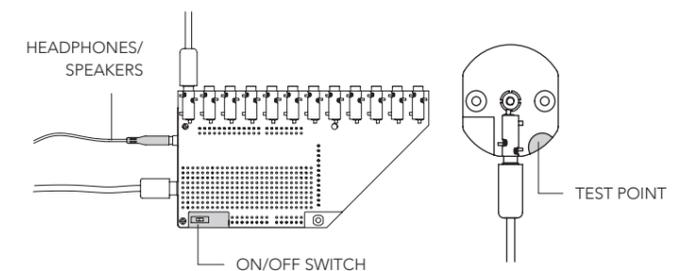
**2** Connect the Micro USB cable to the Touch Board and a power source. Plug a shielded cable into electrode E0.



**3** Connect the other end of the shielded cable to an Electrode Pad.



**4** Connect your headphones or speakers to the Touch Board's audio socket and switch the Touch Board on. Wait for the red light to stop flashing. Now touch the Test Point on the Electrode Pad to hear the Touch Board Audio Guide.



**5** If you want more details, or have any trouble getting your sensors to work, check out our troubleshooting guide online for more detail:

[www.bit.ly/IWG\\_help](http://www.bit.ly/IWG_help)

### 3 | PLAN

Thinking about making a sound mural or using projection mapping? There are lots of ways to use this technology. We've gathered everything you need to start planning here.

#### Wall Specifications

Now that you've tested your kit you can get to the exciting part, designing your wall. You can choose to build a false wall with a rear cavity, so that you can attach, hide and access all the hardware at the back.

Make sure to review the resources in this section. These examples will help you plan and create your wall.

Wall size	Up to 10m x 10m
Wall thickness	Up to 25mm
Number of sensors	Up to 12
Default output	Audio
Advanced outputs	USB MIDI, Serial and more



#### Plan your interaction and design

It's your turn to shine! Check out our guide to the best interactive walls from our community to get some ideas. Get inspired and see what outputs are possible. Find out how to use Electric Paint to make sensors and other graphical options.

Search: [Interactive Walls](#)



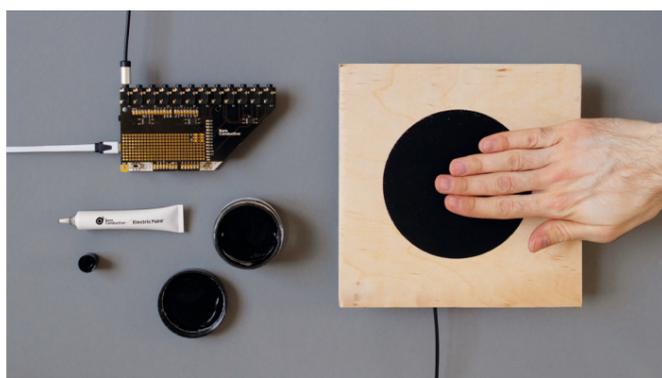
#### Electric Paint 1L

Electric Paint comes in a 1L size, specifically made for large scale interactive walls and installations.

[www.bit.ly/1L\\_paint](http://www.bit.ly/1L_paint)

### 4 | CONSTRUCT

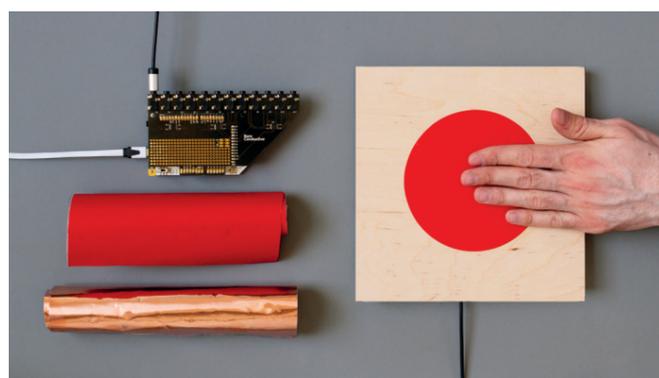
The tutorials below highlight the different materials and tools you can use to design your wall. Find out how to use Electric Paint or a non-conductive material to create your graphics.



#### Wall sensors on front

- Drilling through the wall is required
- Using Electric Paint for graphical sensors
- Sealant is highly recommended to protect paint
- Excellent finger-tip sensitivity can be achieved

Search: [Wall Sensors](#)



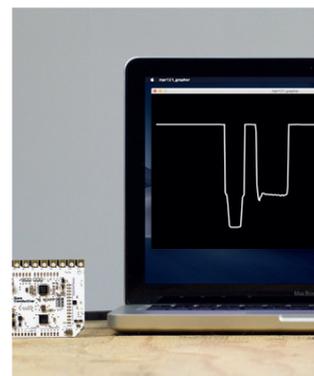
#### Wall sensors on back

- No drilling required
- Using a non-conductive material for graphics
- Reasonable finger-tip sensitivity can be achieved
- Sensors will be less sensitive than 'Wall sensors on front'

Search: [Wall Sensors](#)

### 5 | FINESSE

Tune your sensors and add the finishing touches to elevate the finish of your installation.



#### Calibrate sensors

The sensitivity of your sensors will vary depending on their size and other factors. Calibrate them to trigger with just the right touch.

Search: [Calibrate](#)



#### Choose speakers

Using speakers? Learn which speaker options you have with the Touch Board and how to use Bluetooth speakers in your installation.

Search: [Speakers](#)



#### Cable management

Follow our best practice guide to build a reliable wiring set-up that is easy to install, troubleshoot and maintain.

Search: [Cable management](#)



#### Seal Electric Paint

We've tracked down the best protective coatings to make sure your Electric Paint graphics stay beautiful and clean through heavy use.

Search: [Seal](#)

### ADDITIONAL RESOURCES

Need more information, inspiration or help? We've probably covered the answer you need in a tutorial.

#### Projection mapping with the Touch Board

Link your Touch Board to a projector to create magical visuals. Compatible with MadMapper, Resolume and more.

Search: [Touch Board Projection Mapping](#)

#### Sound installations with the Touch Board

Want to build a music interface or a music mixing wall? The Touch Board works great with Ableton Live. Find out how.

Search: [Ableton](#)

#### Prototyping with the Electrode Shield

Wondering what else the Touch Board + Electrode Shield can do? Learn how to use the prototyping area to add LEDs, wireless capability and more.

Search: [Electrode Shield](#)

#### Touch Board Troubleshooting

Electrodes not behaving? Learn how to debug the Touch Board in the Arduino IDE and move forward with your project.

Search: [Troubleshooting](#)

#### FAQ

Not found what you are looking for? Try our FAQ pages: [www.bit.ly/IWG\\_FAQ](http://www.bit.ly/IWG_FAQ)



We would love to see and share your work!

Send your finished installations to [info@bareconductive.com](mailto:info@bareconductive.com) or tag [@bareconductive](https://www.instagram.com/bareconductive) in your social posts.