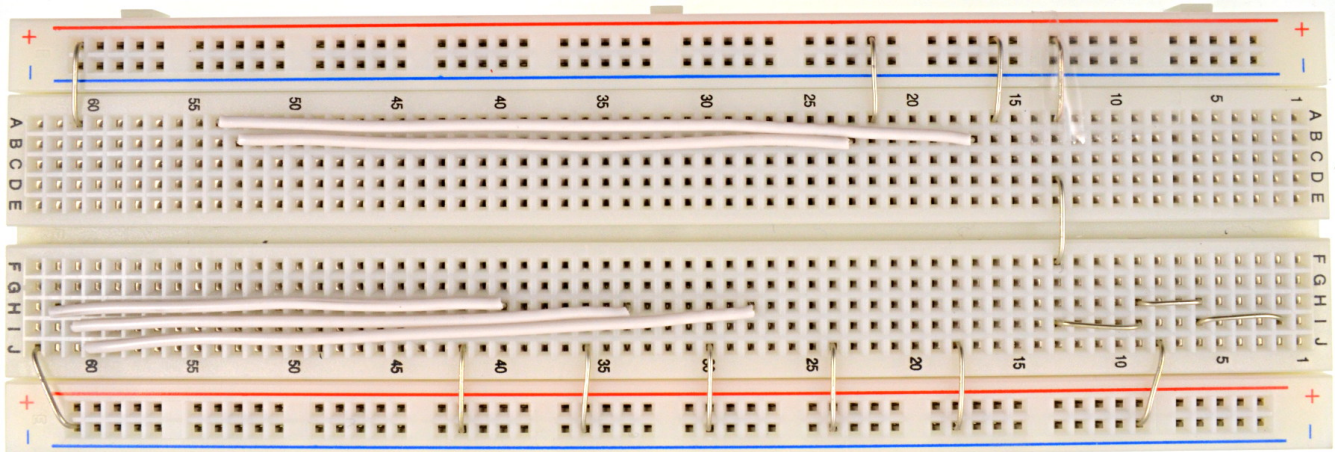


Breadboard Coordinates for the Audio Tutorial



Solid Core Wire

Strip approximately 1/4" - 3/8" (0.7 - 1 cm) insulation from each end and bend to fit into breadboard

Length Imperial	Length Metric	Coordinates
4 3/8"	11 cm	A54, B17
3 1/2"	9 cm	B53, B23
2 11/16"	6.3 cm	H62, H40
3 3/16"	8 cm	I61, H34
3 11/16"	9.3 cm	J60, H28

Solid Core Wire

Fully stripped, bend ends to fit into breadboard

Length Imperial	Length Metric	Coordinates
7/8"	2.2 cm	A13, + (power, red) 13 <i>We recommend putting a piece of tape over this wire so that it does not touch the bottom of the display</i>
7/8"	2.2 cm	A16, + (power, red) 16
7/8"	2.2 cm	A22, + (power, red) 22
7/8"	2.2 cm	A61, + (power, red) 61
7/8"	2.2 cm	D13, F13
7/8"	2.2 cm	I2, I6
7/8"	2.2 cm	I9, I13
7/8"	2.2 cm	J8, - (power, blue) 9
7/8"	2.2 cm	J18, - (power, blue) 18
7/8"	2.2 cm	J24, - (power, blue) 24
7/8"	2.2 cm	J30, - (power, blue) 30
7/8"	2.2 cm	J36, - (power, blue) 36
7/8"	2.2 cm	J42, - (power, blue) 42
7/8"	2.2 cm	J63, - (power, blue) 61
13/16"	2 cm	H6, H9

Components

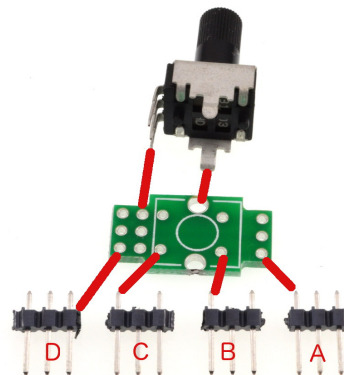
Component	Coordinates
Teensy 3.2, with Audio Shield attached	C50-63, G50-63
Pushbutton	F28, F30
Pushbutton	F34, F36
Pushbutton	F40, F42
Pot, 10k	C22-24, H22-24
Pot, 10k	C16-18, H16-18
Display	G1-9

Colored Wire for Display

Strip approximately 1/4" - 3/8" (0.7 - 1 cm) insulation from each end

Color	Coordinates
Grey	J1, J50
Orange	J3, A51
Brown	J4, J55
Green	J5, A57
Purple	J7, A58

Pot Assembly



Preparation

Cut the 12-pin header into 4 sections with 3 pins each

Snip the short pin in the middle of 2 of the sections (Sections B, C)

Soldering Order

- 1 - Pin section A
- 2 - Pin section B
- 3 - Pin section C
- 4 - Pot
- 5 - Pin section D