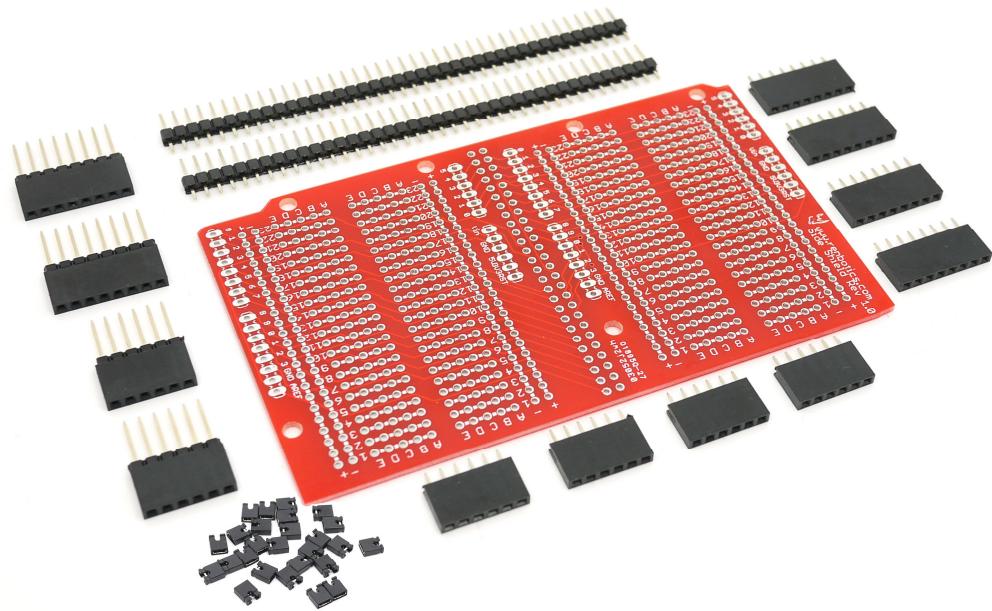




Renbotics

Side Shield



Applications

- Robotics
- Animatronics
- Mechatronic Art

Features

- Configurable Pin Mappings
- 2 x 322 Point breadboard style prototyping areas
- Compatible with Arduino Duemilanove and Arduino Uno



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Tables and Images

Image 1: Renbotics Side Shield Overview

Image 2: Renbotics Side Shield Parts

Image 3: Assembly Step 1

Image 4: Assembly Step 2

Image 5: Assembly Step 3

Image 6: Assembly Step 4

Image 7: Assembly Step 5



1. License



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3. Description

The Renbotics Side Shield makes it easy to extend your Arduino shield stacking sideways, remap conflicting pins between shields, and simplify using 3.3V shields with 5V Arduino's or compatible.

4. Features

- Configurable Pin Mappings
- 2 x 322 Point breadboard style prototyping areas
- Compatible with Arduino Duemilanove and Arduino Uno

5. Applications

- Robotics
- Animatronics
- Mechatronic Art



6. Parts List

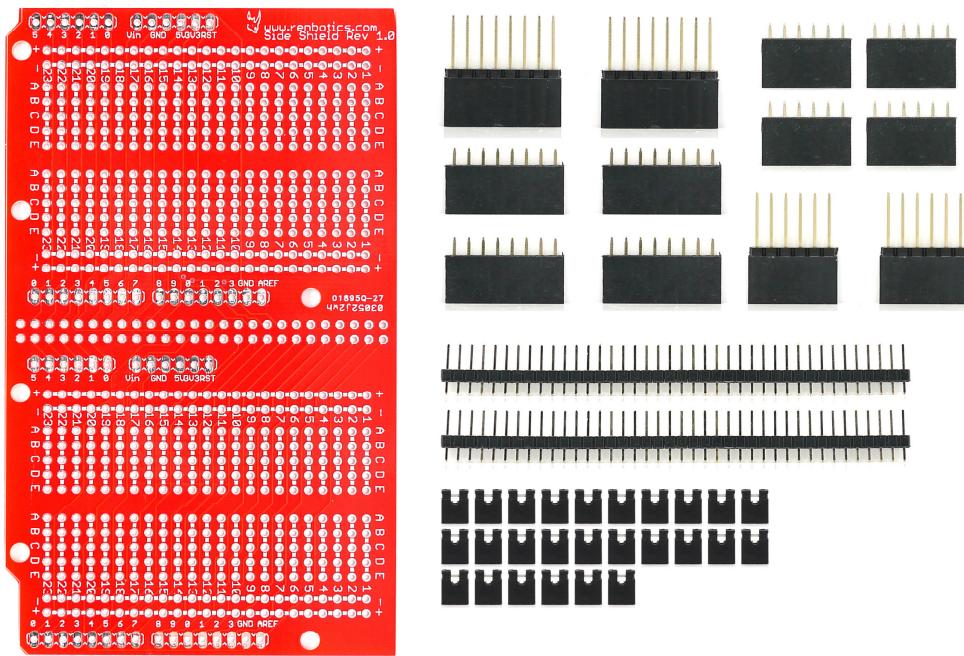


Image 2: Renbotics Side Shield Parts

- 1 x Renbotics Side Shield Bare
- 2 x 40 pin Male Breakaway Headers
- 2 x 6 pin Female Shield Stacking Headers
- 2 x 8 pin Female Shield Stacking Headers
- 4 x 6 pin Female Headers
- 4 x 8 pin Female Headers
- 26 x Jumpers



7. Assembly

1. Cut the two 40 pin male headers to length and solder in place.

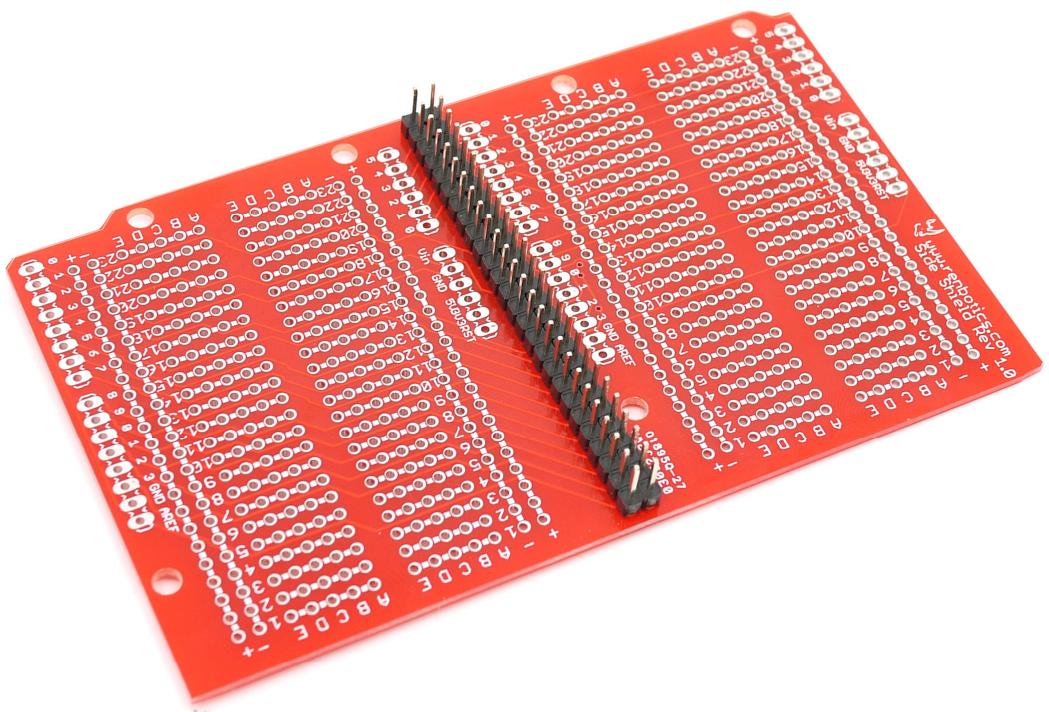


Image 3: Assembly Step 1



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2. Solder 2 x female 6 pin headers and 2 x female 8 pin headers to the left side
- OR
- Solder 2 x female stacking 6 pin headers and 2 x female 8 pin headers. See step 5 for more information.

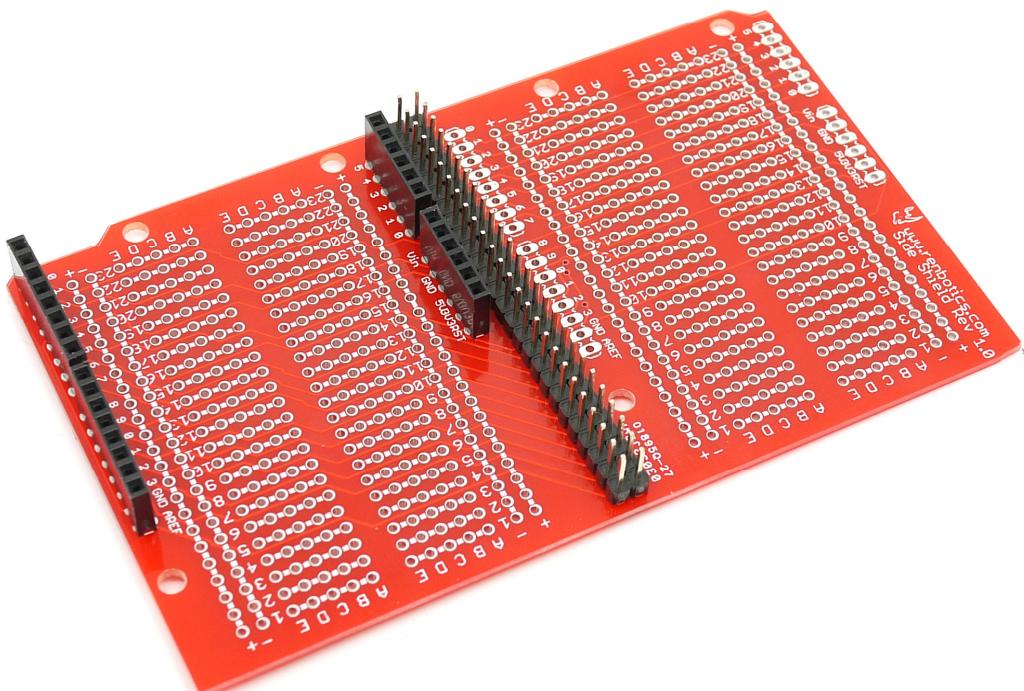


Image 4: Assembly Step 2



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3. Solder 2 x female 6 pin headers and 2 x female 8 pin headers to the right side

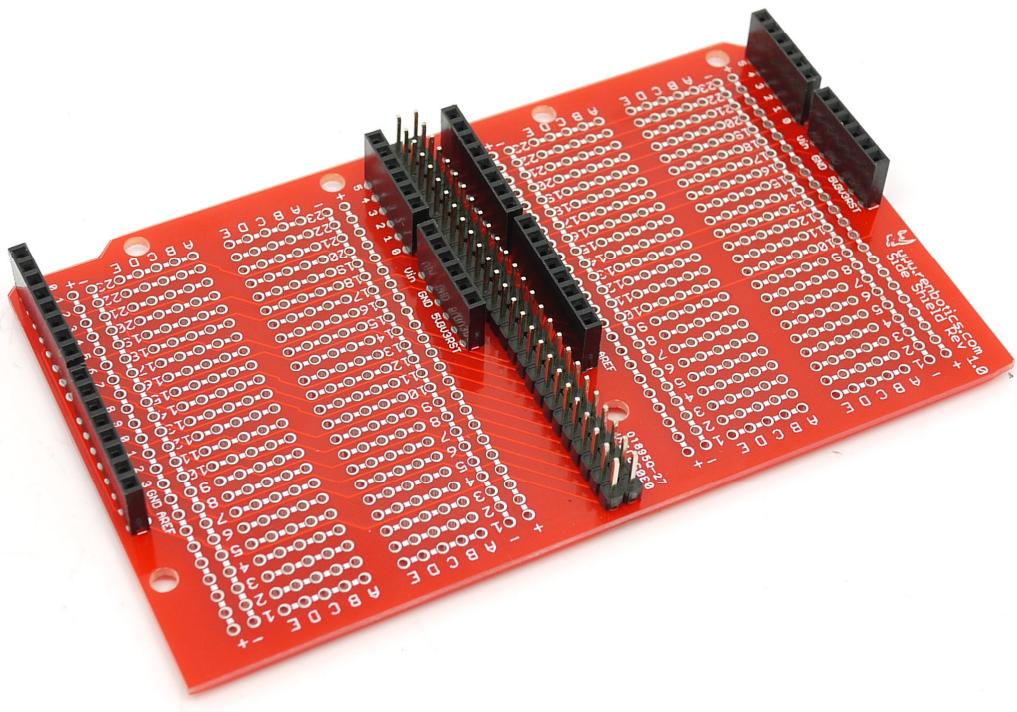


Image 5: Assembly Step 3



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4. For straight through connections from the left to the right side install the 26 jumpers.

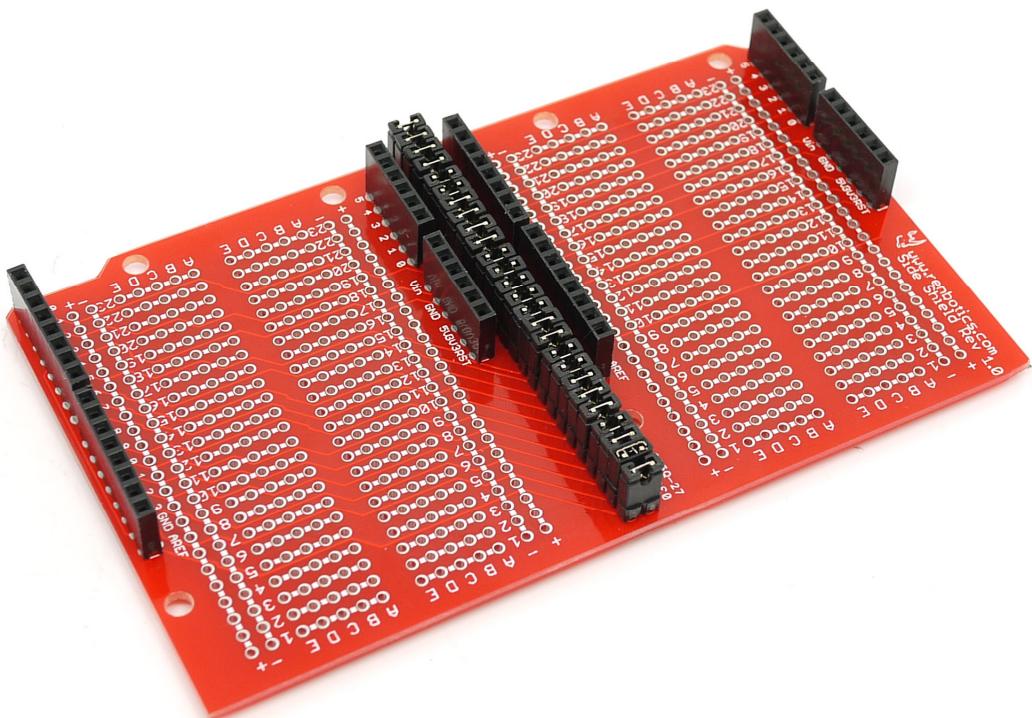


Image 6: Assembly Step 4



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5. Optional: Remove the female headers from your Arduino, Seeeduino etc. and replace with the supplied stacking headers.

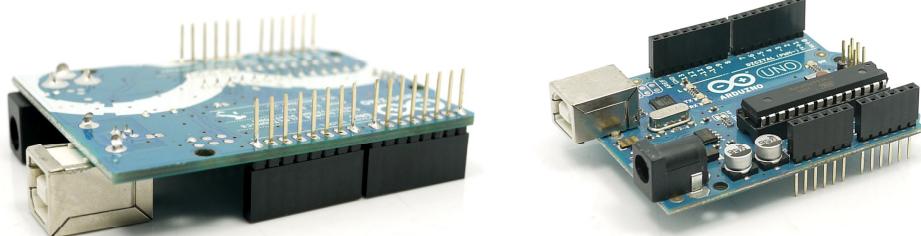


Image 7: Assembly Step 5



8. Pinout

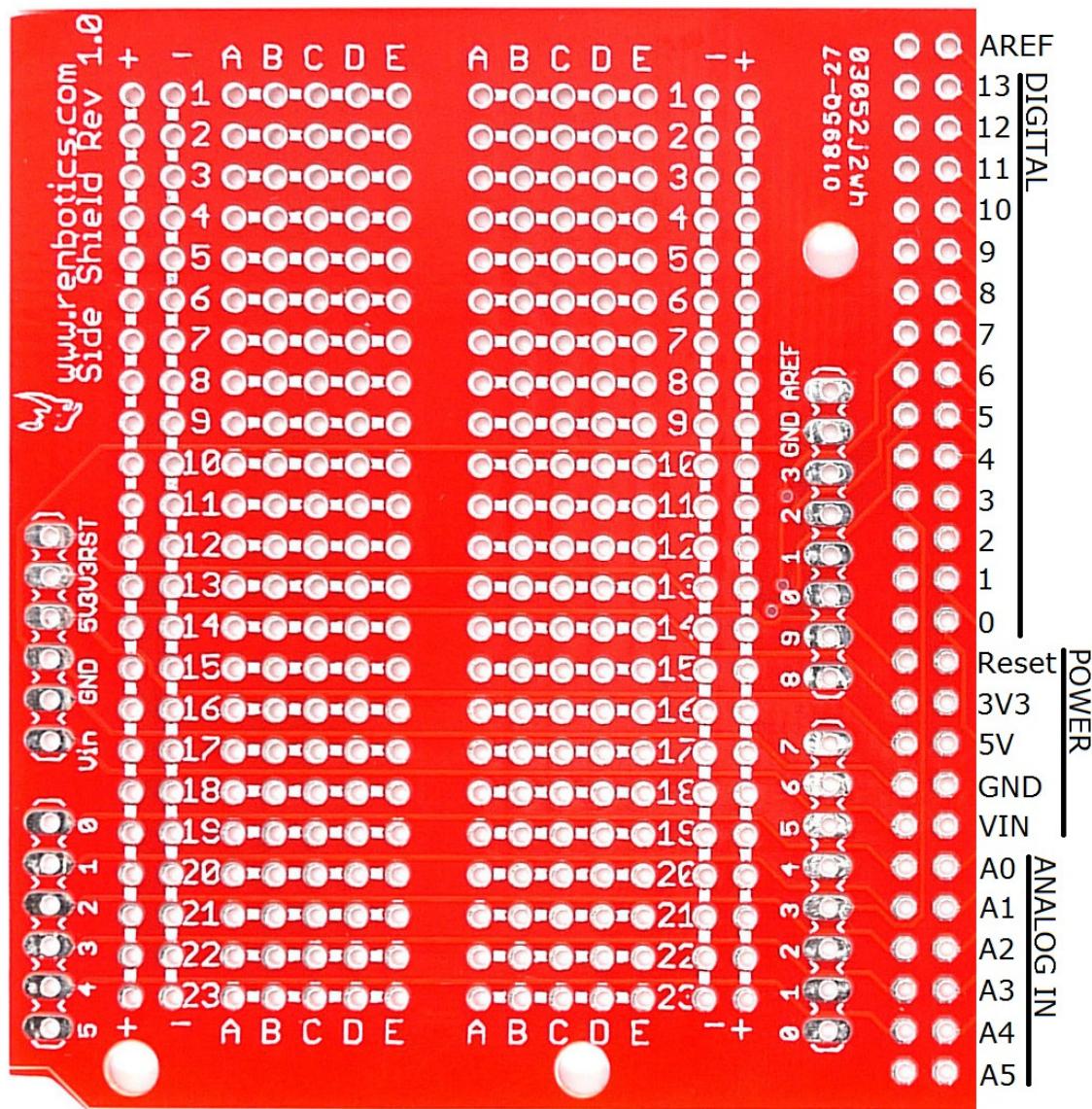


Image 8: Pinout