

Honey Loaf Builders Guide



Builder's Notes:

You can access all build documents on hiverbuzz.com.

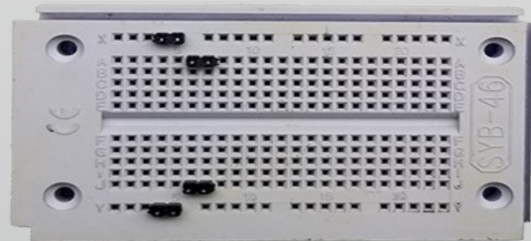
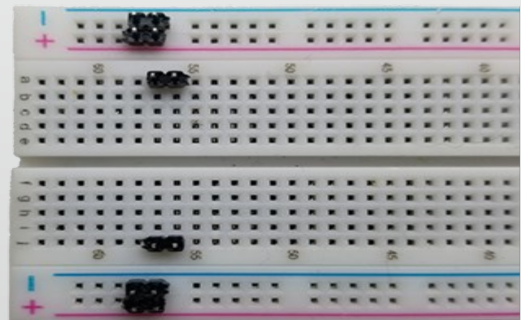
It is highly recommended that you take advantage of the interactive BOM.

Please check the BOM to make sure you have all parts before starting your project.

Step 3

Add connector headers to a breadboard using one of the two patterns shown.

The Honey Loaf is designed to attach to two types of breadboards. It can only be built to attach to one of the two types. Please choose the pattern that matches your breadboard. If you use both types of breadboards then you'll need more than one Honey Loaf.



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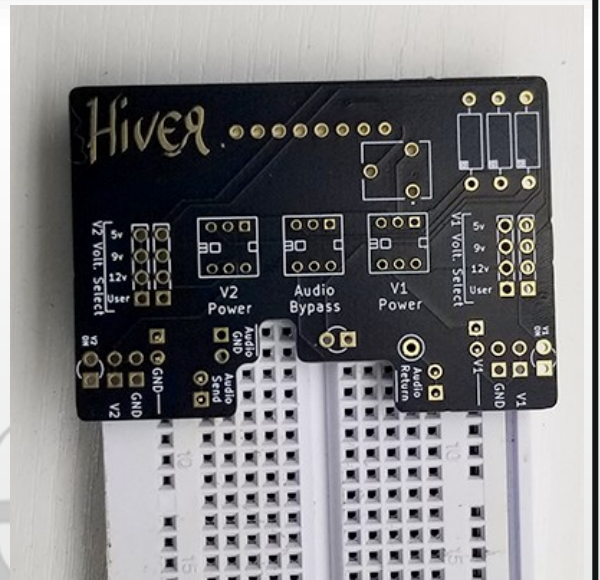
Step 2

Position the Honey Loaf PCB across the headers as shown.

The other variation will look slightly different, with having power and ground rails on both sides.

Hold the board down firm against all of the header pins and tack a header pin to hold it in place. Reflow the header pin if adjustment is needed.

After the PCB is correctly aligned and set evenly across all headers you can solder the rest of the connections.

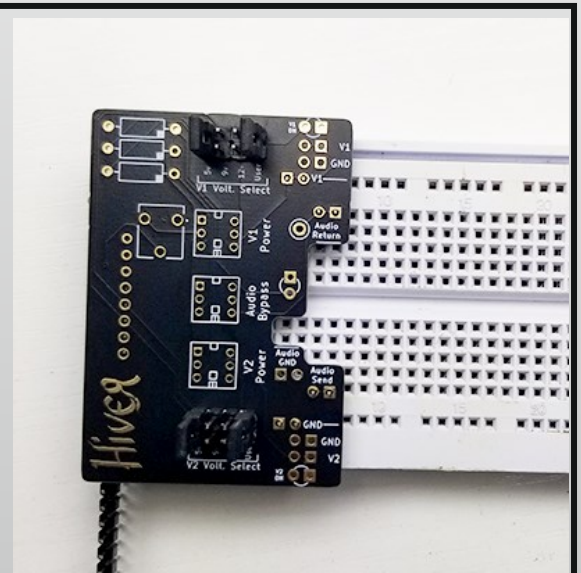


Step 3

Add header rows with jumpers joining them as shown.

Joining the header rows with jumpers before soldering helps to insure the headers are soldered in straight and will easily accept jumpers when used.

As with other components, it is best to tack one header pin and reflow it until you have the proper positioning. Then you can solder the rest of the pins in place.



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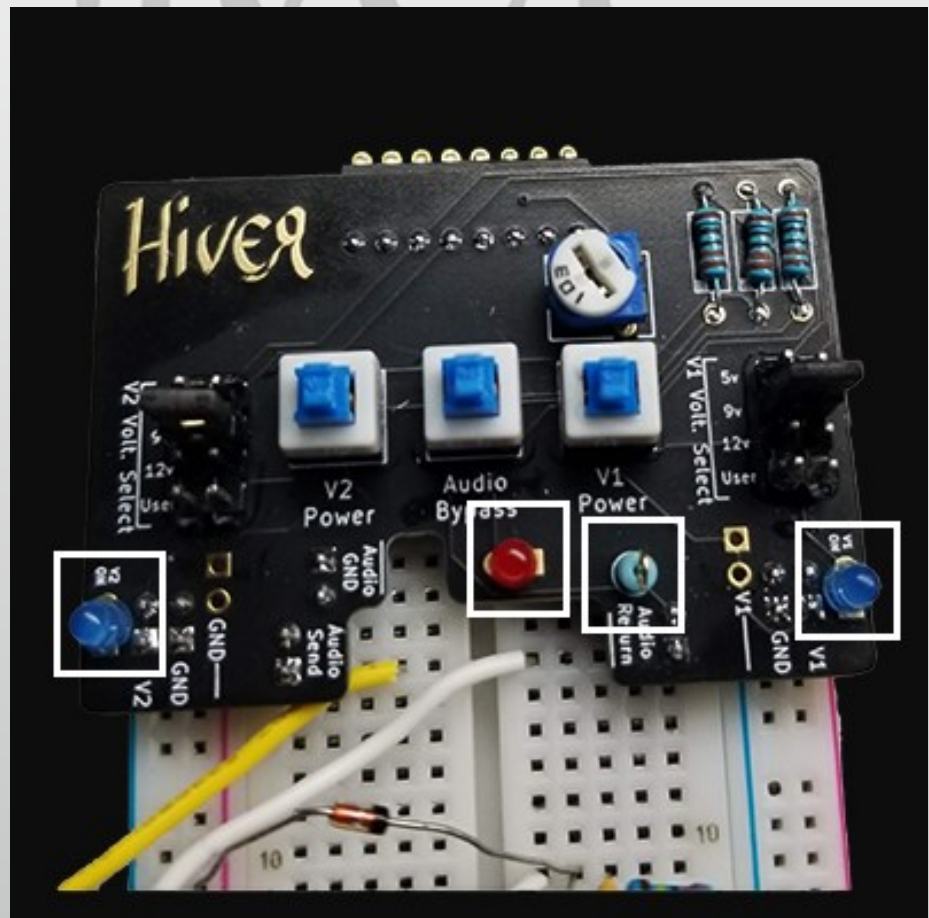
Step 4

The test hook can be inserted by sliding the plastic hoop down to the end of the wire. The plastic hoop should keep the wire leads compressed to fit into the hole while you insert it into the board/ Once all are inserted you can flip the board over and solder them in place then trim the leads short.

Step 5

Place the LEDs. The short lead should go towards the square pad. If an LED does not work you should always check orientation.

You can use the same tricks we used on resistors to get it to set flush against the board and solder it into place. Take care to trim the leads.



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Step 6

Add the blue and white DPDT push button switches.

There are markings on the PCB that show the orientation.

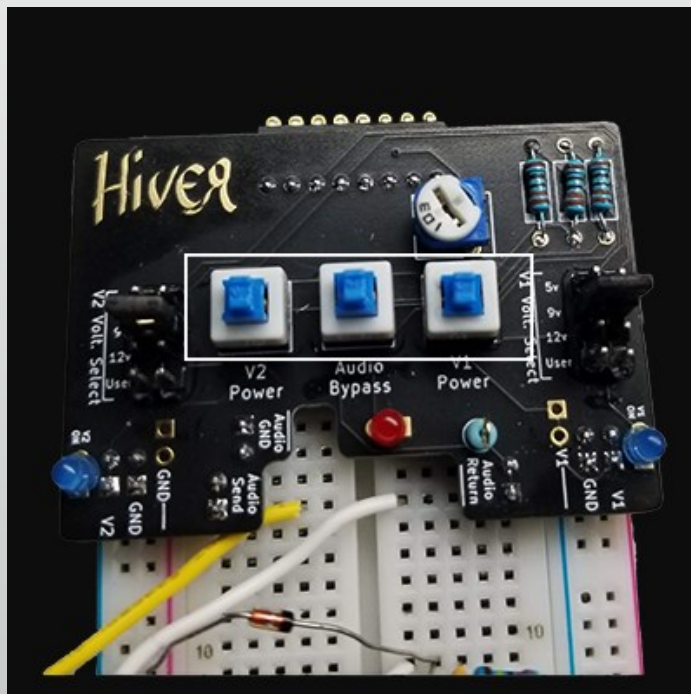
You can bend two opposing leads to hold them in place. Tack, reposition, and retack as needed to get the correct alignment.

Once it is aligned as you like you can solder the rest of the leads, reflow the tacked leads, and trim short.

Step 7

Add the circuit board potentiometer.

It is best to tack one leg, adjust, and reflow until you get the desired look. Then solder the remaining legs.



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Step 7

Add the right angle header pins that attach to the Queen Bee.

There are other ways to do this, but this is the way I've found to be the best for alignment purposes.

A. Insert the right angle header pins into the female header of the Queen Bee. Please note the location of the Plastic spacer on the male header assembly.

B. Position the Honey Loaf over those header pins as shown in the photos. For proper height make this assembly with the Honey Loaf put in place on a breadboard.

C. Tack one of the header pins and reflow and re-position as needed.

D. Solder the rest of the pins.

E. Remove the plastic header spacer. This is best accomplished by using needle-nosed pliers to grab the entire spacer and pulling each end towards the exit in a back and forth motion. Pull firmly, but work slowly and carefully.

