

## Building Block Robotics

ABN: 83 156 214 729

Email: [info@buildingblockrobotics.com](mailto:info@buildingblockrobotics.com)

Website: <https://buildingblockrobotics.com>

Phone: 3869 0885

Address: 47 Noble Avenue,  
NORTHGATE, QLD,  
AUSTRALIA, 4013.

Welcome to your Building Block Robotics IR Seeker 'hood' do-it-yourself upgrade kit. Enclosed in this kit are the 2 'hood' halves to complete your upgrade. The photos below show both sides of the hood halves.

**TOP**



This indicates the top of each hood half. The protective film gets removed AFTER the part is glued to the IR Seeker.

### **IMPORTANT**

These parts are fragile. Extreme care must be taken when handling these parts. Flexing these halves will cause them to break.

Do NOT remove the protective film until AFTER the halves have been glued to the IR seeker.

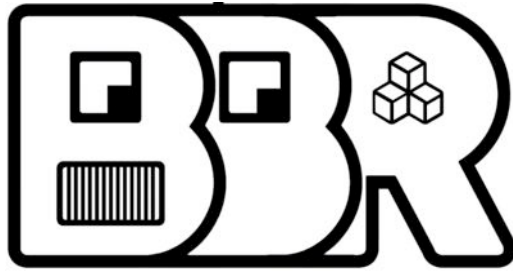
Once glued onto your BBR IR Seeker, the halves will be very strong and will provide considerable collision protection to each ball seeker.

Noticeable improvement to ball detection will also be achieved once the hood upgrade has been installed.

**BOTTOM**



The black side is the bottom side of the hood. Take note of the recess pockets that will set above each ball seeker. This is the side that gets glued to the face of the IR Seeker.



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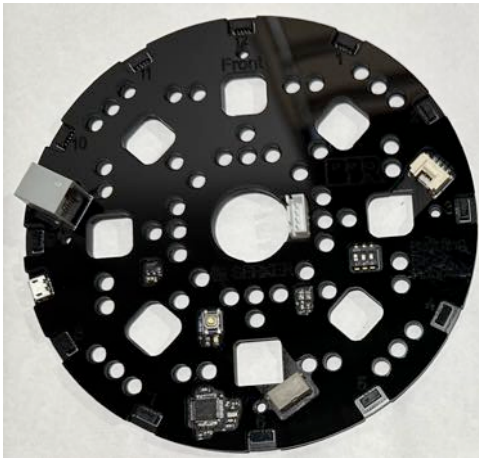
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To complete the do-it-yourself BBR IR seeker 'hood' upgrade, you will need the following:

BBR IR Seeker



2 hood halves



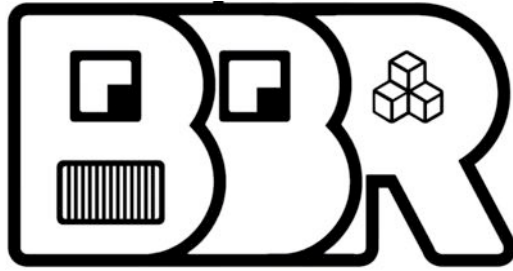
Loctite (control) super glue



a tissue (for wiping excess glue)



**(You must use this specific glue.** It is available from any Bunnings for approximately \$6.



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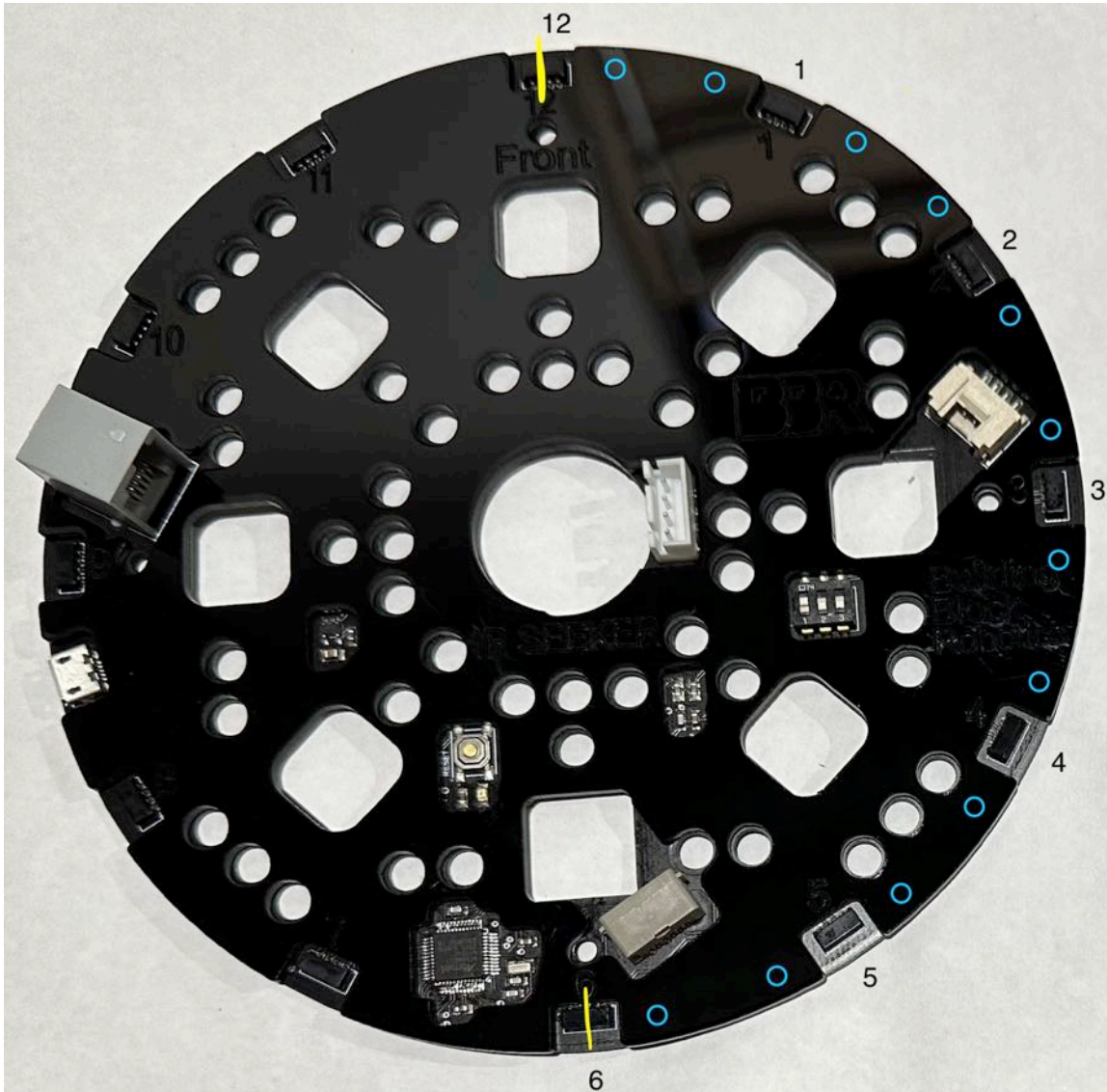
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### STEP 1:

The right hood half will be glued onto the side of the BBR IR Seeker between ball seekers 12, 1, 2, 3, 4, 5, and 6 (refer to the 2 **yellow** lines). Please get it ready.

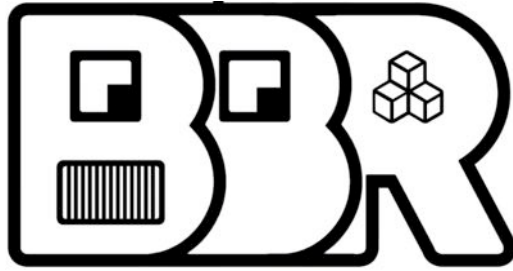


### STEP 2:

Place a small dot of Loctite (control) super glue onto the face of your BBR IR Seeker on the  areas identified.

Please note, the above step should take **no longer** than 5 seconds.





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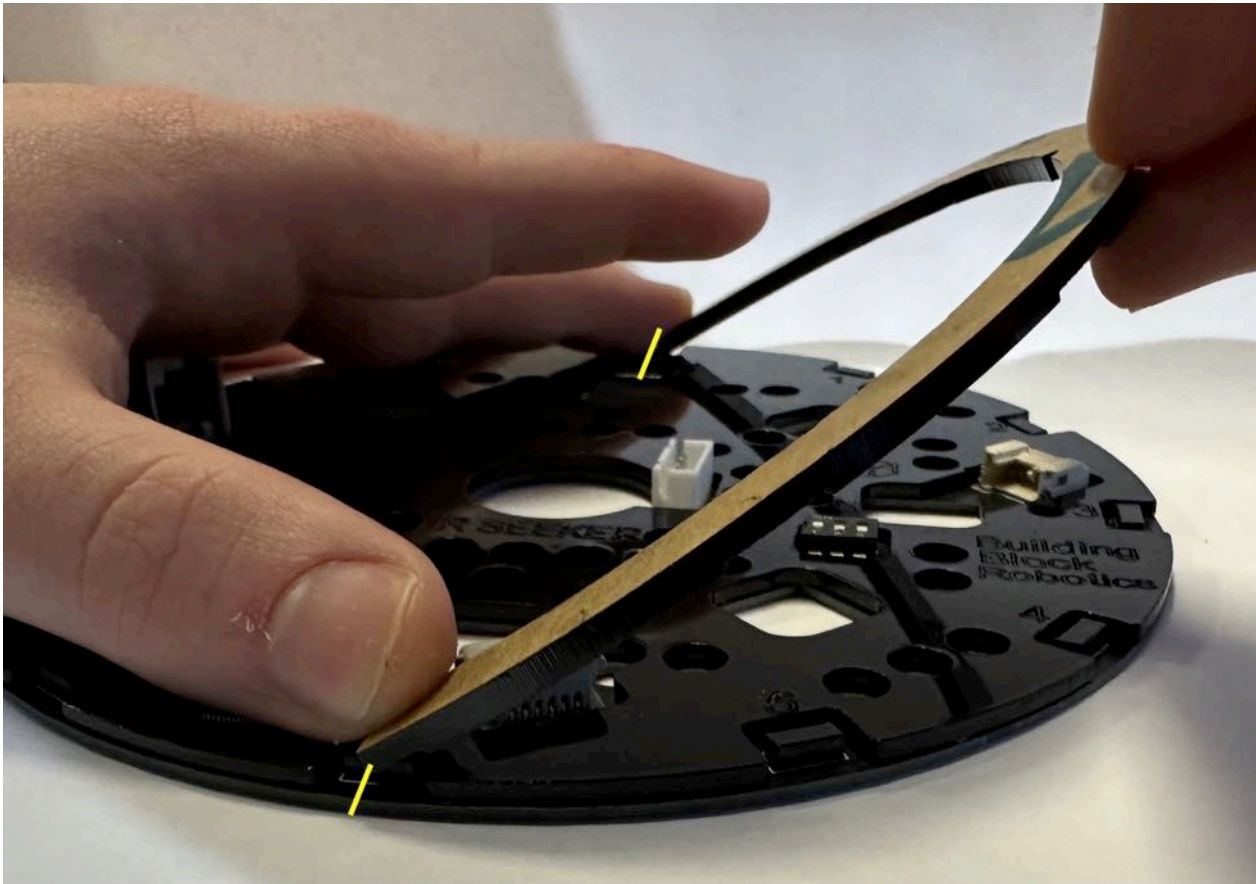
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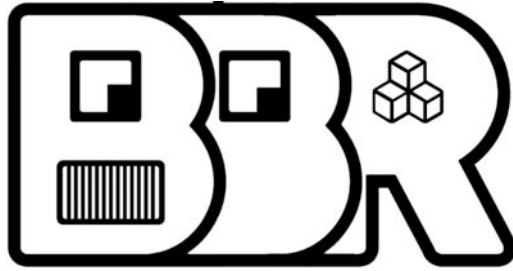


### STEP 3:

Quickly position the ends of the right hood half over the centre of ball seeker 12 and 6 on the BBR IR Seeker, like shown. Hold in position with your thumb and finger.

Make sure it is as centred as it can be and does not go outside the sides of the top of the BBR IR Seeker.

The above step should take **no longer than 3 seconds.**



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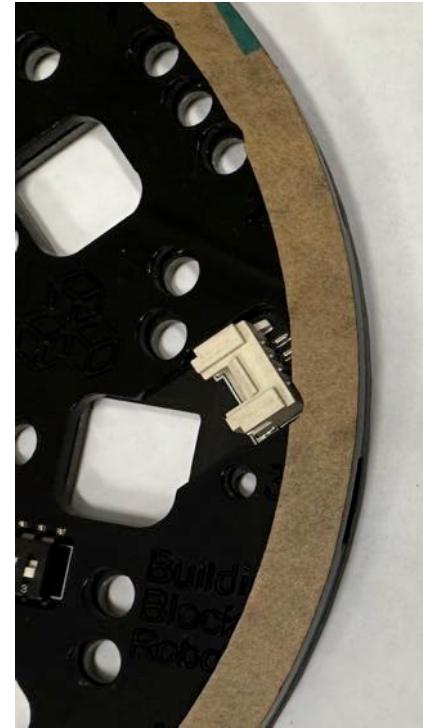
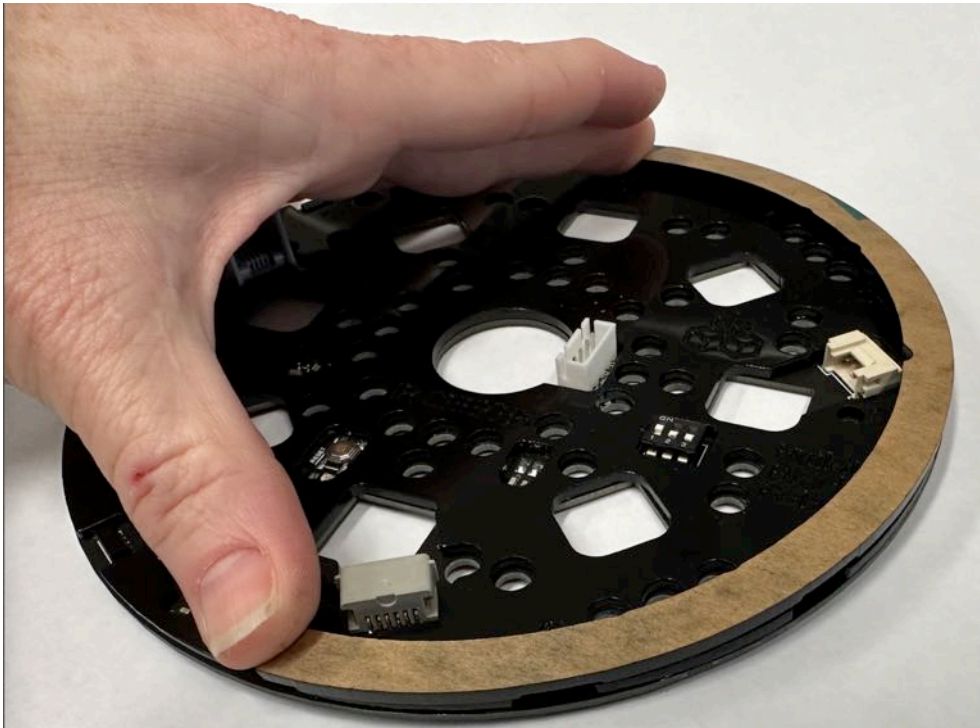
### STEP 4:

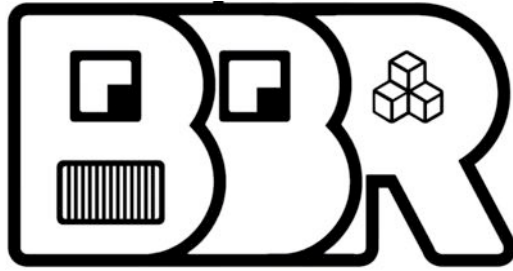
Carefully lower the right hood half into place so that the recess pockets sit above ball seekers 12-6.

Note that only half of ball seeker 12 and 6 will be covered. The remaining half will be covered by the left hood.

This step should take **no longer than 1-2 seconds**.

If required, very quickly and carefully readjust the hood so that the hood is in line with the top face of the BBR IR Seeker. This must be done quickly before the super glue starts curing. Quickly wipe excess glue on the outside of the hood with a tissue.





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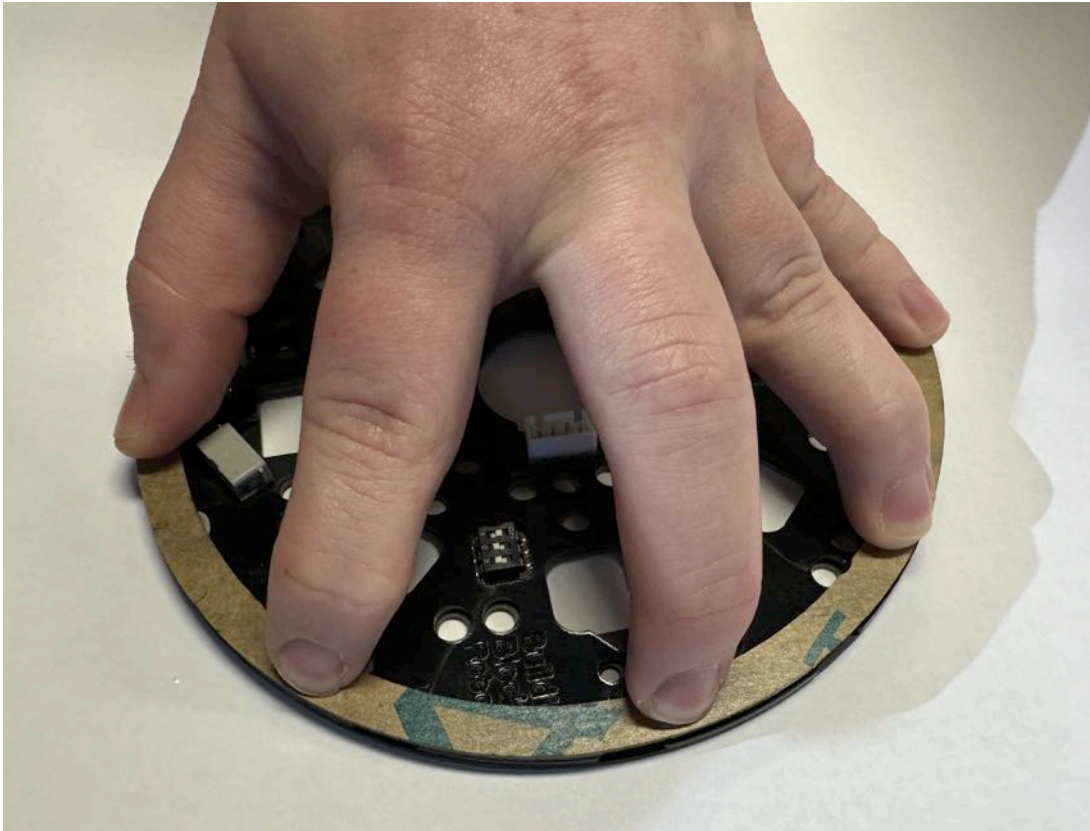
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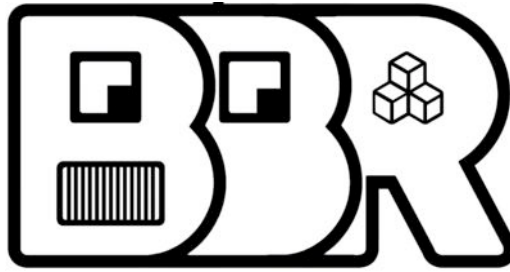
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### STEP 5:

Carefully apply significant downward pressure to all glue spots for at least 10 seconds to allow the glue to set. This may require 2 hands.





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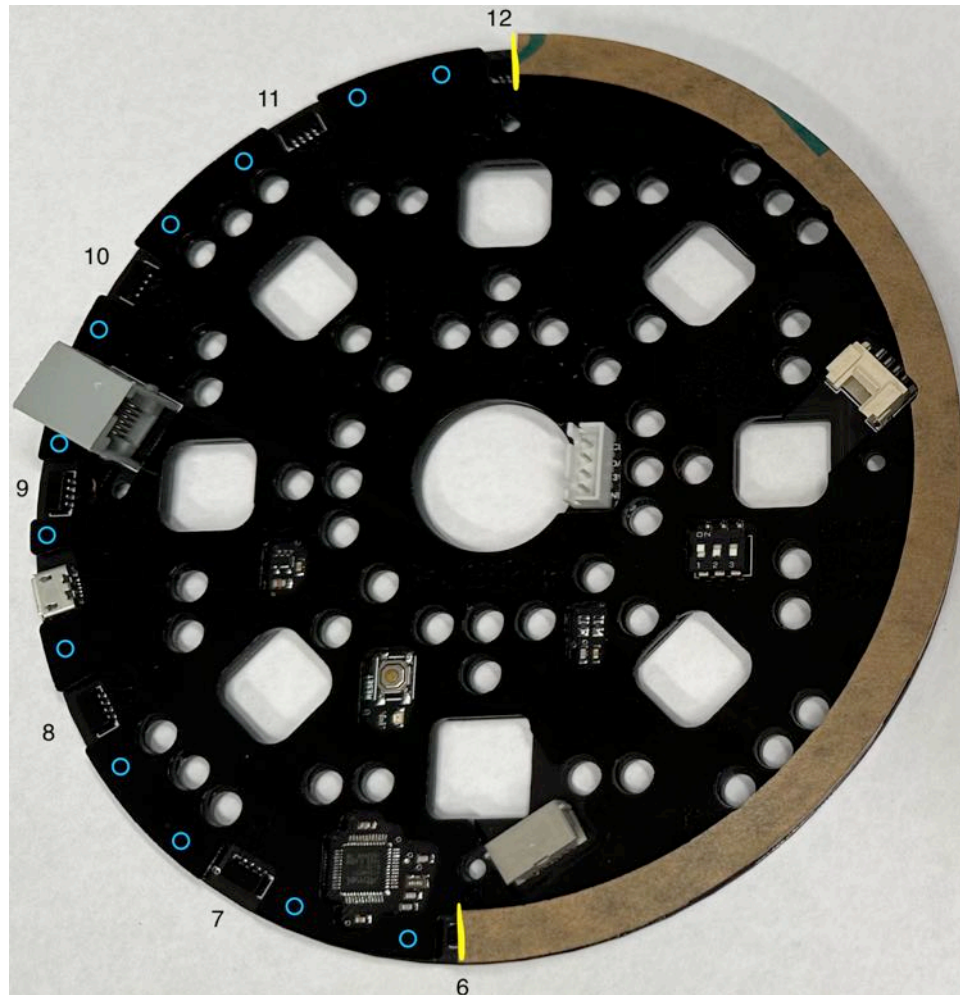
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### STEP 6:

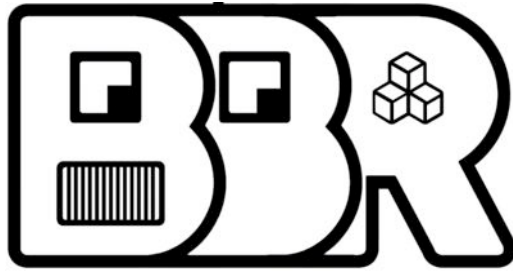
Get the left hood half ready.



### STEP 7:

Place a small dot of Loctite (control) super glue onto the face of your BBR IR Seeker on the  areas identified.

Please note, the above step should take **no longer than 5 seconds.**



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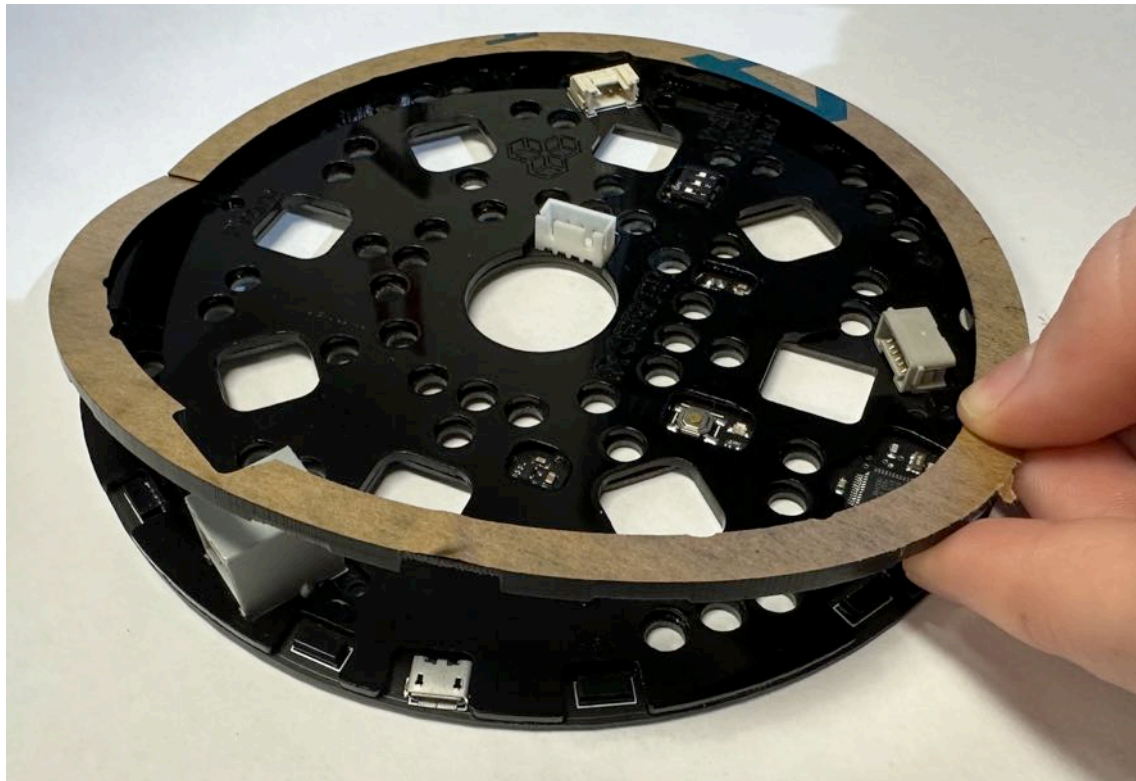
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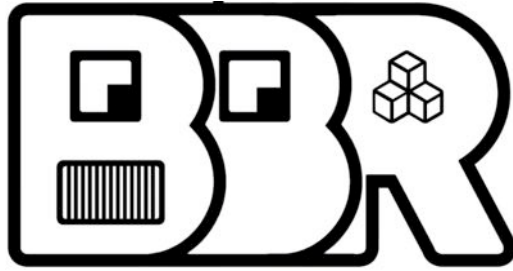


### STEP 8:

Quickly and carefully place the left hood half into position, like shown. Make sure the ends of the hood halves are as close as possible.

Make sure it is as centred as it can be and does not go outside the sides of the top of the BBR IR Seeker.





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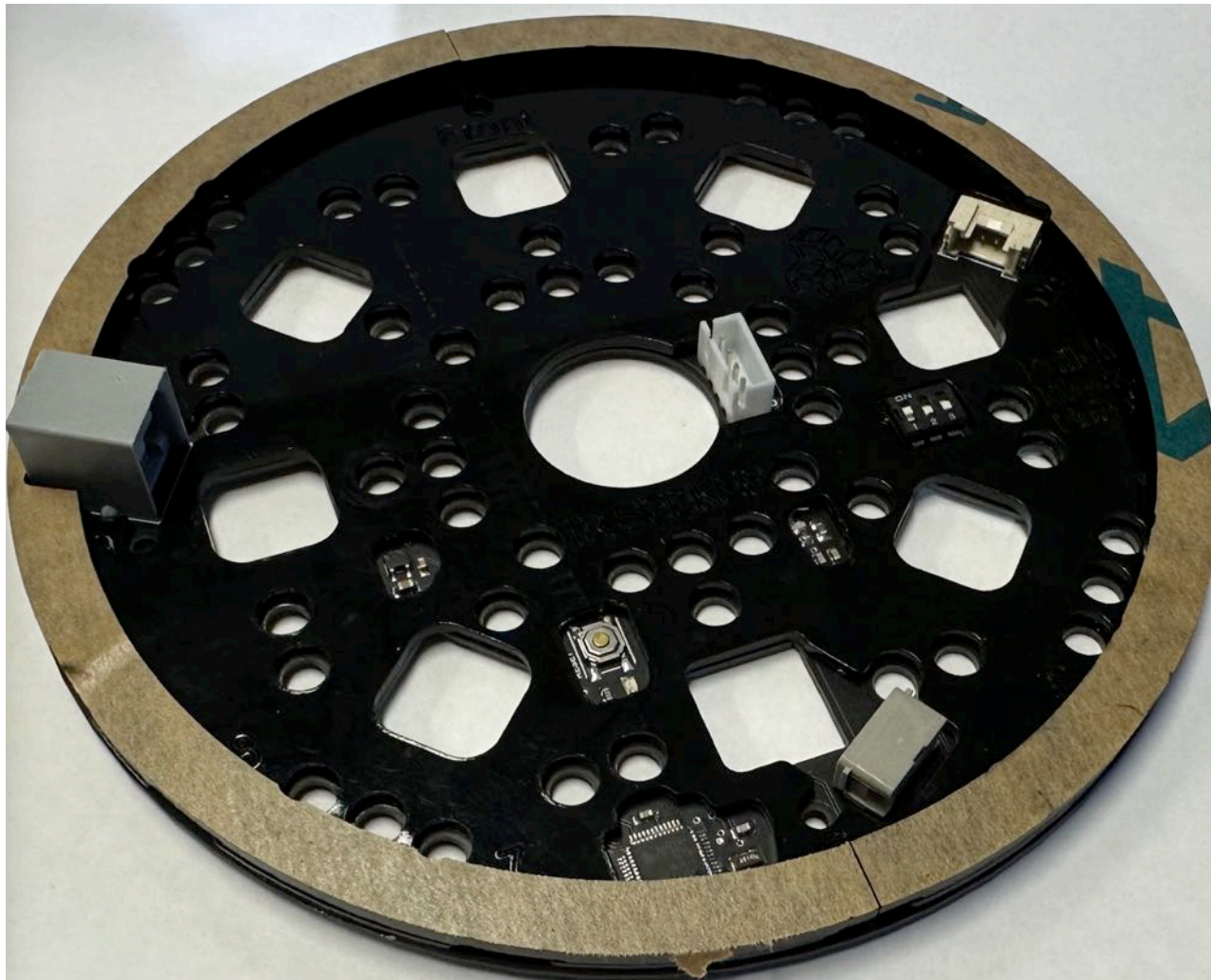
### STEP 9:

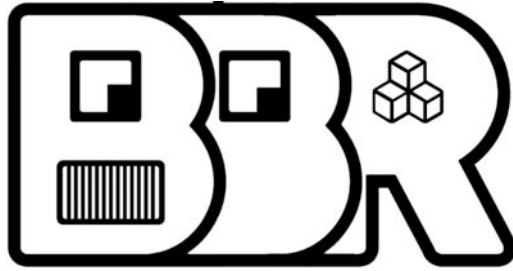
Carefully lower the left hood half into place. Ball seekers 6, 7, 8, 9, 10, 11 and 12 will now be covered.

This step should take **no longer than 1-2 seconds.**

If required, very quickly and carefully readjust the left hood so that the hood is in line with the top face of the BBR IR Seeker. This must be done quickly before the super glue starts curing.

Quickly wipe any excess glue on the outside of the hood off with a tissue.





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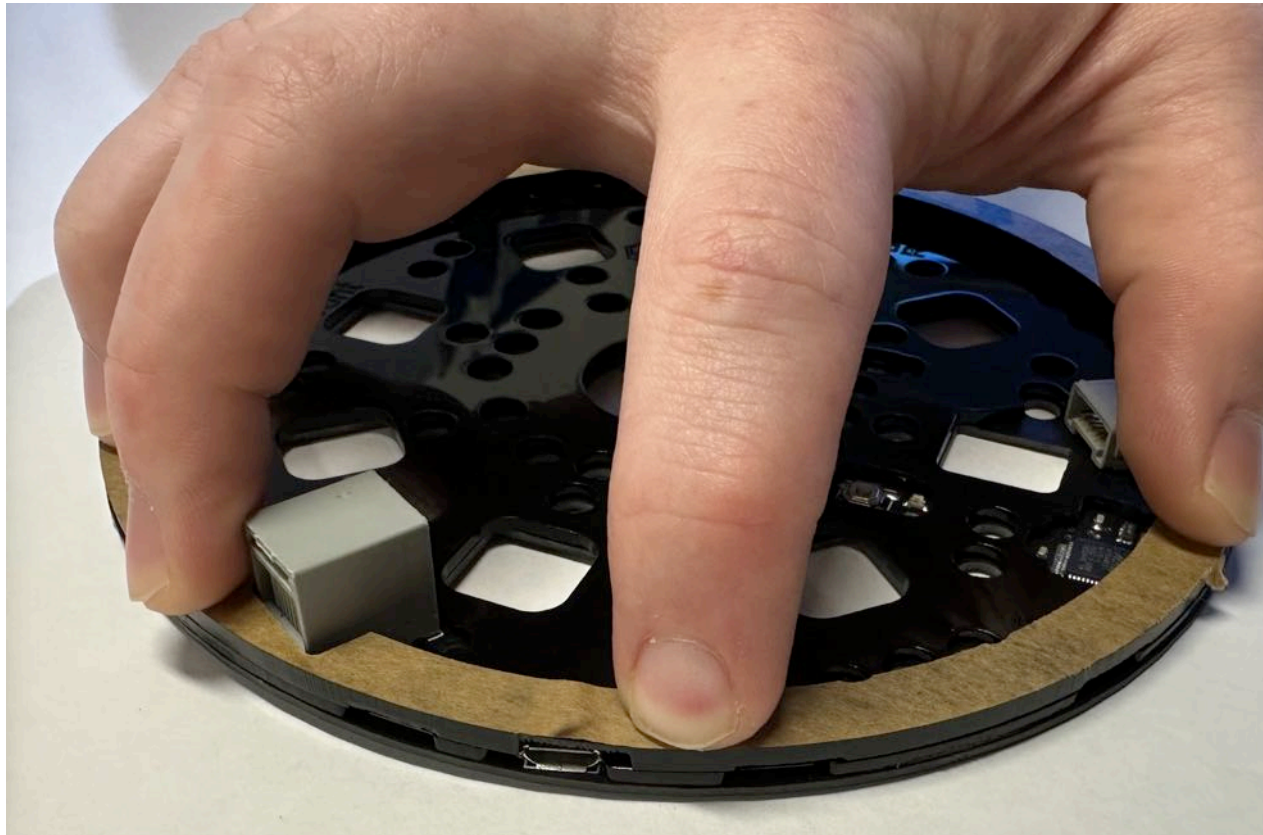
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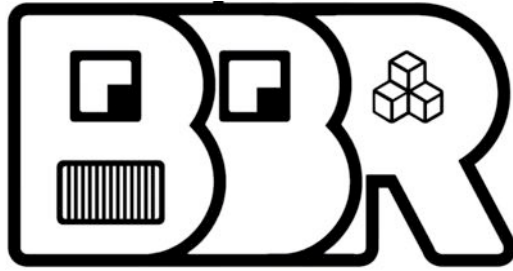
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### STEP 10:

Carefully apply significant downward pressure to **ALL** glue spots for **at least 10 seconds** to allow the glue to set. This may require 2 hands.



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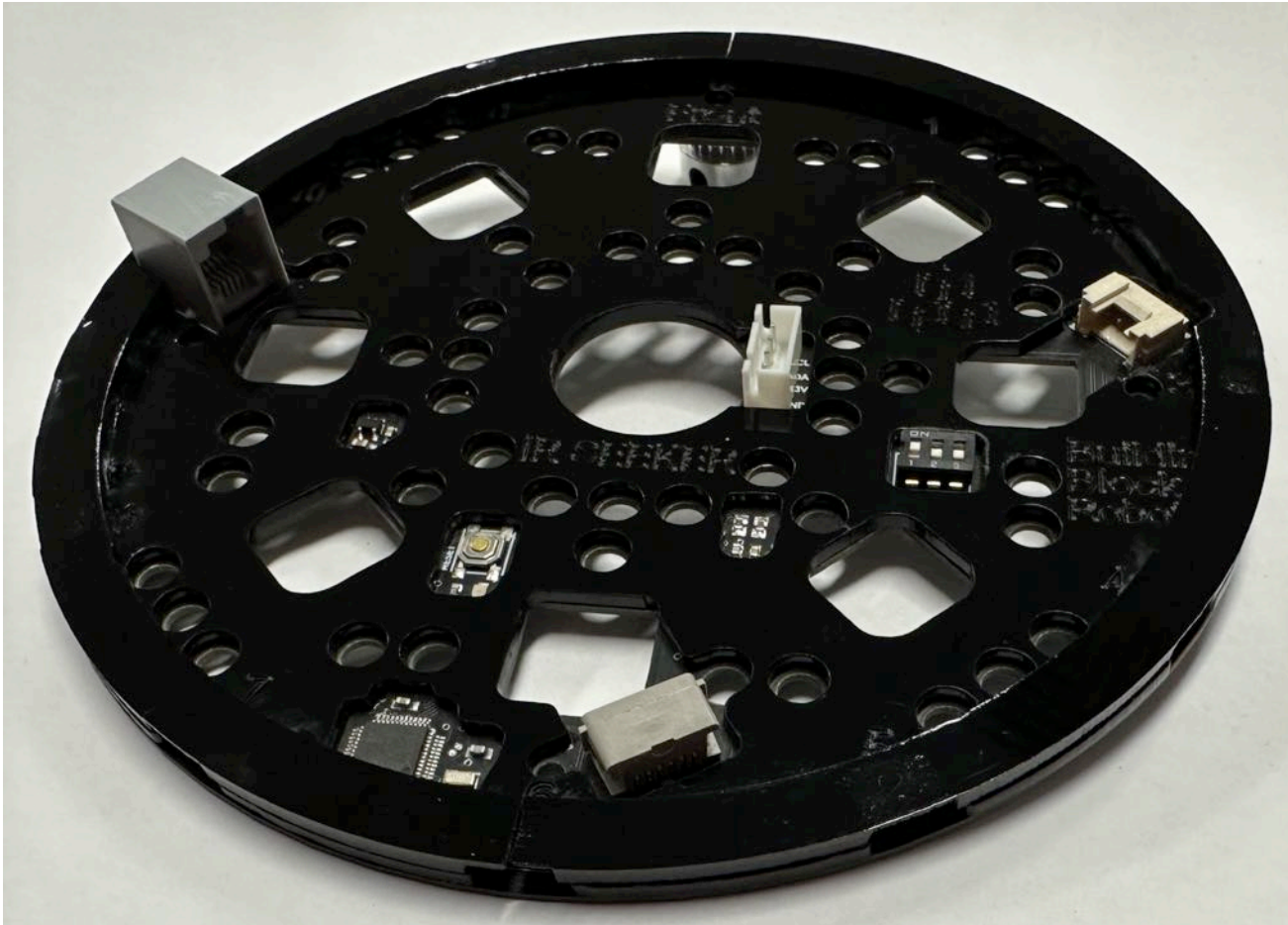
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### STEP 11:

Remove the protective film from the top of each hood half.

Congratulations! Your BBR IR Seeker has now been upgraded.

From the team at Building Block Robotics.