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Step By Step Instructions on Assembling Motion Sensor by 3DUNIFY

This guide explains how to assemble all the parts supplied as a kit. Its very simple to do even without a guide but we at 3DUnify always strive to make things easier for our users.

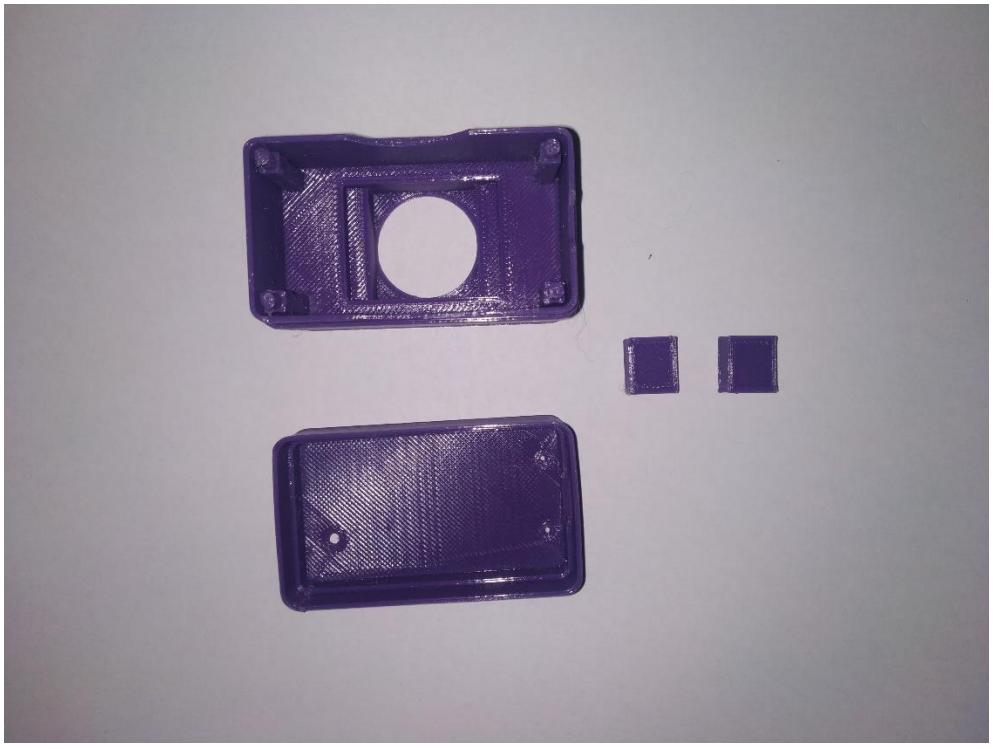
Please go through all the steps one by one to get all the parts assembled in less than 10 mins.

NOTE : *This is just a simplified version of the guide, You can get the detailed guide for free by using this link for free.*

LINK : *https://github.com/3dunify/arduino_motion_sensor*

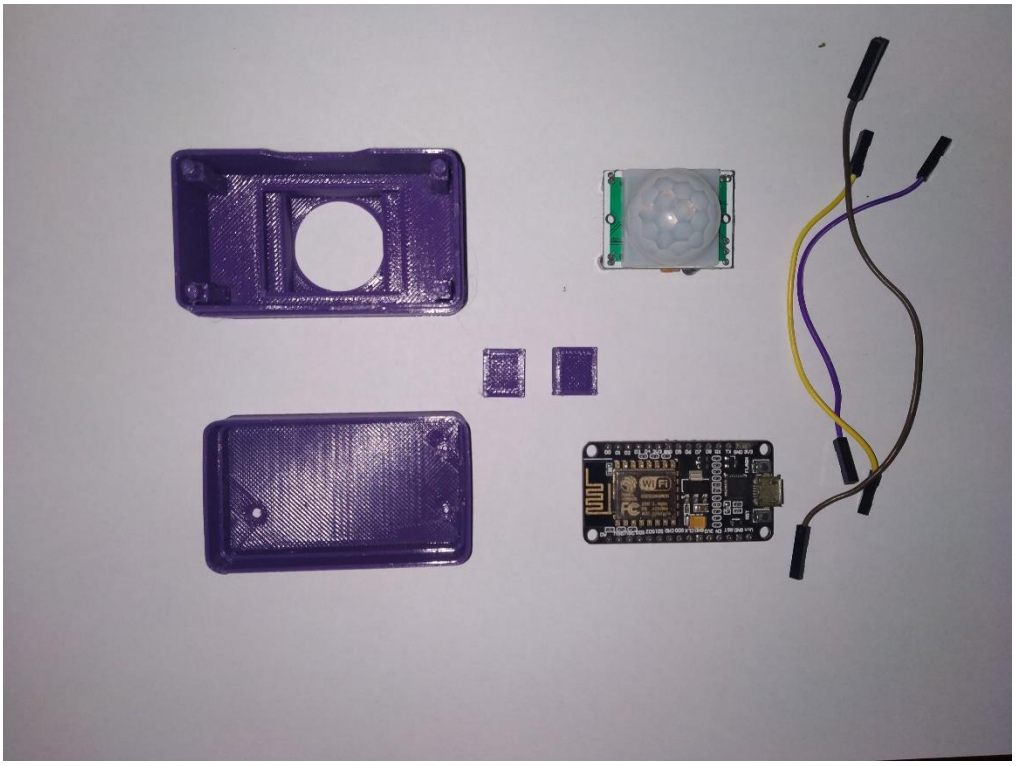
STEP 1:

1)



1.1) First place and arrange all the parts exactly like the above photo , It would make going through the next steps much easier.

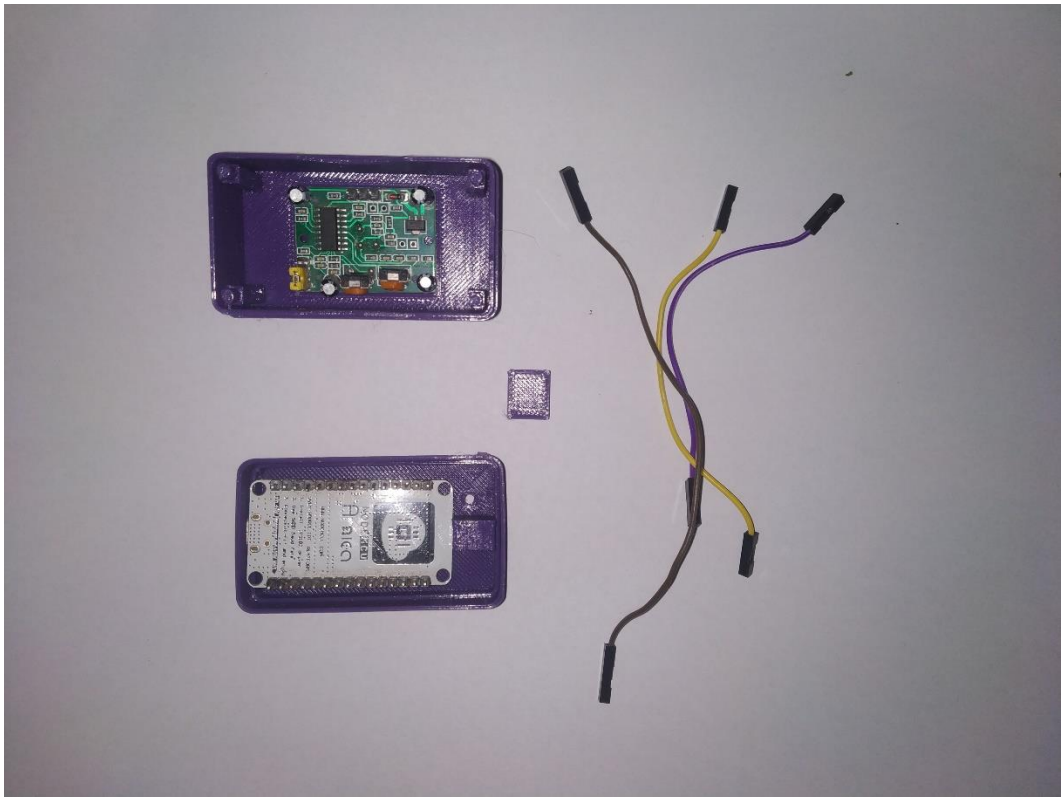
1.2)



1.3) Now take the NodeMCU , SR-501 Sensor , Jumper Cables (Colored Wires) and the Supports (Small Cubes) and arrange the parts again as exactly like the above image.

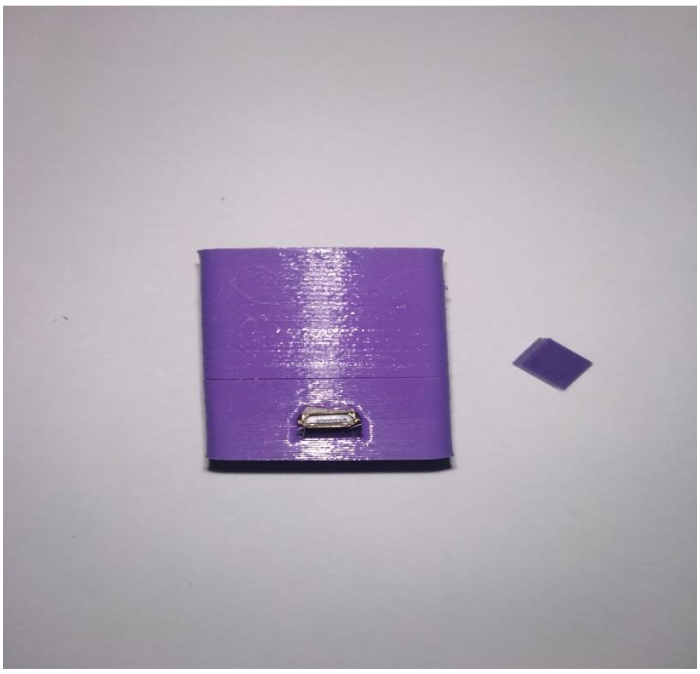
STEP 2:

2)



2.1) Now take the NodeMCU and place it into the top cover keeping in mind to place the USB Port of the NodeMCU into the groove on the top cover.

2.2)



(Use the above image as reference for the below step)

2.3) Now slightly lift the NodeMCU so that the charging port touches the upper part of the top cover,

•Then use one of the support parts and while holding and keeping the USB port touching the upper part of the cover ,

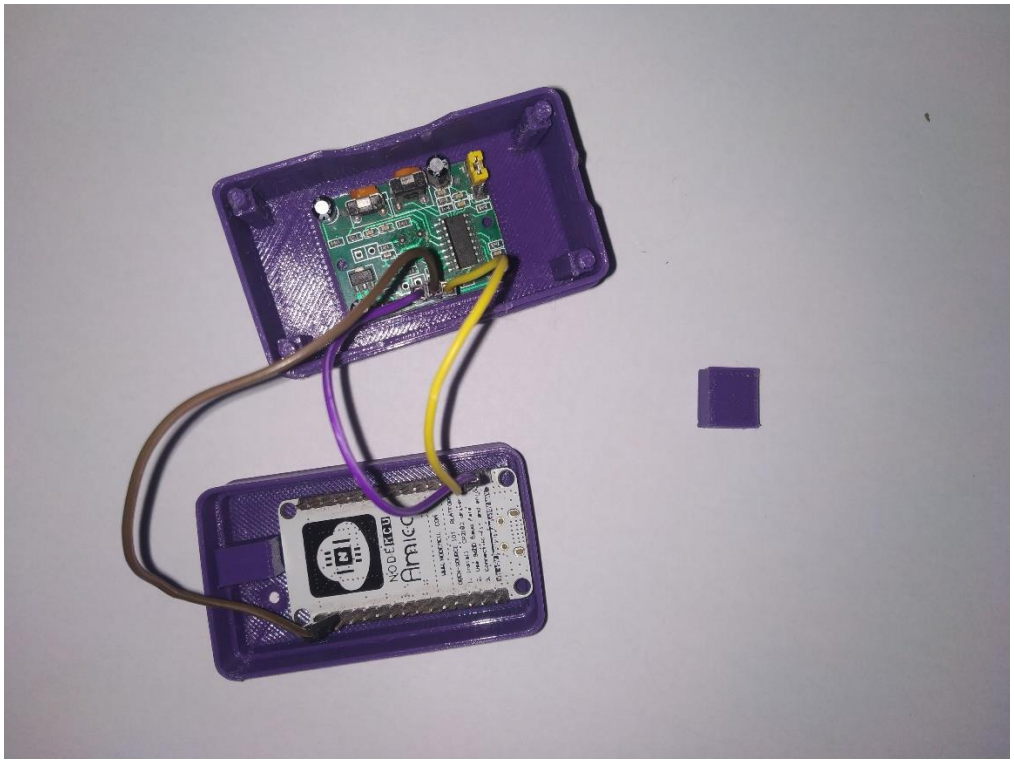
•Insert the support part by using a bit of force , And after it is successfully in place you should not be able to wiggle the NodeMCU ,

•If its still wiggling or moving around , try the above steps until its fixed in place.

STEP 3:

Now, Just like the previous steps , Position both parts as like the image below , And use the diagrams and step by step instructions to make the connection, We have made it as detailed as possible so the user would not be stuck at any stage.

3)



Connection Between NodeMCU & SR501 PIR Sensor

3.1) **Connection:**

NodeMCU	**PIR Sensor**
GND	GND
Vin	VCC
D1	Out Pin

3.2) **Schematics:**

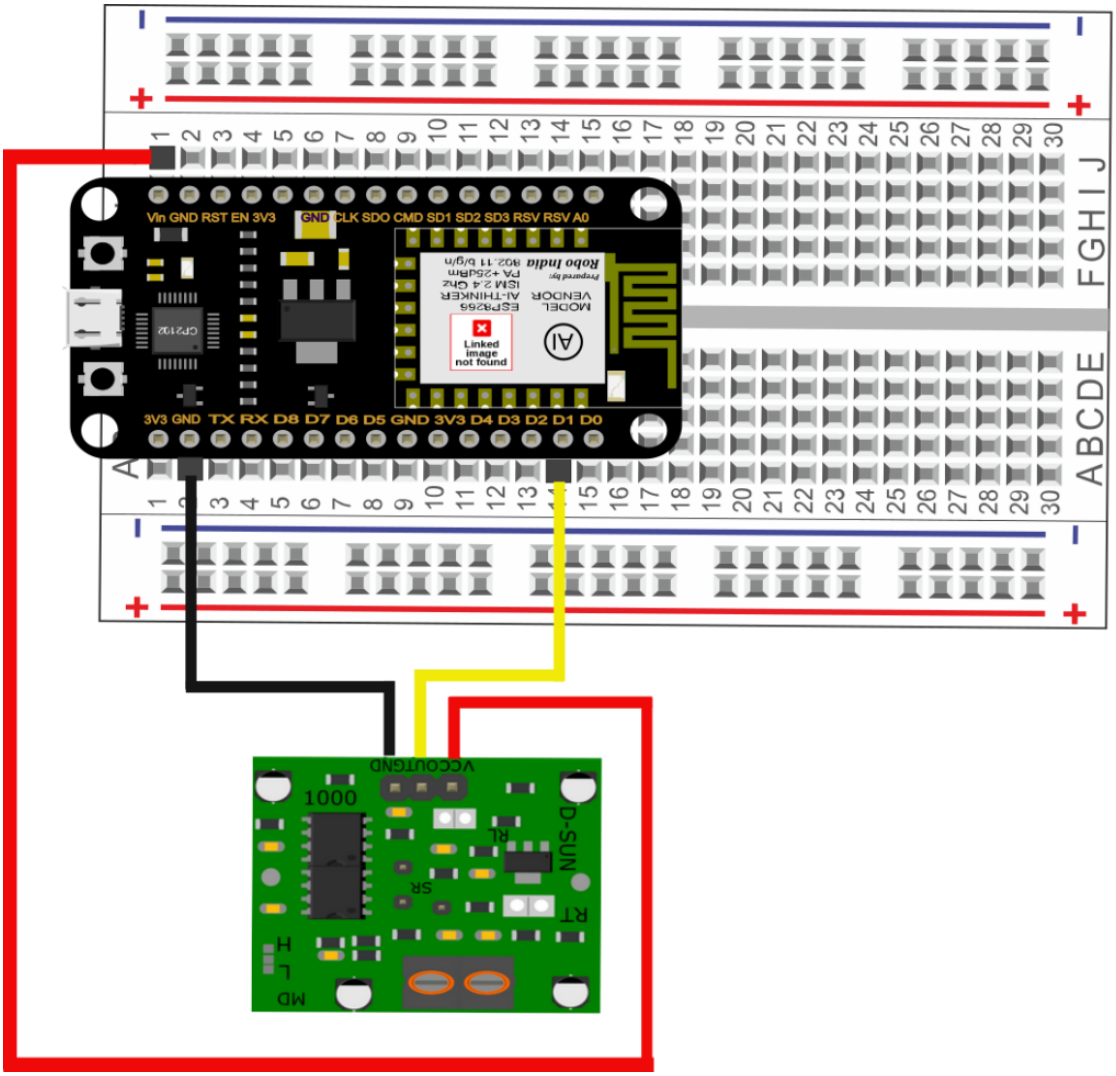


Figure 1 Schematics of NodeMCU & SR-501 Sensor

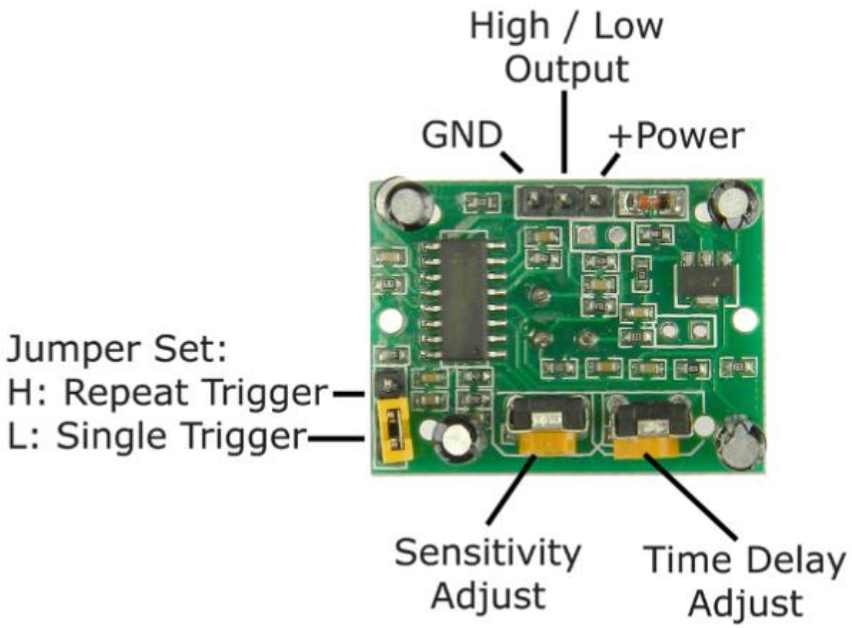


Figure 2 Pinouts of SR-501 Sensor

3.3) ☐ 1) Using the above images as reference connect the ground or GND wire from the SR-501 sensor to the Ground or GND wire on the NodeMCU, The NodeMCU will have two GND wires , you can connect it to any one of them.

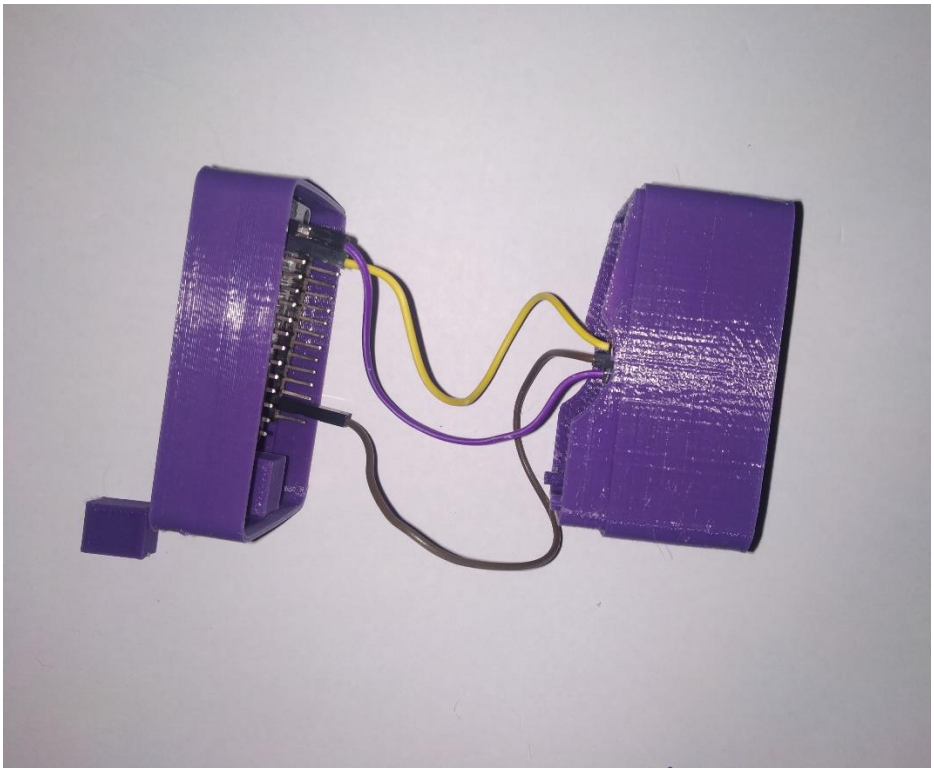
☐ 2) Just like the above step , Now connect the VIN or Positive of the SR-501 sensor to the VIN or Positive on the NodeMCU.

☐ 3) Lastly, Connect the OUT or Middle PIN on the SR-501 to the D1 ON the NodeMCU.

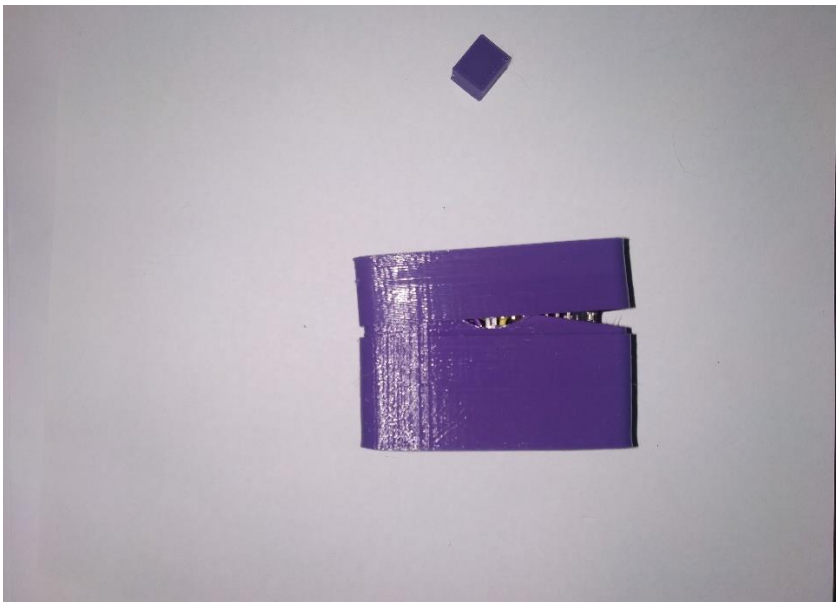
The connection part is complete. The next step is to put together both the parts properly.

STEP 4 :

This last step is the easiest of them all , You just have to align both the upper and lower part of the casing and apply slight force to “pop” them close.

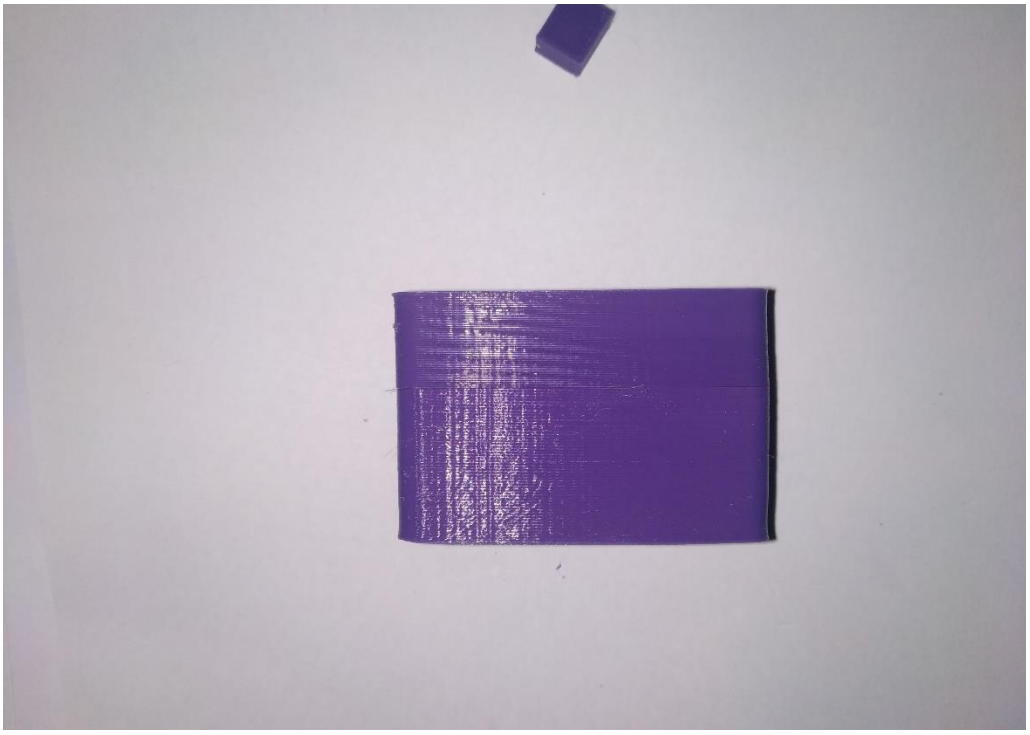


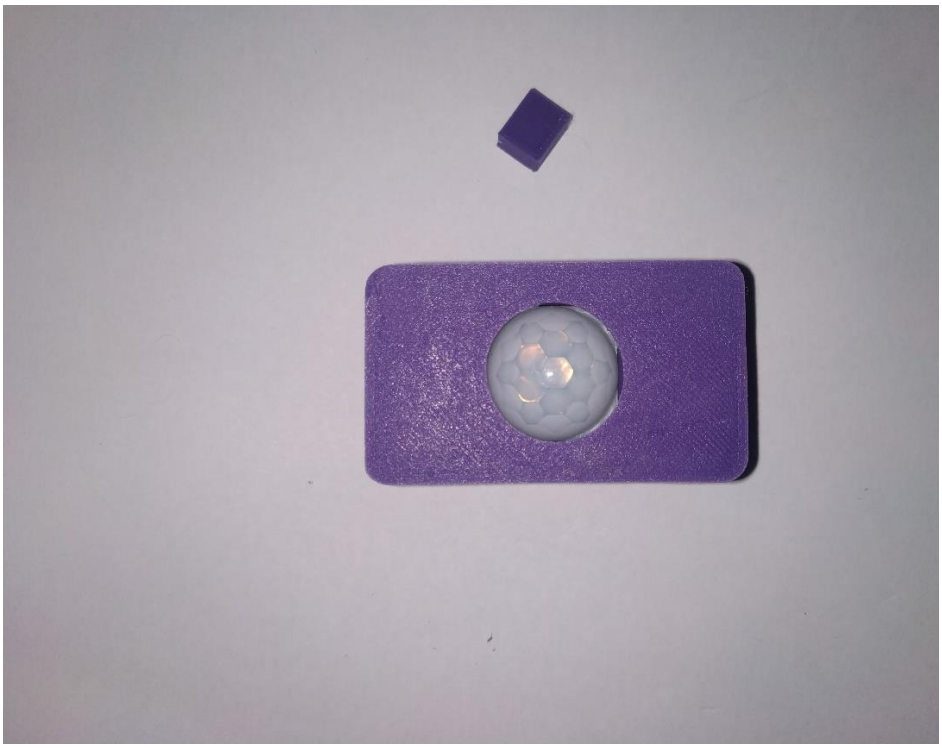
4.1) Now position both the parts just like in the above image and start by placing the side without the USB port onto the side which is not Slopped. Use the below image as reference.



4.2) Now, When the Motion Sensor is placed exactly as above, All there left to do is just apply little force to close them together , You need not be afraid to use force , The casing is very strong , you will not be able to damage with even applying all your strength.

4.3) Now the last step is Profit! When everything is done it should look just like the below images.





If you're wondering why there is an extra support part , It is just so that if you loose one , you would be able to use the other.

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For any more help please contact us with the below information.

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Thank You for being a valuable customer / user to 3DUnify!