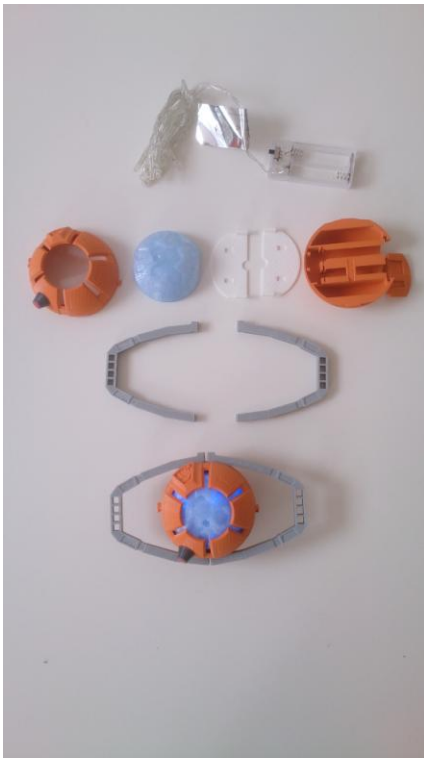


Assembling the Autobot Matrix of Leadership



Print out all of the parts and get some battery (AA) powered LEDs.

Put the red part of the nubbin into the nubbin. This may take some filing and some force. The idea was to have no need for glue and so once it's in, it's in.

Put the Nubbin into the hole in the front ball. Again, this is a tight fit.

Remove the battery cover from the LEDs, taking out the switch and the contacts, these will need to go into the printed battery pack.

Match up the flat edges of the crystal with the flat edges of the front ball and slide it in. It should rotate in quite easily. Once it is in, rotate it 90 degrees so that the flat edges of the crystal are no longer aligned with the flat edges of the front ball.





Insert one of the Partition clips. The round edge should sit nicely between the front ball and the crystal, holding the crystal firmly in place.

Insert your LEDs



Put the excess wire into the cavity in the battery pack, there is a small groove for the wire feeding from the front ball

Insert the other Partition clip, leaving the LED wire coming out of the hole in the centre.

This can be tricky, I have found that the best way to do it is to push the rounded part between the crystal and the front ball at a slight angle and rotate it in to place.

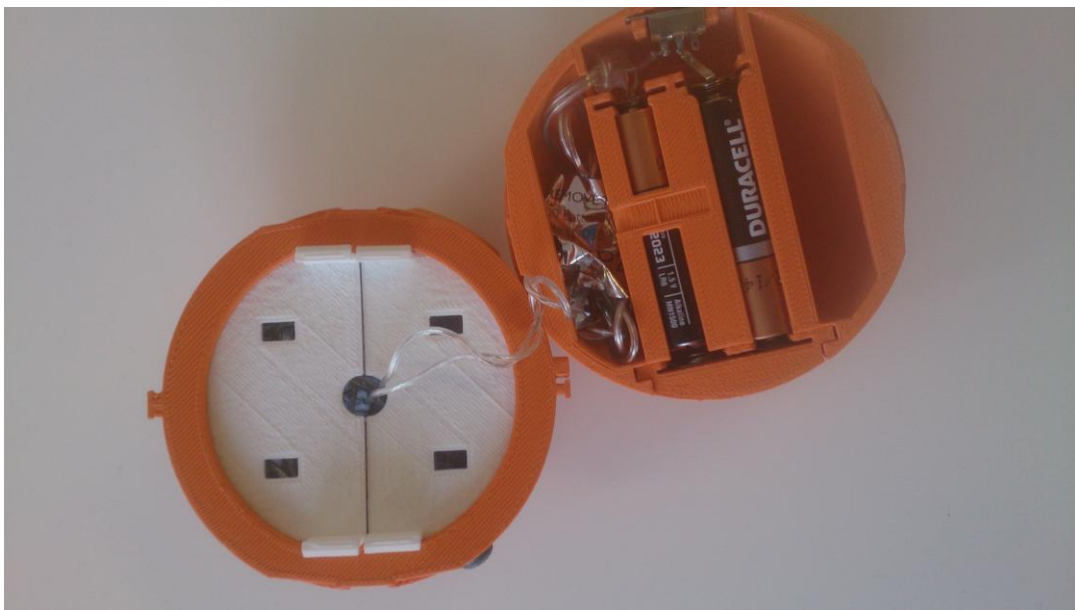
Note: do not do this before putting in the LEDs as I have not been able to remove the partition clips without breaking them.



Slot the switch and battery connectors in to place in the battery pack and battery door. This should be done before inserting the batteries but the photos below are from an already made Matrix.



You should now have something that looks like the below picture.



Match the clips up to the flat edge of the battery pack clipping in place one side before the other. This will require a little force to bend the clips a little but don't overdo it or you will break them.





Clip on the arms, these can be glued but it isn't overly necessary unless you will be picking it up a lot.

Put some batteries in it and light your darkest hour by flicking the switch - if only Ultra Magnus knew it would be so easy!



Designed by:

The 3d Print House

<http://www.the3dprinthouse.com>

Files can be downloaded from:

<https://www.youmagine.com/designs/autobot-matrix-of-leadership>

<http://www.thingiverse.com/thing:326614>

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