

The Big Bang Theory #21302

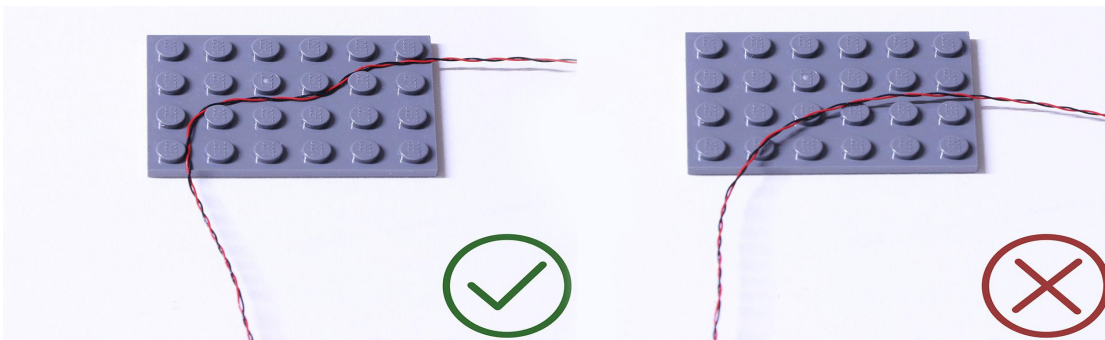
Package contents:

6 x Warm White 30cm Dot Light
1 x 8 Port Expansion Board
1 x Battery Pack (3 x AA batteries not included)

Note:

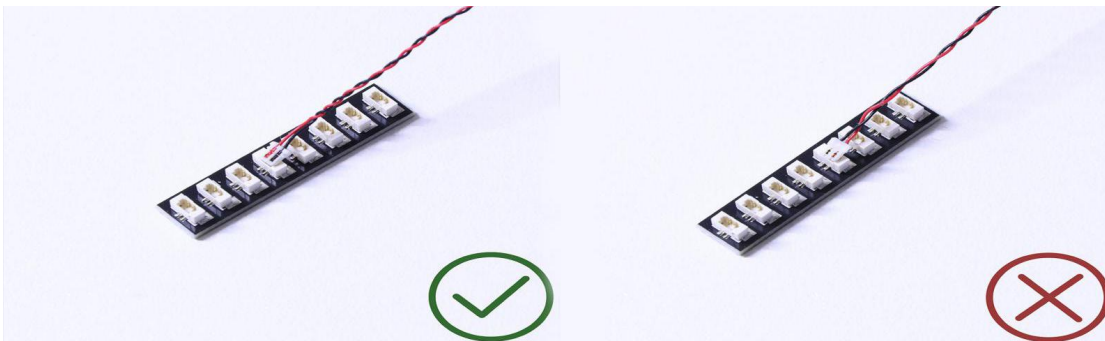
Place wires on the surface or under the LEGO building blocks.

The wire can be placed between the building blocks or under the block, but they should be placed between the studs correctly.

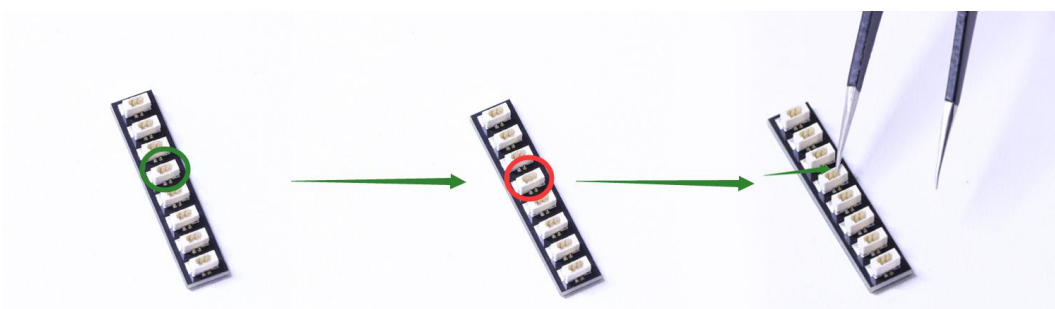


Insert the connectors to the ports.

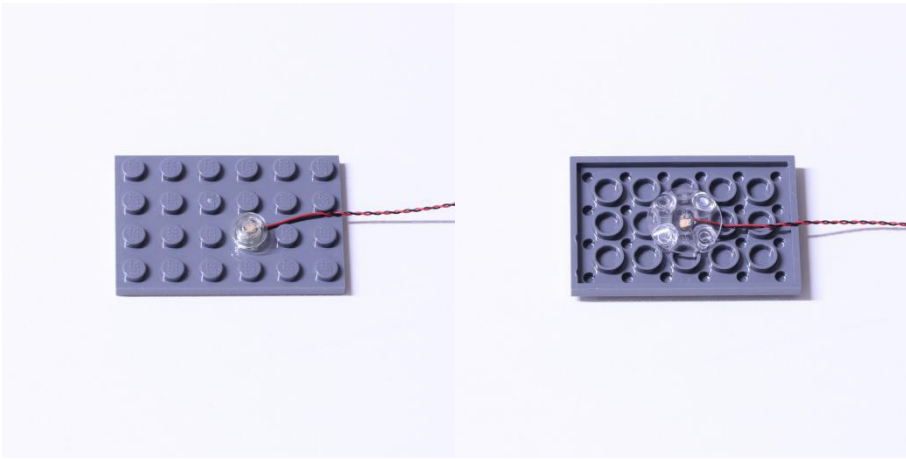
Be careful when you are operating, there's only one correct way to insert, make sure the expansion board is upward, find the soldered "=" sign on the left of the port. When you are inserting, the side which the wires can be seen should be faced to the "=" sign and if you feel hard to insert, please stop, and don't force it, for that may result in bent pins inside the port or overheating of the expansion board.



At this point, use the tweezers to straighten the bent pins.

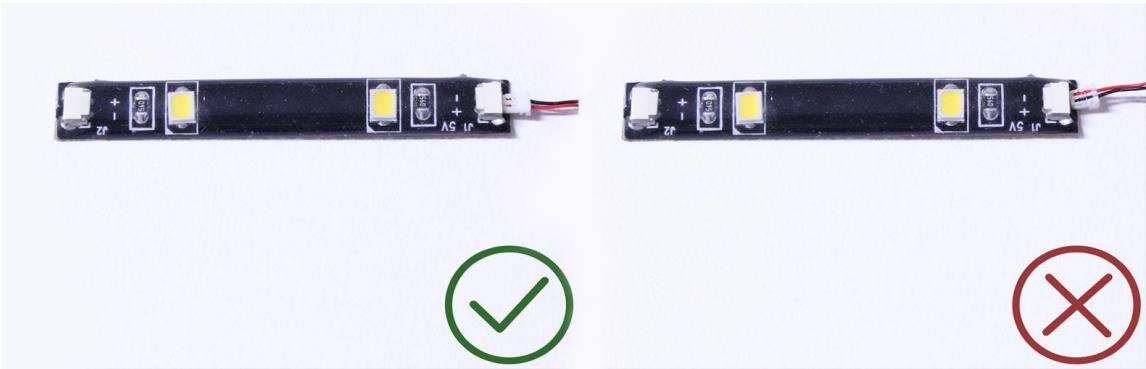


When installing dot lights, make sure they are correctly placed (Yellow LED package is exposed). You can put them either on the top of the studs or between studs.



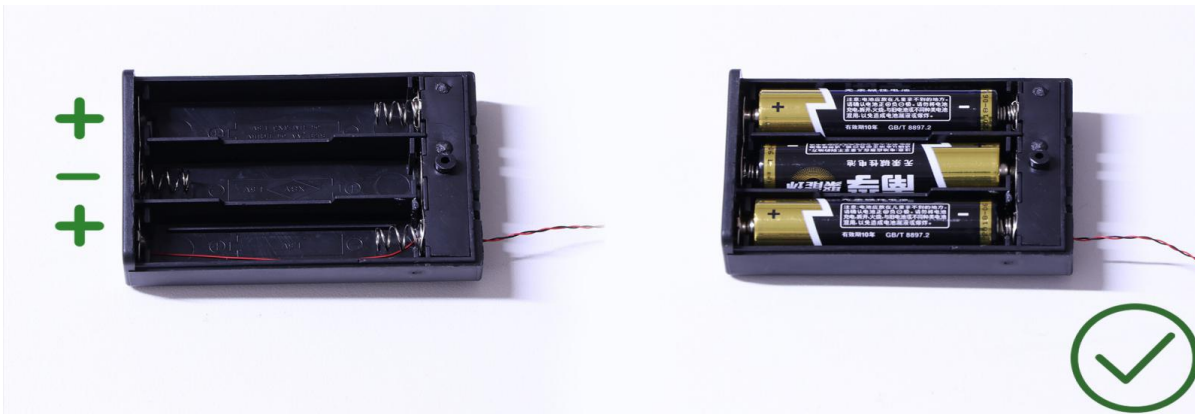
Connecting cable connectors to Strip Lights

Take extra care when inserting connectors to ports on the Strip Lights. Connectors can be inserted only one way. With the Strip Light facing up, ensure the side of the connector with the wires exposed is facing down. If a plug won't fit easily into a port connector, don't force it. Doing so will damage the plug and the connector.



Finally, please pay attention to the positive and negative terminals of the battery when installing the battery case.





OK, Let's Begin!

Instructions for installing this kit



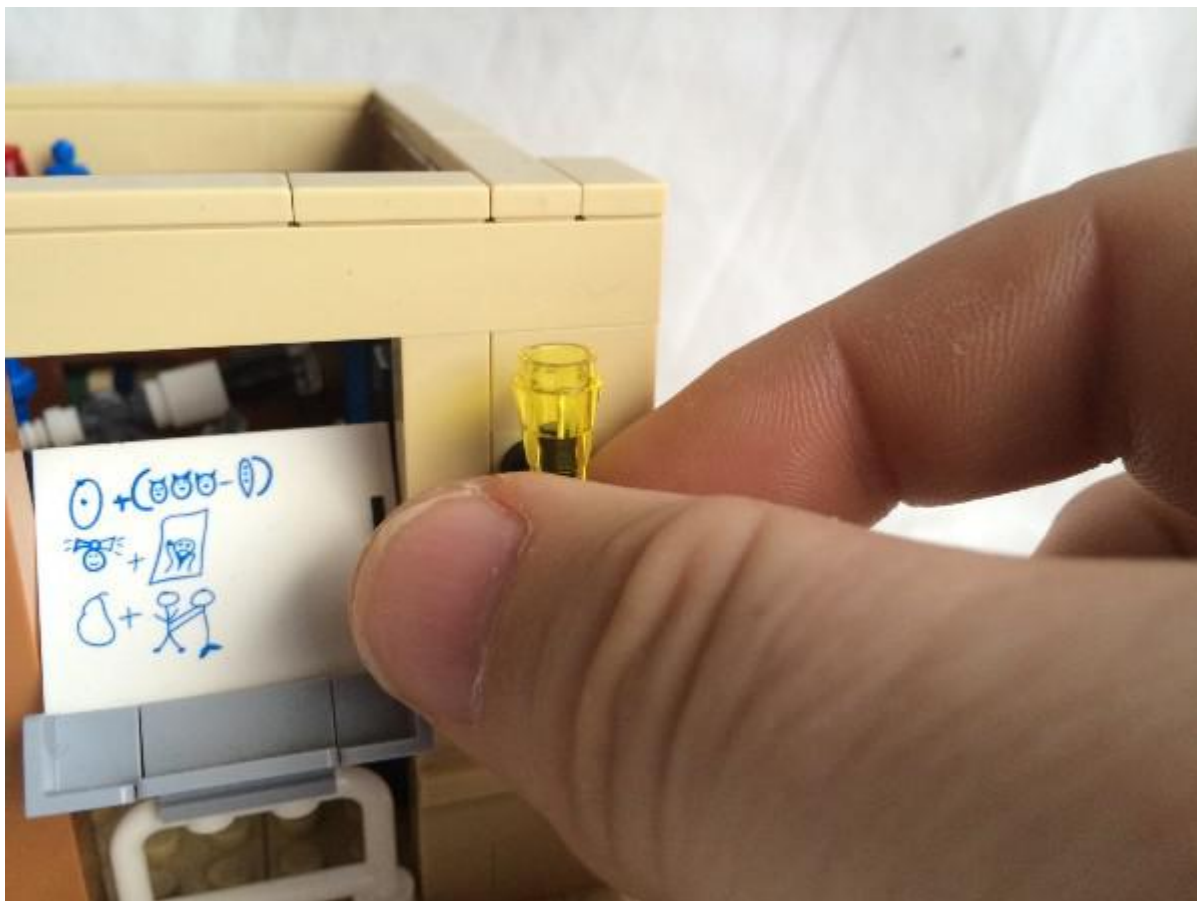
The Big Bang Theory set can have a variety of configurations depending on how you choose to seat your characters and other movable items. There should be little or no impact as you install the LED lighting kit, but make adjustments as necessary. Your set does not have to be configured the same as our set to enjoy the effects of this LED lighting kit.





Remove the light from the left hand side of the back wall.



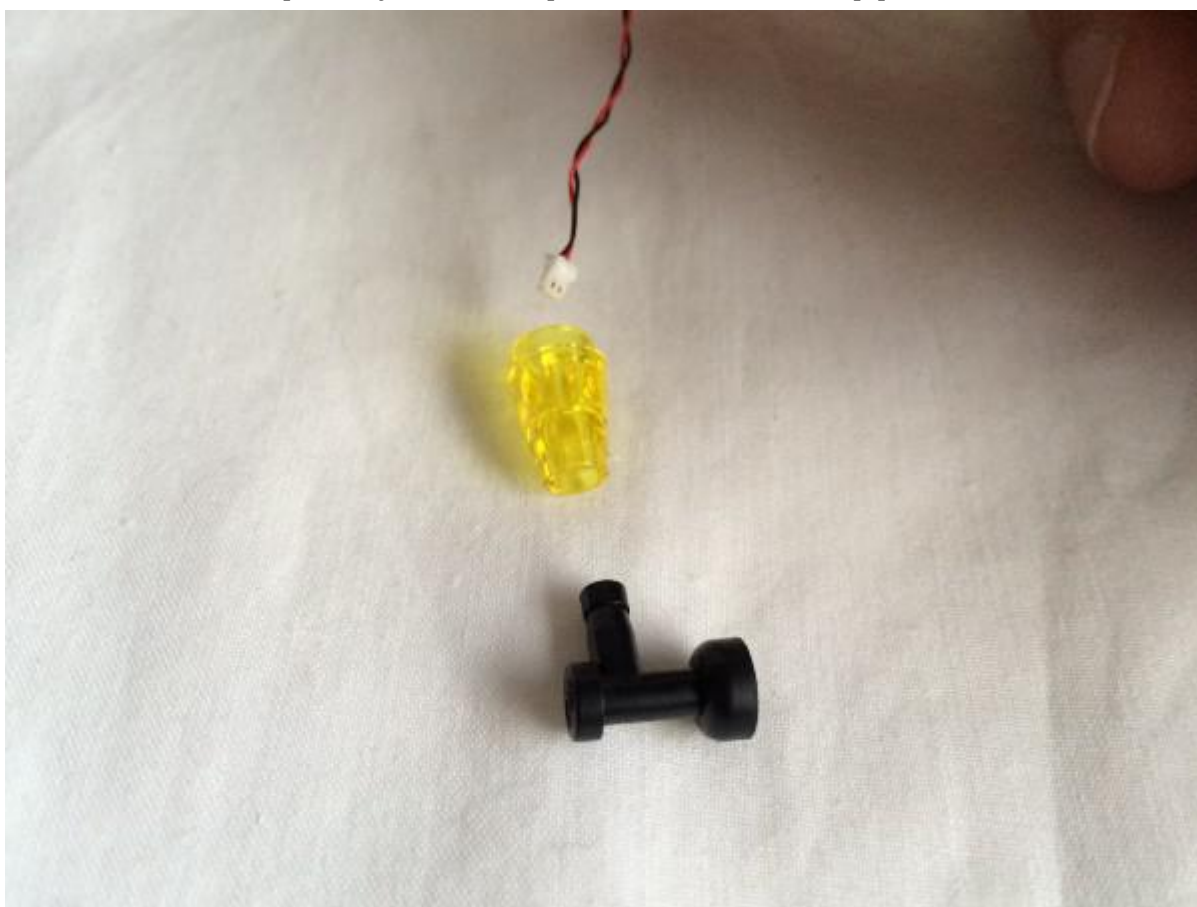


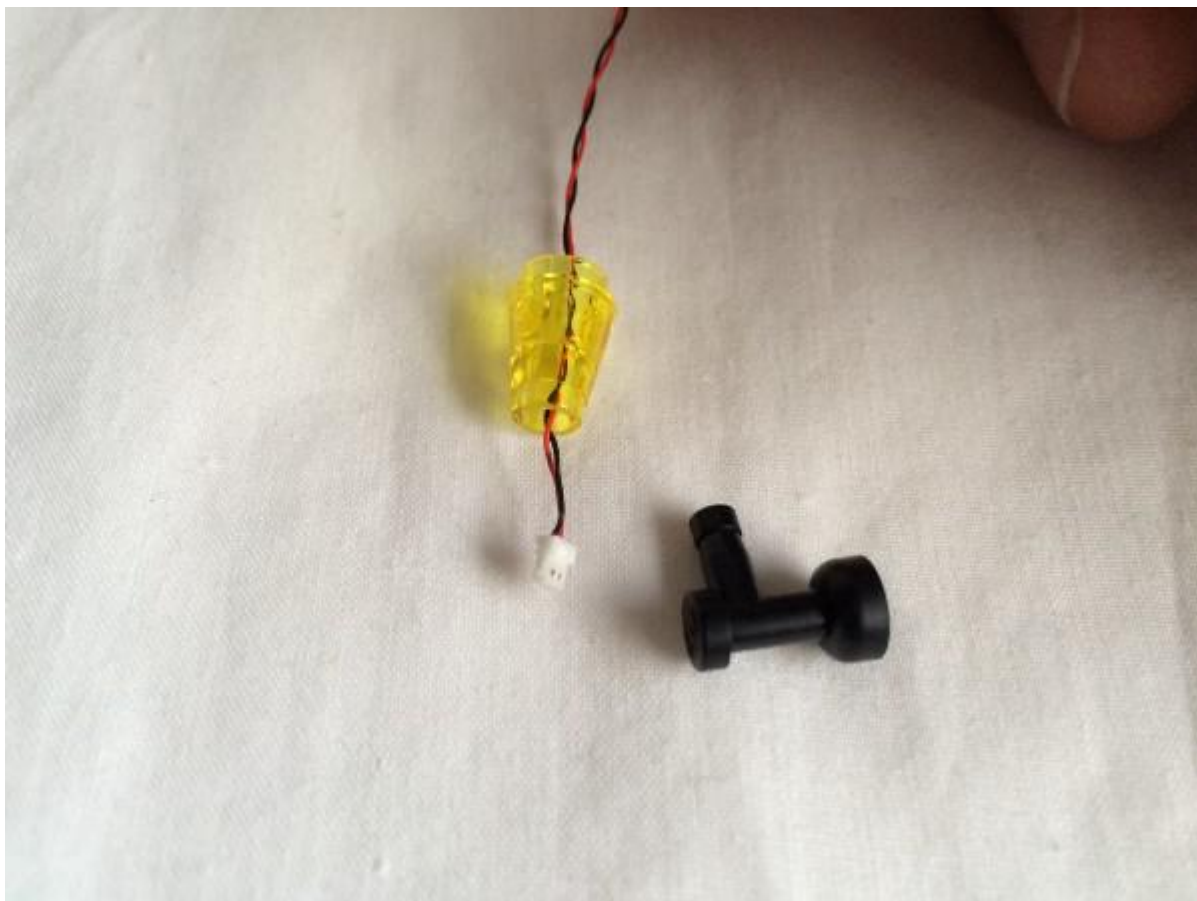
Remove the light from the right hand side of the front wall.
The steps below show details for one light. Follow the steps for both lights.





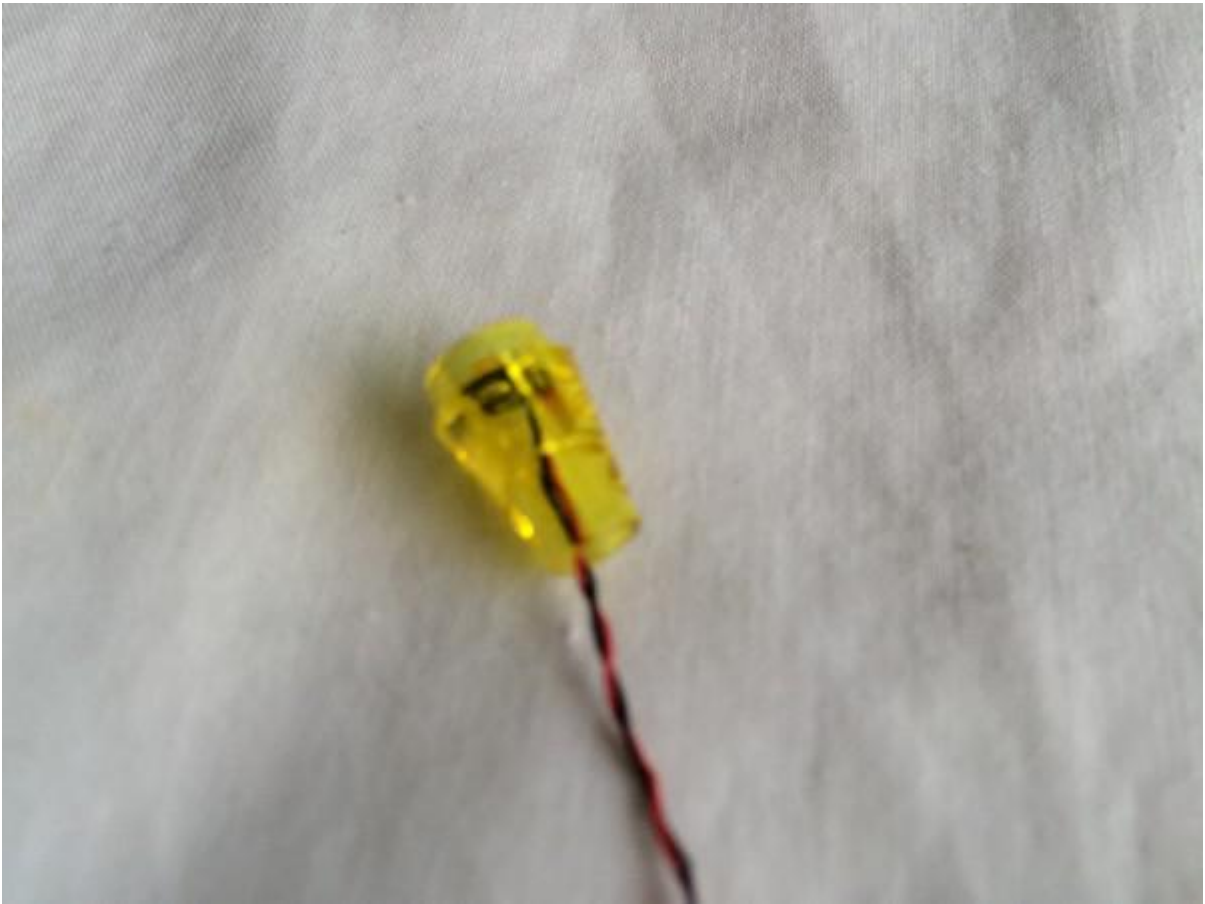
Disconnect the transparent yellow cone piece from the black tap piece.



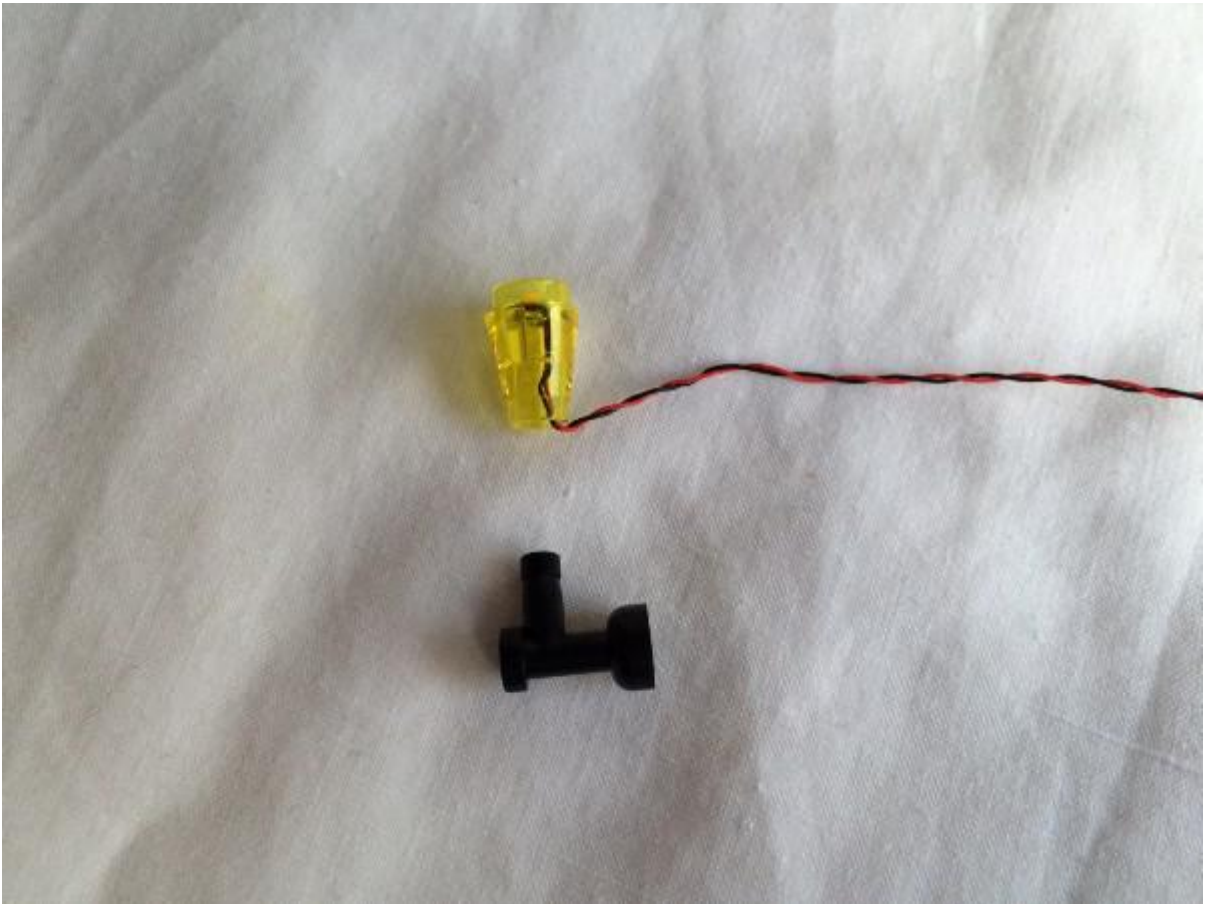


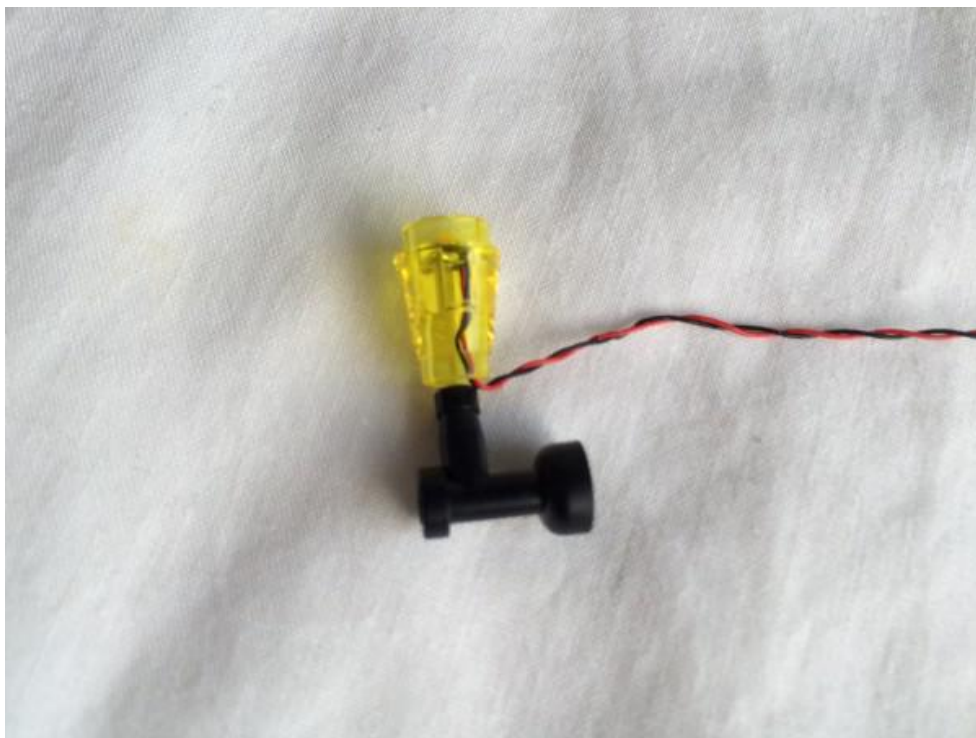
Grab a White Dot Light and feed the plug end through the large end of the transparent yellow cone piece.



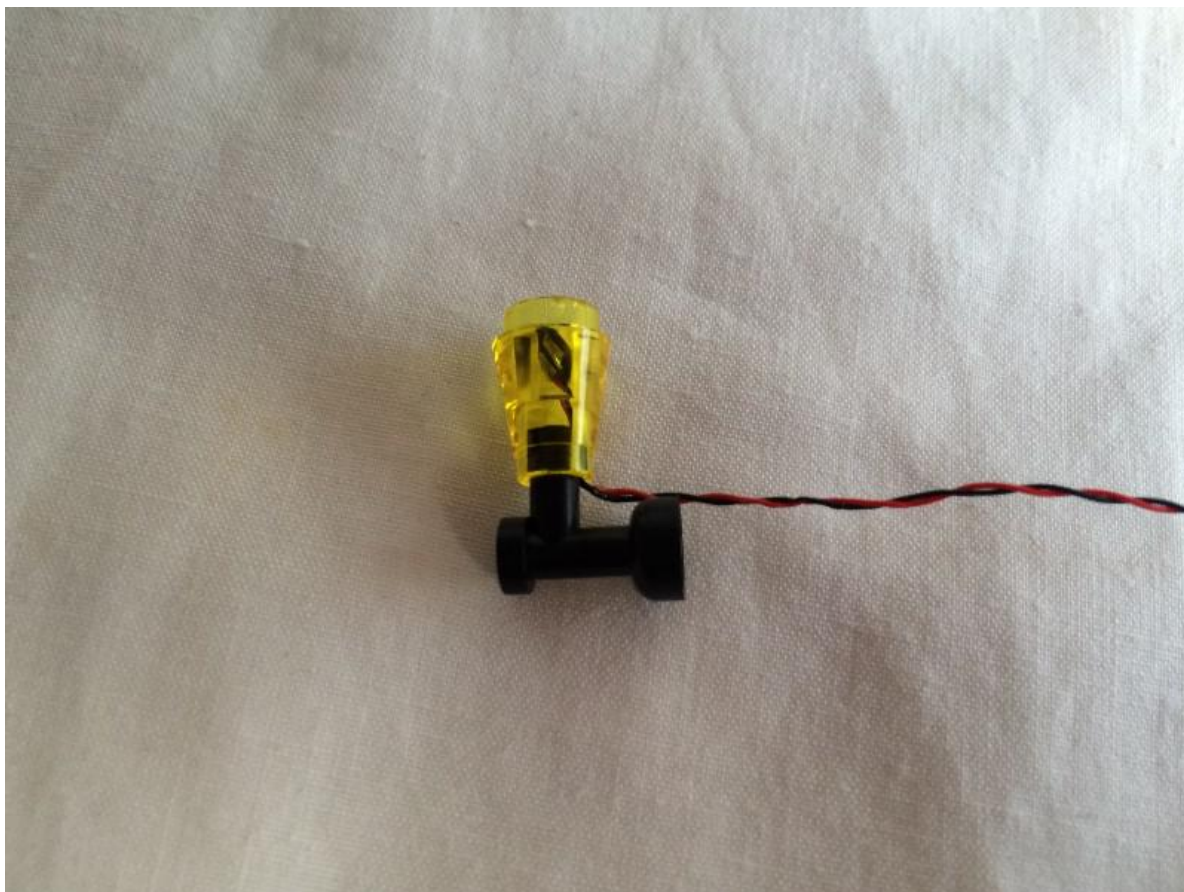


Pull the wires all the way through until the LED is inside the transparent yellow cone piece.





Bend the wire so that it comes out the the transparent yellow cone piece at a right angle. Line up the black tap piece to insert back into the transparent yellow cone piece. Have the large round end facing the same way as the wire coming out of the transparent yellow cone piece. In the photos, you can see that they are both facing right.



Very slowly, join the transparent yellow cone piece and the black tap piece back together. It is a tight fit and doing this slowly will prevent damage to the wires.

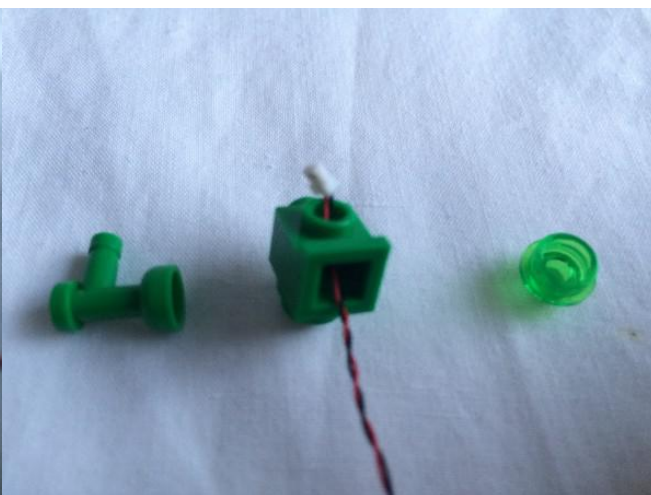
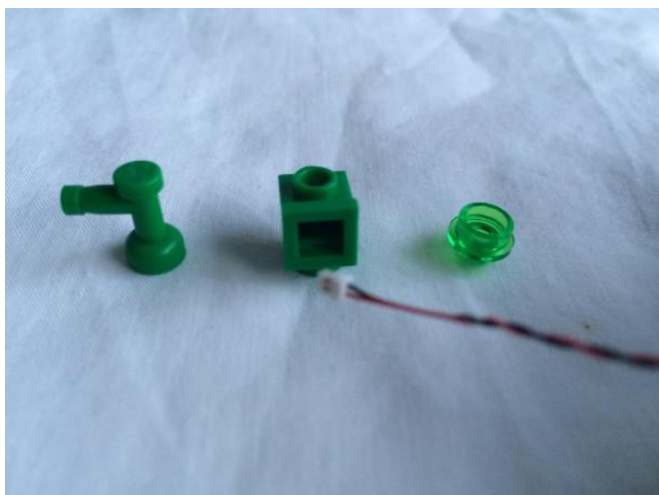
Put the lights aside for now.



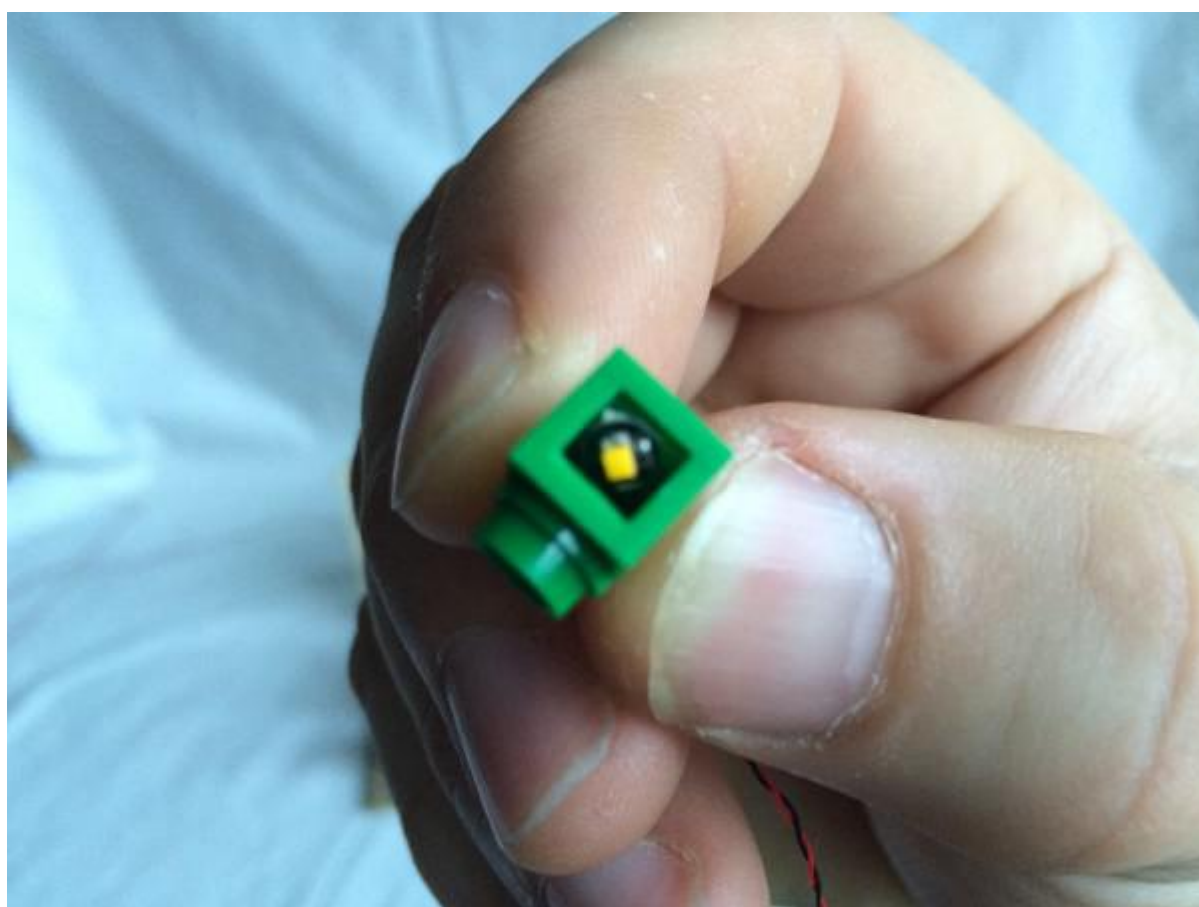
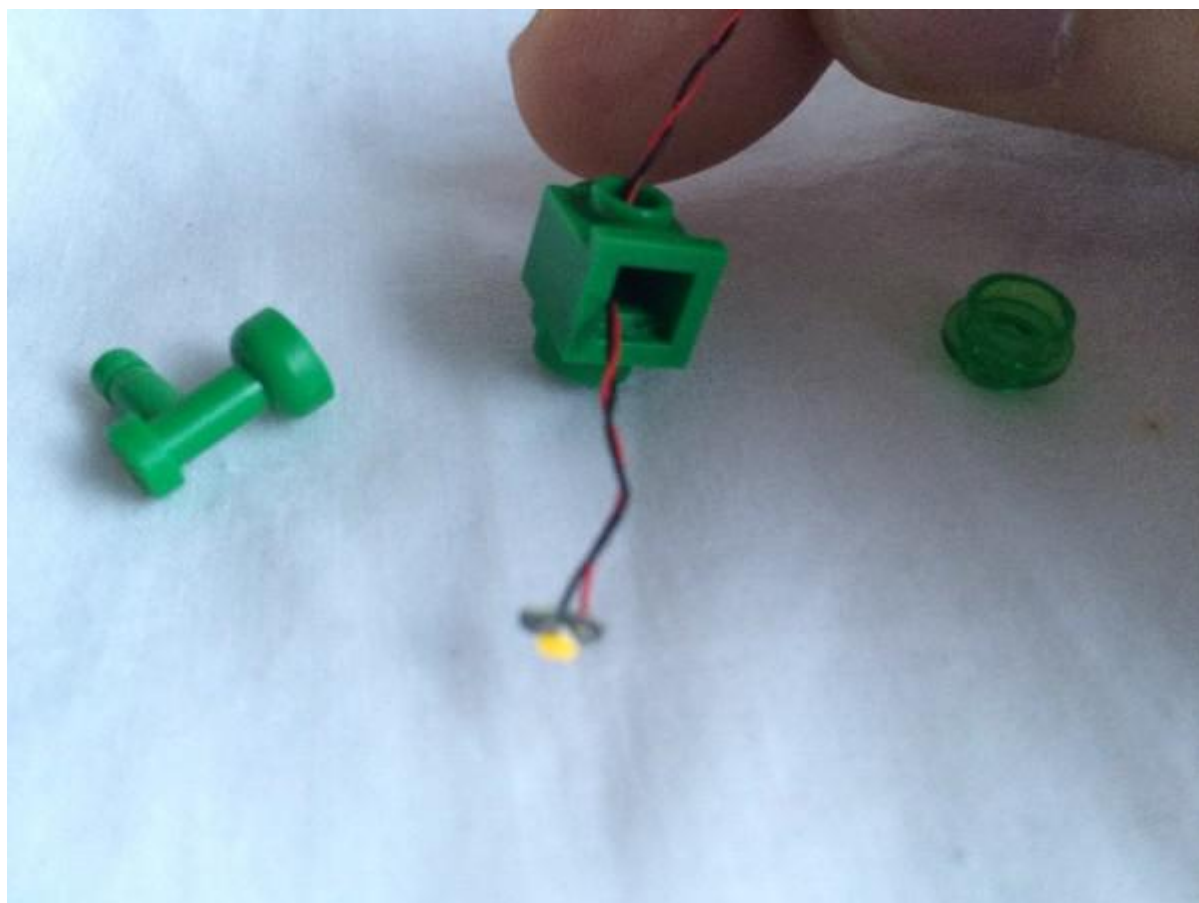
Remove the green lantern from the bookshelf behind the couch.



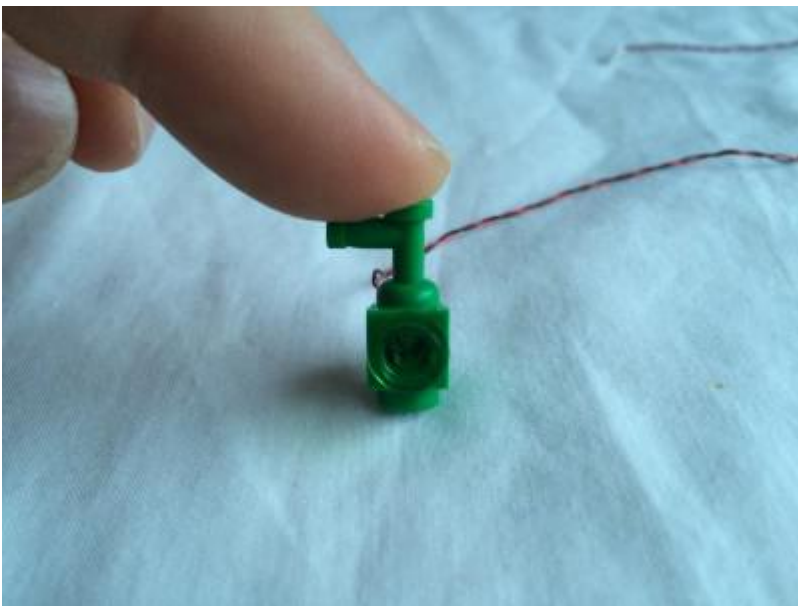
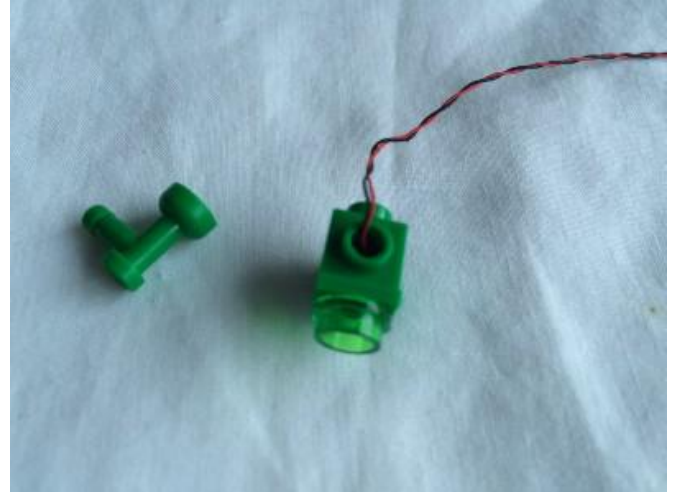
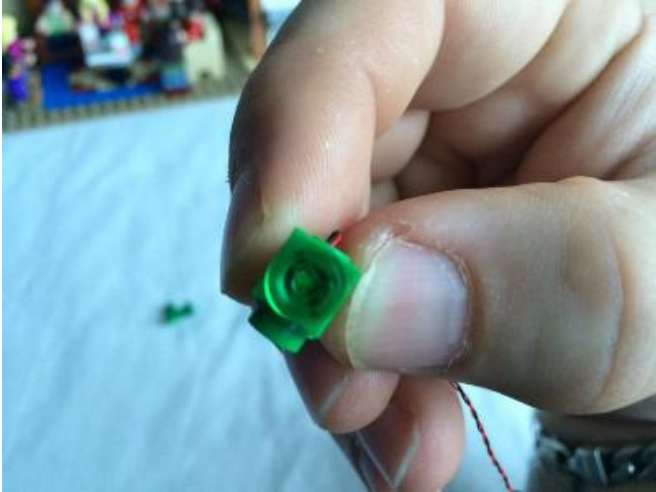
Remove the green tap piece from the top of the lantern and the transparent green round plate from the front of the lantern.



Grab a White Dot Light and feed the plug end through the square opening of the green headlight piece. Get it to exit the green headlight piece through the round opening. Sometimes we need to bend the wires slightly near the plug end of the wire to get it to feed through.



As you continue to pull the LED wire through, try to arrange it so that the yellow LED component is mostly facing outwards from the brick. If it is facing inwards, you may not get the best lighting effect for this piece.



Replace the transparent green round plate on the front of the lantern.

With the wires running towards the back and away from the transparent green round plate, replace the green tap piece on top of the lantern. Do this slowly as there are wires running between these two pieces.

Put the green lantern aside for now.



Remove the plasma ball from the bookshelf behind the couch.



Remove the transparent clear top piece and the black 1 x 1 round plate.

Put the black 1 x 1 round plate aside as we won't be using it in this model anymore.





Grab a White Dot Light and feed the plug end through the top of the black 1 x 1 round brick.





Pull the wires through until the LED component is sitting face up on top of the black 1 x 1 round brick. Replace the transparent clear top piece.

Put the plasma ball aside for now.





Remove the lava lamp from the bookshelf on the right hand side of the door.





Disconnect the transparent red cone piece from the black round plate.





Grab a White Dot Light and rest the LED component end inside the transparent red cone piece.



Very slowly, join the transparent red cone piece and the black round plate back together. It is a tight fit and doing this slowly will prevent damage to the wires.

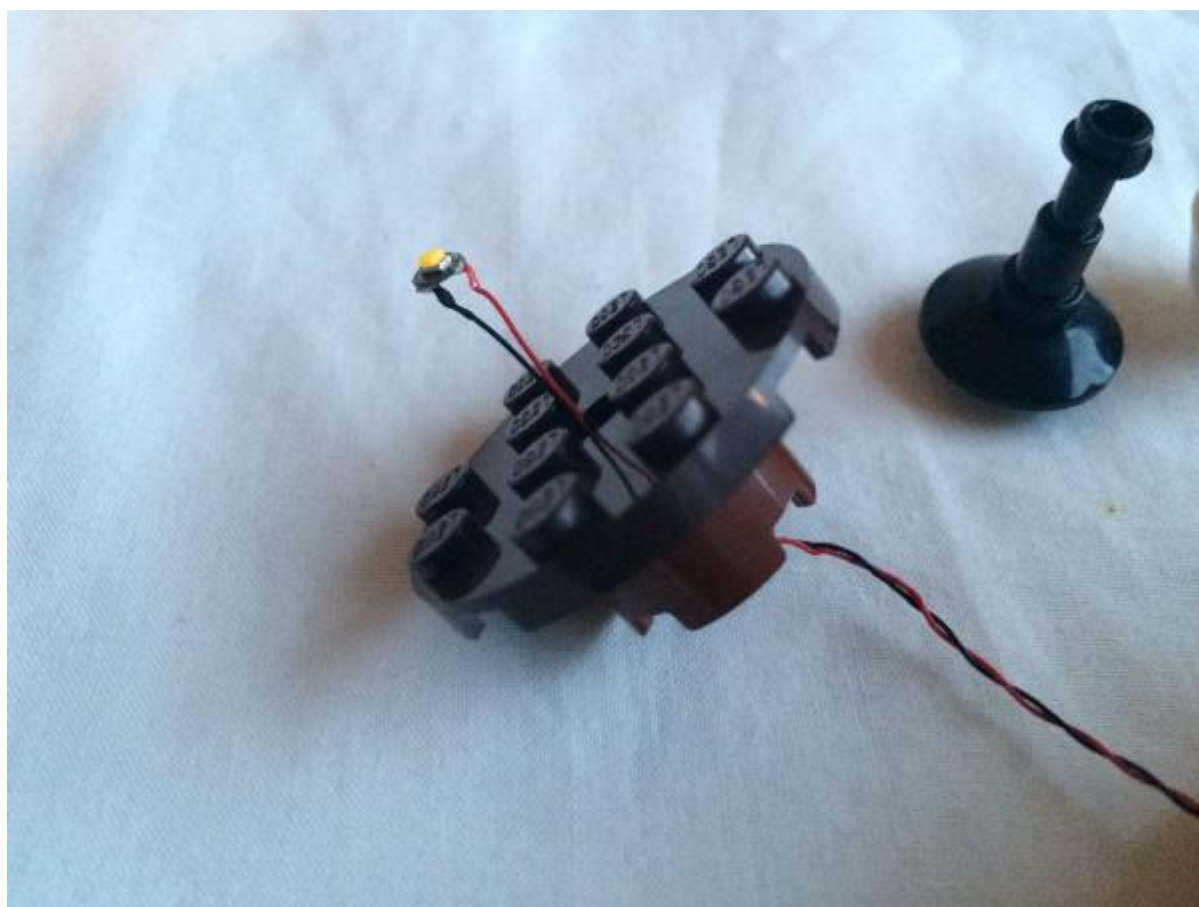
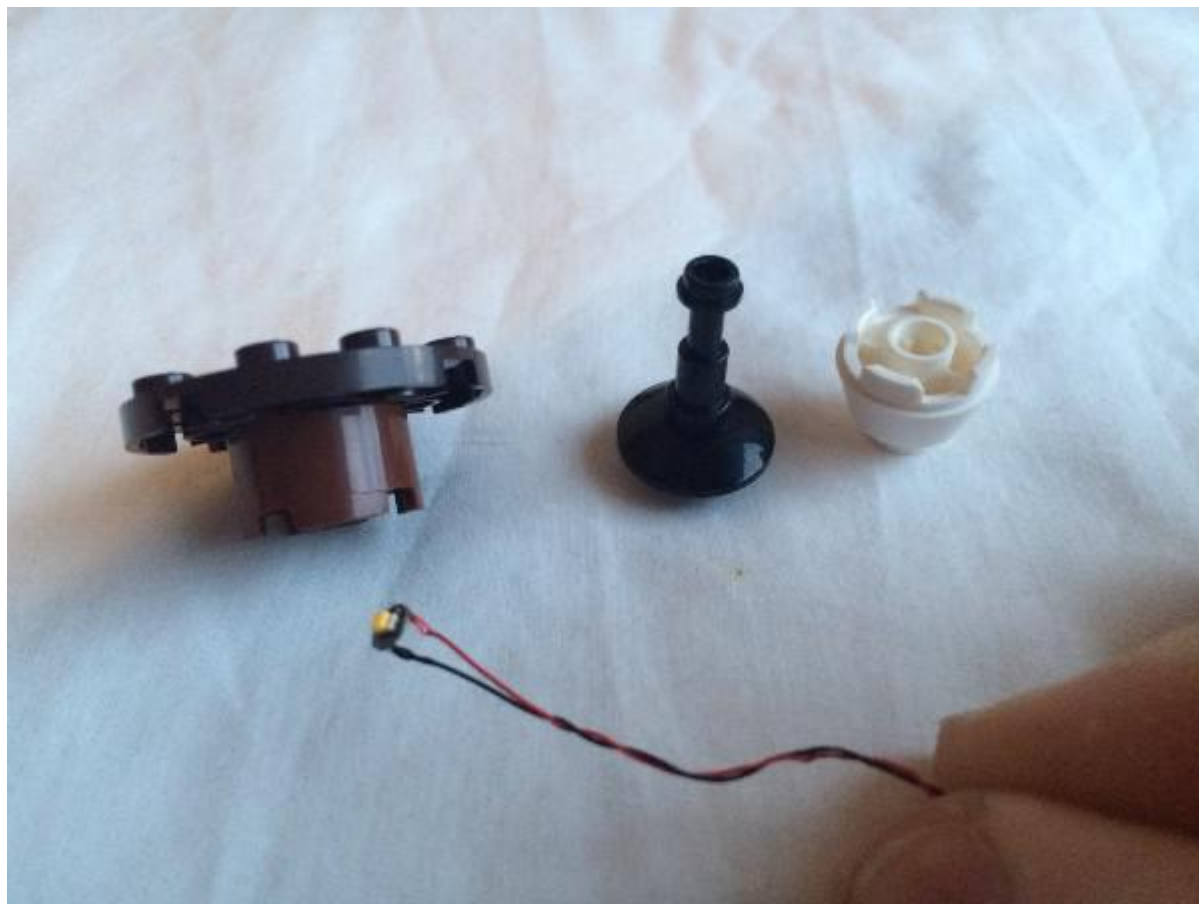
Put the lava lamp aside for now.



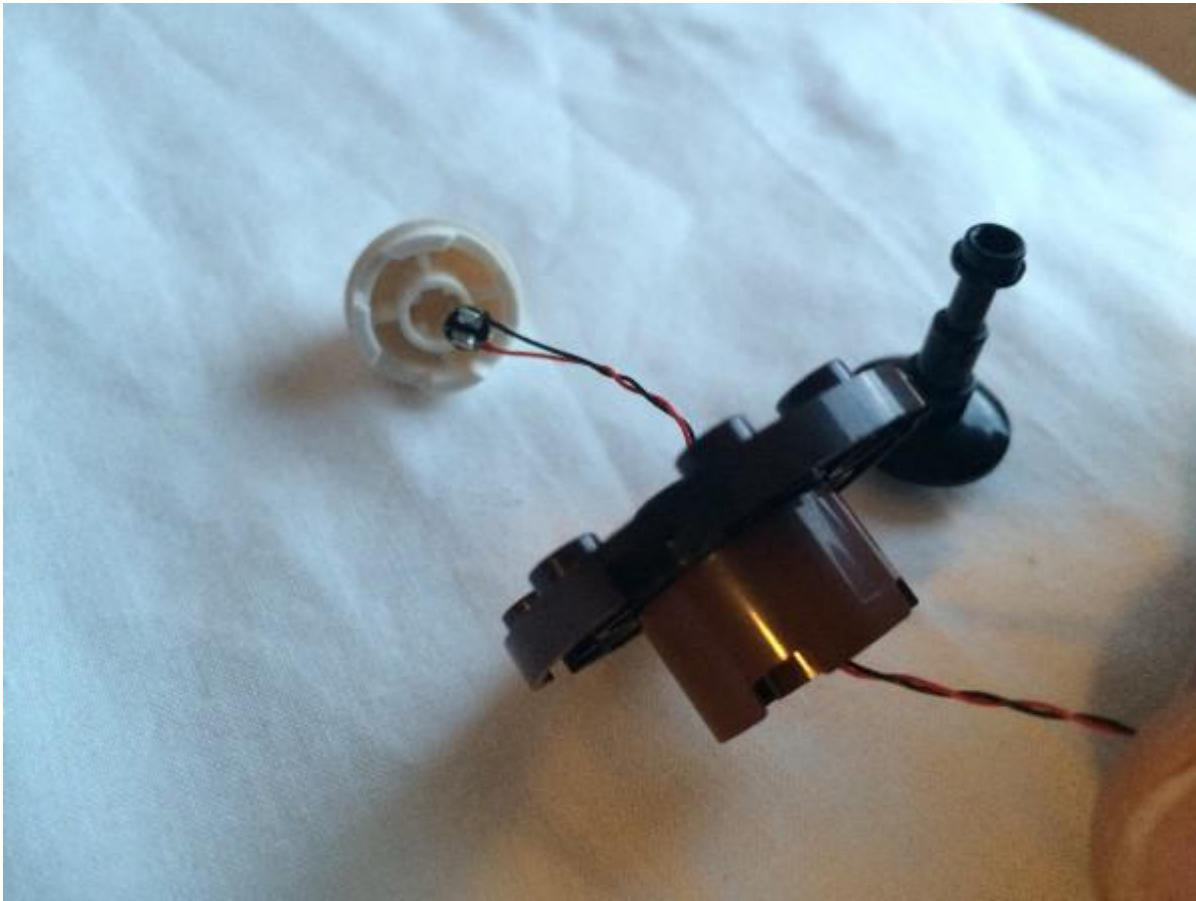
Remove the coffee table with the lamp on it.



Remove the lampshade and the lamp stem from the table.



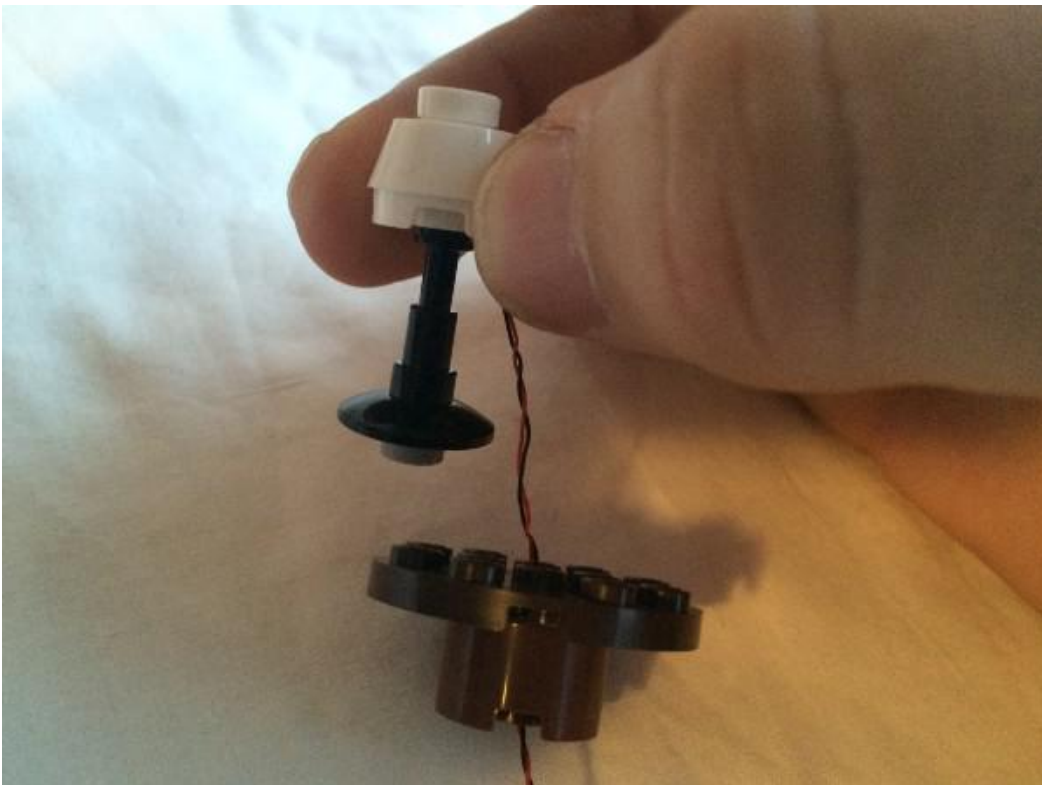
Grab a White Dot Light and feed the LED component end up through the bottom of the round 2 x 2 brick under the table.

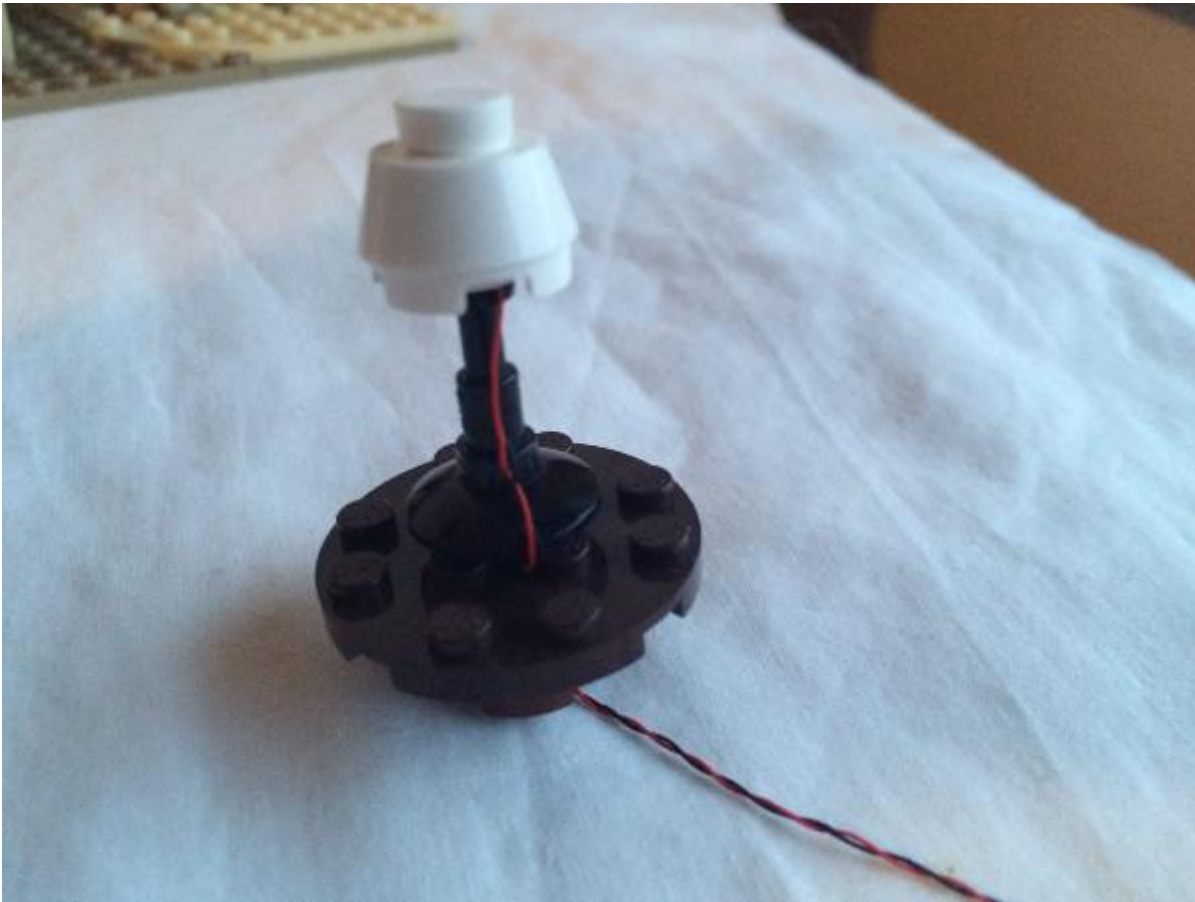


Run enough wire through so that you can rest the LED inside the lampshade with the yellow LED component facing the top of the lampshade.



Very slowly, join the stem of the lamp shade and the lamp back together. It is a tight fit and doing this slowly will prevent damage to the wires.





Replace the lamp back on the table. Pull the wires back through the table leaving a little dot of slack between the lampshade and the table.





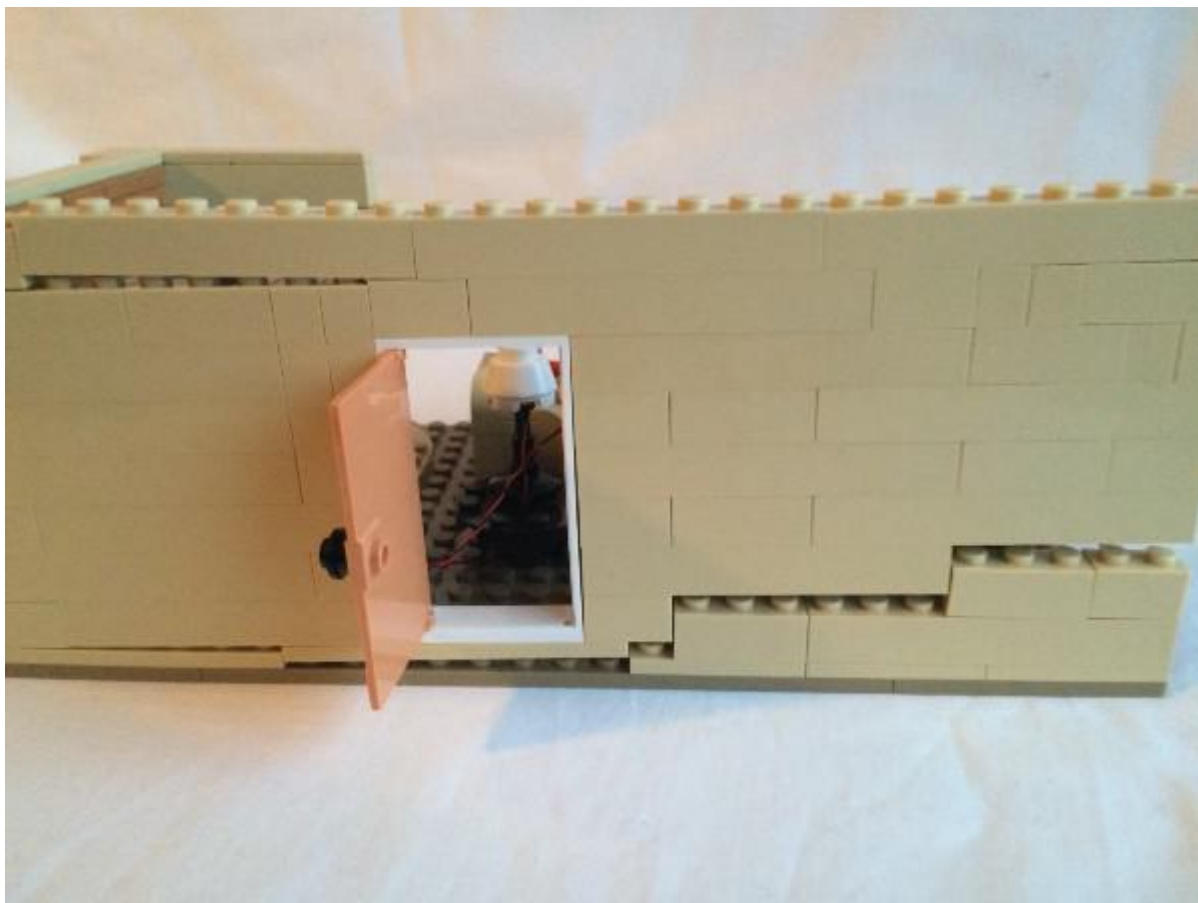
Place the coffee table back into your desired position in the living room. Keep the wires from the bottom of the coffee table running towards the back wall.



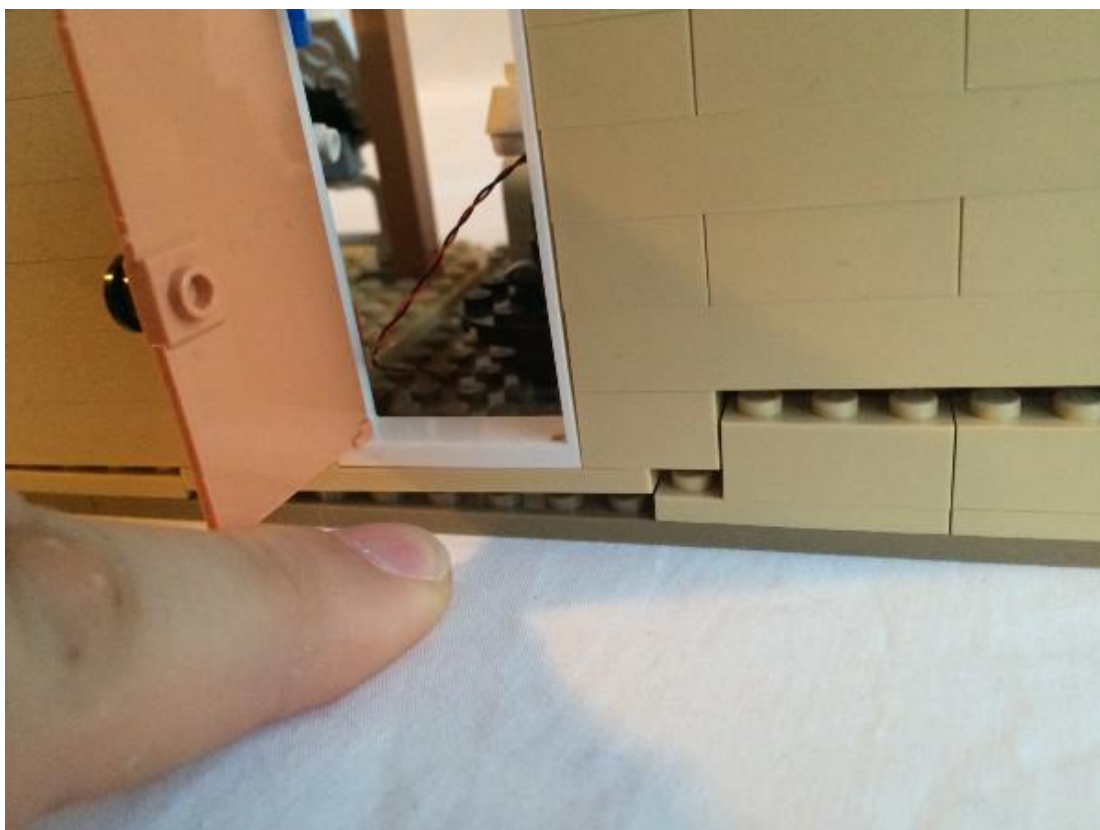


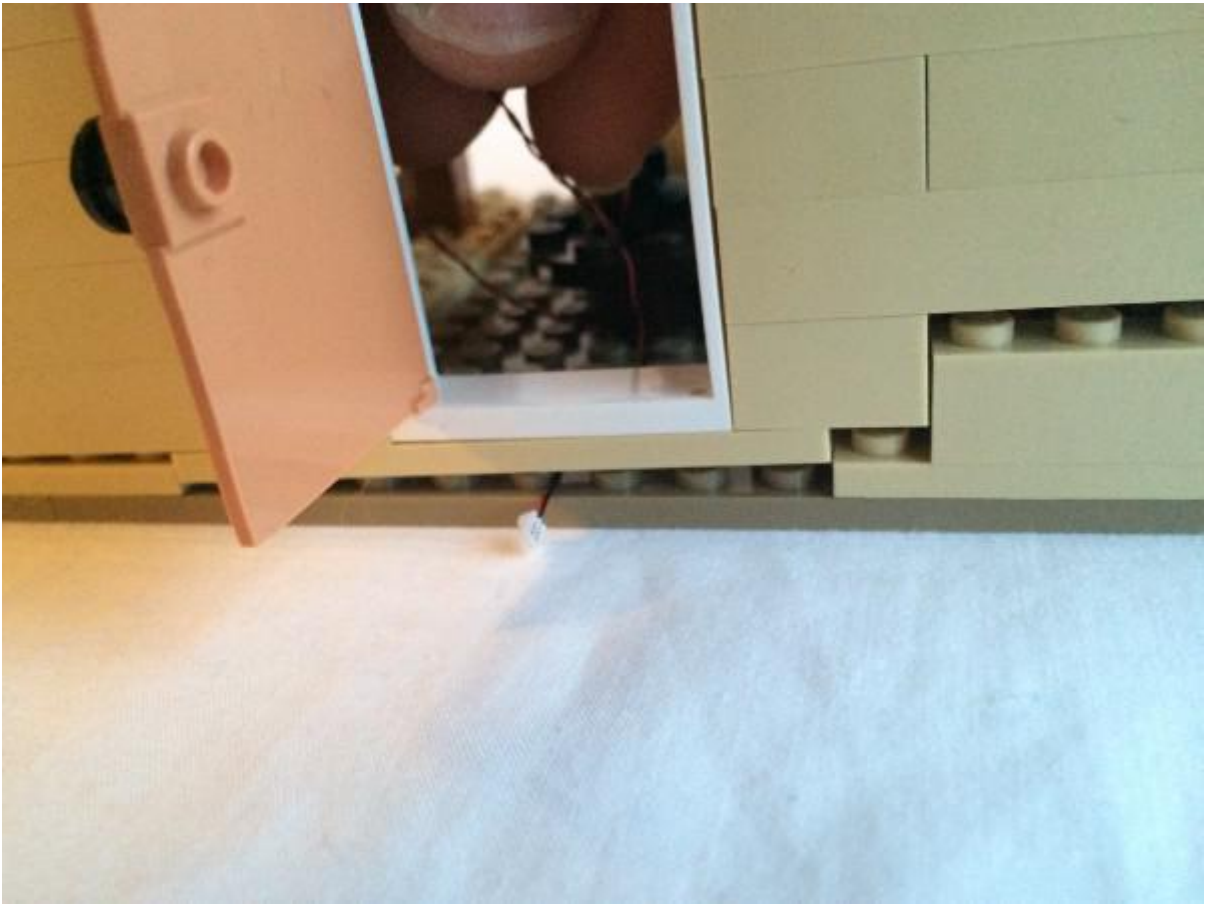
Open the cupboard door, wrap your finger inside the door frame and slowly lift so that the door assembly comes away from the floor.
 I have my thumb pressed into the floor for what I find to be a more controlled separation.





The gap only needs to be large enough to fit the plug end of the White Dot Light wire through. Expect other bricks to separate as can be easily seen when you look at the back of the model.





Run the plug end of the White Dot Light from the base of the coffee table underneath the door and the plate underneath the door.





Run the wires flat along the floor (for neatness) and make sure that the wire under the door is running in the middle of two studs.

Push the door and loose bricks back down.





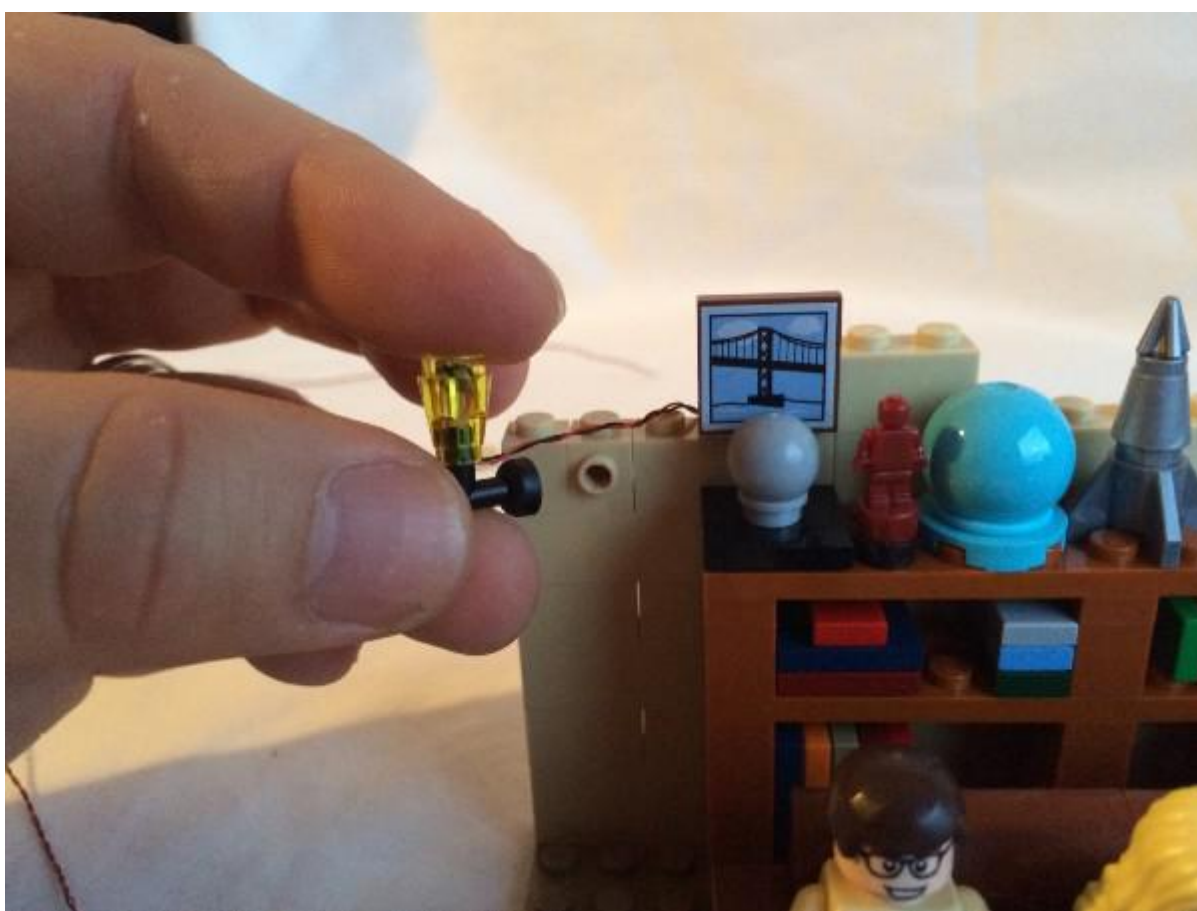


Turn the model around again and remove all the tiles from the top of the back wall.





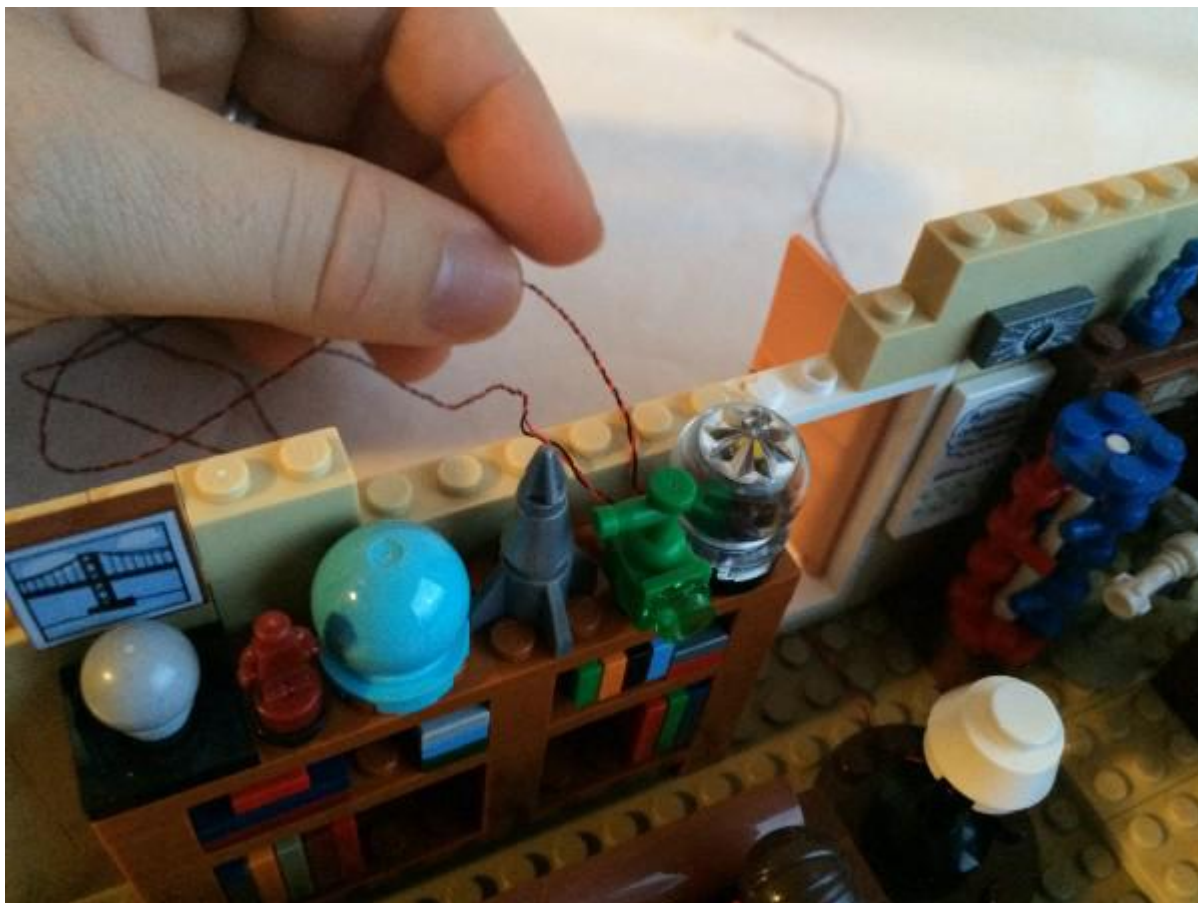
Grab the top two rows of bricks from the left and wiggle and lift them up. Don't worry if you don't get them all (like me!). We are mainly concerned with the second row of bricks behind the light and the bookshelf items we removed earlier.



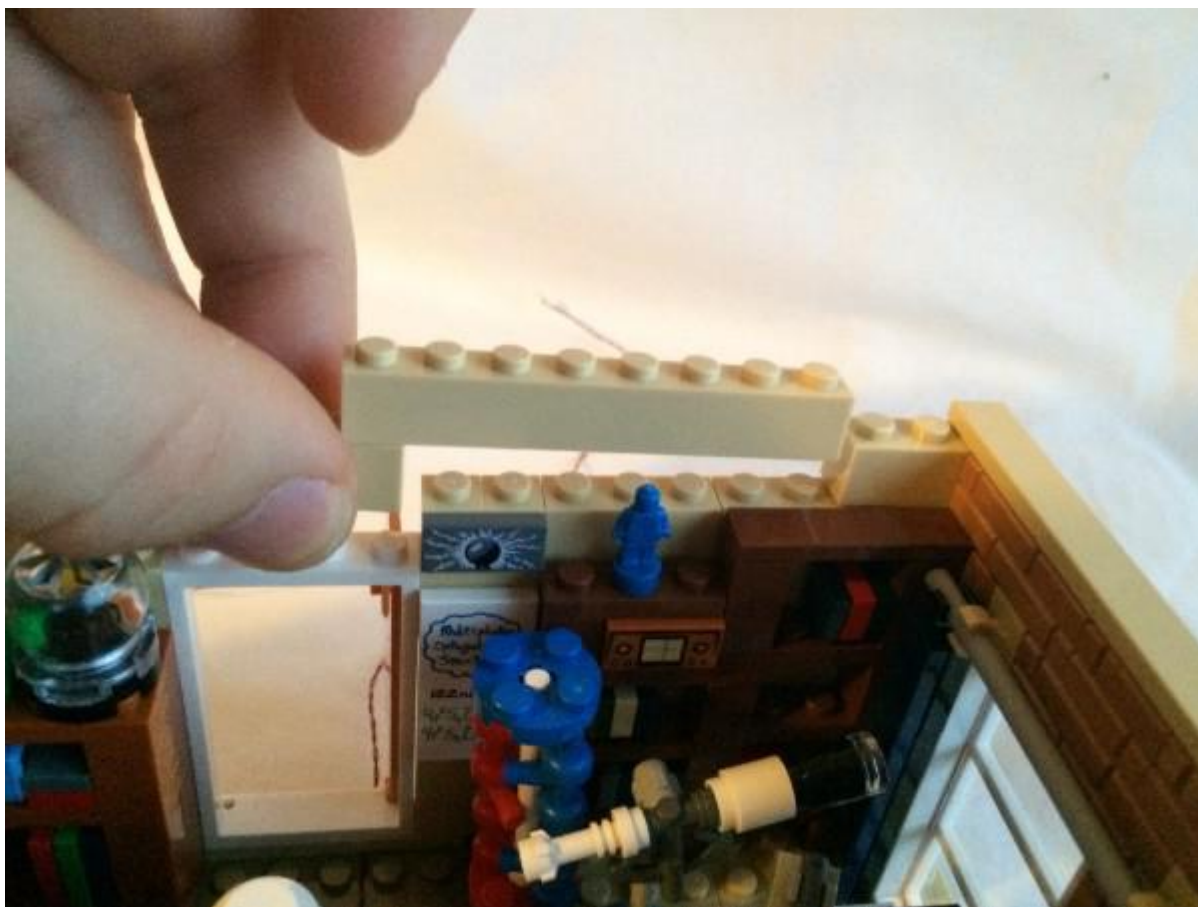


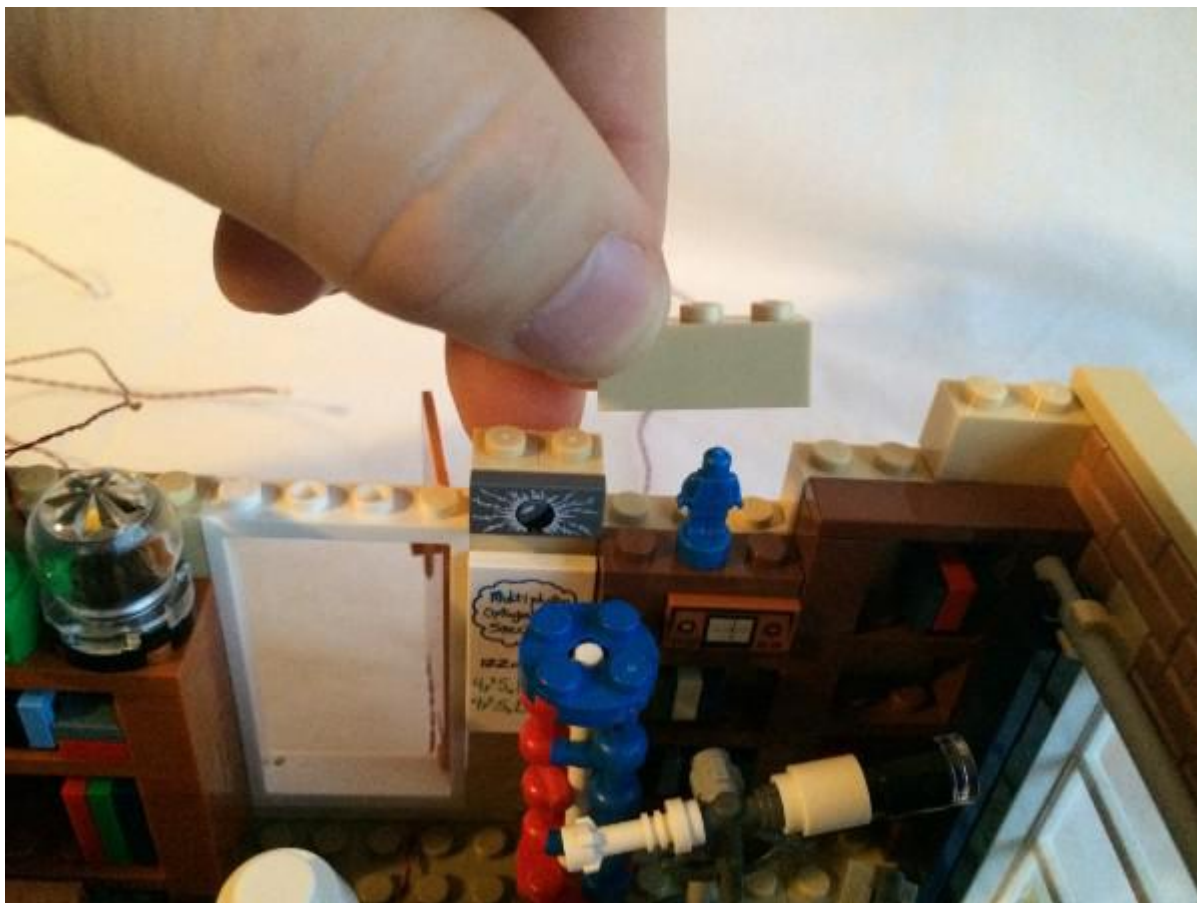
Grab one of the wall lights and refit it to the back wall, running the wires over the back of the wall.





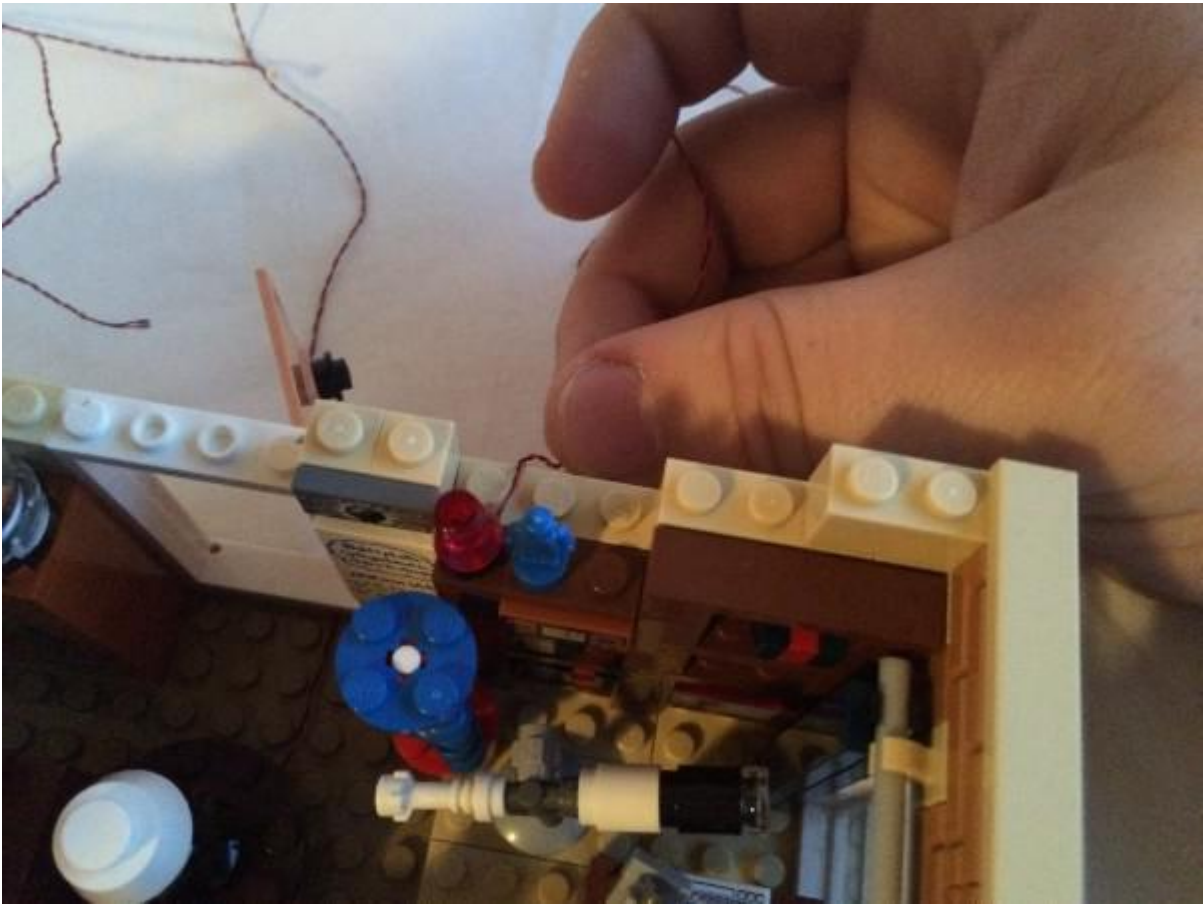
Grab the plasma ball and replace it on the bookshelf, running the wires over the back of the wall.



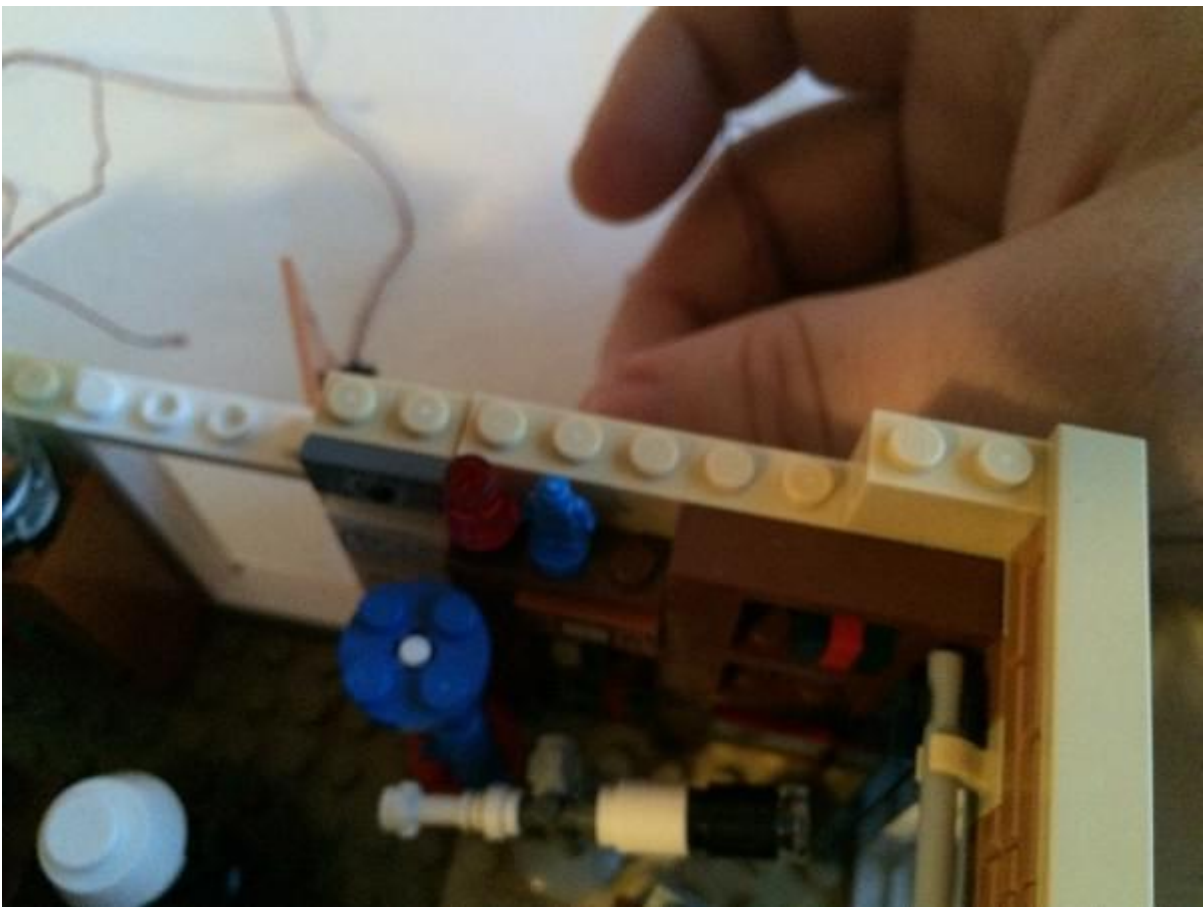


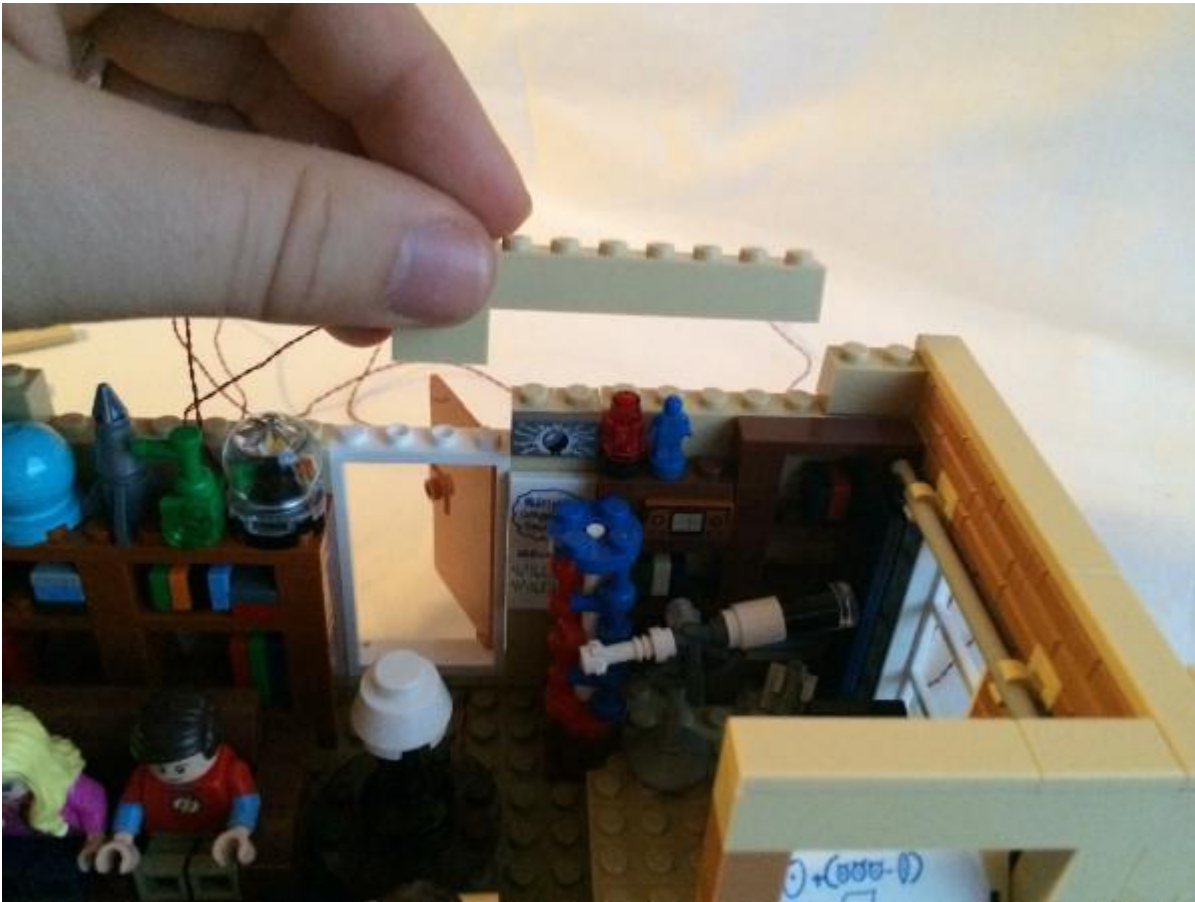
Remove the 1 x 8 tan brick from the top row of bricks on the right hand side of the door.
Remove the 1 x 3 tan brick from the second row of bricks behind the blue man statue.





Grab the lava lamp and replace it on the bookshelf, running the wires over the back of the wall.





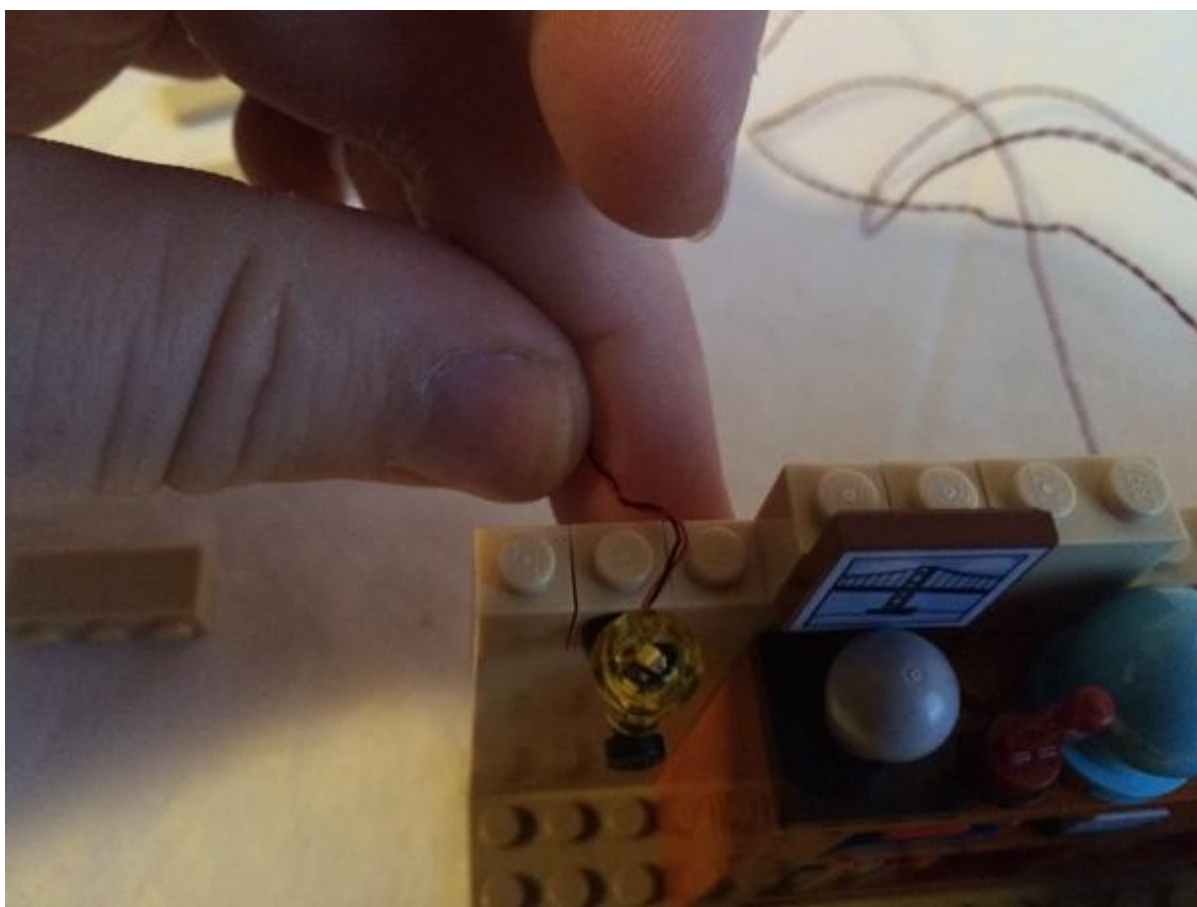
Make sure the lava lamp wires are running in between brick studs and replace the 1 x 3 tan brick to the second row of bricks behind the blue man statue.

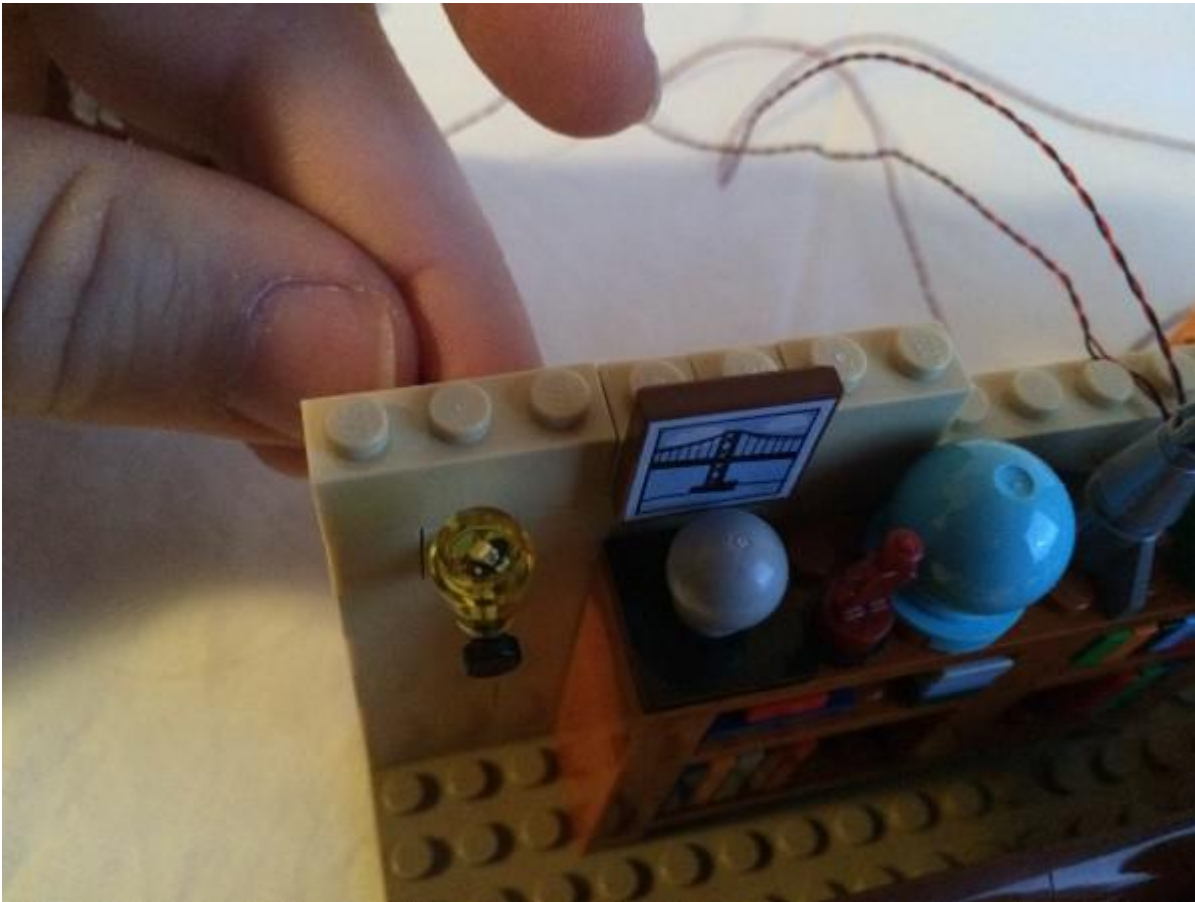
Replace the 1 x 8 tan brick to the top row of bricks on the right hand side of the door.



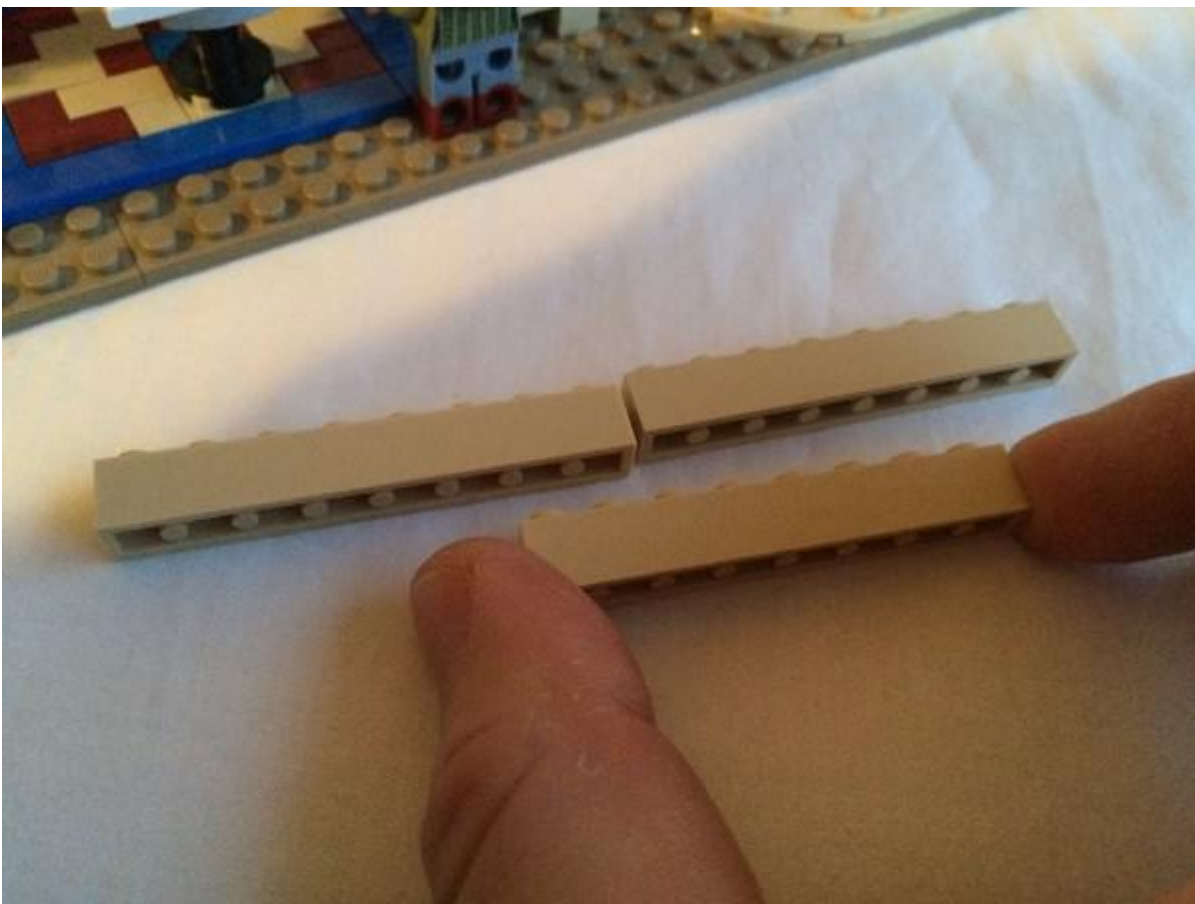


Find the top two rows of bricks that you removed from the left side of the model.
Detach the 1 x 3 tan brick from the second row of bricks.





Make sure the wires from the wall light is running in between brick studs and then replace the 1 x 3 tan brick.





Find what's left of the top two rows of bricks that you removed from the left side of the model.

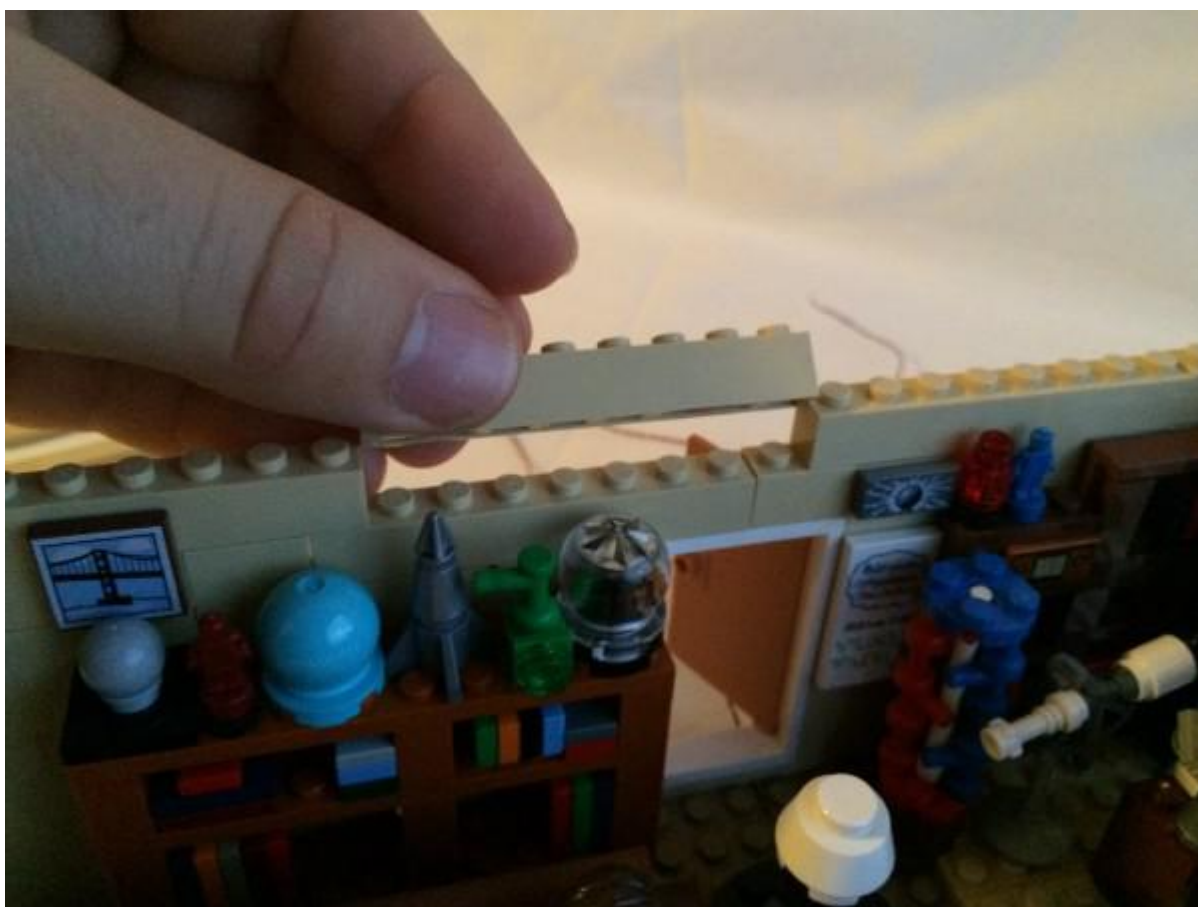
Detach the 1 x 8 tan brick from the second row of bricks.

Make sure the wires from the green lantern and the plasma ball are running in between brick studs and then replace the 1 x 8 tan brick.





This will leave you with two 1 x 8 tan bricks from the bricks you removed from the left side of the model.





Replace the 1 x 8 tan bricks to the top row of bricks on the rear wall.





Bring your attention to the front right of the model where the other wall light was located.





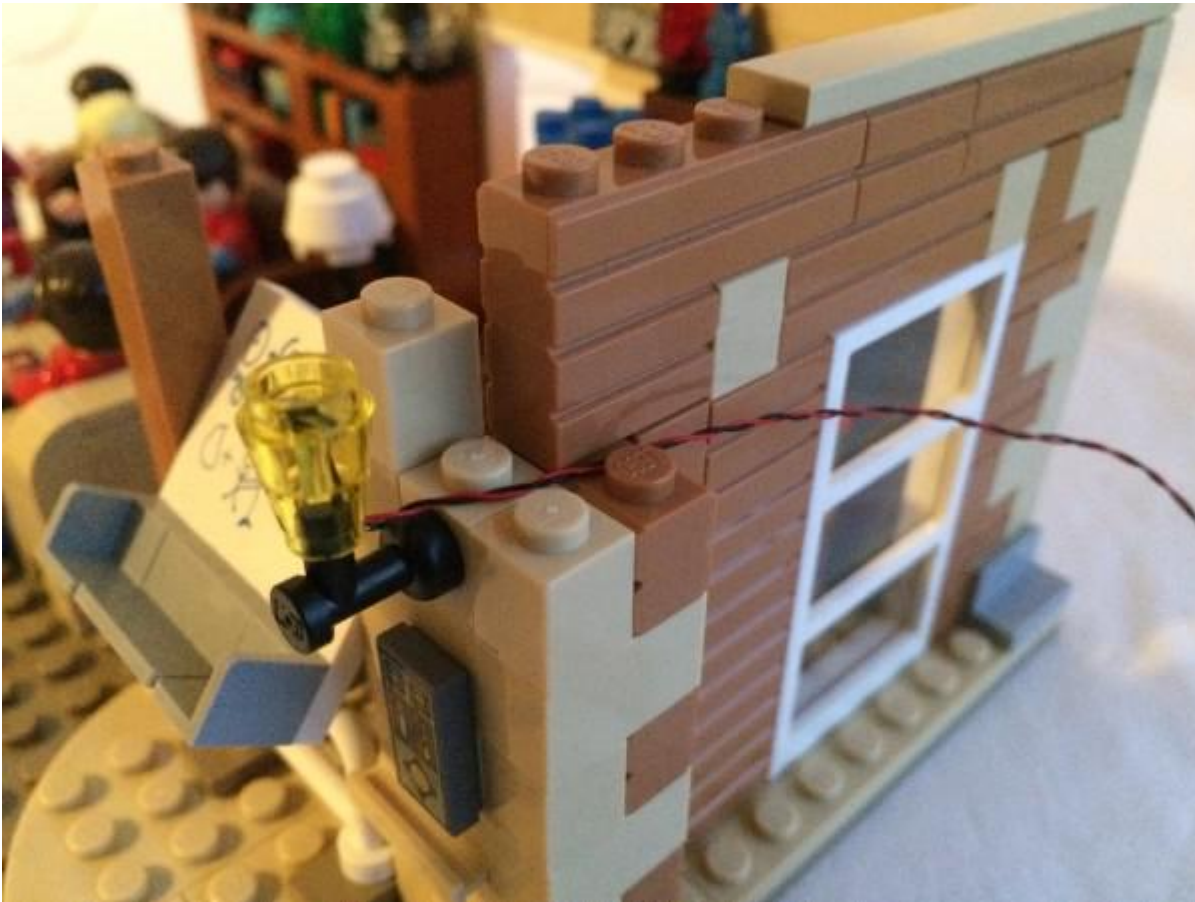
Pinch the second row of bricks down on the outer wall column and left them up.





The brick across the walkway and top tiles will probably come off as well. This is ok.





Grab the remaining wall light and refit it to the front wall, running the wires over the back of the wall as seen in the picture.





Replace the top of the outer wall column and any other pieces that came off when you removed it.



Remove the 1 x 4 and 1 x 8 tan tiles that run from the front to the back of the model.



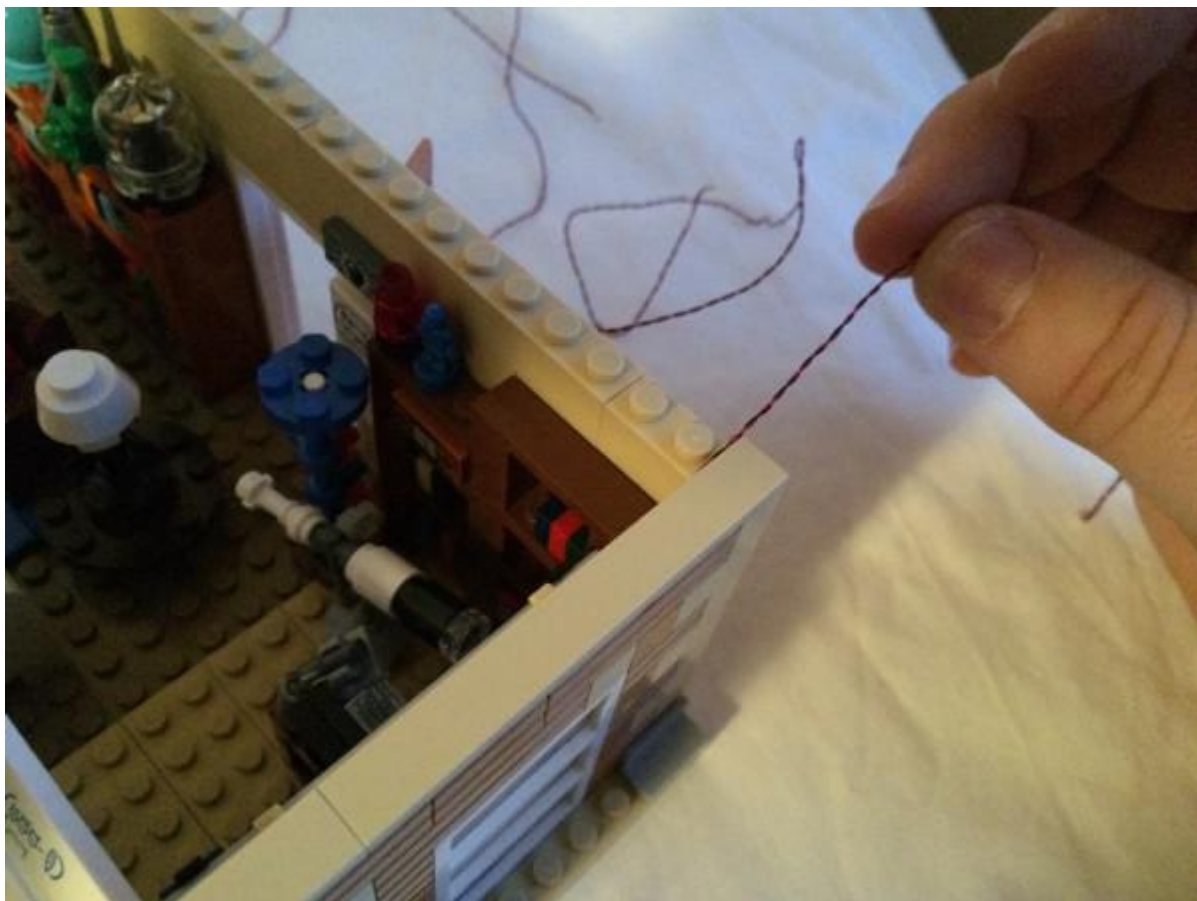
Grab the wire from the wall light and wrap it around the two studs on top of the wall as seen in the

picture.



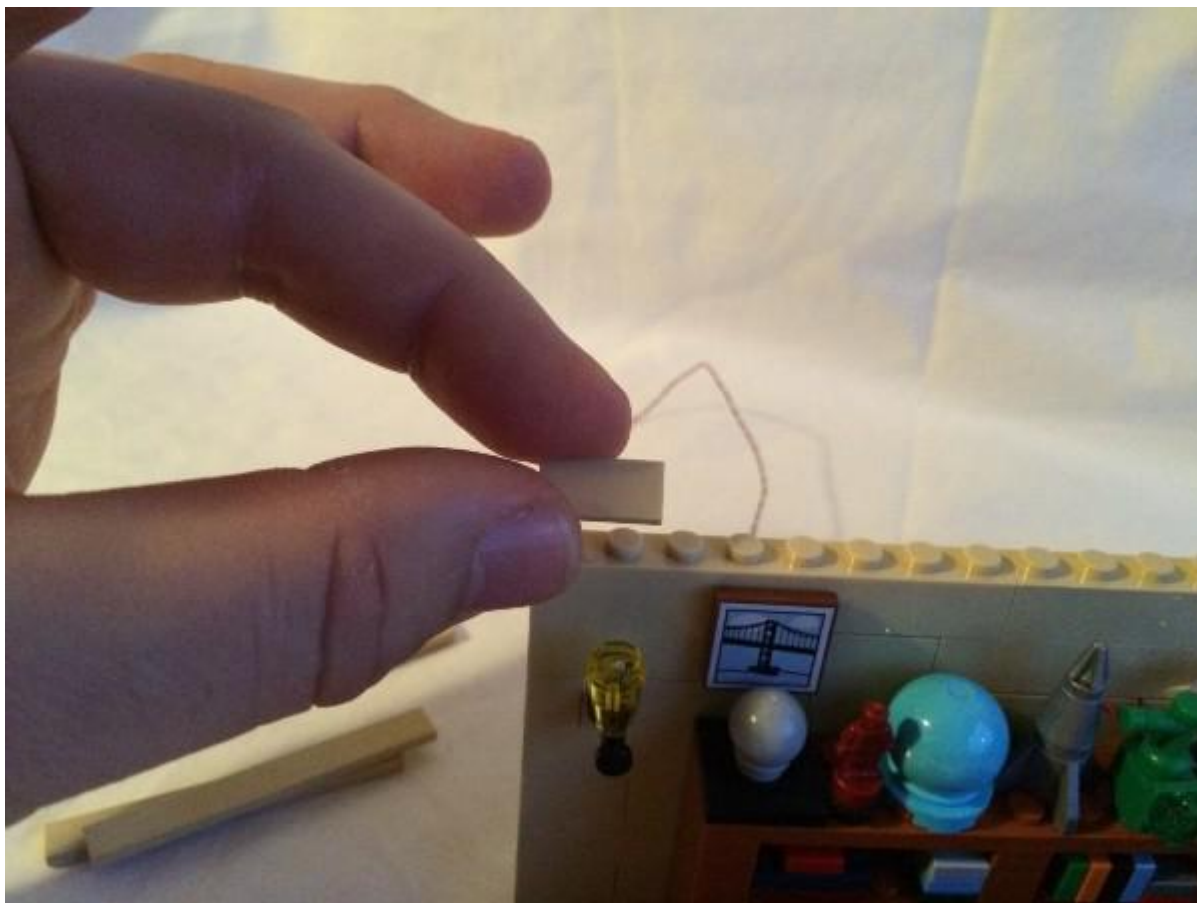
Replace the 1 x 4 tan tile.





Continue to wrap the wires around each pair of studs as you run it towards the back of the model.
Replace the 1 x 8 tan tile.

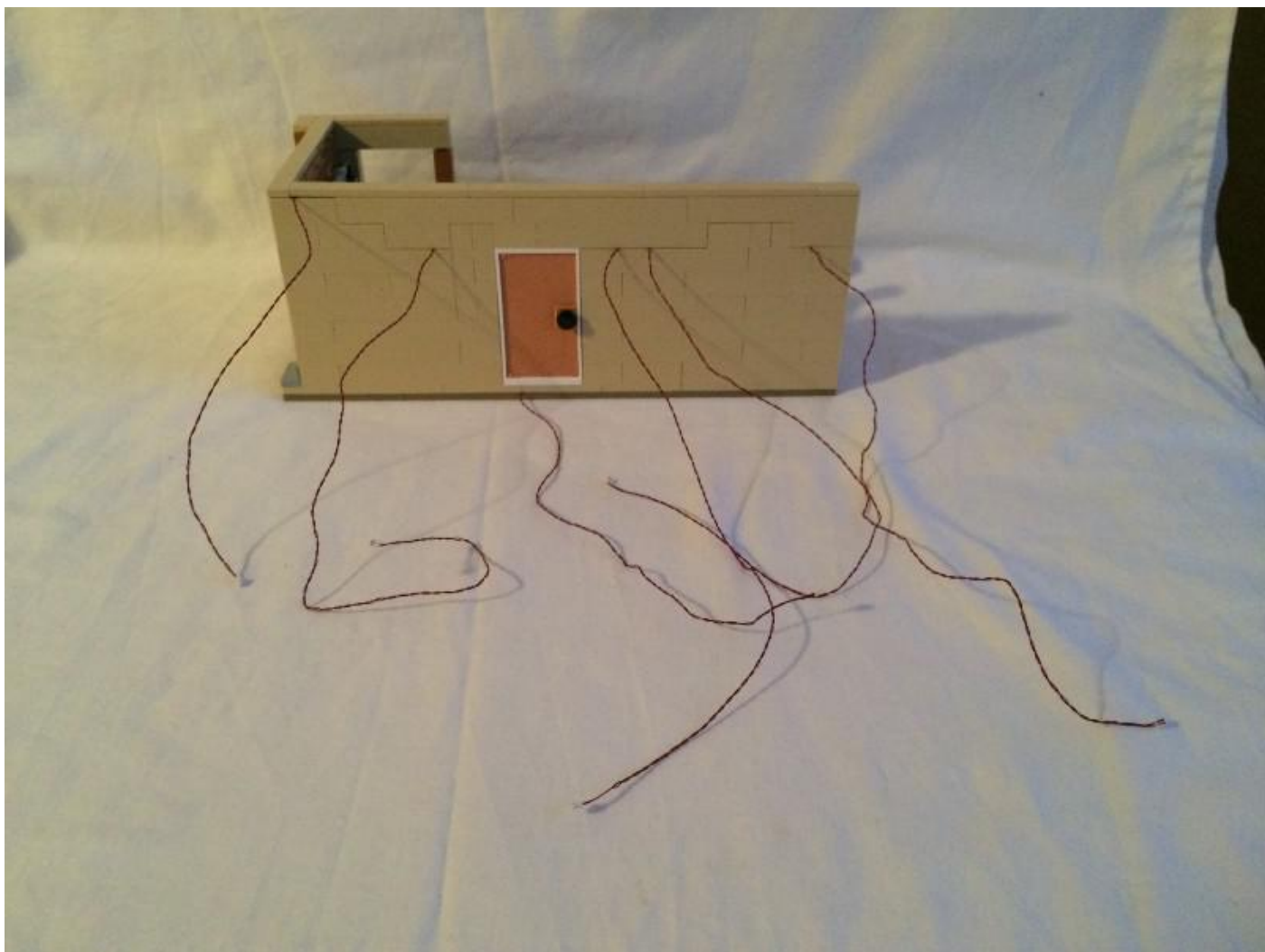




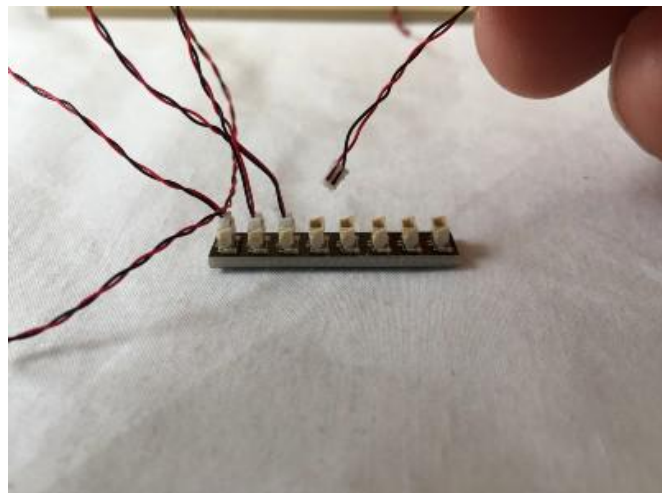
Replace the tiles along the back wall.

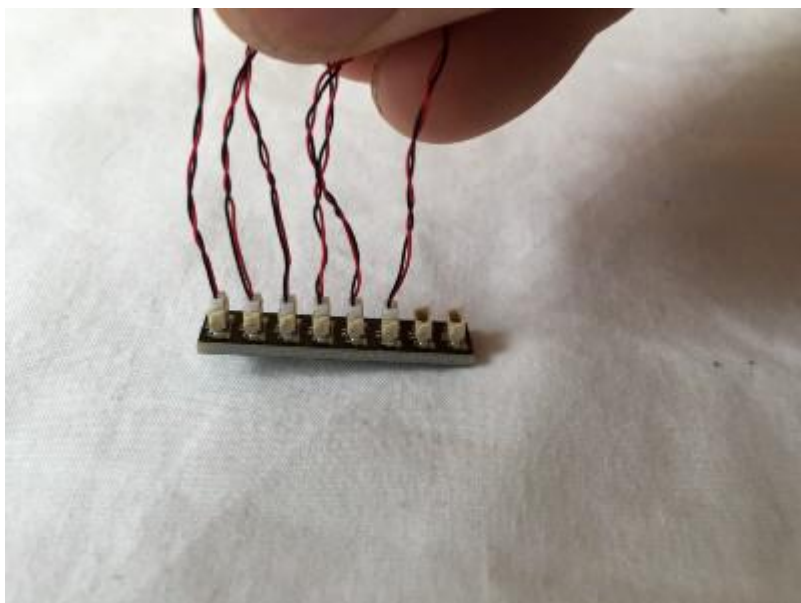


The last tile will have the wire from the front lamp running under the end of it.



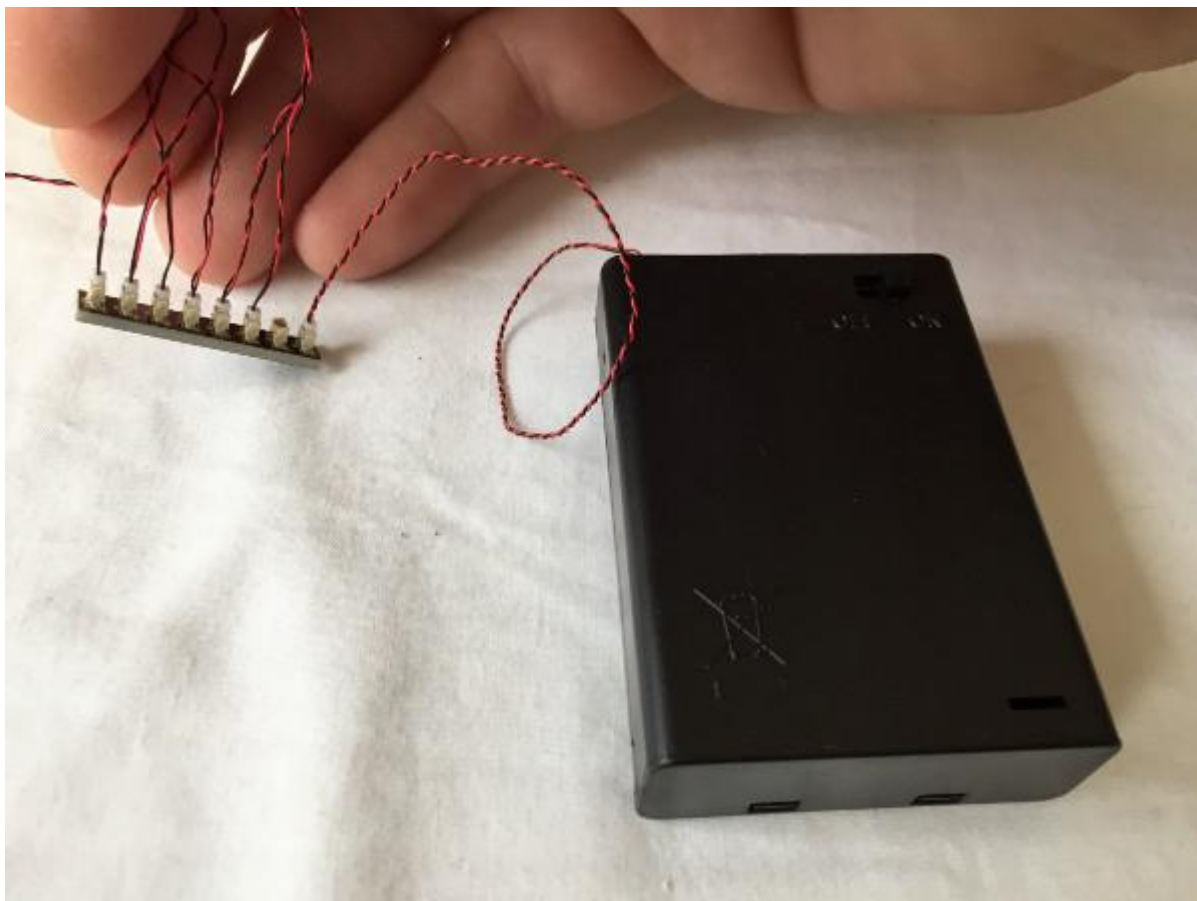
When you turn your model around, it will look something like the picture above.





Grab the 8 Port Expansion Board and plug the dot lights into it.





Grab your battery pack and connect it to an available slot on the 8 Port Expansion Board.

