

75827 Firehouse Headquarters P6202

- P6202 is the unique code of lighting set, we use this to accurately identify the product you purchased and the corresponding manuals and services you need to obtain. Please make sure your product code is the same as the label on the back of the box shown “75827 P6202”.
- Installation requires a lot of patience and great observation that your LEGO bricks will come alive when you get this finished. The bricks with lighting as below, so make sure you're ready and let's get started.



Strategies for the Installation

This instruction divides three sections to complete the installation of the lighting set.

Section A: Check the type and quantity of components.

The quantity and type of components of each products are different and it needs to be carefully checked to make sure there do have enough material. The type of components is indicated by the label on the bag.

Section B: Test that each components is working properly.

Each components is made individually so it is necessary to test that each components is working properly to avoid the situation that the lighting does not work .

Section C: laying out components following the instruction.

Our material is very small but not fragile, just be reminded that don't to pull the wires too hard. For different people, there may be some installation steps that you can't understand. Please look at the previous and later installation step

Section A: Check the type and quantity of components.

There are 13 bags in this set. The name and quantities of specific components are as shown , please check carefully.

Label	Content	Quantity
LED Strip Lights-White	LED Strip Lights-White	6
Expansion Board	6 Socket Expansion Board	2
	12 Socket Expansion Board	1
	2 Socket Expansion Board	1
AA Battery Box	AA Battery Box	1
Connecting Cables-5CM	Connecting Cables-5CM	1
Connecting Cables-15CM	Connecting Cables-15CM	4
Connecting Cables-30CM	Connecting Cables-30CM	7
Connecting Cables-50CM	Connecting Cables-50CM	1
Bit Lights-30CM-Warm White	Bit Lights-30CM-Warm White	13
Flashing Bit Lights-30CM-Warm White	Flashing Bit Lights-30CM-Warm White	1
Flashing Bit Lights-30CM-Red	Flashing Bit Lights-30CM-Red	3
Traffic Light Effect Module	Traffic Light Effect Module	1
Remote Control Board	Remote Control Board	1
Parts package		

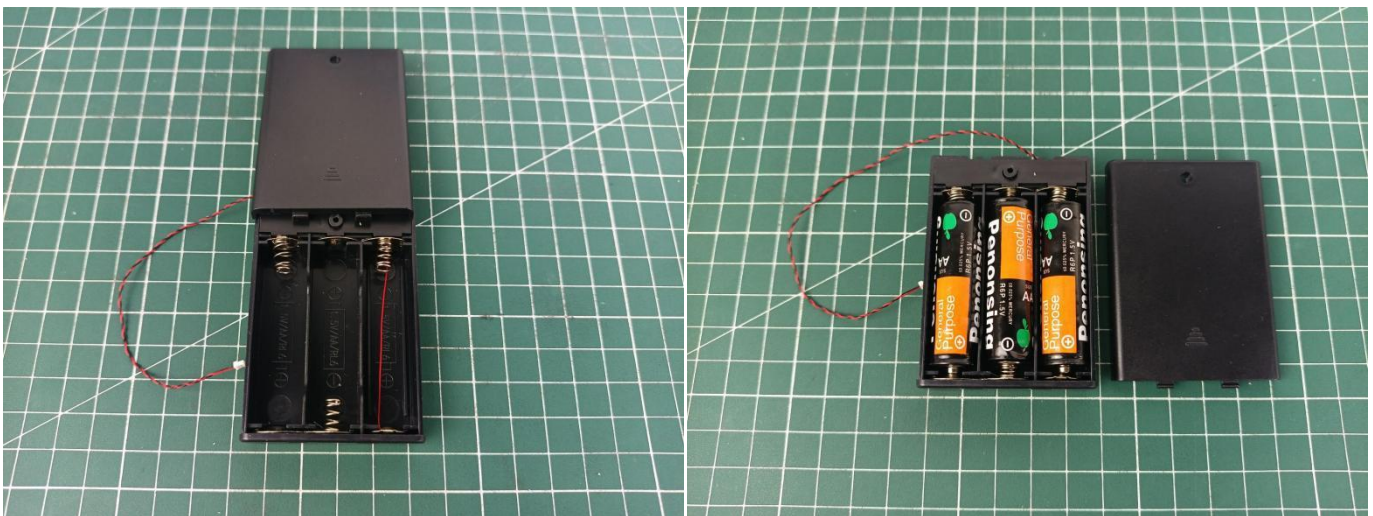
Please contact us immediately if there have any missing components.

Section B: Test that each components is working properly.

We need a structure to test all lights, so take out the bag with label “AA Battery Box ”and “Expansion Boards”as follows.

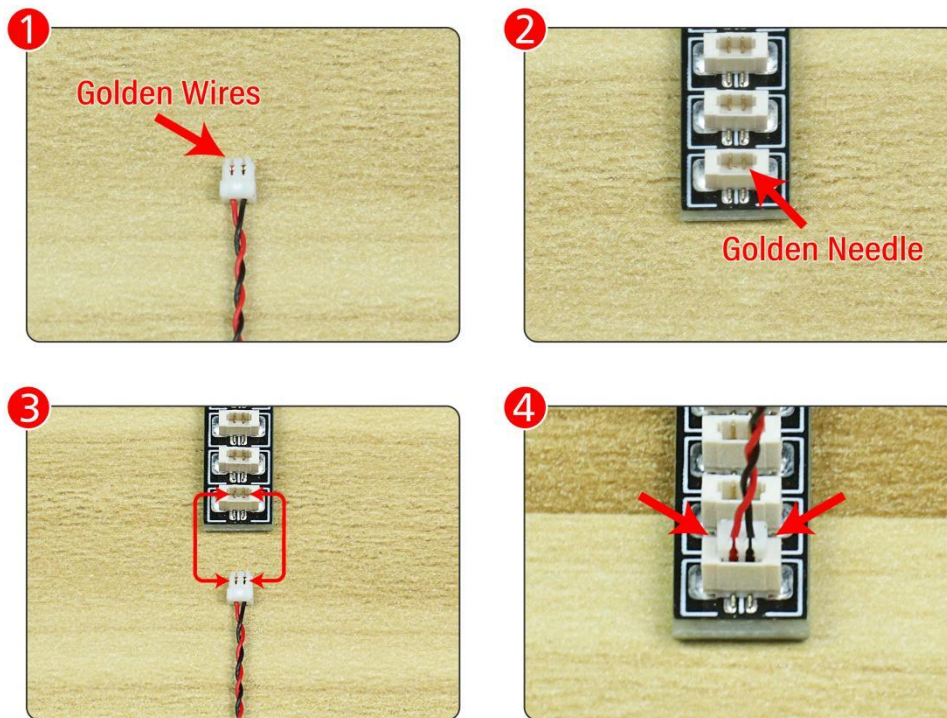


The AA Battery Box does not contain batteries, please buy three AA batteries in the nearest store and install it in the AA Battery Box.



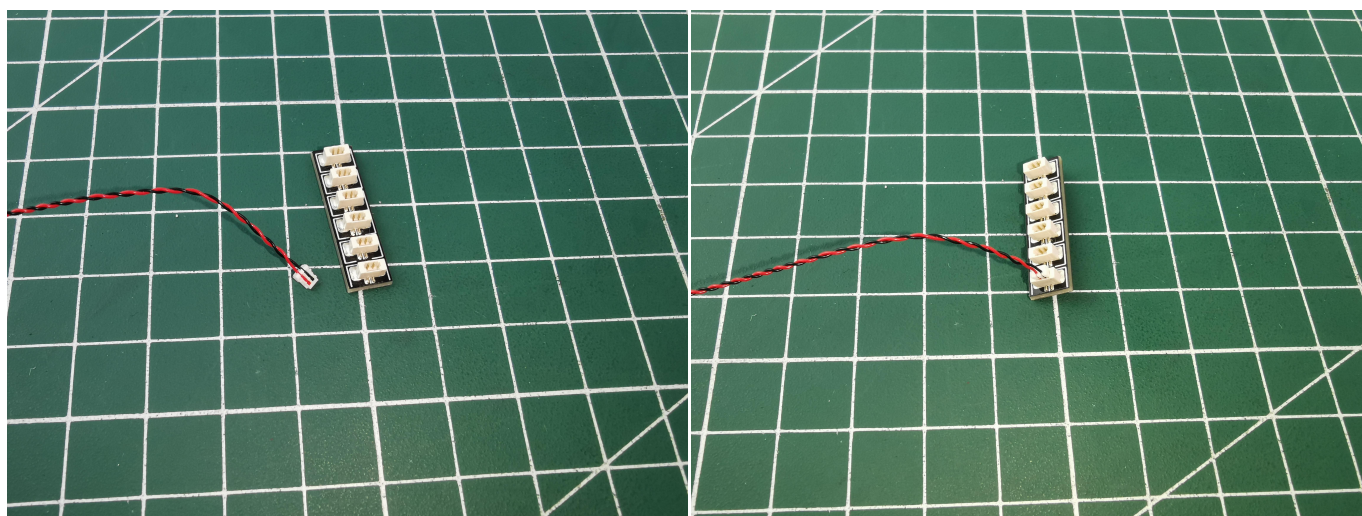
It is worth reminding that our products are all customized. They have a unique way of connecting. The white plug on wire and the socket of the expansion board need to be connected together to transmit power.

Note that on one side of the white plug you can see two very small golden wires that should be connected to the two golden needles in socket of the expansion board. shown as blow.

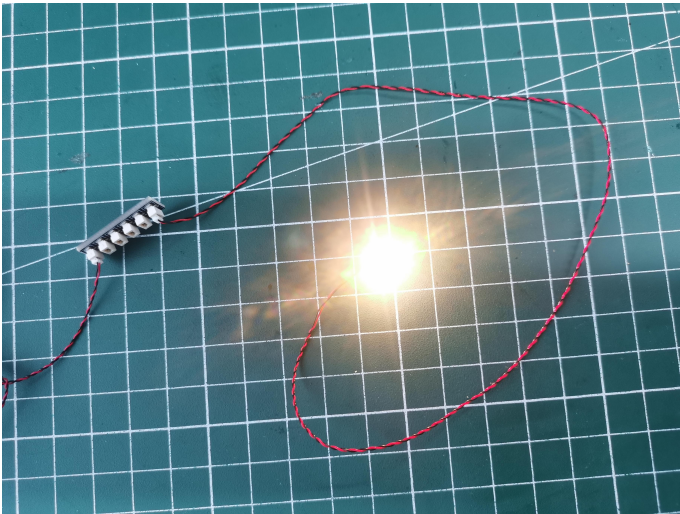


All our connections between plug and socket are all the same as shown above. So for any such structure with plug and socket, please pay attention to the golden wire of the plug and the golden needle of the socket, they must be touched together.

The connection method between the AA Battery Box and Expansion Boards is as follows:



when we test "Bit Lights-30CM-Warm White" particles,Take out the bag labelled "Bit Lights-30CM-Warm White".Take out one of the light and connect it to the socket. Turn on the battery box , the light will turn on normally as shown below.



Test each lamp according to this method. It should be noted that after the test, the lamp must be returned to the corresponding bag to avoid confusion of types.



The components needs to be tested in this set is 6*LED Strip Lights-White,12*Bit Lights-30CM-Warm White,1*Flashing Bit Lights-30CM-Warm White,3*Flashing Bit Lights-30CM-Red.

Please contact us immediately if any components don't work.

Section C: laying out components following the instruction.

1. This lighting kit is installed from the bottom up. Start by opening the building and removing the 2nd and top levels of the modular building.



2



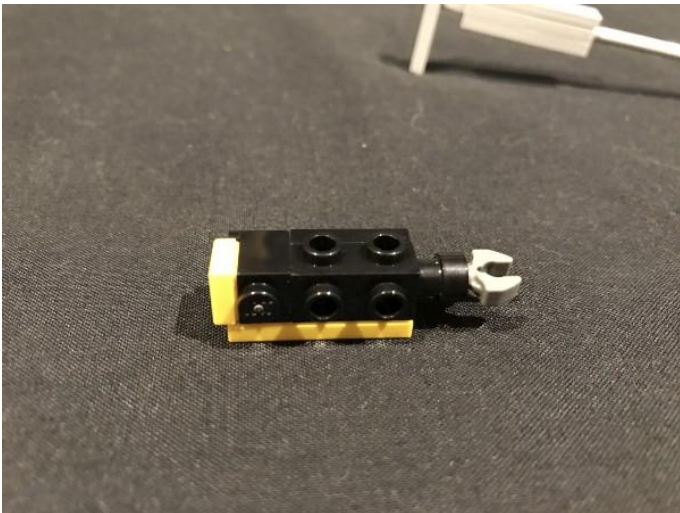
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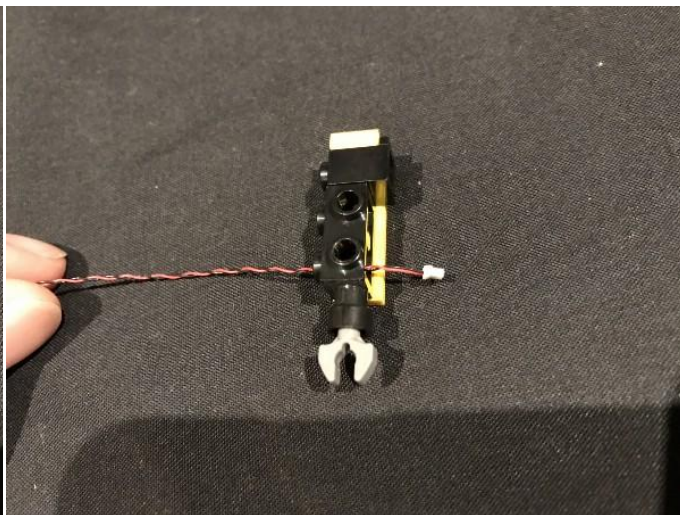
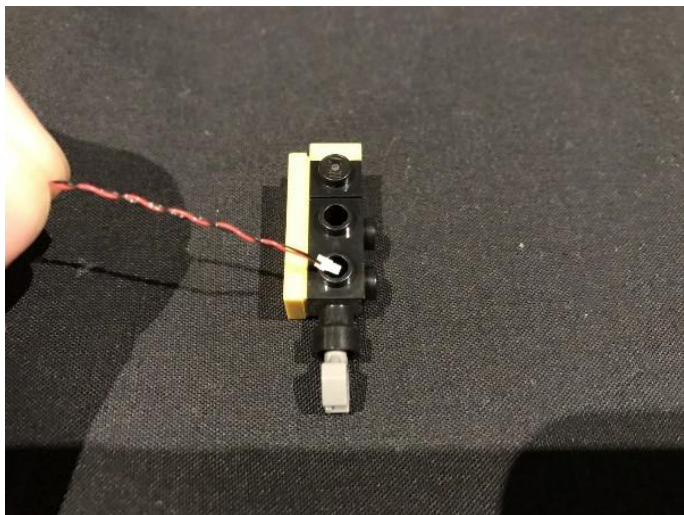
4. We will be installing lights to the traffic light first. Remove the traffic light and pole, then disassemble the traffic light starting from the left yellow plate.



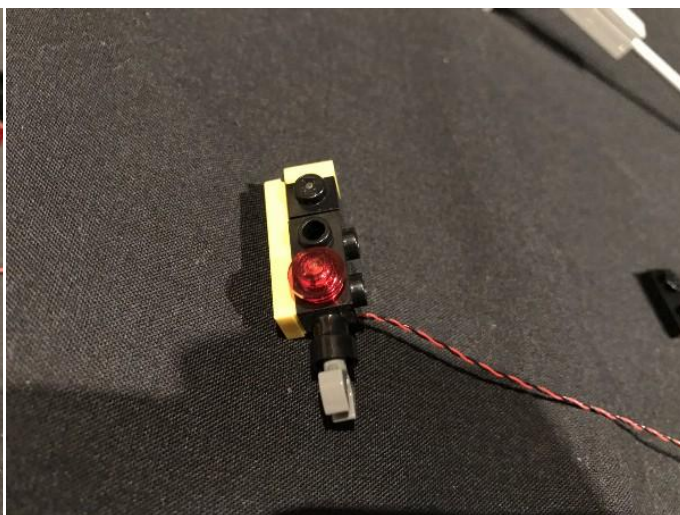
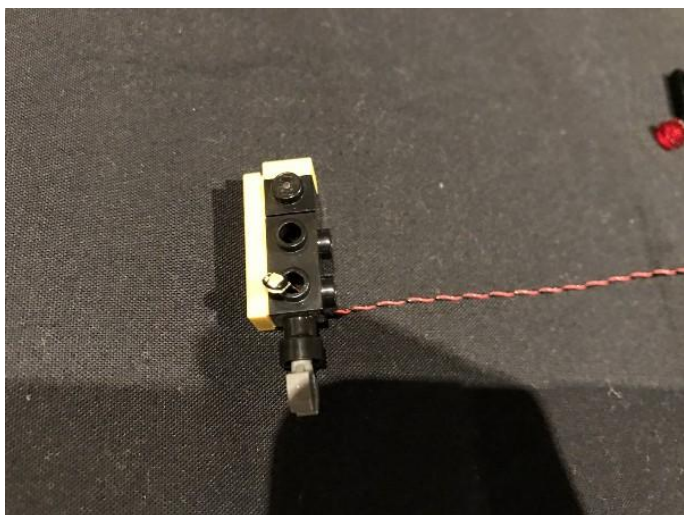
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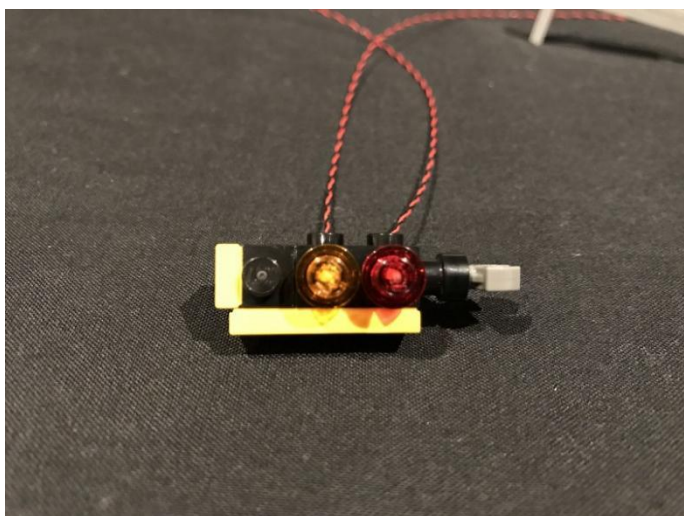
6. Take 1 Dot Light and thread the connector side through the first hole on the side of the black traffic light piece as shown below. Pull the Dot Light all the way through from the base of the traffic light piece until the LED is at the top of the hole, then secure it in place by connecting one of the provided red trans round plates over the top. Ensure the LED component is facing the correct way up before securing.



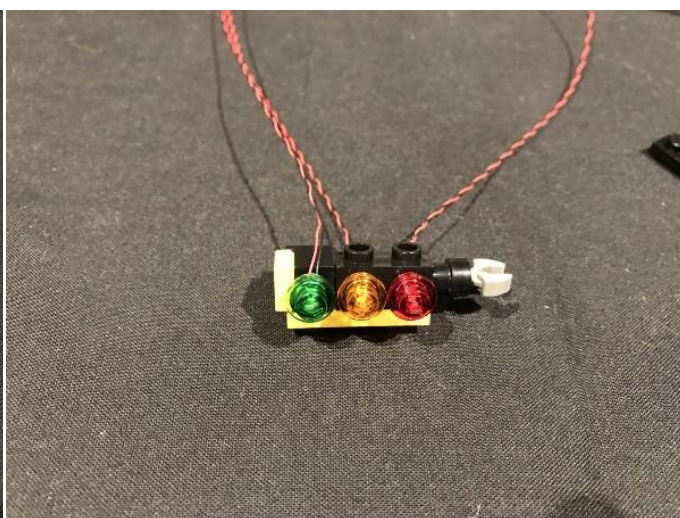
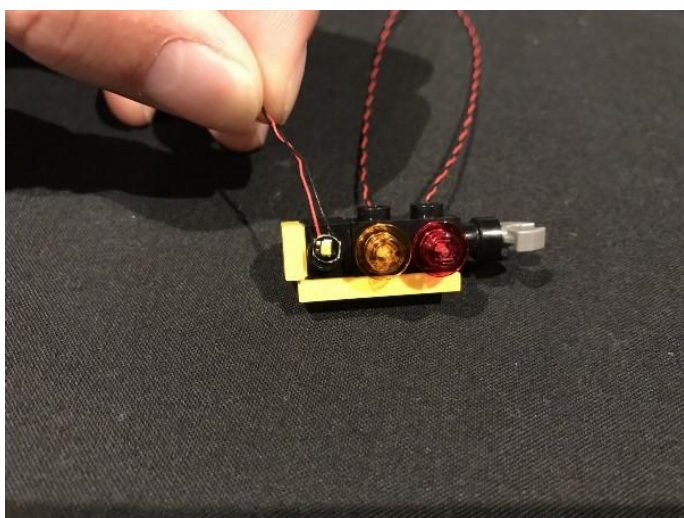
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8.Repeat this step to install another Dot Light to the next hole on the traffic light piece this time, using the provided orange trans round plate to secure the Dot Light.



9.To install the green light, take another Dot Light and then place it directly over the stud with the LED facing up. Then secure it in place by connecting the provided green trans round plate directly over the top.



Tips

The plate without slit:

The plate without slit:

The squeeze causes the protective layer of the wire to be torn apart, the positive and negative wires touch together, and the set is short-circuited and the hot or wire is crushed, the wire to be disconnected and don't work.



The plate with slit:

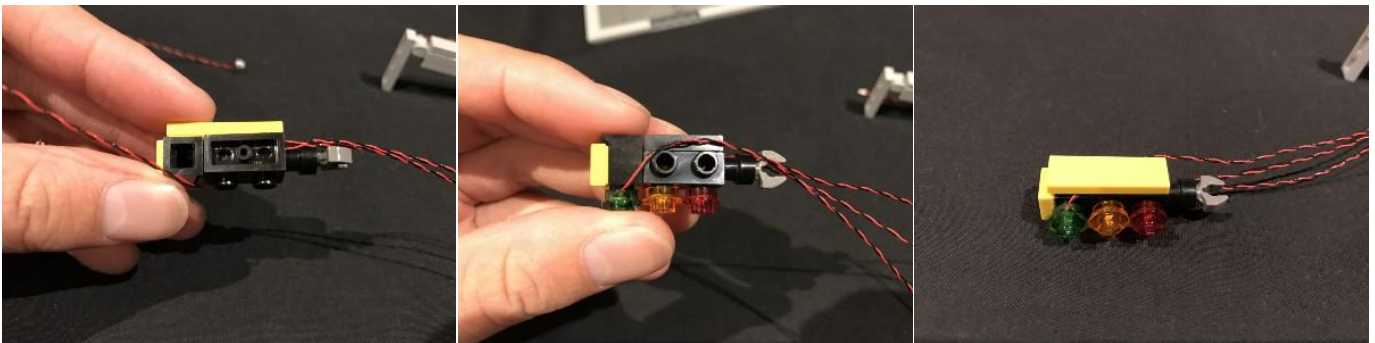
The plate with slit:

The wire has enough space to avoid being squeezed endowed with longer service life and more stable effect.

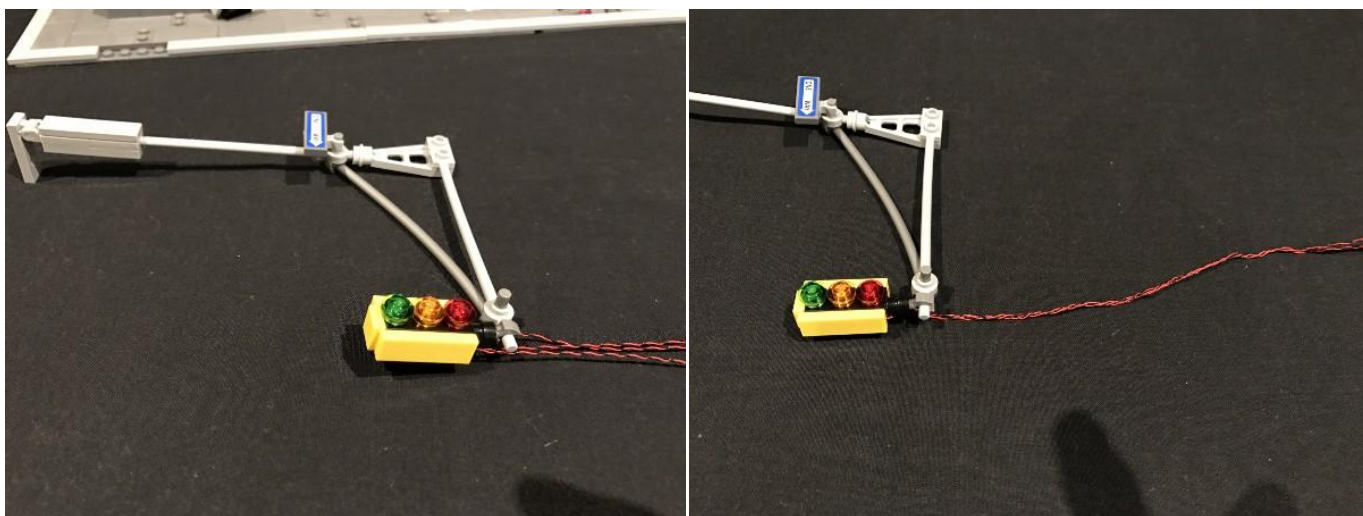


The slit on the the plate round 1X1 are hand-made to avoid squeeze the wire and cause short circuit and abnormal heat during installation.

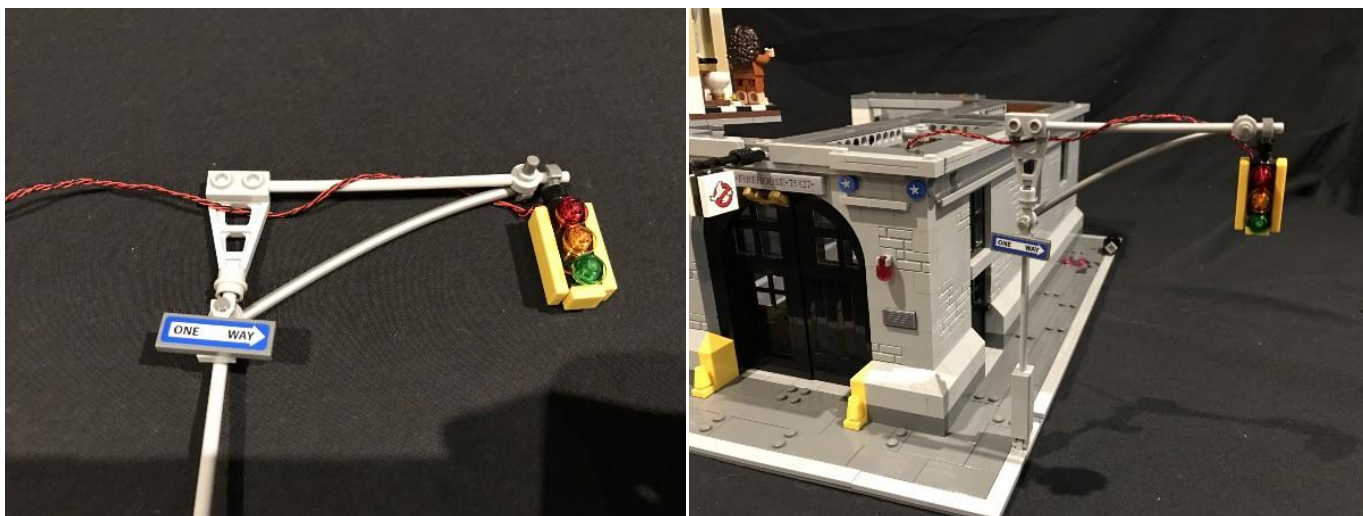
10.Reconnect the black 1x2 plate we removed earlier as well as the yellow 1x3 tile ensuring the cables are laid in between and underneath the pieces.



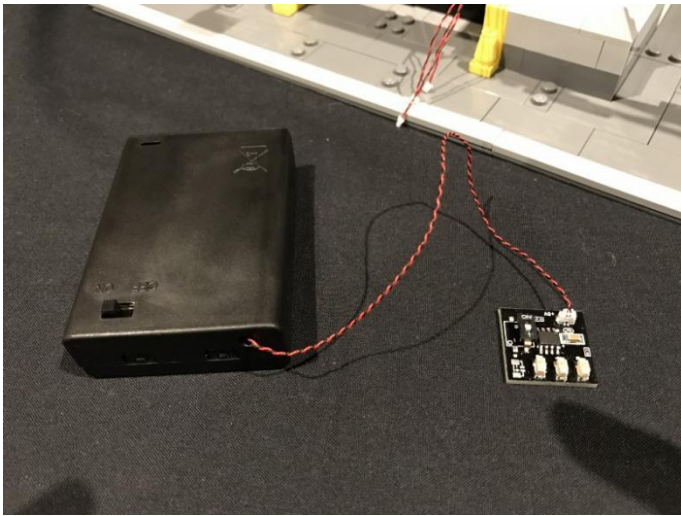
11.Reconnect the traffic light with lights installed to the pole and then take the 3 cables and wind them around each other so they all come together as one thick cable.



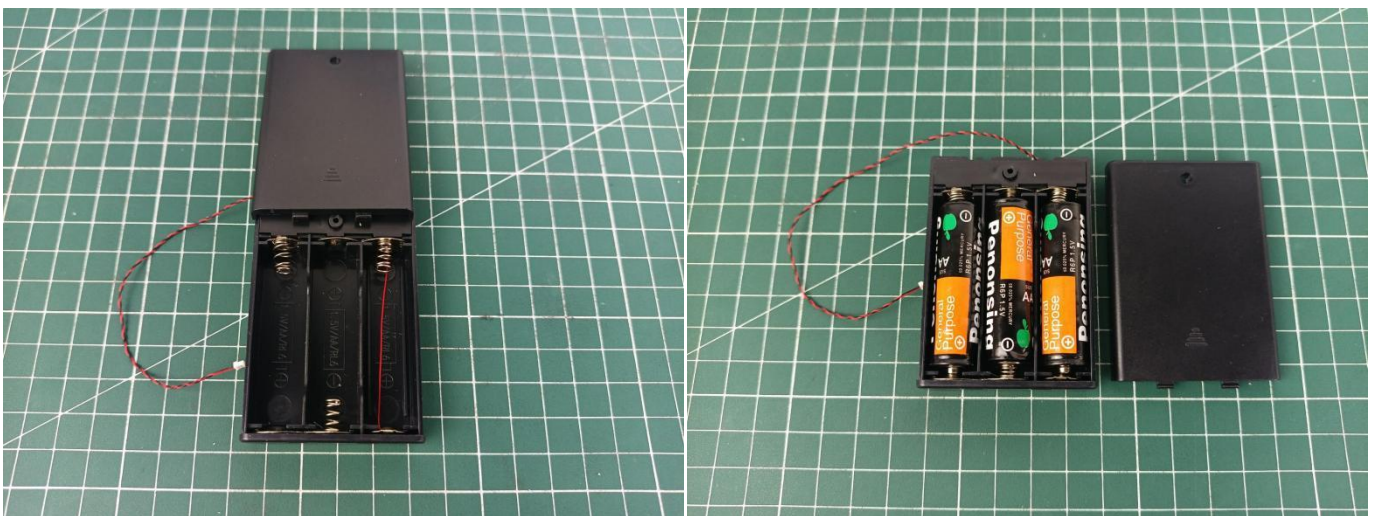
12.Thread the cable around the top of the pole as shown below before reconnecting the pole back to the base plate.



13. Take the battery pack and insert 3x AA batteries to it. Connect the battery cable into the top port of the 4-port traffic light board as shown below.

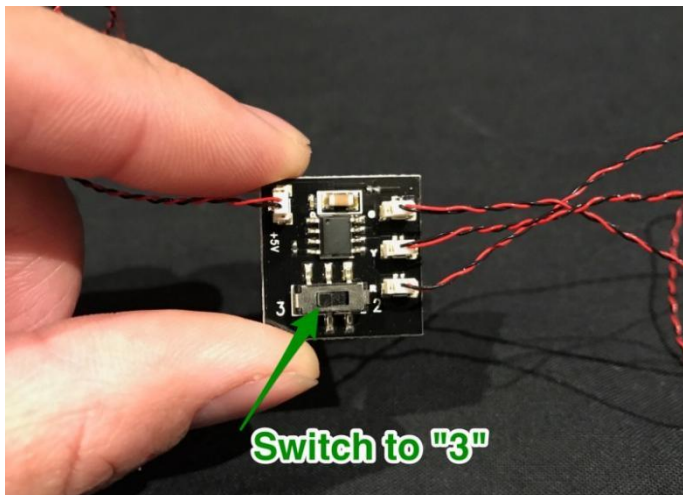


The AA Battery Box does not contain batteries, please buy three AA batteries in the nearest store and install it in the AA Battery Box.



14.Ensure the effect switch is at the label “3”. (The other option “2” is for a 2-light traffic lights effect which we don’t for this)

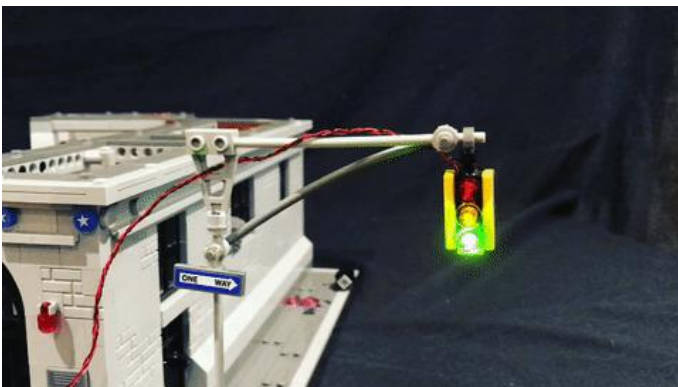
Connect the 3 cables from the traffic light into the ports on the traffic light board labelled “G”, “Y” and “R”.



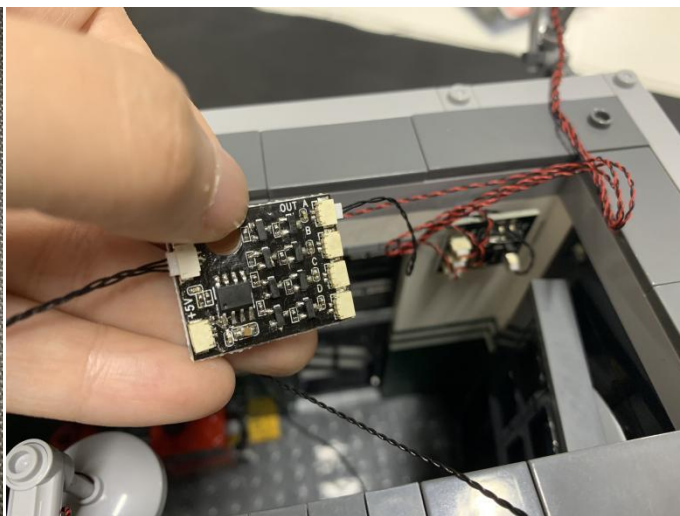
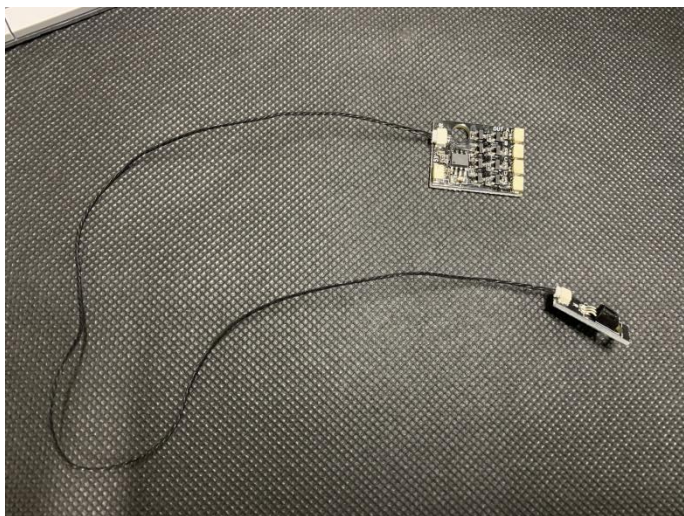
15. At this point you may be thinking, “Great, I’ve just mixed up my 3 cables, how am I meant to know which cable is for which port?”

The only way is to turn on the battery pack and seeing which light comes on for which port we connect to. We will need to ensure that each light is connected to the correct port otherwise the effect sequence will not be accurate. E.G if you connect a light into the port “G” but you notice the yellow light is on at the traffic light, then remove this light and connect it to port “Y”.

The effect sequence should go Green for 5 seconds, flash 3 times, Yellow for 3 seconds, flash 3 times, Red for 5 seconds, flash 3 times, Repeat.



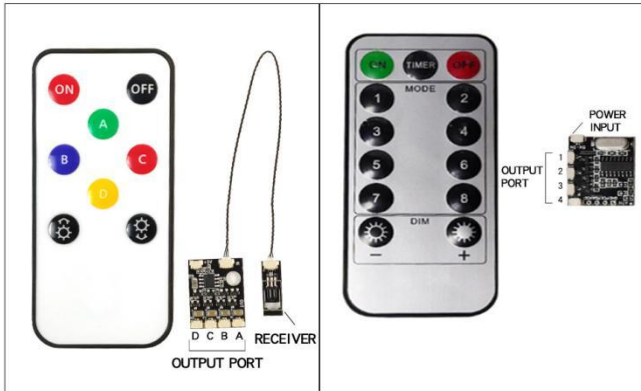
16. take the switch board, and the receiver. Disconnect the cable of the battery pack. Take a 15cm connecting cable, and connect it to the output port on the switch board.



FRIENDLY TIPS

The remote control has been updated

Old style remote control:



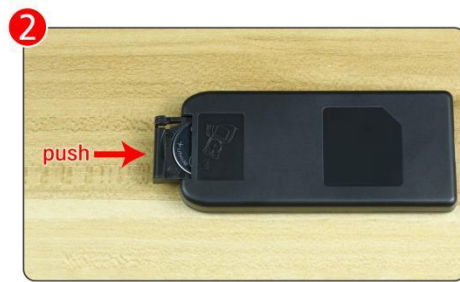
New remote control:

NEW REMOTE CONTROL FUNCTION INTRODUCTION	
ON:	All branches are fully open
OFF:	All branches are closed
A:	Open/close A branch
B:	Open/close B branch
C:	Open/close C branch
D:	Open/close D branch
FS:	Turn on blinking for the last open channel
BLN:	Start breathing for the last opened path
↑	Increase blinking/breathing rate
↓	Reduce flicker/breathing rate
☀+	Increase brightness
☀-	Reduce brightness

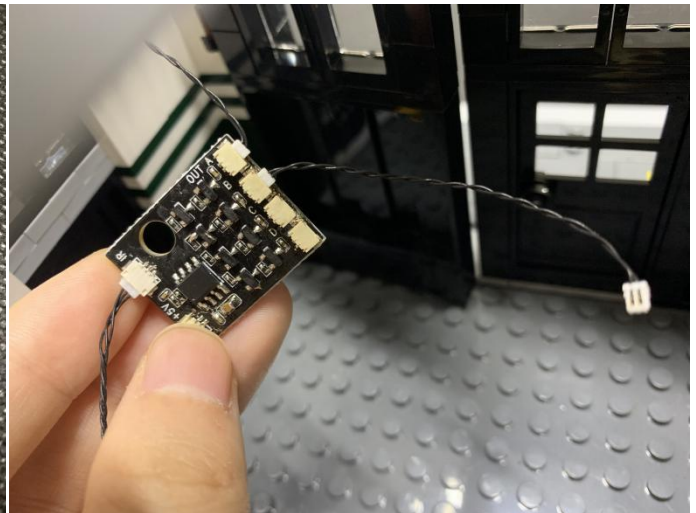
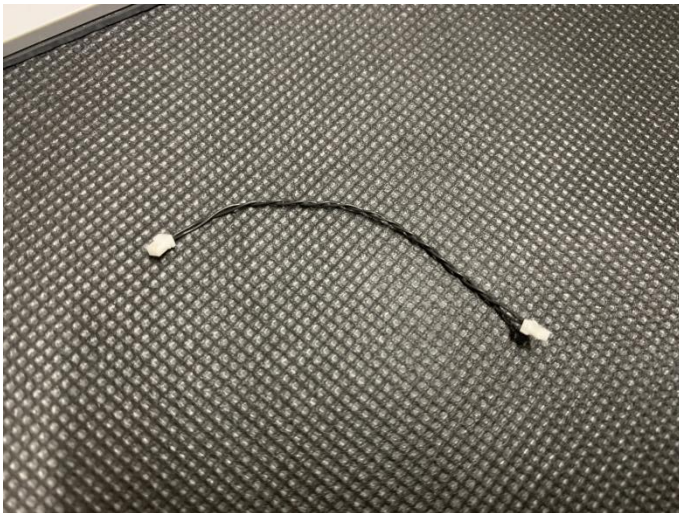
- ① Cancel the external signal receiver and change to an integrated design with strong signal and fast feedback.
- ② Add more functions, such as adding buttons such as breathing flashing frequency
- ③ The old A.B.C.D or 1.2.3.4 route corresponds to the new A.B.C.D route

More fun features look forward to your exploration!

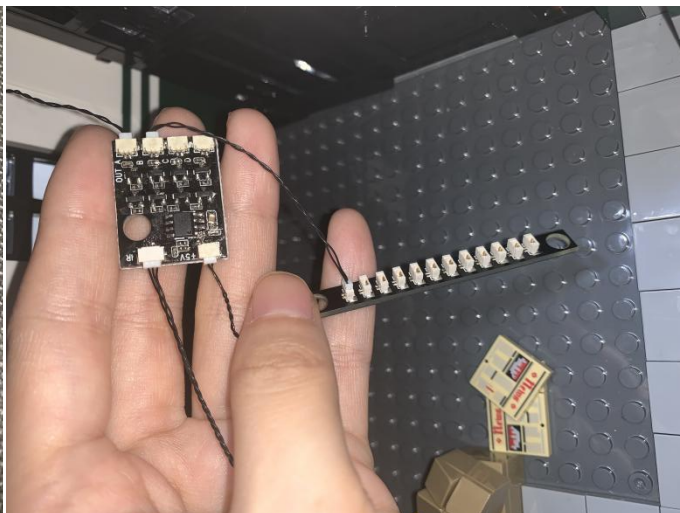
The remote control does not contain batteries, please buy a CR2025 or CR2032 button battery in the nearest store and install it in the remote control.



17. Take a 15cm connecting cable, connect it to the next output port on the board



18. Take a 12-port expansion board, connect a 5cm connecting cable to it. Take 4 adhesive squares, stick 2 squares to the back of the traffic lights board, stick the rest 2 squares to the back of the expansion board. Stick the traffic light board to the following place



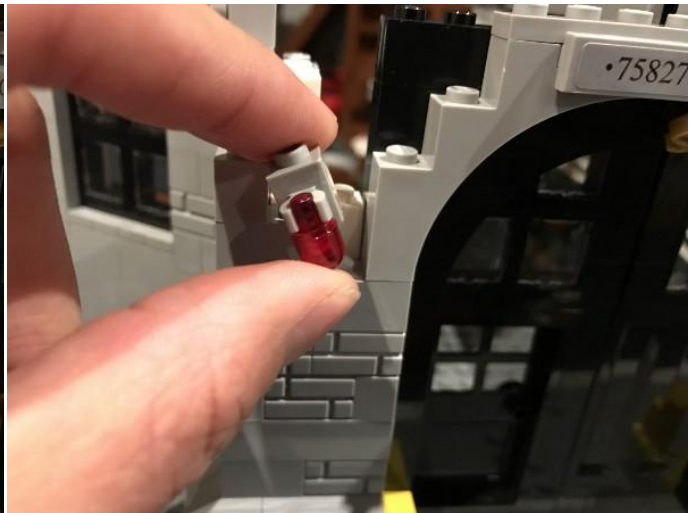
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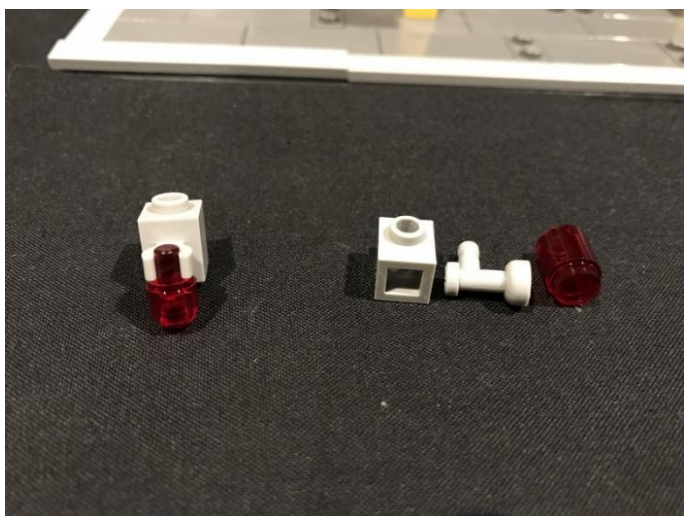
20. We will now move onto installing lights to the front of the building. Start by disconnecting pieces surrounding the red lights. Then remove the grey 1x1 brick with red light attached.



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22. We will be replacing this section of pieces with the following pieces which came in this kit (3 pieces on the right) 2x trans red 1x1 round brick, 2x light grey 1x1 modified brick with stud on one side, 2x light grey "tap".

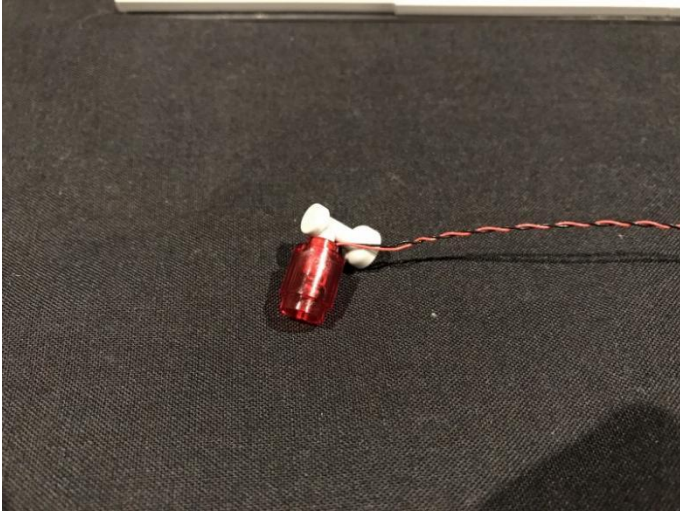


23. Before we reconnect these pieces, we will install flashing lights to them.

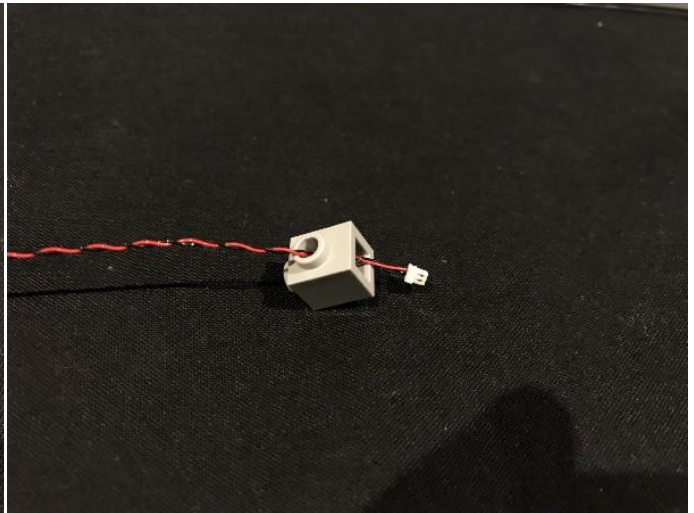
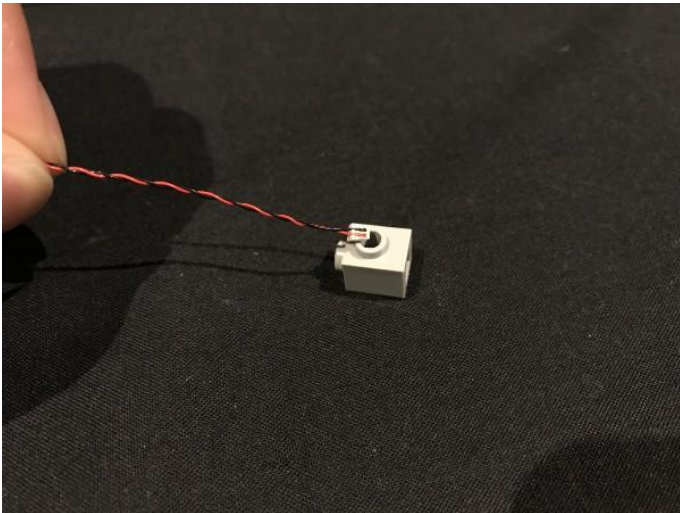
Take one flashing red Dot Light and thread the connector end through the larger hole (base) of the trans red round brick. Pull it all the way through until the LED component is all the way inside the brick.



24. Take the light grey “tap” piece and then connect the tap end into the small hole of the trans red brick. Take extra care while doing this as this will push the LED slightly down as it connects.

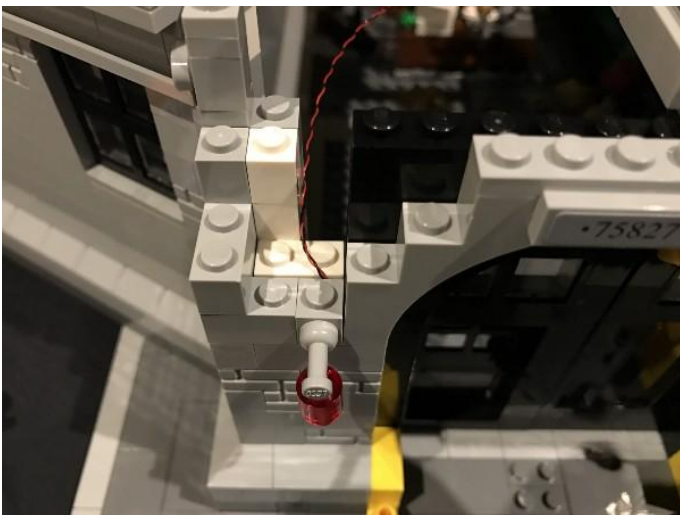


25. Thread the connector end through the front hole of the light grey brick and then out through the base. Pull this all the way through until you can connect the grey tap piece to the grey brick.

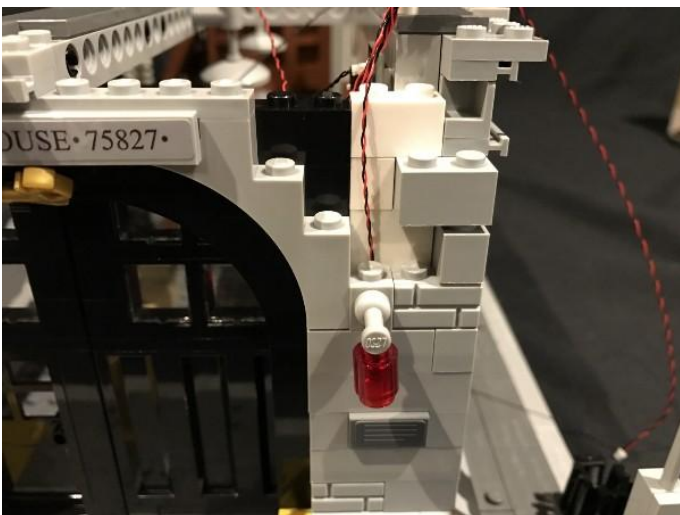




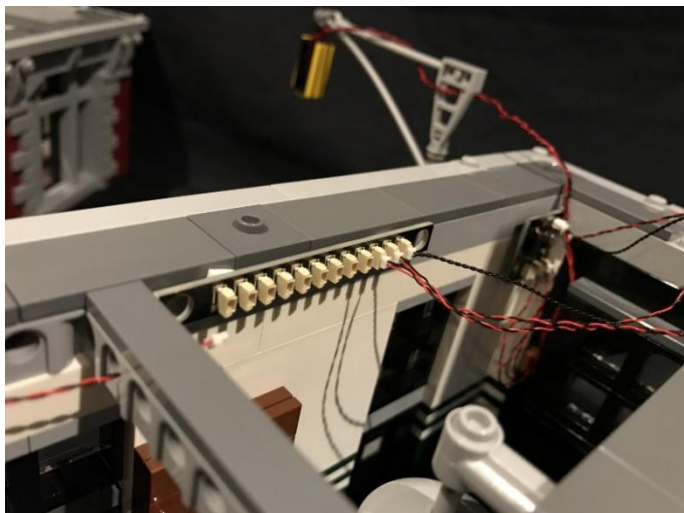
27. Connect this new red light piece to the wall then reconnect the surrounding pieces of the wall we removed earlier ensuring the cable is laid in between studs.



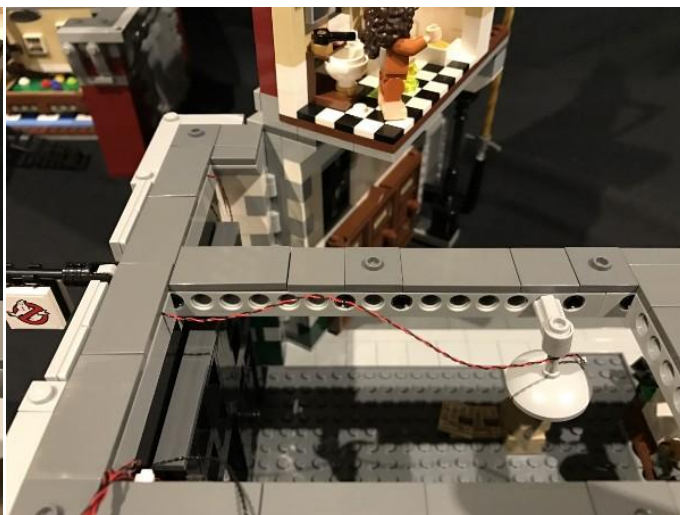
28. Repeat this step for the red light on the right side.

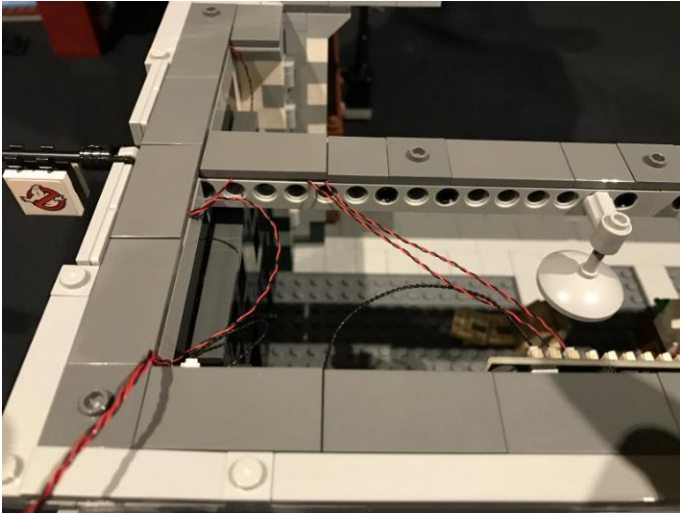


29. Connect the 2 cables from the lights we just installed to the 12-port expansion board. We can now also mount the expansion board to the inside of the building towards the centre beam as shown below. Ensure the expansion board is mounted as close as possible to the beam.

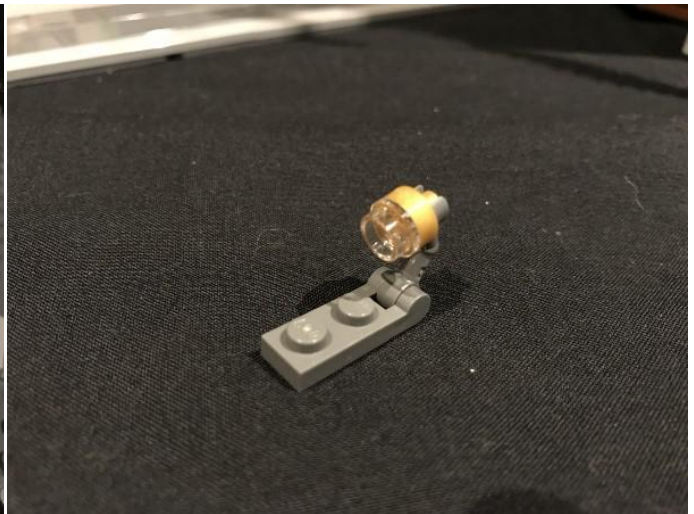


30. Do your best to hide the excess cables underneath the grey plates on the top.



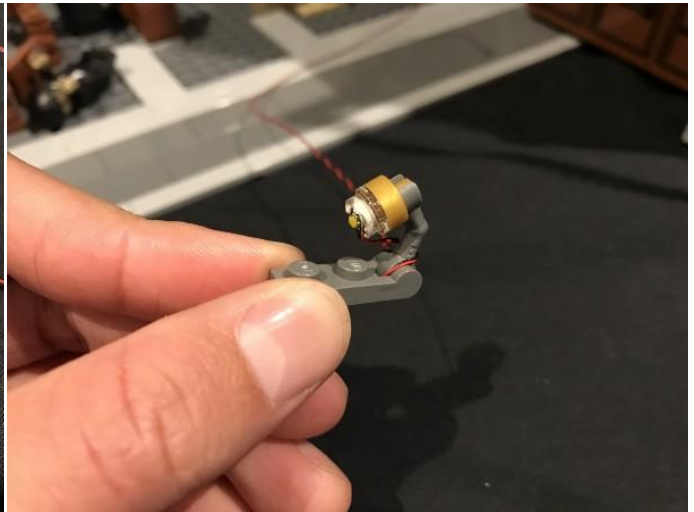
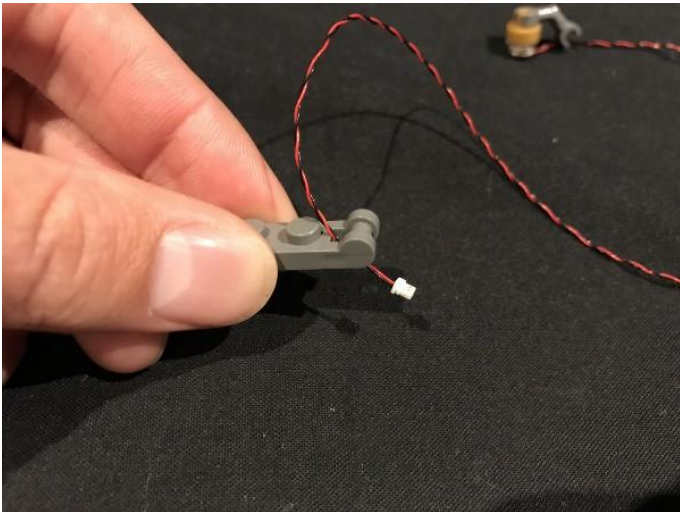


32. We will now light up the desk lamp where Janine is sitting. Disconnect this piece and then take one Dot Light and stick to the inside of the lamp using an adhesive square. The adhesive square should be able to squeeze into the round plate.





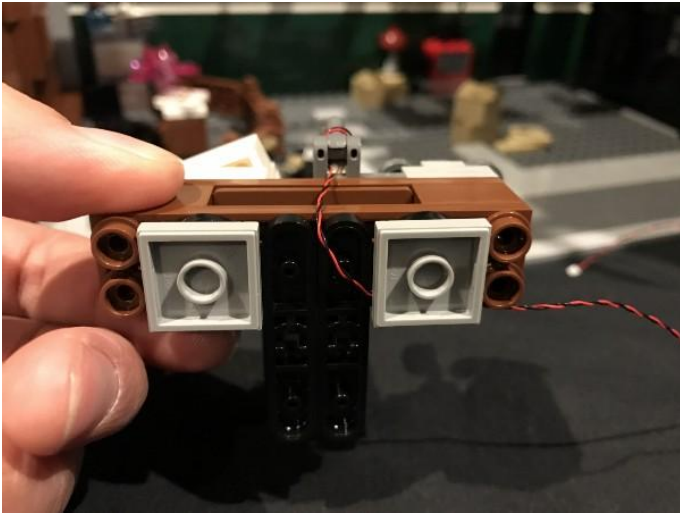
34. Thread the connector end of the Dot Light cable through hole of the grey base before reconnecting the lamp to it.



35. Reconnect the lamp with Dot Light installed to Janine's desk.



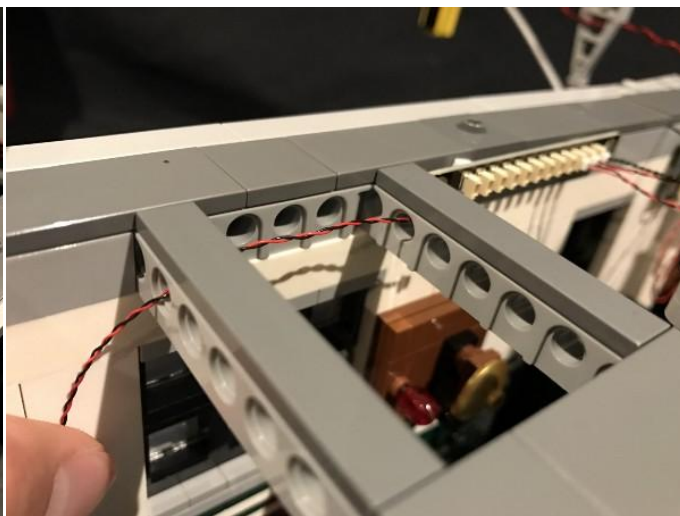
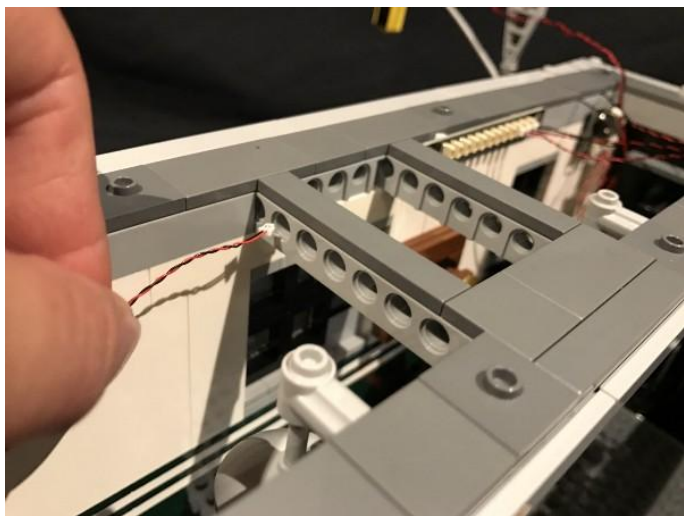
36. Secure the cable underneath the desk and toward the right underneath one of the grey tiles. Reconnect Janine's desk ensuring the cable is facing toward the back wall.



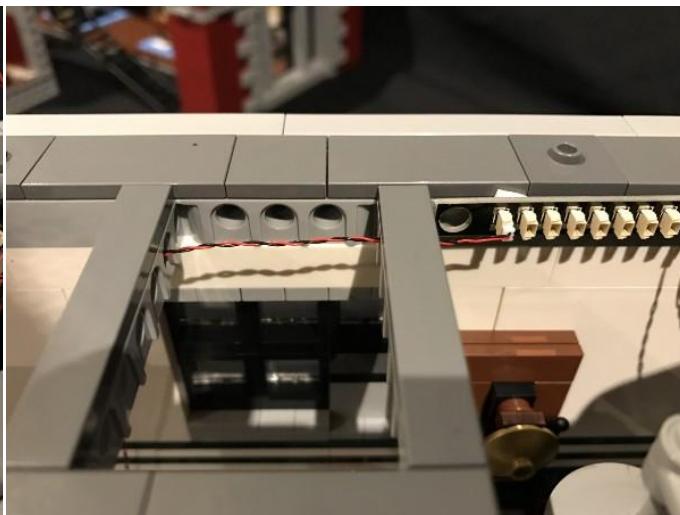
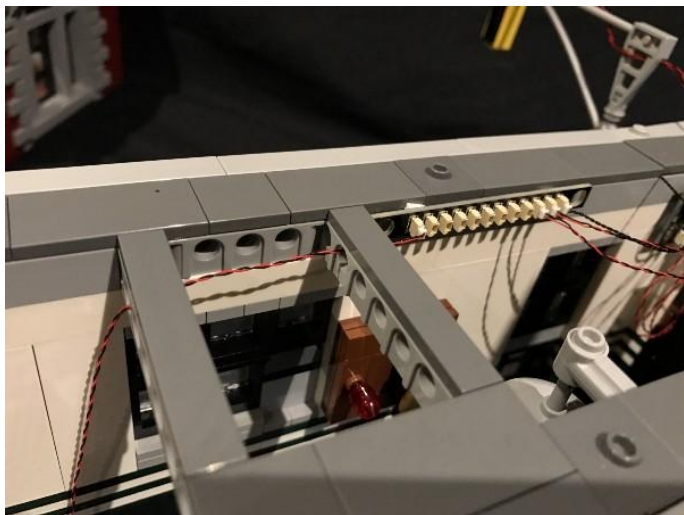
37. Lay the cable from the desk lamp across the floor towards the wall (in between studs). You can secure the cable down using one of the "boxes".



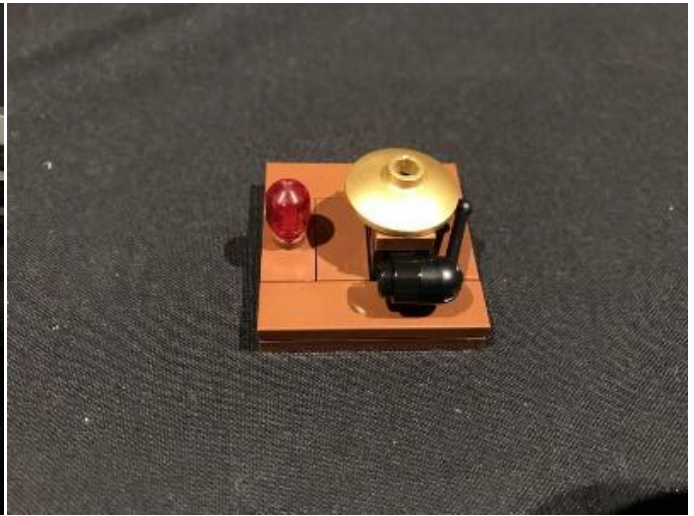
38. Pull the cable up and then thread the cable through the holes in the beams. Then connect it to the first port you can reach on the expansion board (You should have just enough cable length to do this).



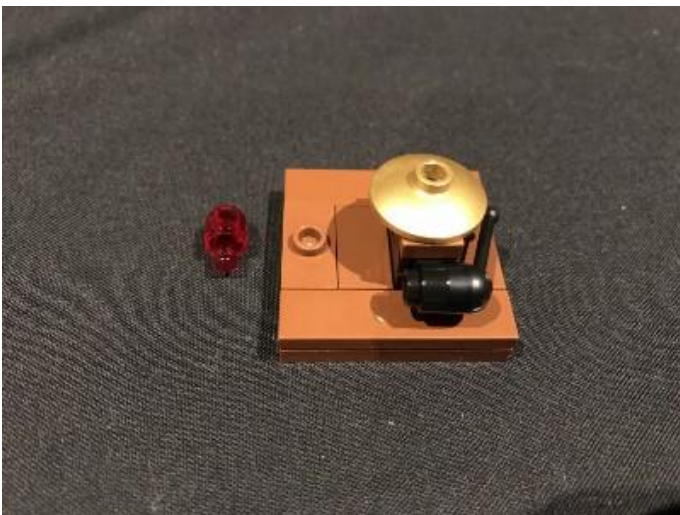
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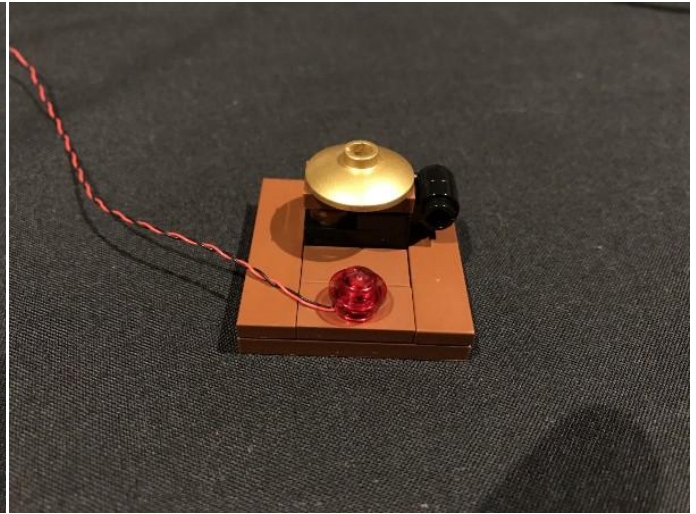
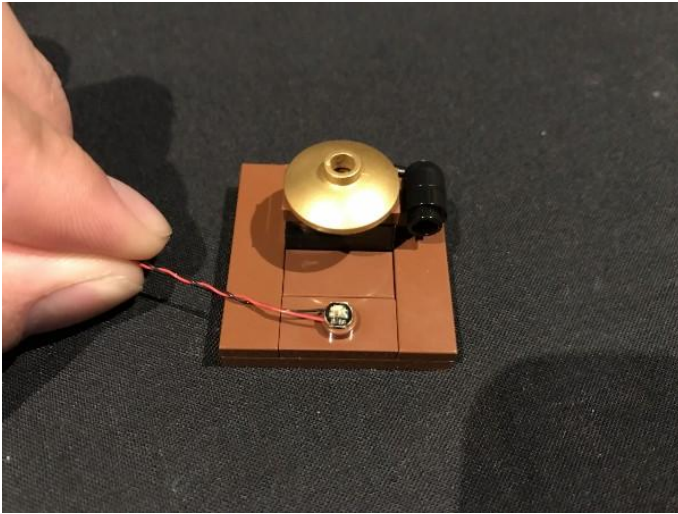
40. We will now install a flashing light to the alarm. First disconnect this section and remove the red light piece.



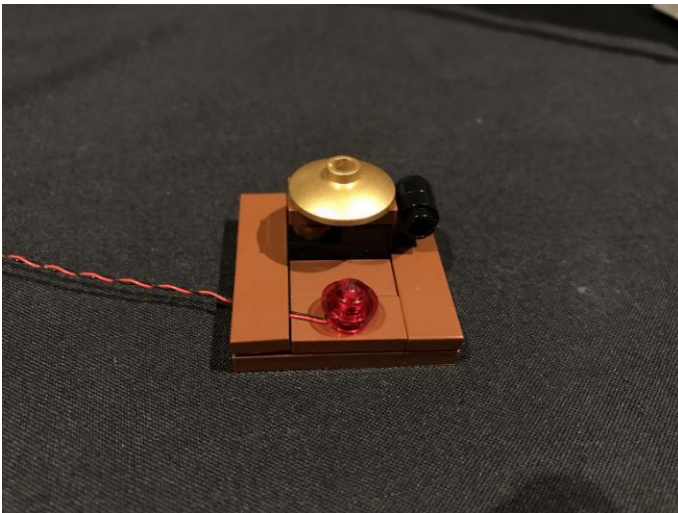
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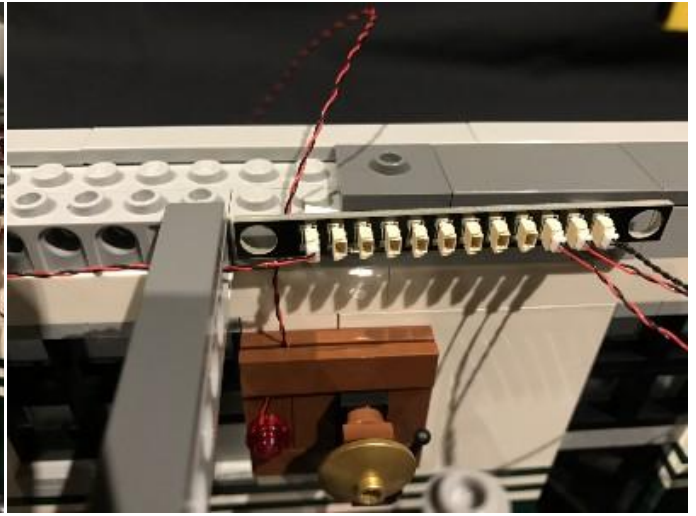
42. Take another red flashing Dot Light and place it on top of the brown stud with the LED component facing up. Secure this by connecting one of the provided trans red round plates directly over the top.



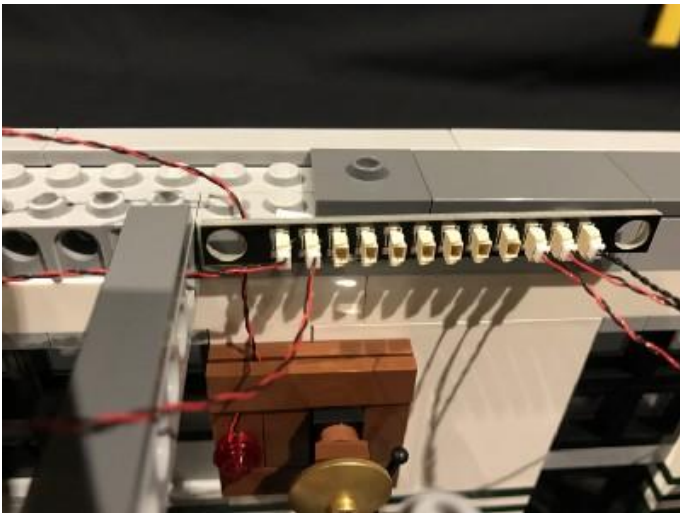
43. Hide the cable underneath the brown tile.



44.Reconnect this section back to the wall and then thread the cable behind the expansion board before then connecting it to one of the spare ports.



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46. You can hide the excess cable underneath the grey tiles in between studs as shown below.



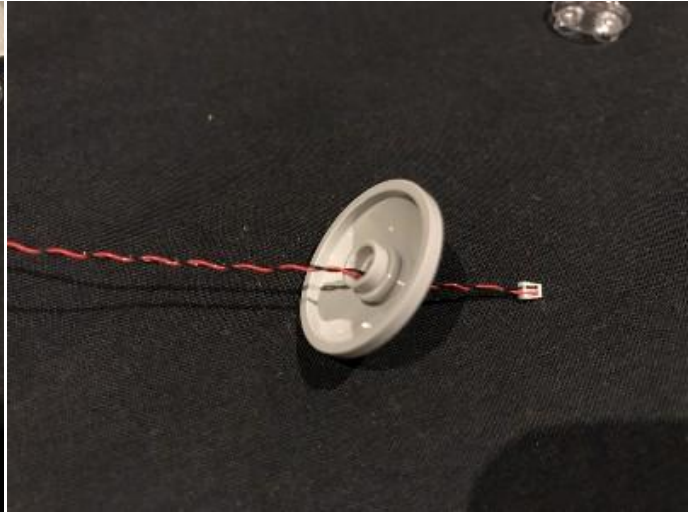
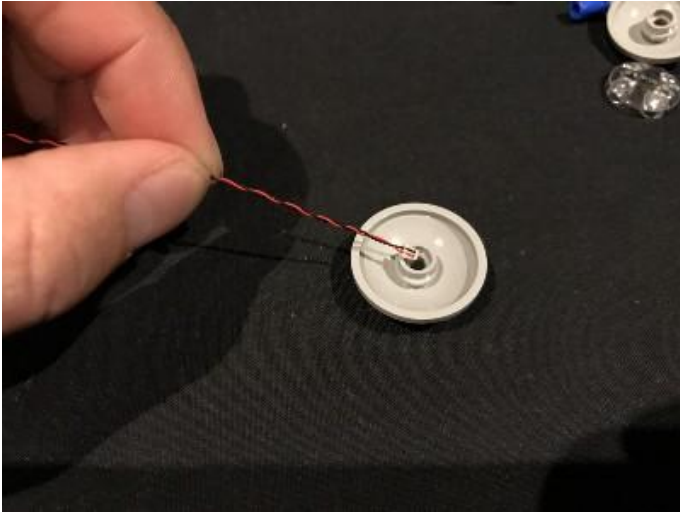
47. We will now install Dot Lights to the 2 ceiling lights. Start by disconnecting them and then disassemble them as pictured below



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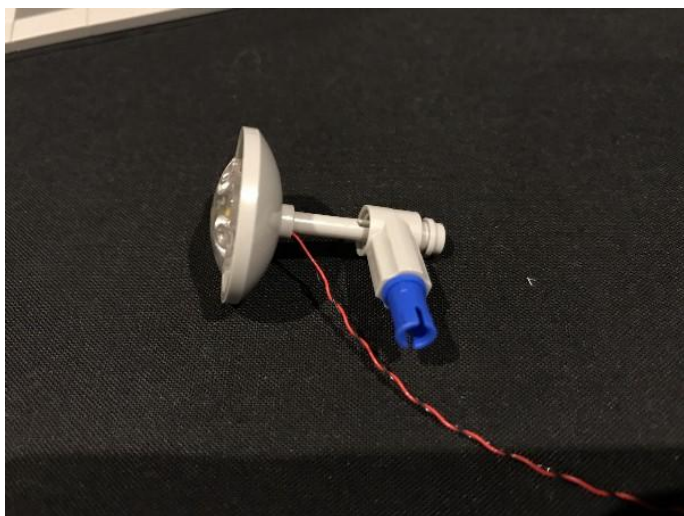
49. Take one Dot Light and thread the connector end through the front of the dish and then out the back. Thread this all the way through until the LED component is all way the against the dish and then secure it in place by connecting the trans 2x2 round plate directly over the top



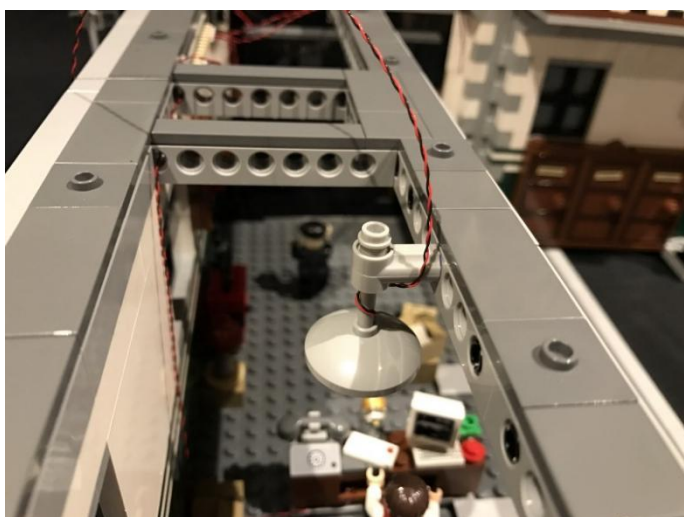
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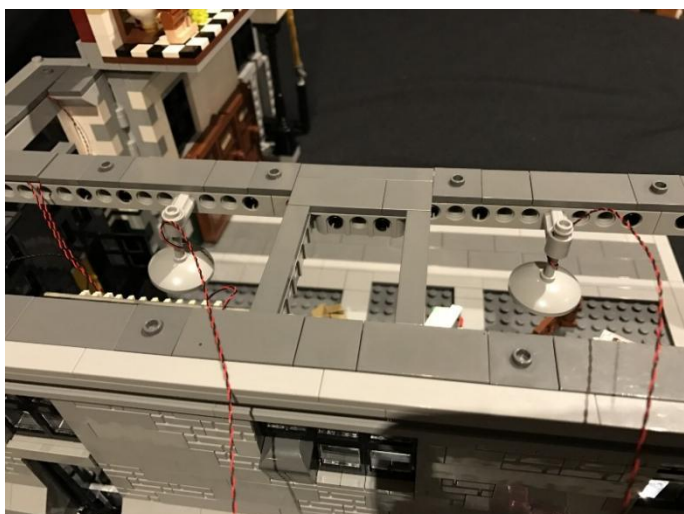
51.Reconnect the light back onto the pole and then wind the cable around so that the cable isn't too exposed.



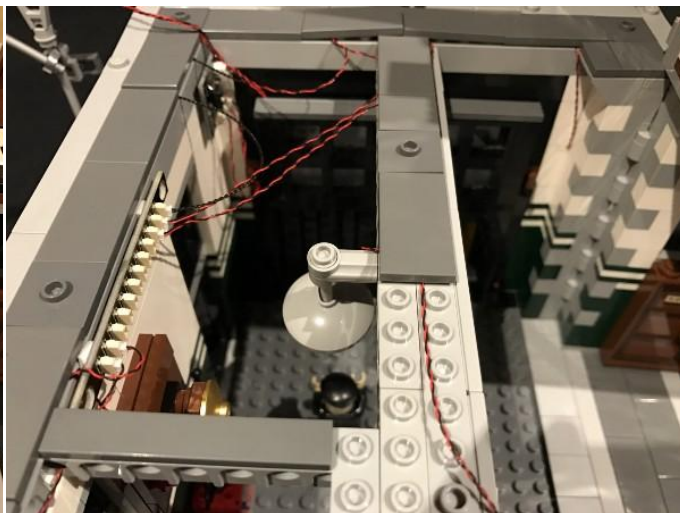
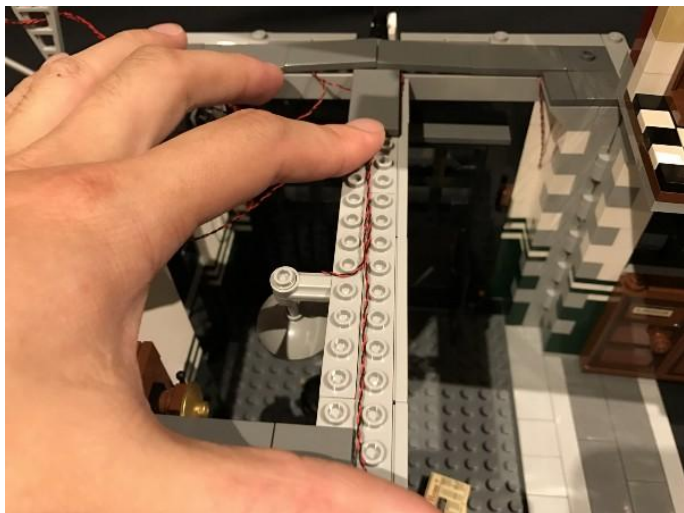
52.Reconnecting the entire section back to the ceiling beam.



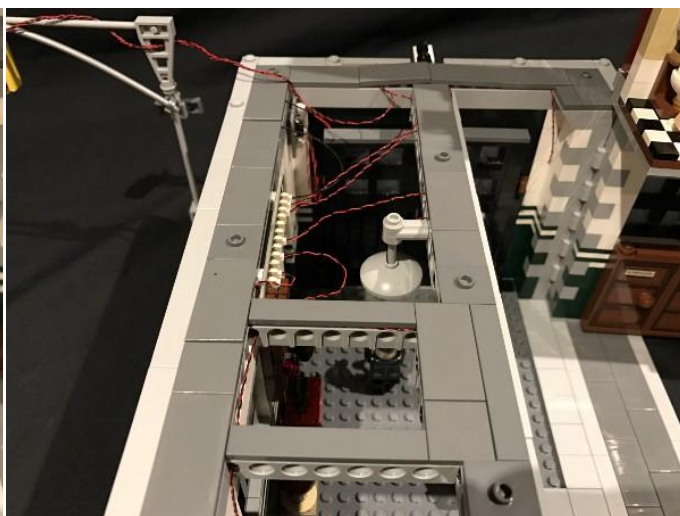
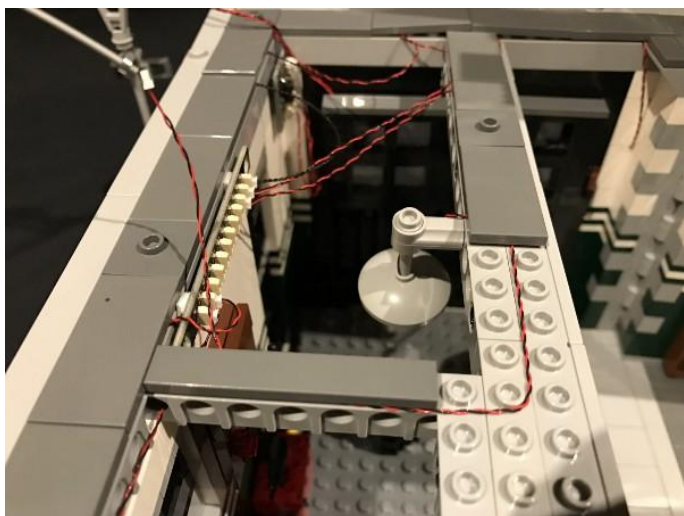
53.Repeat this same process for the other ceiling light.



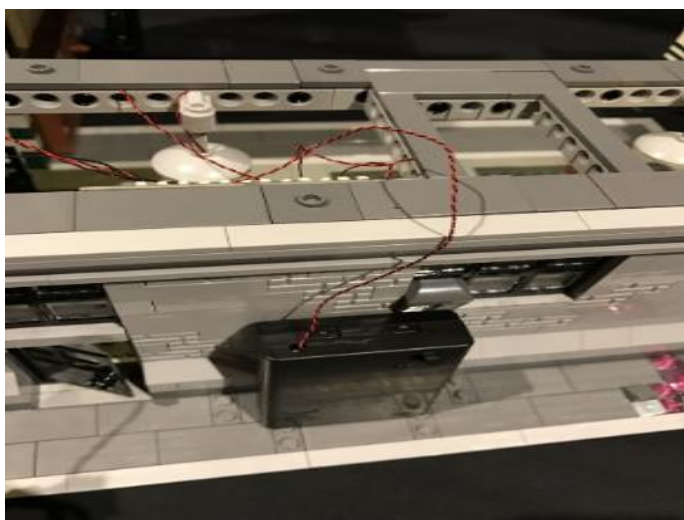
54. Do your best to hide as much excess cable from the 2 lights underneath the dark grey tiles on top of the ceiling beam. Ensure all hidden cables are laying neatly between bricks, then connect the 2 light cables into the spare ports of the expansion board.



55



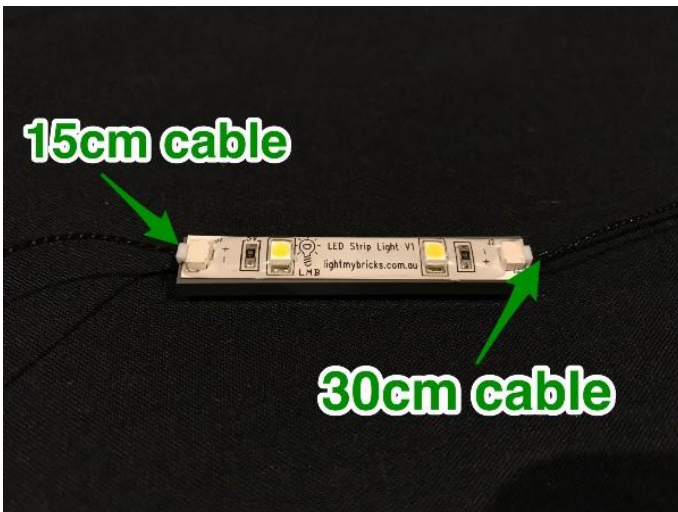
56. It is now a good time to test our current light circuit. To do this, take the battery pack and connect the battery pack cable into one of the spare ports of the expansion board and then turn on to test all is working OK.



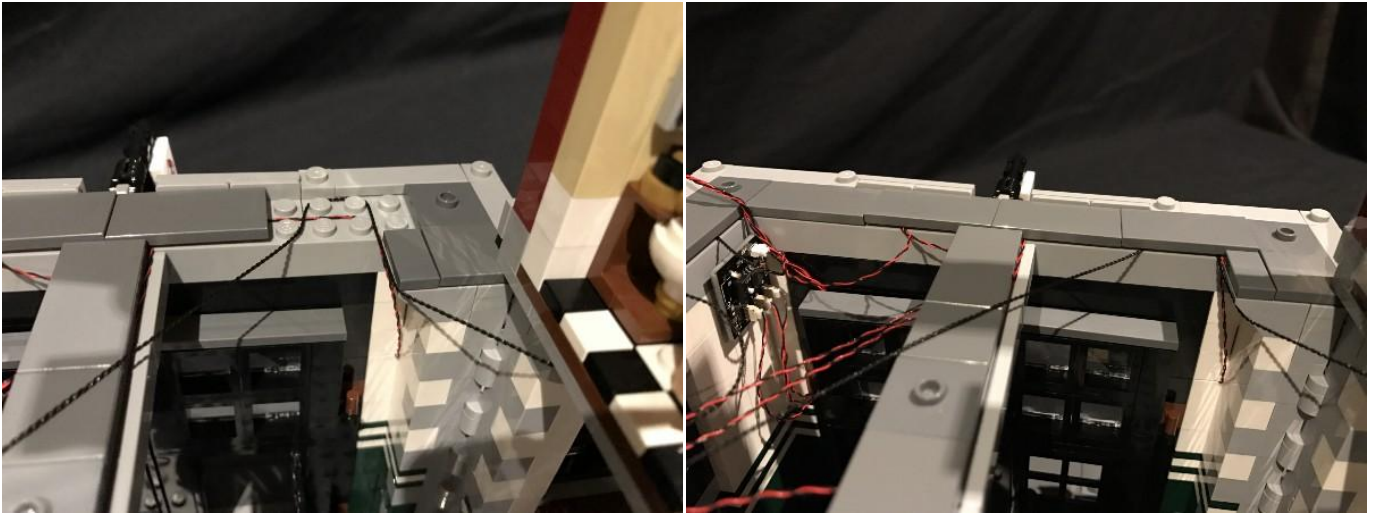
57



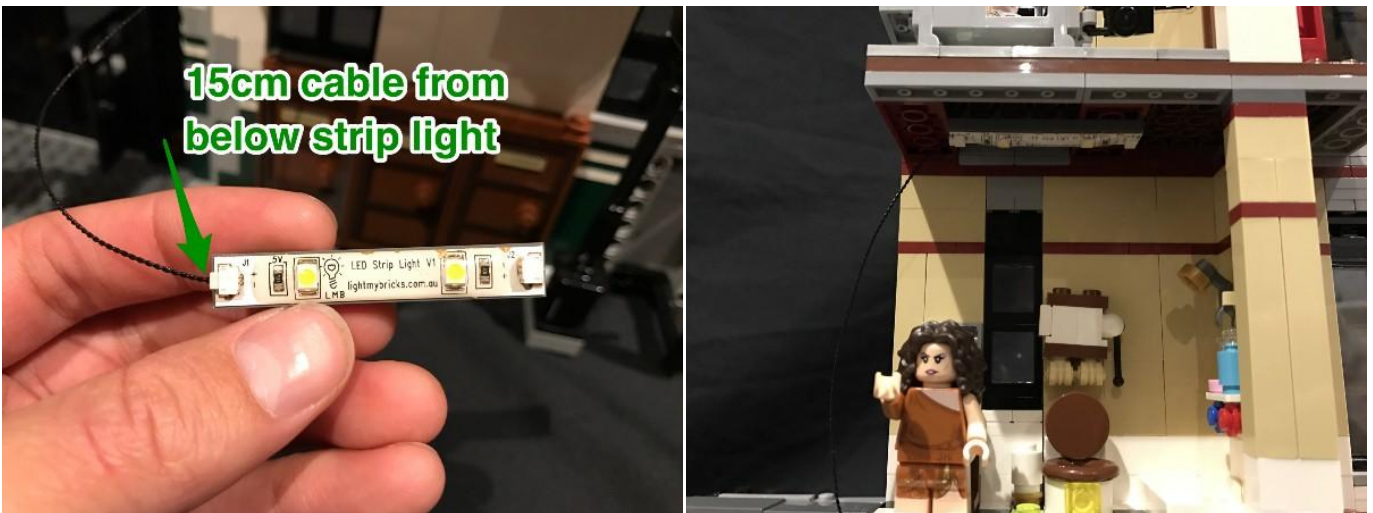
58. We will now install some strip lights to the right side of the building starting from the section where the lockers are. Take one LED strip light and connect a 15 cm connecting cable to the left port and a 30 cm connecting cable into the right port. Connect/Stick this strip light underneath the base of the 2nd floor in the following position ensuring the 15cm cable is on the left and the 30cm cable is on the right. Connect the other end of the 30cm cable to the expansion board. To neaten the 30 cm cable, you can lay this underneath the strip light before connecting over it.



59. Hide the excess from the 30 cm cable by laying parts of the cable underneath the dark grey tiles as pictured below. Ensure you leave enough cable for this section to open the whole way.



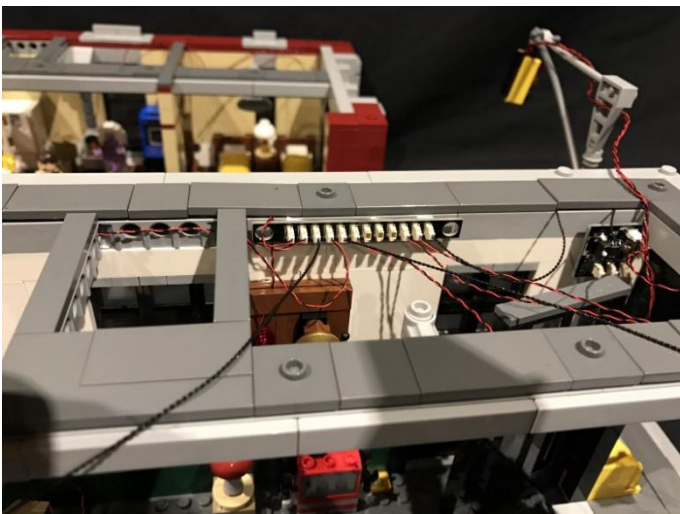
60. Take another strip light and connect the other end of the 15 cm cable from the below strip light into the left port and then connect/stick this strip light underneath the base of the 3rd level (above the bathroom) as picture below.



61.To secure the cable from being too obvious, use some tape to stick the cable to the side of the wall.



62.We now need to install another 3 strip lights to the left section of this building. Take another 30cm connecting cable and connect it to a spare port on the expansion board.



63. Take another strip light and then connect the other end of the 30cm cable into the right port and then take a 15cm cable and connect it to the left port. Connect/stick the strip light onto the bottom of the second floor in the below position.



64. Secure the excess cable from the 30cm cable underneath tiles as shown below. Ensure you leave enough cable to open and close this section of the building.



65. Take another strip light and then connect the other end of the 15cm cable from below strip light to the left port. Take another 15cm cable and connect it to the right port and then connect/stick it underneath the base of the 3rd floor in the below position



66. Hide and secure cables underneath the following tiles as shown below.



67



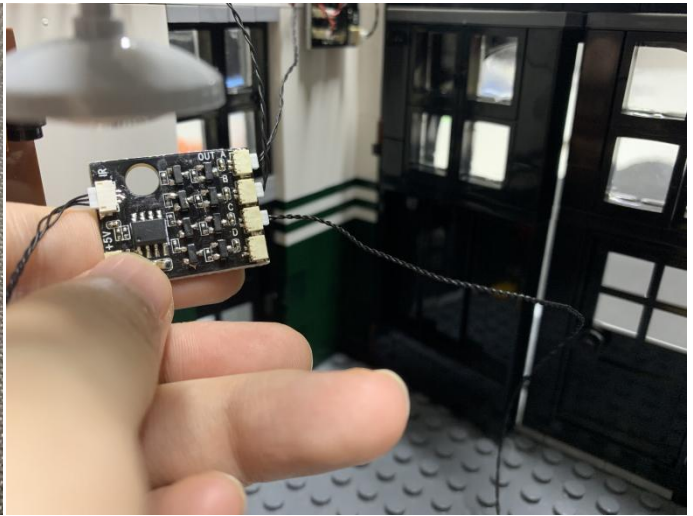
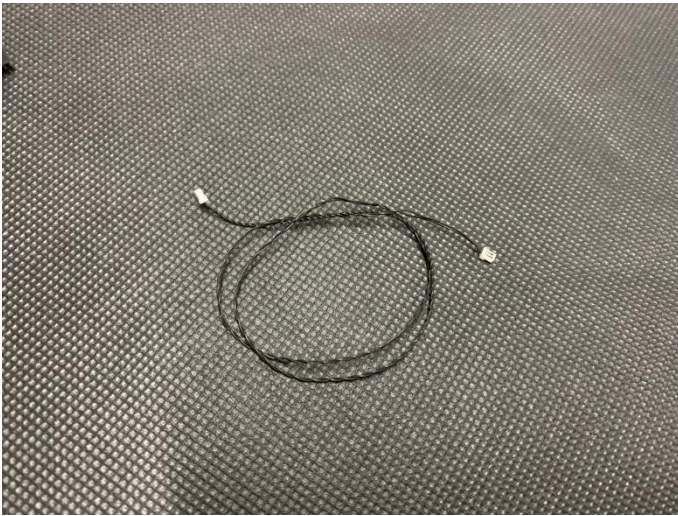
68. Take another strip light and then connect the 15cm cable from the strip light underneath to the right port, then stick/connect this strip light underneath the roof in the below position.



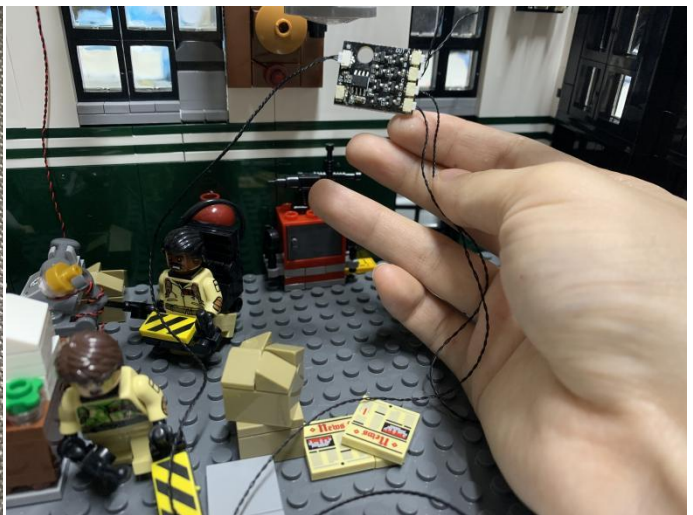
69. You can use sticky tape to secure cables, like what I have done here.



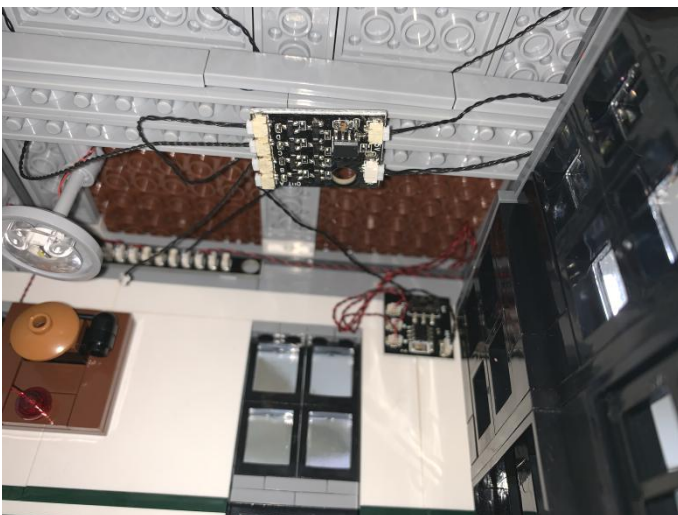
70. move onto installing lights for the second floor. Take a 30cm connecting cable, connect it to the third output port on the switch board.



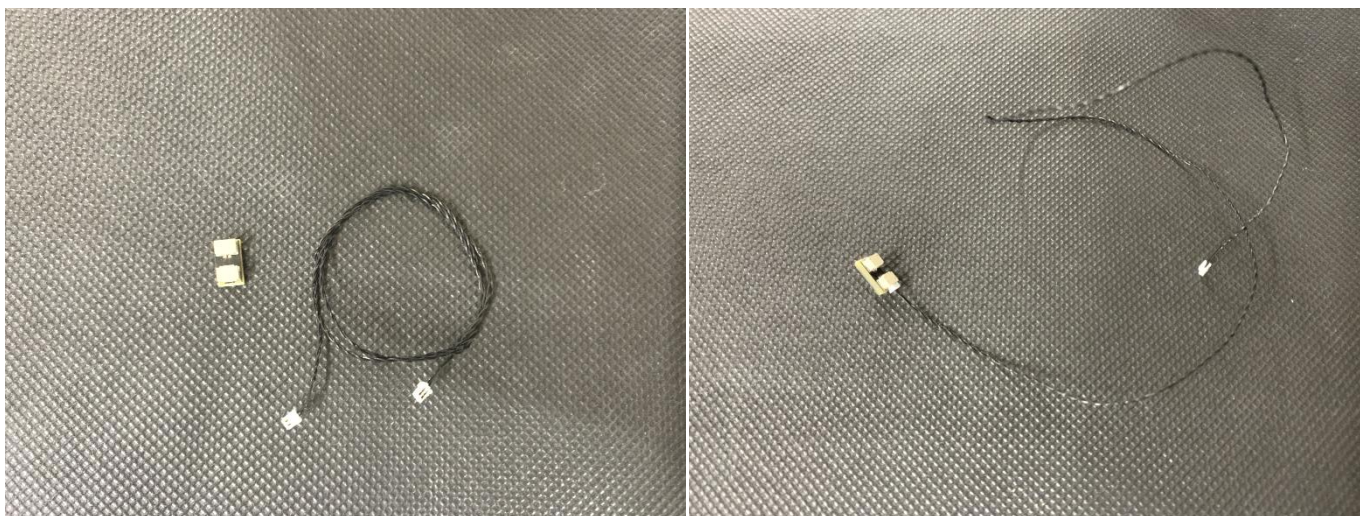
71. Take a 50cm connecting cable, connect it to the next output port.



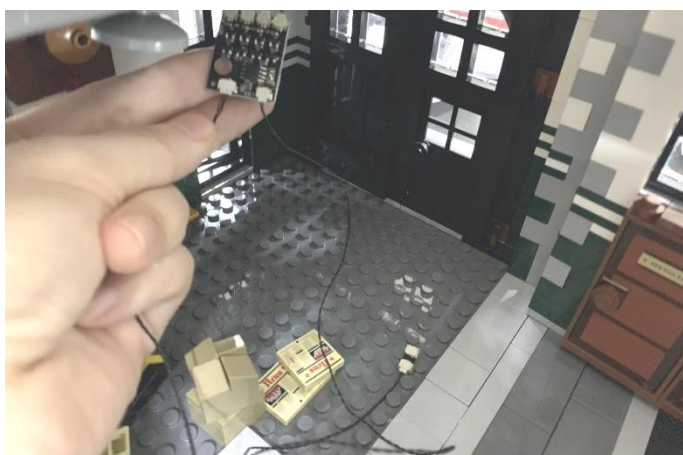
72. Take an adhesive square, stick the switch board to the beam underneath the first floor.



73. Take a 2-port expansion board, a 30cm connecting cable, assemble them as per below.



74. Connect the other end of the 30cm connecting cable to the following port on the switch board.



75. Take the battery pack, connect the 2-port expansion board to it.



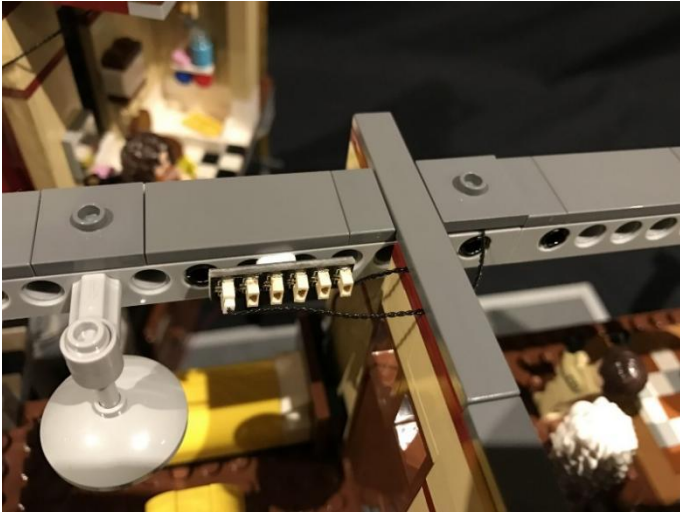
76. Take the remote control, turn the power on to test the current.



77. Reconnect the second floor, place the 30cm connecting cable and the 50cm connecting cable as per below.



78. Connect 30cm cable into the right port of one of the 6-port expansion boards. 50cm cable is temporarily ignored. Mount the board to the inside of the ceiling beam using one of the adhesive squares. Ensure you are mounting it in the following position, then hide the excess cable underneath the dark grey tiles.



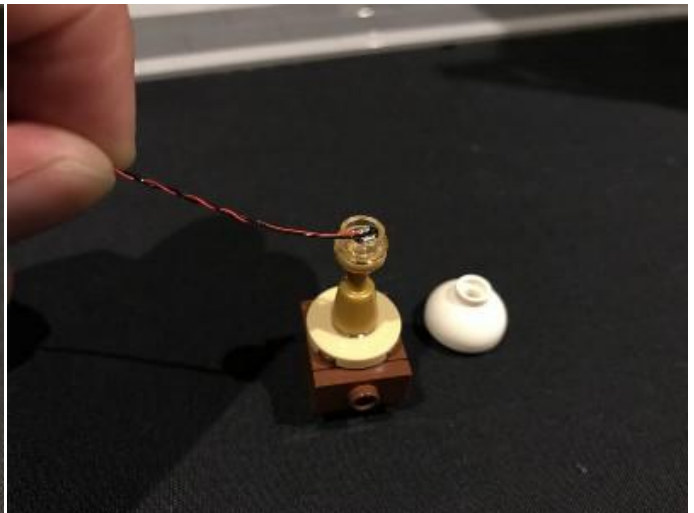
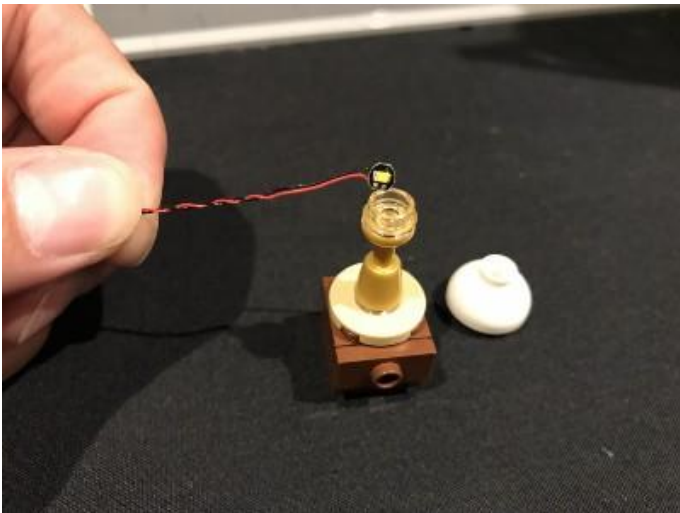
79. We will now install a Dot Light to the bedroom lamp. Start by removing the lamp as well as drawers underneath, then remove the lamp shade.



80



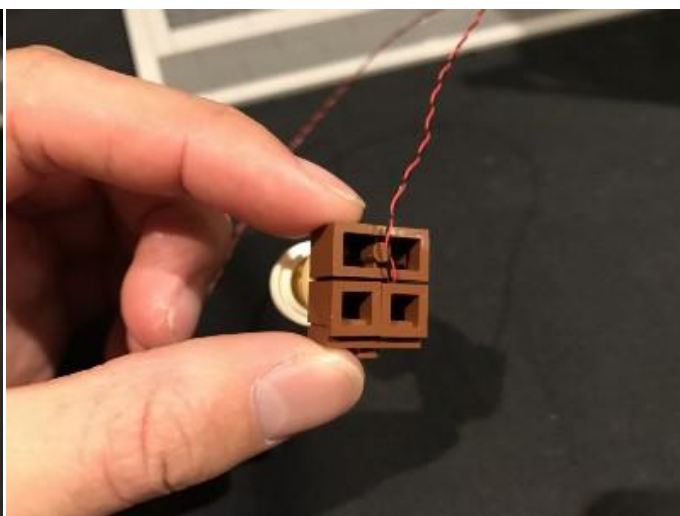
81. Take one Dot Light and with the LED component facing down in the middle of the tan round piece, reconnect the lamp shade piece over the top.



82



83.Hide the cable for the lamp underneath the cream round plate, then in between the brown bricks and then underneath the brown 2x2 plate (in between studs).



84



85.Reconnect this section with Dot Light installed back to original position



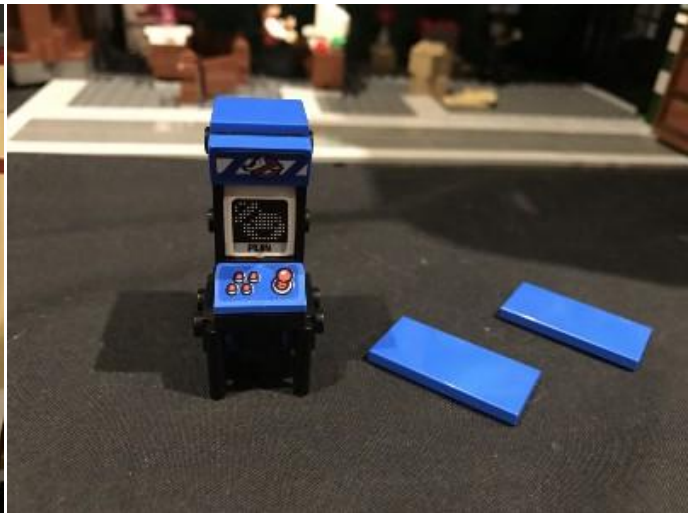
86.We need to hide the cable behind the bed on the right. First remove the bed and then lay the cable across the floor and then up the corner side of the wall. Reconnect the bed and then connect the Dot Light cable to the next available port on the 6-port expansion board. You can hide any excess cable underneath the tiles on the top.



87



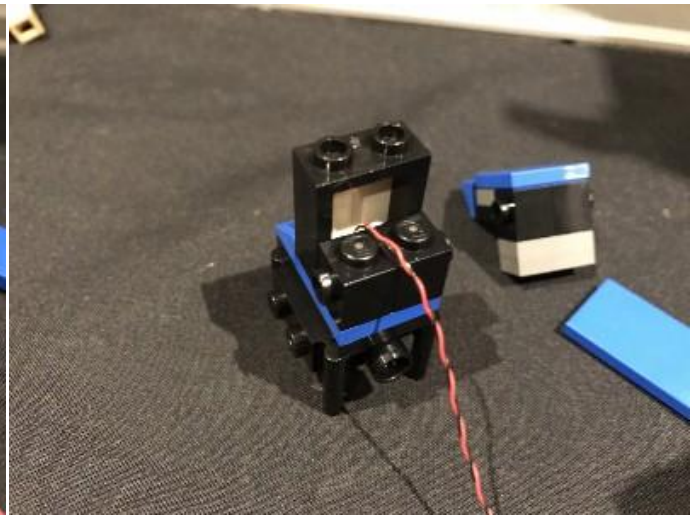
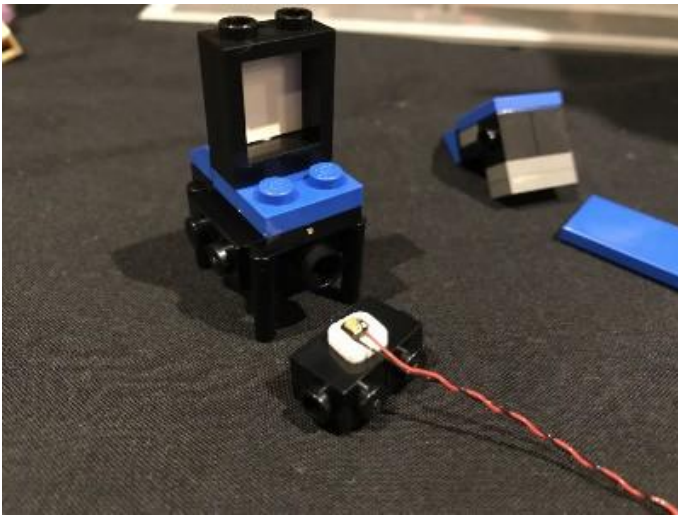
88. We will now install a flashing Dot Light to the video arcade game. Start by removing this section and then disassembling starting with the pieces below. Keep the two black bricks as we will require this for the next step



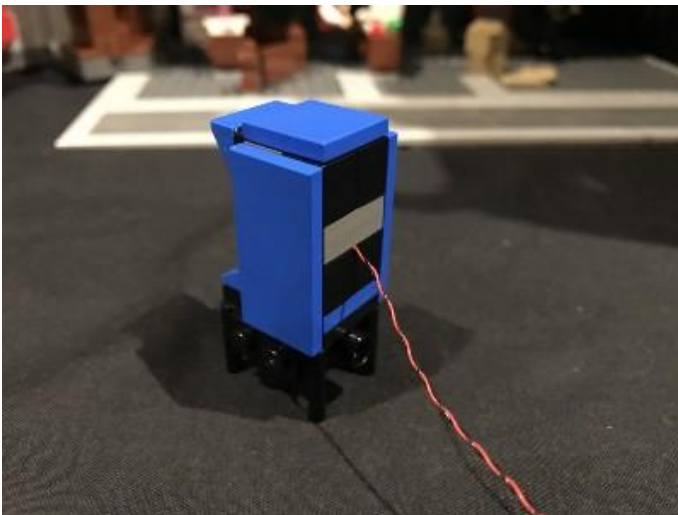
89



90. Take one flashing Dot Light (cool white) and stick it to the back of the two black bricks using an adhesive square (in the middle). Then reconnect these two pieces back so that the Dot Light is facing toward the front of the arcade game. Lay the cable in between the black studs before reconnecting the remaining pieces.



91



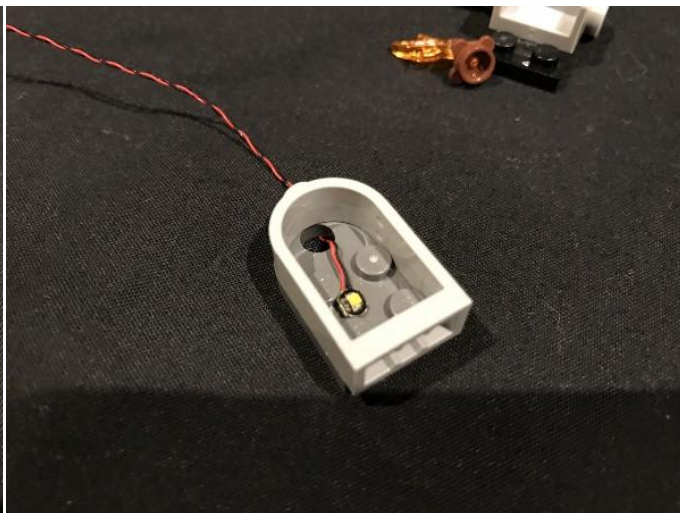
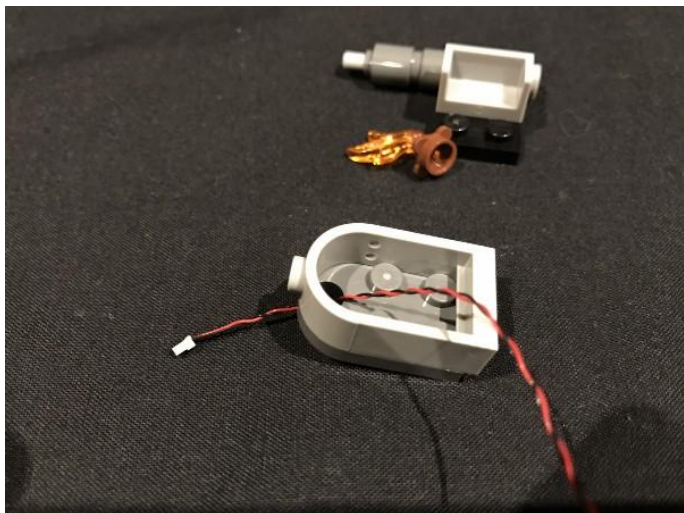
92.Reconnect the video arcade game with flashing light installed.



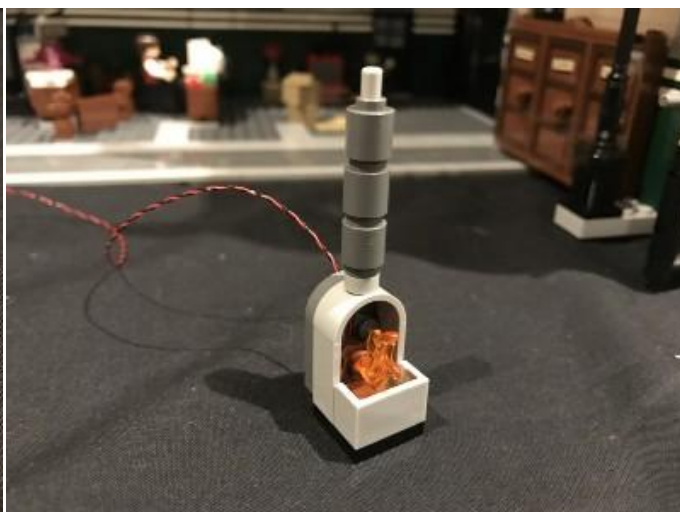
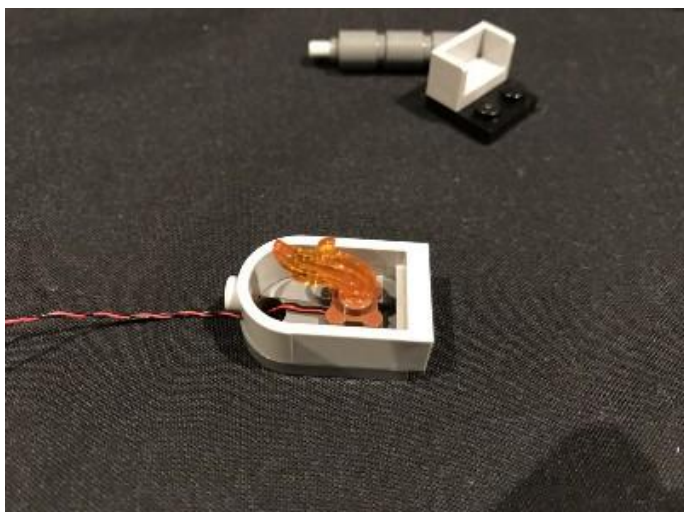
93.We will now install a light to the fire place. Disconnect the fireplace section and the disassemble the following pieces.



94. Take one standard Dot Light and then thread the connector end through the hole of the back of the chimney piece and then pull it all the way through until the Dot Light can be placed in the middle of the 4 grey studs.

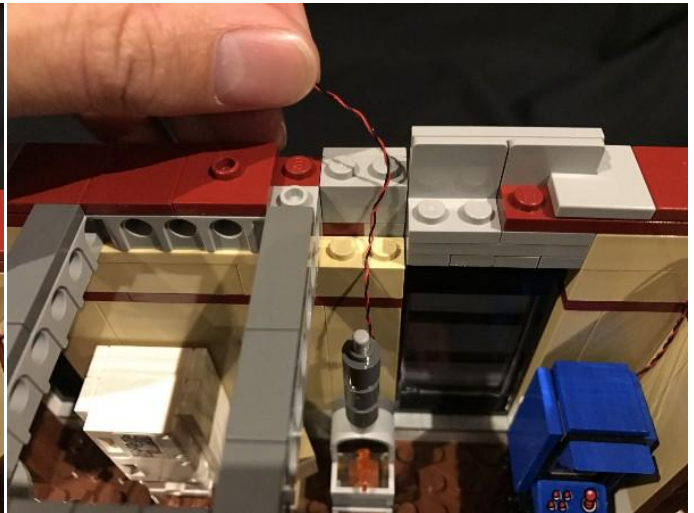
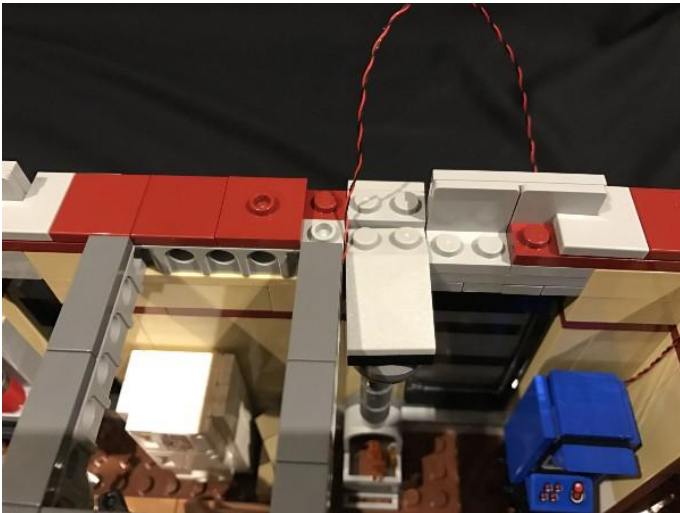


95. Secure the Dot Light in place by reconnecting the fire piece directly over the top, then reconnect the pieces of the fire place. Reconnect the chimney with light installed to original location.

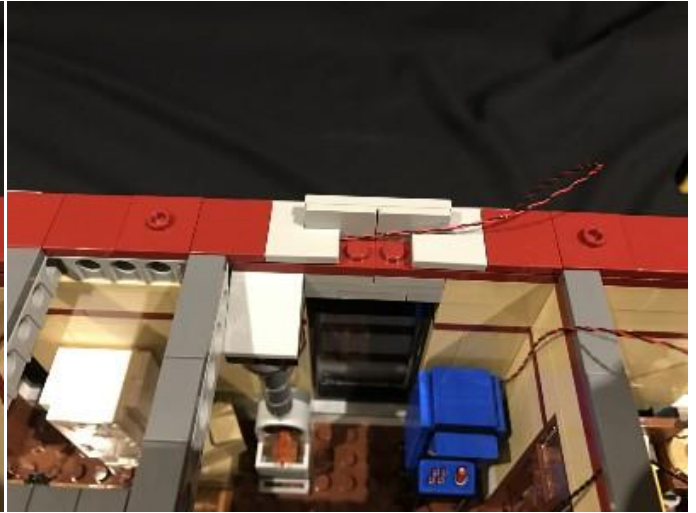
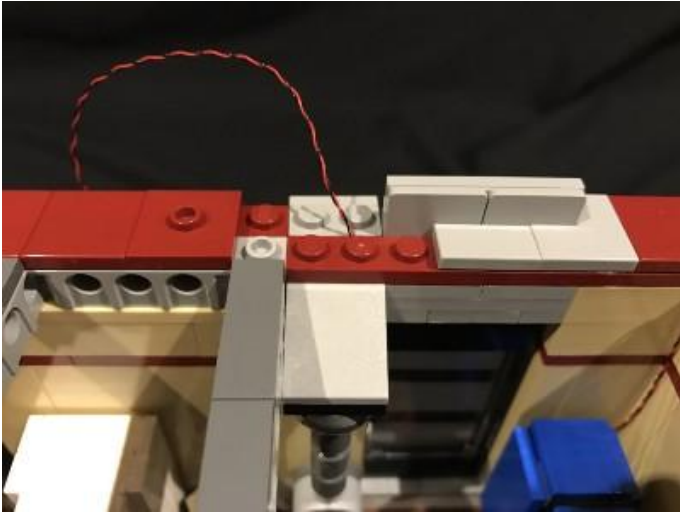




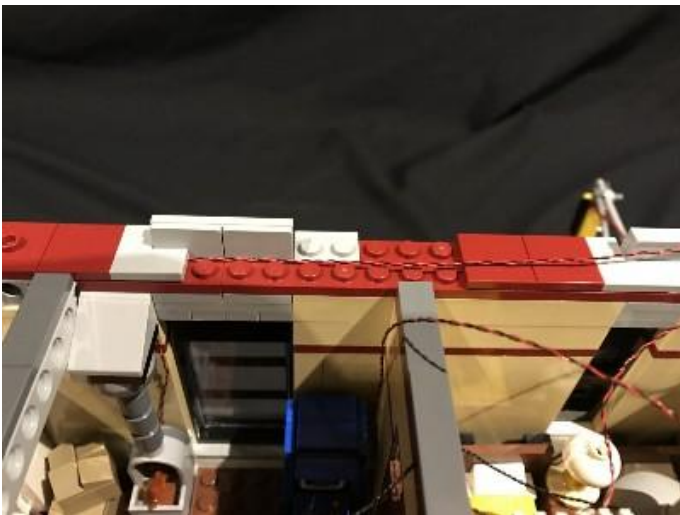
97. Thread the cable from the fire place light up the wall and then lay it behind the grey roof piece in between studs as shown below. Reconnect the grey roof piece over the top of the cable and then thread the rest of the cable across toward the right of the building, laying underneath the tiles above.



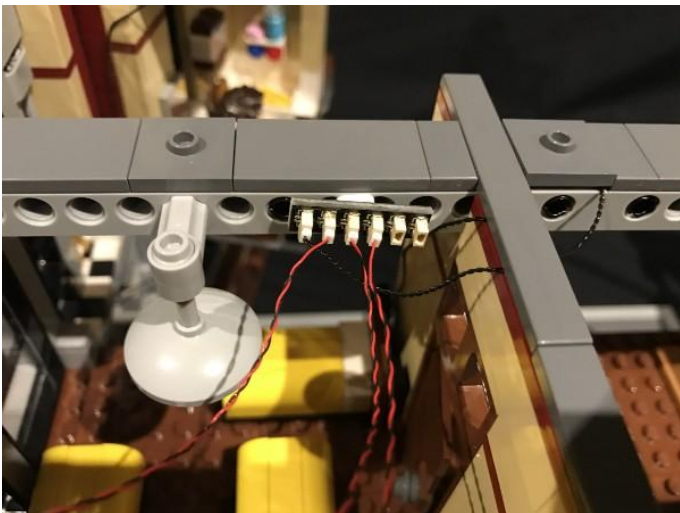
98



99



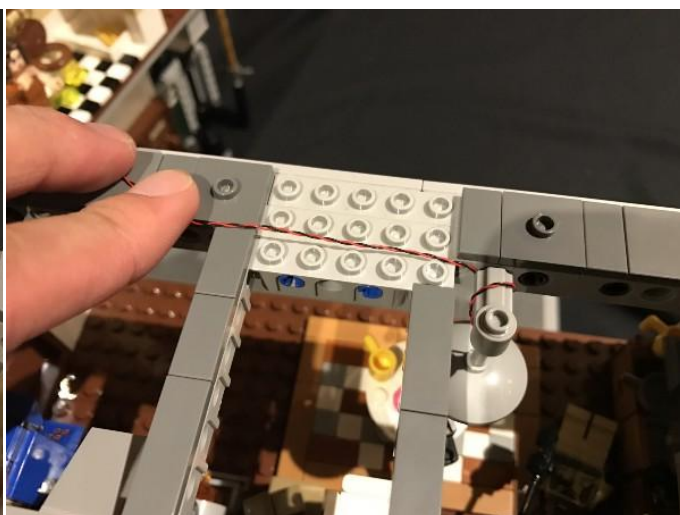
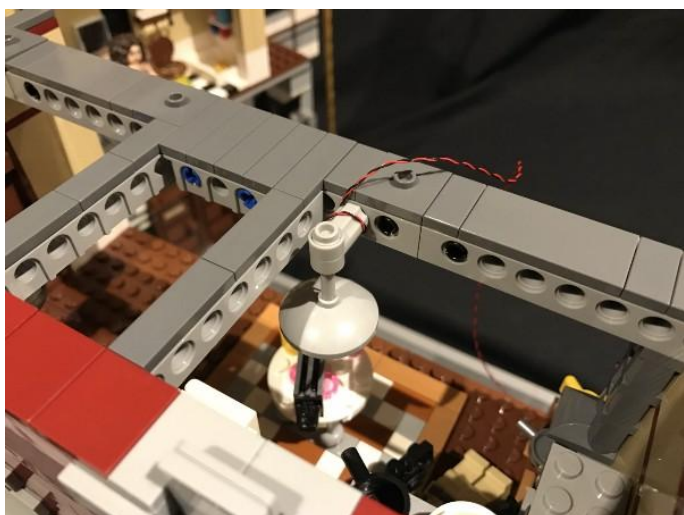
100. Connect the lights from the video arcade game and fire place to the next ports on the 6-port expansion board, then do your best to hide any remaining excess cable underneath tiles.



101. We will now install a Dot Light to the kitchen ceiling light. Disconnect this light piece and then use the same method as we did for the lights on the ground floor to install another Dot Light (see step 14).



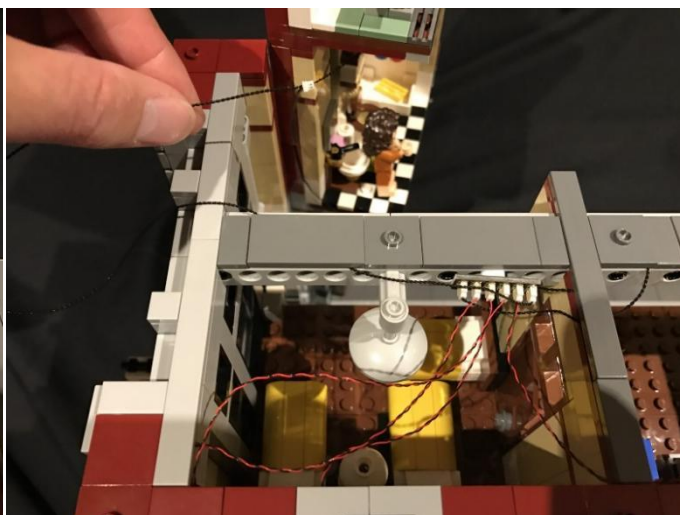
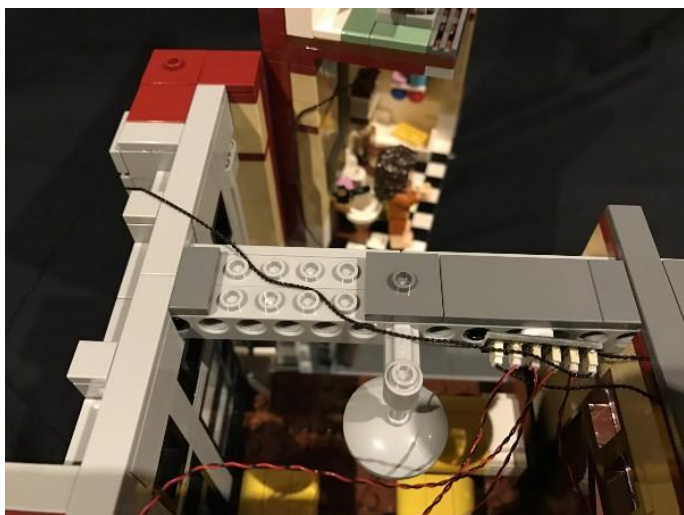
102. Once you have installed another Dot Light to this light piece, reconnect it to the ceiling beam and then lay the cable across the beams toward the expansion board, laying excess cable underneath tiles as shown below. Connect this cable into the next spare port of the expansion board.



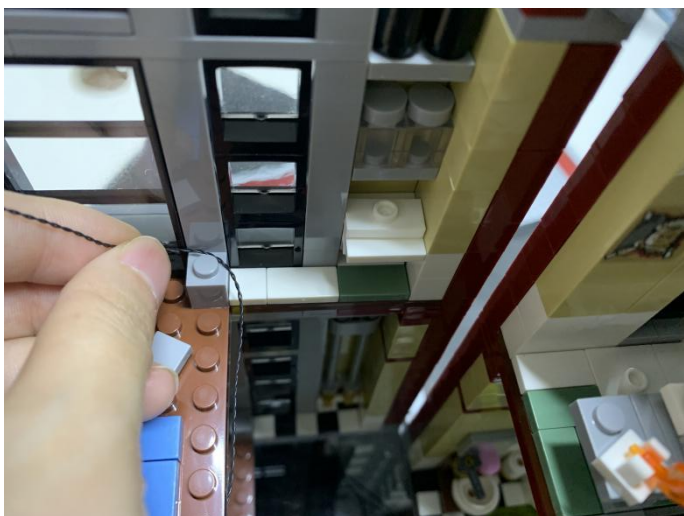
103. Now, connect the 5 cables of the lights from the second floor to the 6-port expansion board.



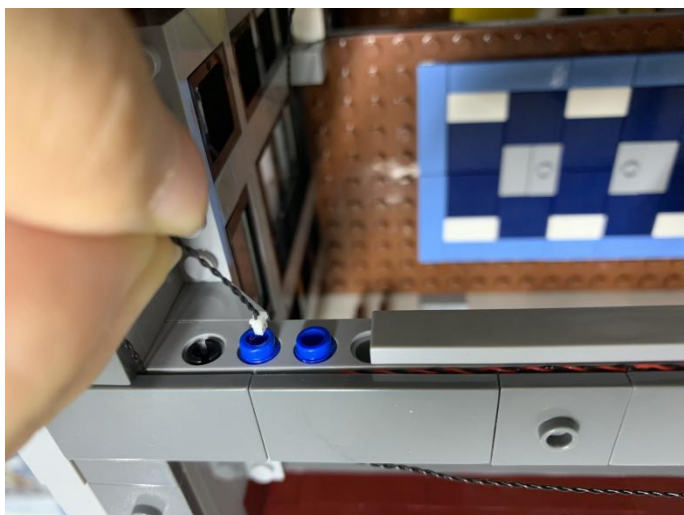
104. place the 50cm connecting cable we threaded to the second floor before, place it under the following plate as per below



105.reconnect the third floor, pull the 50cm connecting cable to the following place, secure it in place by connecting the gray 1x1 plate over.



106.Continue to thread the cable through the blue piece, pull it out from the other side.



107



108. take a 6-port expansion board, connect the 50cm connecting cable to it, place the expansion board inside the beam



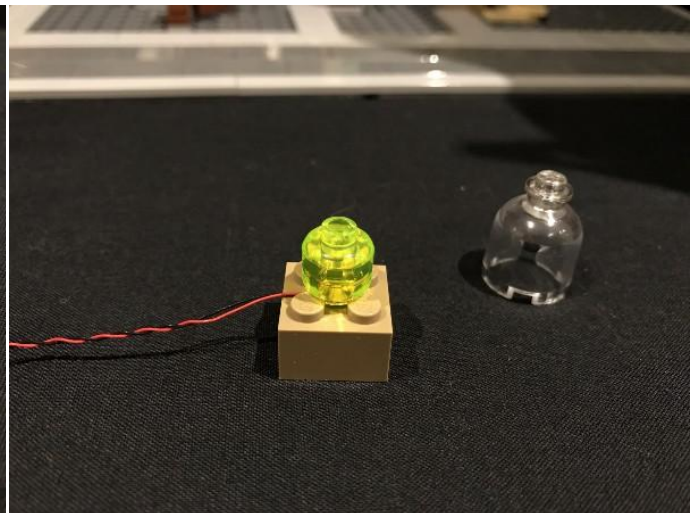
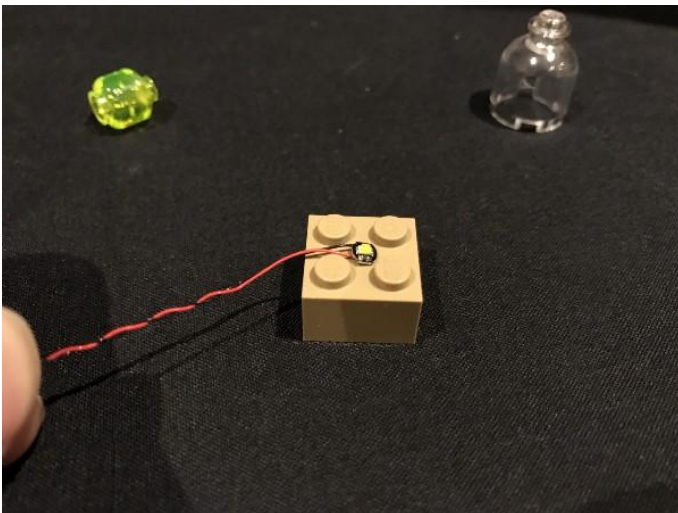
109. Note: If you do not have enough cable length you will need to go back and ensure you have threaded the cable the exact way that I did.

We will now install a light to the slime bowl next to the computer. Remove this as well as the brick underneath and disassemble the pieces as per below.



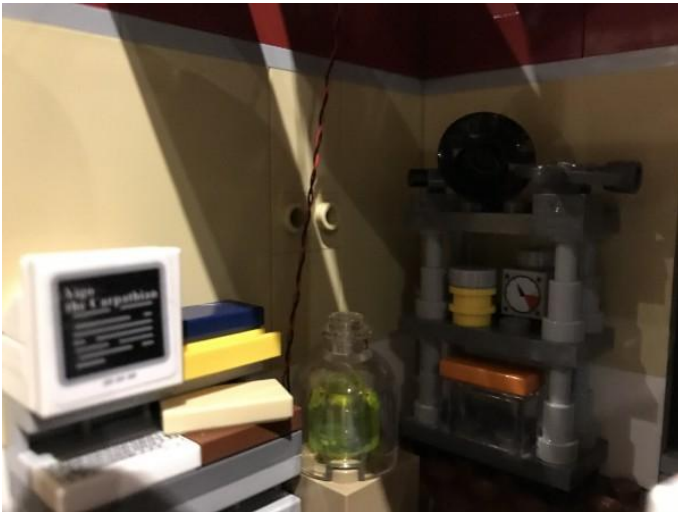


111. Take one Dot Light and place it in between the studs of the 2x2 brick, and then secure it in place by reconnecting the fluoro trans green head over the top. Ensure the LED component part is facing the correct way up. Reconnect the trans piece over the top and then reconnect this section back to the floor with the cable facing the wall.

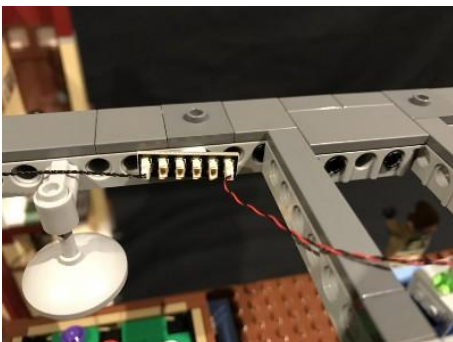




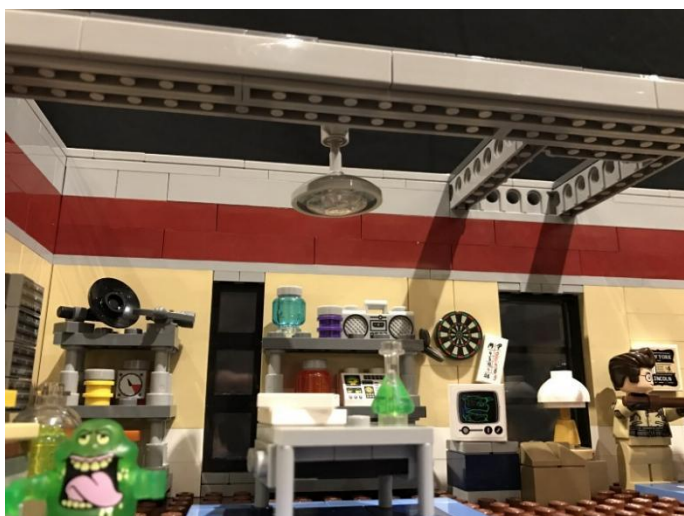
113. Pull the cable up along the side wall and then hide the cable behind the wall piece as per below.



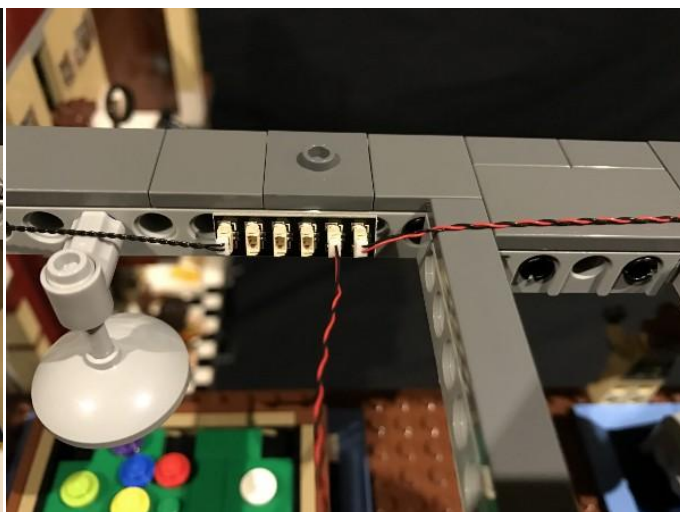
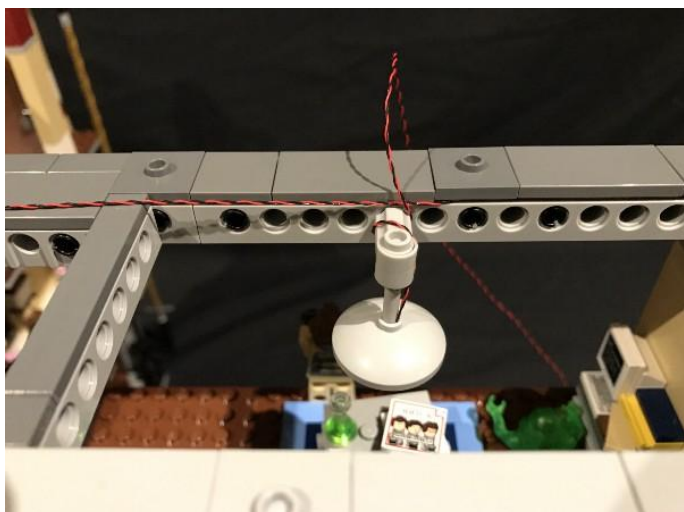
114. Connect this cable into the port closest to the side on the 6-port expansion board on the other side of the room then do your best to hide all the excess cable underneath tiles across the ceiling beams.



115. We will now install another Dot Light to the ceiling light above. Remove this piece and then follow step 14 again to install another Dot Light to this ceiling light.



116. Once you have installed another Dot Light to this ceiling light, reconnect it to the ceiling beam and then connect the other end into the next available port on the 6-port expansion board. Again, hide excess cable underneath the tiles.





118.We will now install a light to the window lamp. First remove this lamp as well as 2x2 brick underneath. Install another Dot Light to this lamp following the same process as the bedside lamp in step 27.



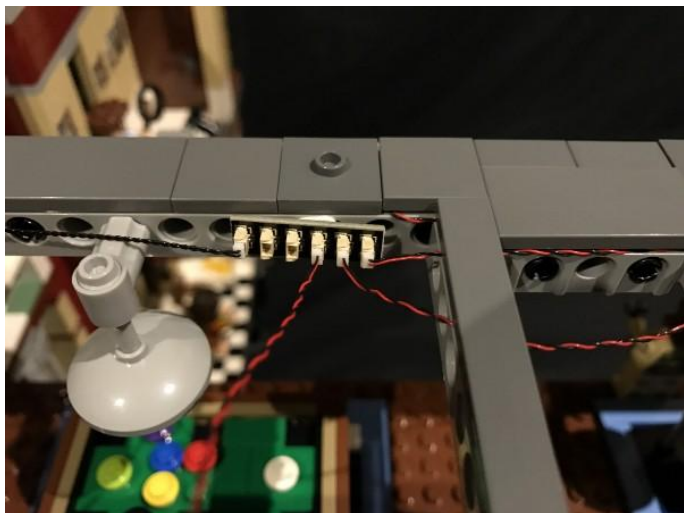
119. Once you have installed a Dot Light to this lamp, lay the cable underneath across the round plate. Pull it across and then lay it back underneath the 2x2 brick across so it comes out the other side. Reconnect this piece back in front of the window ensuring the cable is facing toward the left.



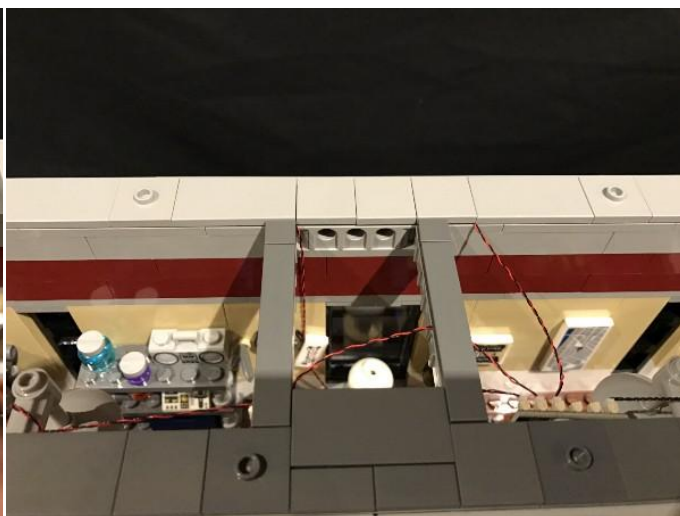
120



121. Connect the other end of the lamp Dot Light cable into the next port on the 6-port expansion board and then secure the cable to the back wall in between the dart board and score board. As always, hide any excess cable underneath tiles on the ceiling beams as shown below.



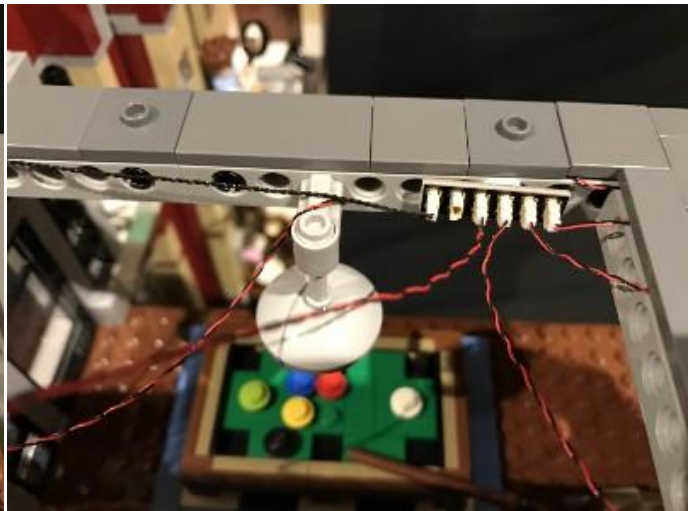
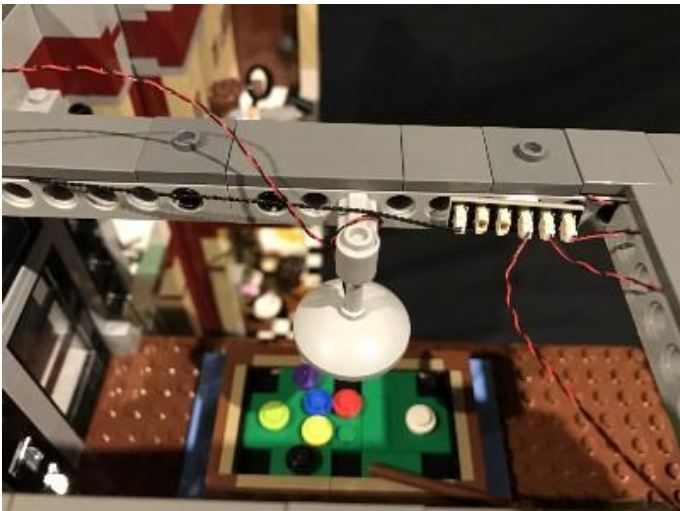
122



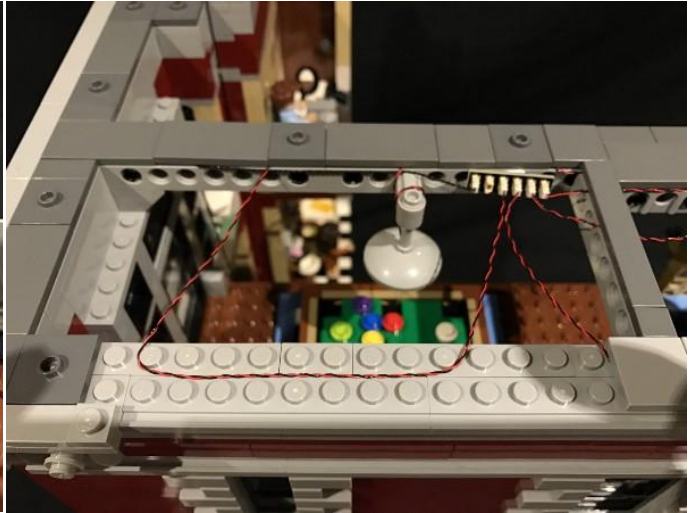
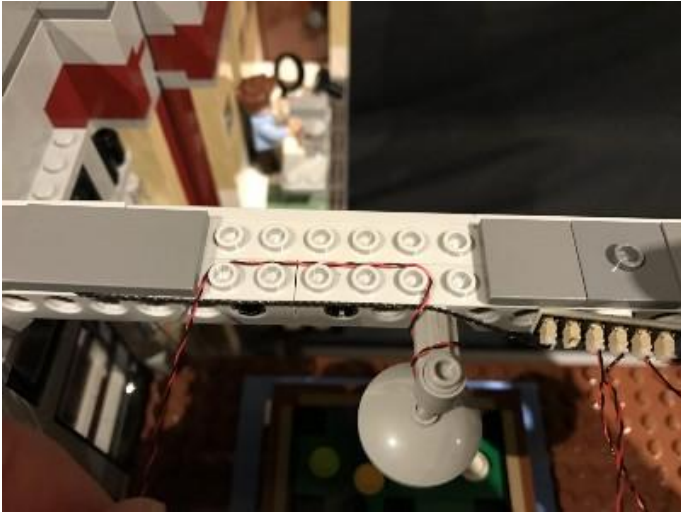
123. We will now install a Dot Light to the final ceiling light. Remove this piece and then again, follow step 14 to install the last Dot Light to this ceiling light.



124. Once you have installed the last Dot Light, reconnect the ceiling light back to the ceiling beam and then connect the other end of the Dot Light to the next port on the 6-port expansion board. Hide the excess cable underneath the tiles on the ceiling beam as shown below.



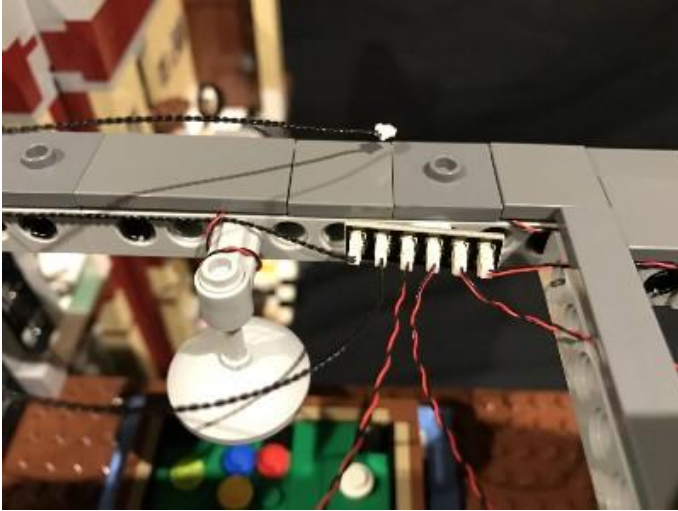
125



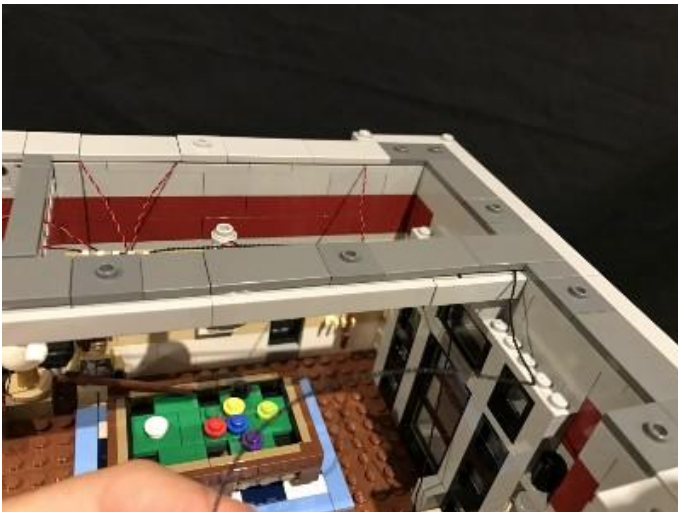
126



127. Take a 30cm connecting cable and connect it to the final port on the 6-port expansion board. From the front side, pull the cable across toward the right and then toward the front in between the studs and underneath tiles. Reconnect the tiles over the cable to secure it in place.



128

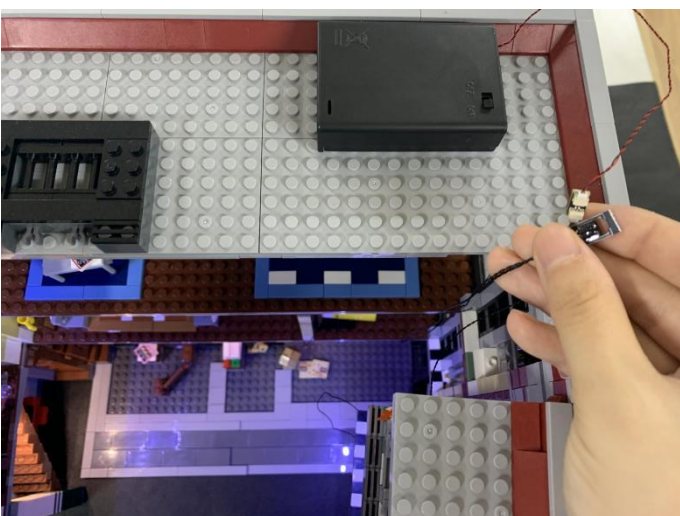


129. Take the entire roof of the ghostbusters headquarters and reconnect it over the top ensuring you can still access the loose 30cm cable we just connected.

Take the final strip light and connect the other end of the 30cm cable to the right port and then connect/stick the strip light to the roof above where Louis Tully is standing. Ensure the 30cm cable is on the right and the left port is free.



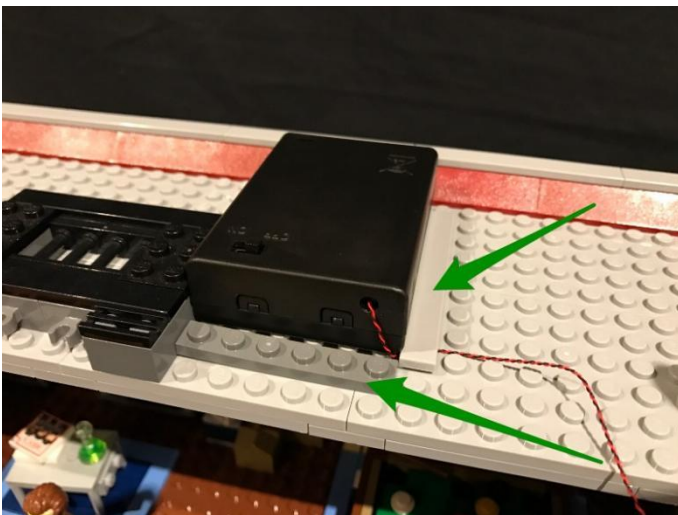
130. Take the battery pack, place it at the roof as per below. With switch facing up, pull the 2-port expansion board and the receiver to the roof



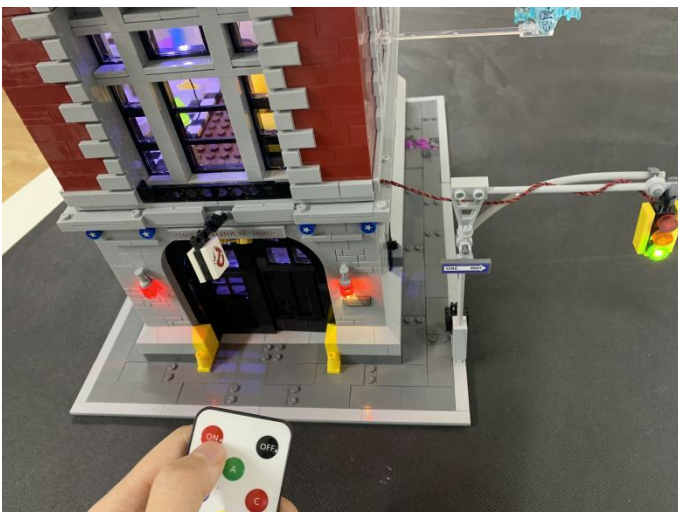
131. Take a gray 1x2 plate, secure the 2-port expansion board and the receiver at the roof



132. secure the battery pack and its cable by using the following plate.



133



Good job, you've done all the installation steps, power it up and enjoy your work.

