

71040 Disney Castle P10002

- **P10002 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 “71040 P10002”.**
- **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 14 bags in this set. The name and quantities of specific components are as shown , please check carefully.

Label	Content	Quantity
Bit Lights-15CM-White	Bit Lights-15CM-White	7
Bit Lights-30CM-White	Bit Lights-30CM-White	23
LED Strip Lights-White	LED Strip Lights-White	6
Expansion Board	6 Socket Expansion Board	2
	12 Socket Expansion Board	3
USB Power Cable	USB Power Cable-30CM	1
Connecting Cables-5CM	Connecting Cables-5CM	4
Connecting Cables-15CM	Connecting Cables-15CM	6
Connecting Cables-30CM	Connecting Cables-30CM	4
Connecting Cables-50CM	Connecting Cables-50CM	3
Multi-Colour Light Board	Multi-Colour Light Board	2
Flicker-Effects Board	Flicker-Effects Board	2
Multi-Colour Light String	Multi-Colour Light String	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 “USB Power Cord”and “Expansion Boards”as follows.



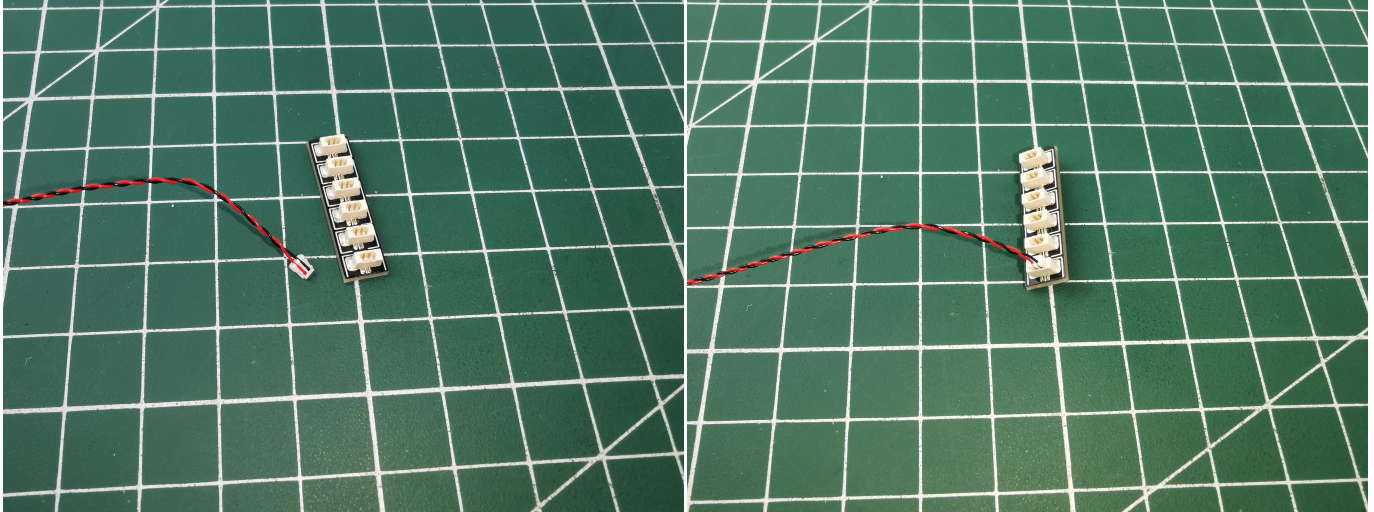
It is worth reminding that our products are all customized. They have a unique way of connecting. The white plug on wire and the socket of the expansion board need to be connected together to transmit power.

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.



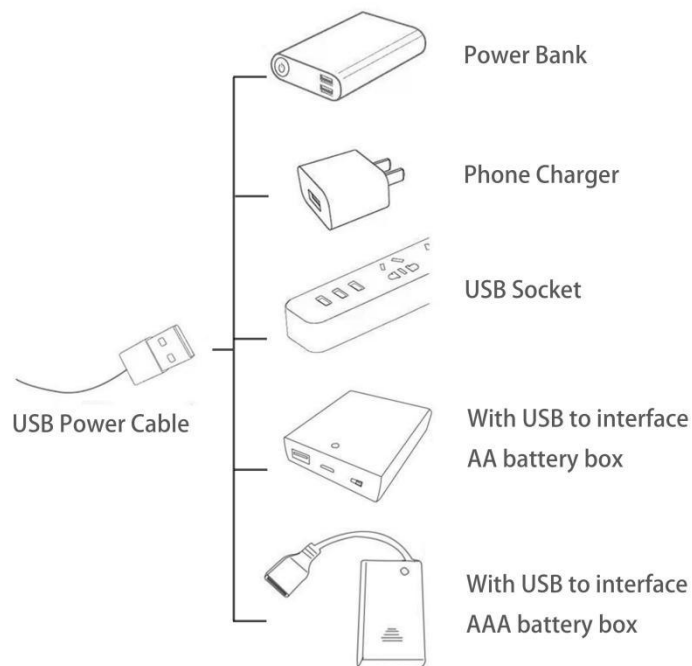
All our connections between plug and socket are all the same as shown above. So for any such structure with plug and socket, please pay attention to the golden wire of the plug and the golden needle of the socket, they must be touched together.

The connection method between the USB Power Cord and Expansion Boards is as follows:



The USB Power Cord can be powered by phone chargers, power banks, etc.

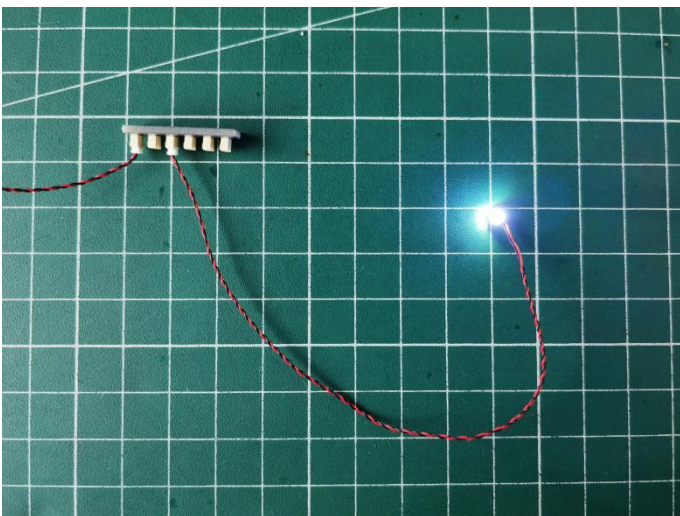
USB connectors to connect devices



This instruction will use the power bank as power supply . The test structure is shown as follow. All lamp in this set will be tested by this structure.



when we test "Bit Lights-15CM-White" particles,Take out the bag labelled "Bit Lights-15CM-White".Take out one of the light and connect it to the socket. Turn on the power bank, 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*Bit Lights-15CM-White,23*Bit Lights-30CM-White,6*LED Strip Lights-White,2*Multi-Colour Light Board,1*Multi-Colour Light String.

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

Section C: laying out components following the instruction.

1



2



3



4



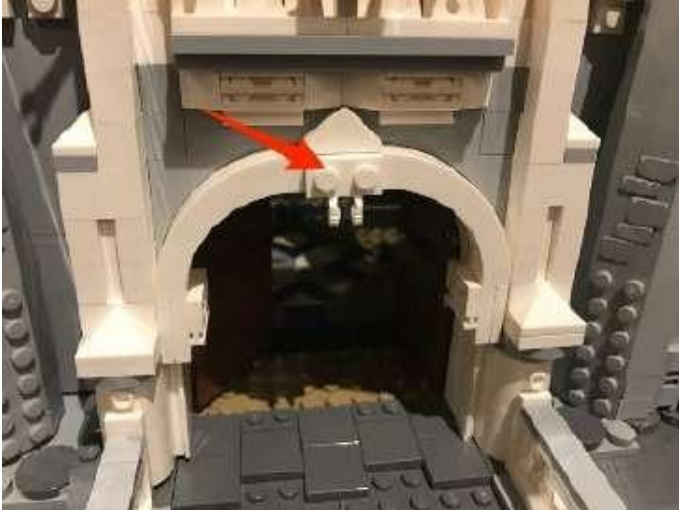
5



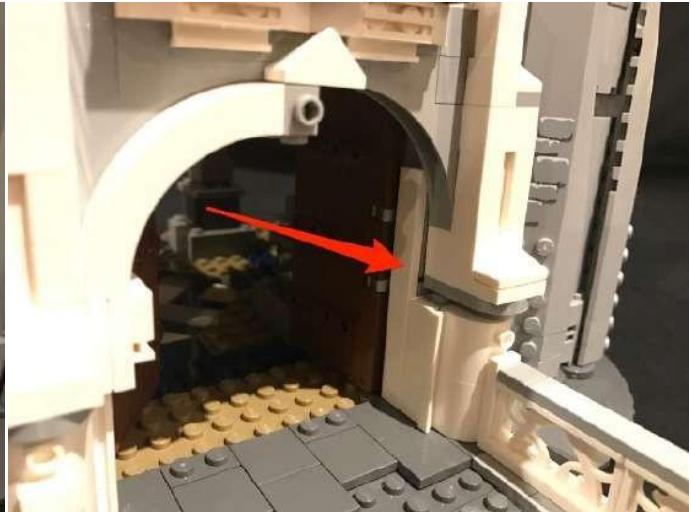
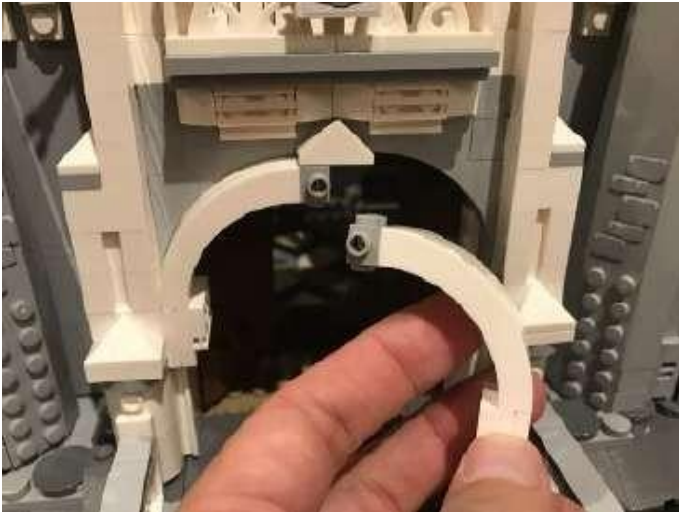
6



7. Remove the following sections.



8



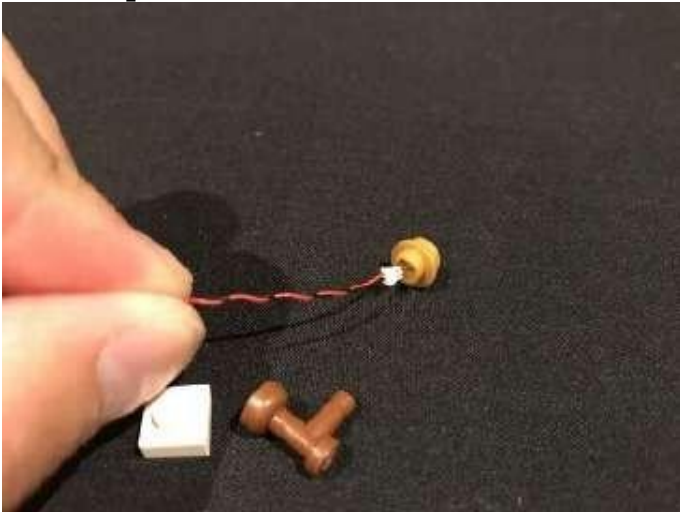
9



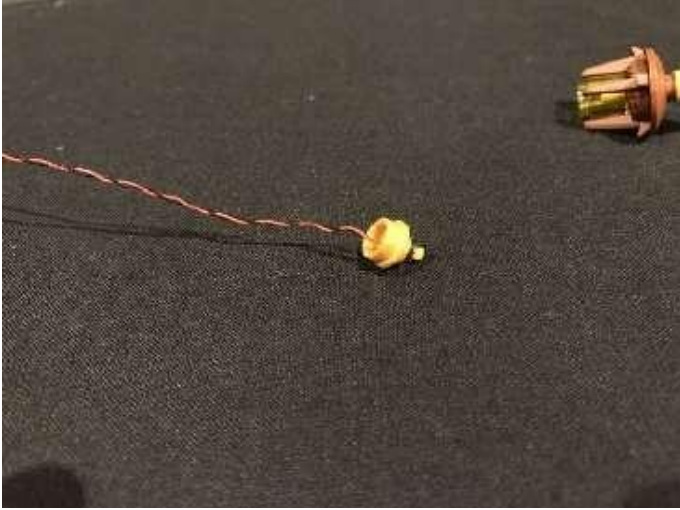
10. Take one of the lamp sections and disassemble as per below.



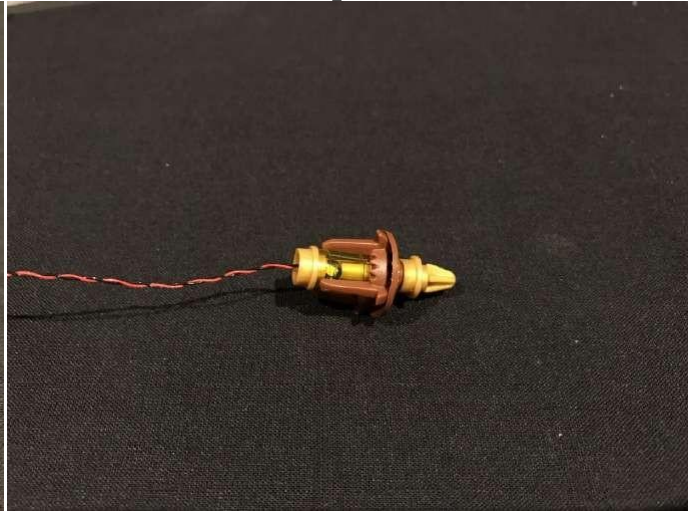
11. Take a White 30cm Dot Light and thread the connector side through the top (smaller hole) of the pearl gold round plate. Thread all the way through until the LED component of the Dot Light is right up against the bottom of the plate.



12



13. Reconnect the pearl gold plate back to the rest of the lamp ensuring the LED Component is clearly visible, then reconnect the remaining pieces to the lamp.



14



15. Reconnect the lamp with Dot Light installed back to the castle and then remove the right door.



16. Thread the other end of the cable through to the inside of the castle and then lay the cable neatly underneath the gap we created. Reconnect the door to secure the cable in place.



17



18. Reconnect pieces we removed earlier and then close the gap by pushing down pieces together.



19



20. Repeat step 2 to remove pieces and create another gap to the left side of the door.



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22



23. Repeat steps 3 and 4 to install another White 30cm Dot Light to the lamp on the right, then reconnect sections and push down on bricks to close up the gap.



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26. Turn the castle around so that we can access the inside and then pull the cables right through from the doorway.



27. Remove the following tiles from the base of the second koor and then remove the 6x8 plate from the middle, followed by the 2x10 plate behind.



28



29. Thread the 2 cables from front door up this space we have created and then set aside.



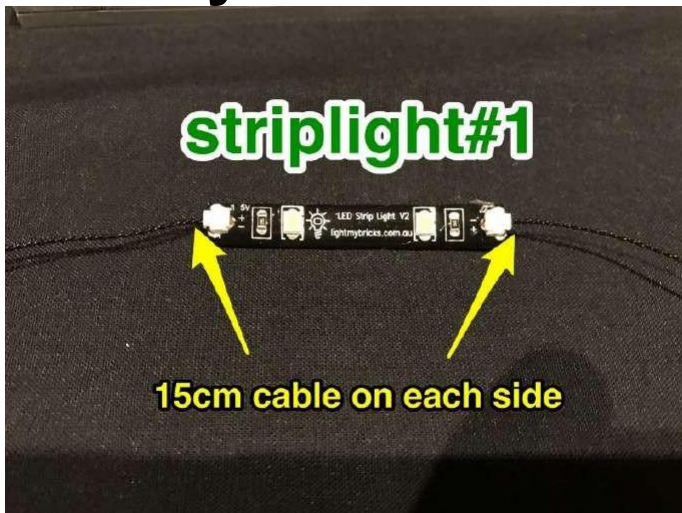
30. Use the removal tool to lift and remove the middle section as per below.



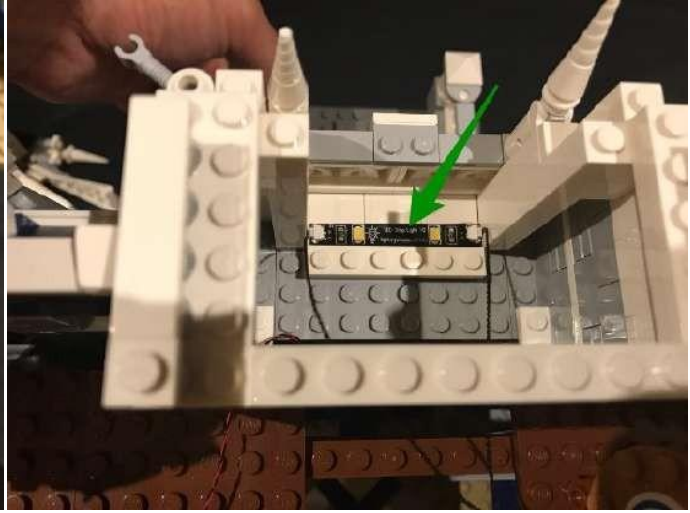
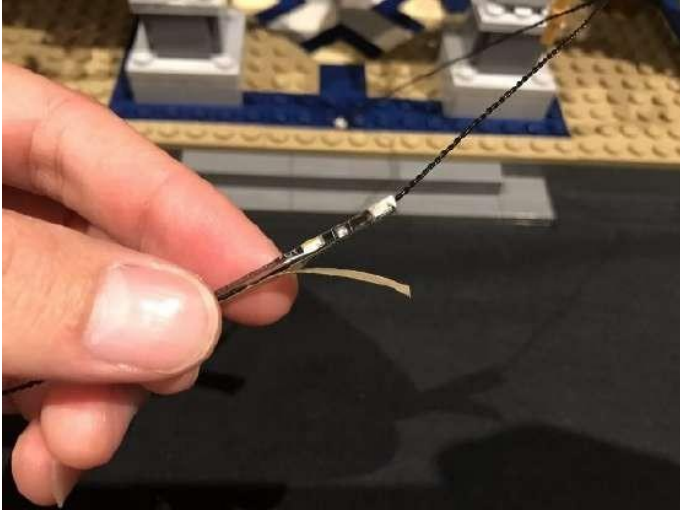
31



32. Take a Strip Light and connect a 15cm connecting cable on each port (total 2x connecting cables). Since we are using several strip lights in this lighting kit, we will identify this one as striplight#1.



33. Peel off the adhesive backing paper and to allow us to stick it to the base of balcony as close as possible to the 1x6 plate.



34. Pull the connecting cables over before reconnecting the 2x10 brown plate and middle section we removed earlier.



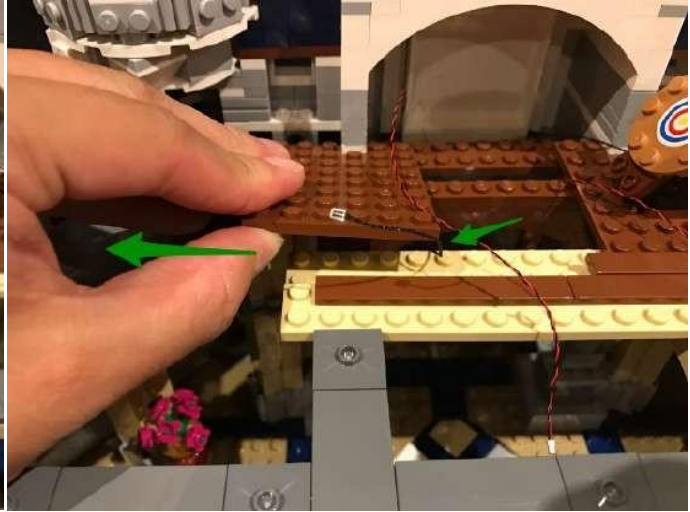
35



36. Remove the following sections of the base of the second koor and then thread the connecting cable from the left port on striplight#1 underneath the 6x8 plate (but over the beam below) through to the left side.



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39. Repeat this process for the right section and cable from the right port on striplight#1.



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41. We will now install lights to the chandelier. First remove this entire section at the 2x2 plate and then disassemble pieces as per below:



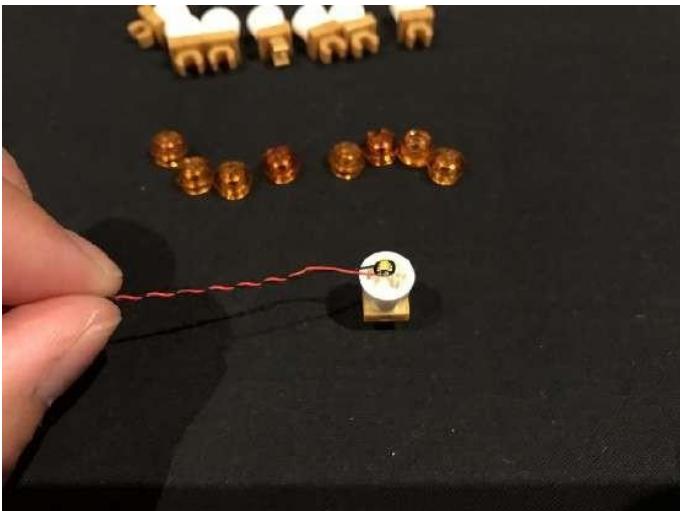
42



43. Take out 8 of the provided trans orange round plates which came in this set.



44. Take a White 30cm Dot Light and then bend the LED component on a 90 degree angle with the component face up. Place the Dot Light inside one of the white round pieces and then secure by connecting a trans orange plate directly over it.



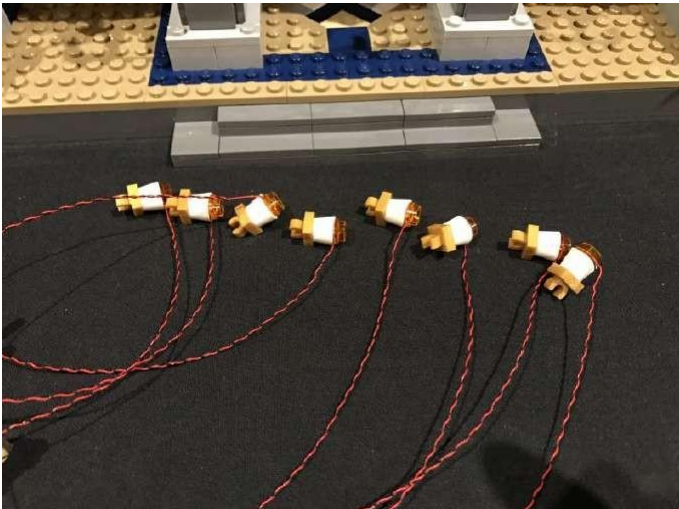
45



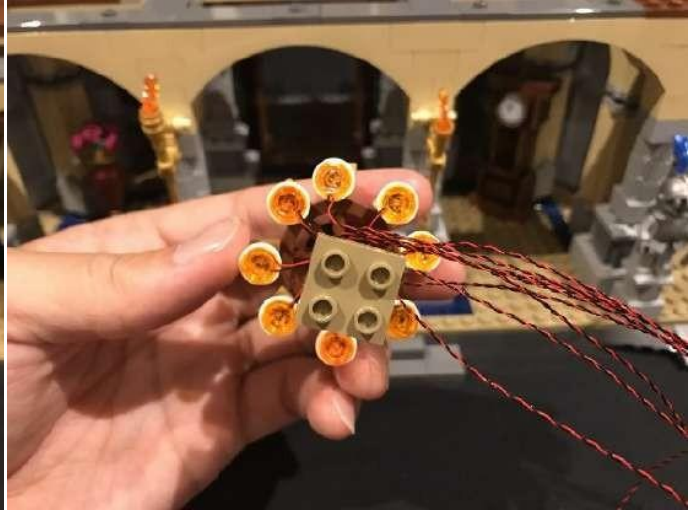
46



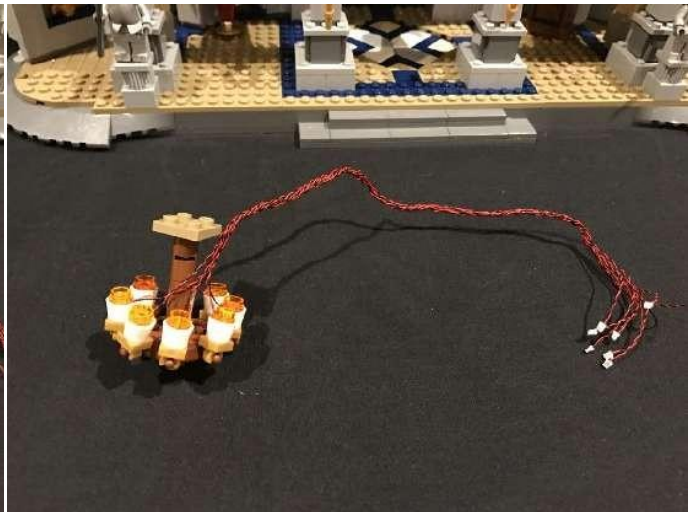
47. Repeat the above process to install another 7x White 30 Dot Lights using provided trans orange round plates to secure.



48. Connect each light section back to the wheel ensuring each cable is facing toward the centre of the wheel.



49. Group all the cables together and then twist/wind them around each other so that they all come together to form one large cable.



50.Reconnect this section back to the roof of the ground koor.



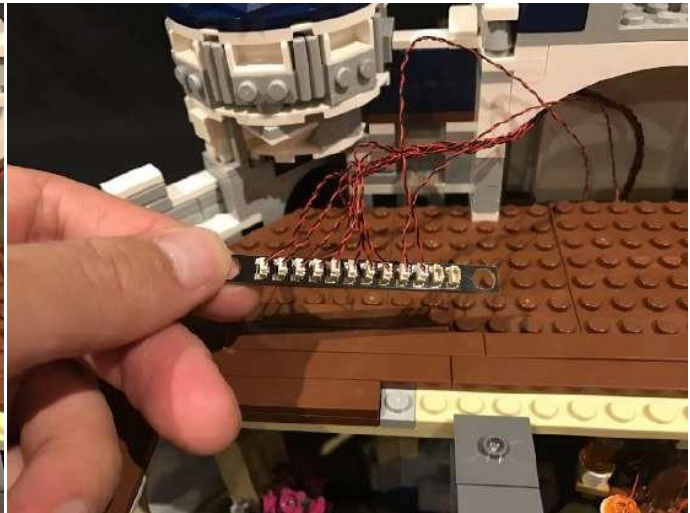
51.Bring the cables of the chandelier toward the front of the castle and then thread the cables up the space which leads to the second level. Lay the cables in between studs of the first brown brick before reconnecting the middle 6x8 plate directly over the top as well as the brown tiles we removed earlier.



52



53. Take a 12-Port Expansion Board and then connect all lights from the chandelier as well as the 2 front door lights we installed at the start into available ports of the expansion board.



54. This is now a good time to test the lights we have installed so far. To do this take the USB Power Cable and connect it to your USB Power Bank. Connect the other end of the USB Power Cable into a spare port on the expansion board and turn on to confirm all the lights are working OK.



55



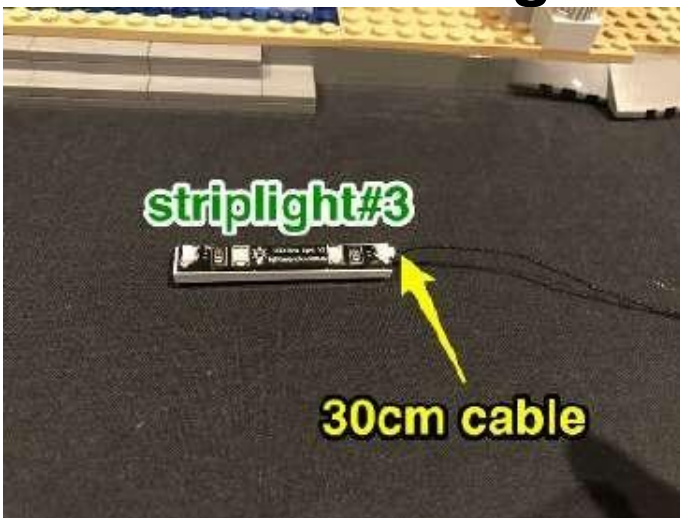
56. Let's move onto lighting the rest of the ground koor. Take a Strip Light (striplight#2) and then stick it onto a provided 1x6 plate. Connect a 5cm connecting cable into one of the ports. Take this strip light and connect the loose 15cm cable hanging from the left side of the roof into the spare port and then mount to the roof in the below position. Ensure the 5cm connecting cable is facing the right.



57



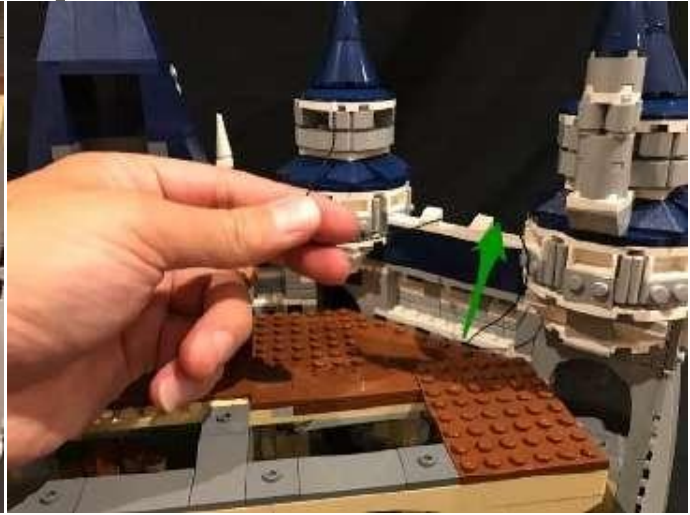
58. Take another Strip Light (striplight#3) and stick to a 1x6 plate. Connect a 30cm connecting cable to one of the ports on the strip light. Take this strip light and connect the loose 15cm cable hanging from the right side of the roof into the spare port and mount to the roof in the below position. Ensure the 30cm connecting cable is facing the right.



59



60. Thread the other end of the 30cm cable up behind the back wall which leads up to the level above. Pull up from underneath and then connect the cable into one of the spare ports on the 12-port expansion board.



61



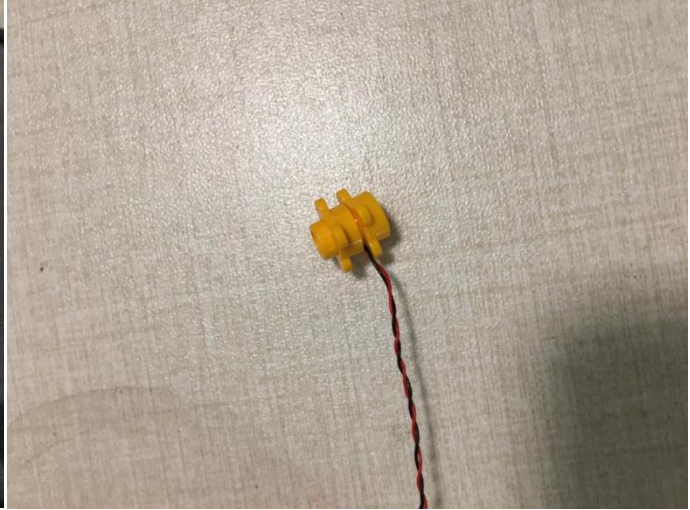
62. Take this time to test our lights we have installed so far by connecting back the USB Power Cable to the expansion board and verifying all is OK.



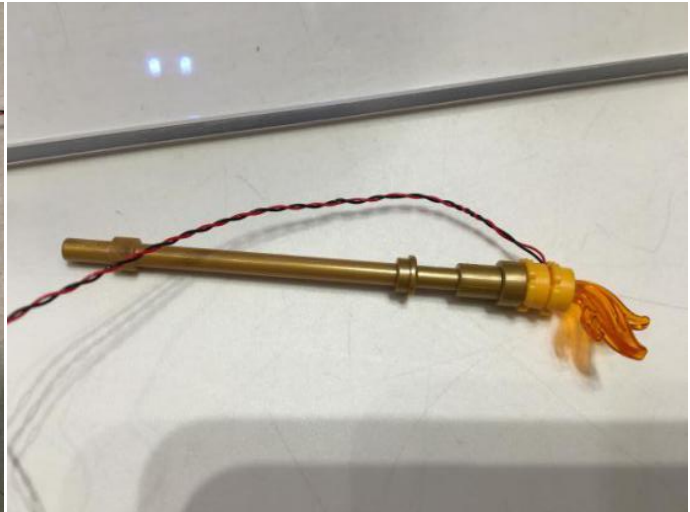
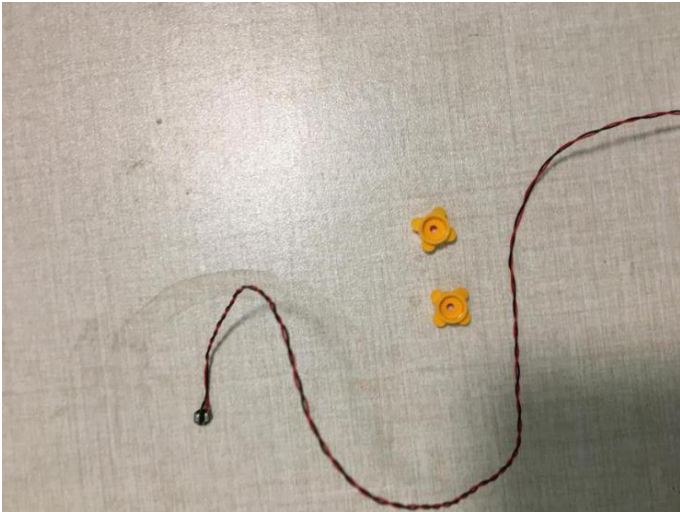
We will now install lights to the 2 fire torches. First remove them and then disassemble pieces as per below:



63



64



65. Reconnect these 2 sections back to the poles and then back to the pillars ensuring the cables are behind.



66. We now need to thread the cable for each torch underneath the pillars at the below position.



67. To do this, use your removal tool to lift and create a gap opening to allow you to thread the Dot Light cable through the middle in between studs. Once threaded through close up the gap by reconnecting down the pillars.



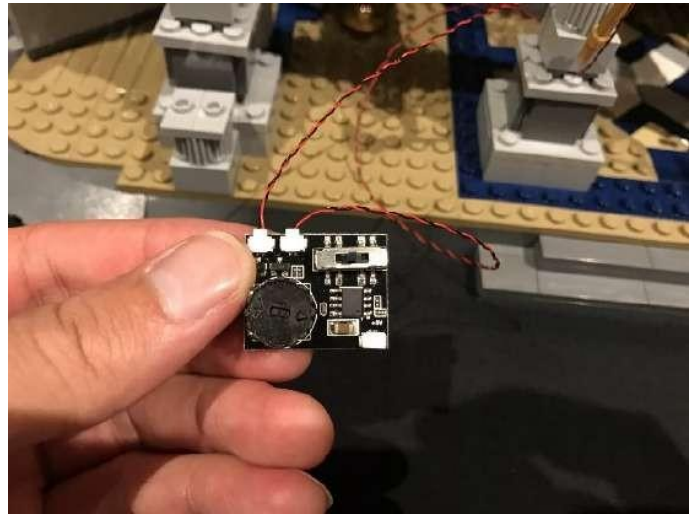
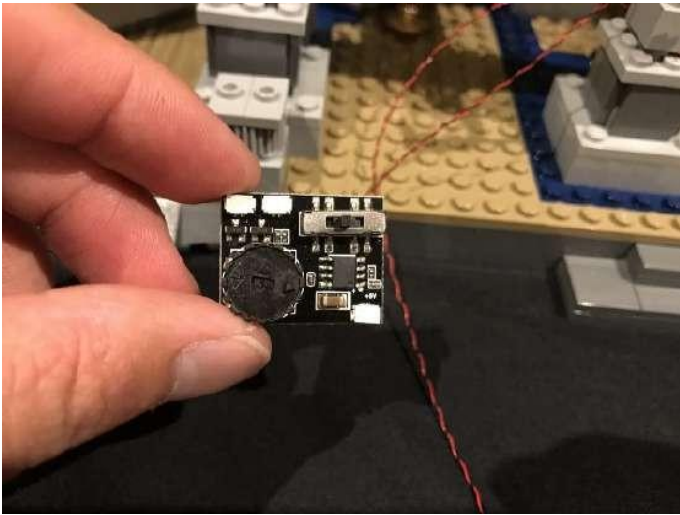
68



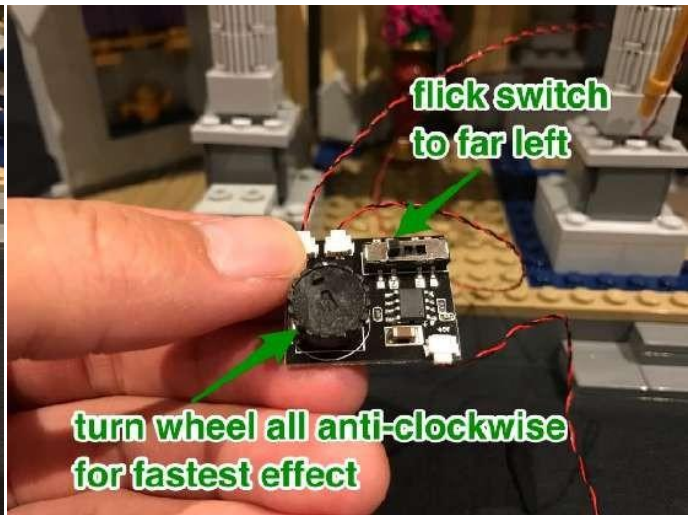
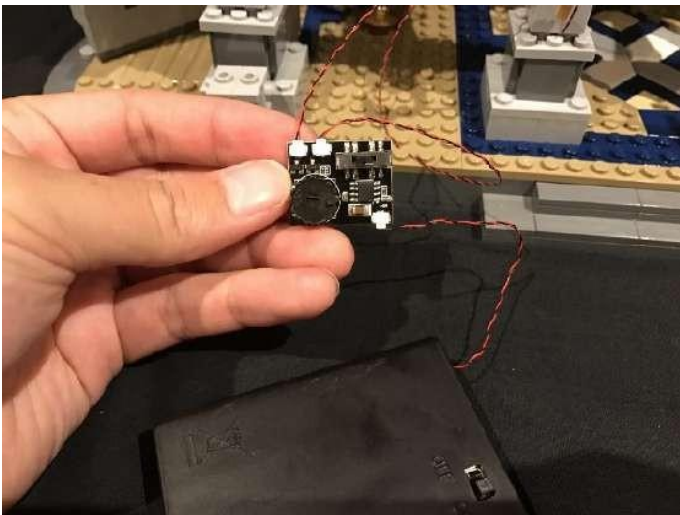
69. Repeat this process for the torch cable on the other side.



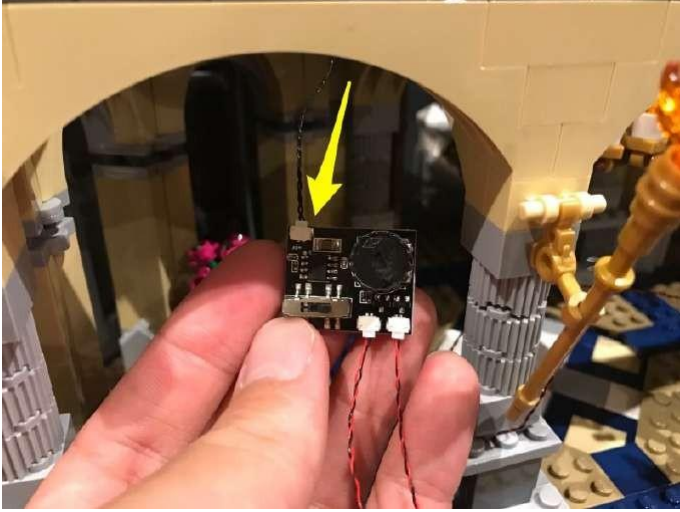
70.If your lighting kit contains the EGects Board 1 option, then take out one of the Multi-EGects Boards and connect the torch cables into the 2 output ports as shown below:



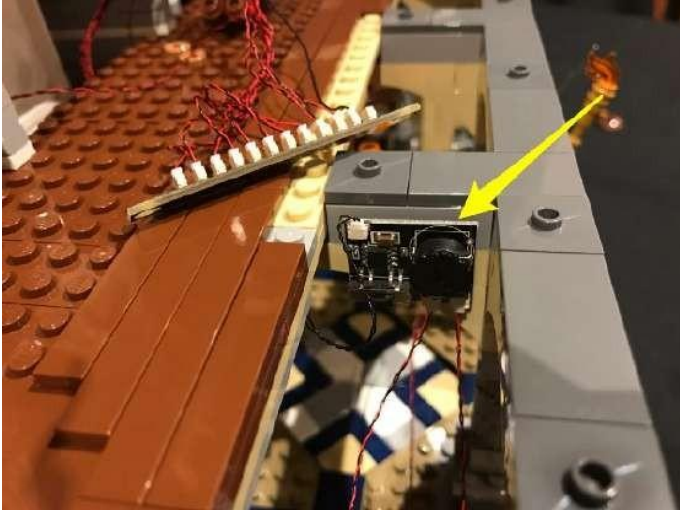
71



72



73



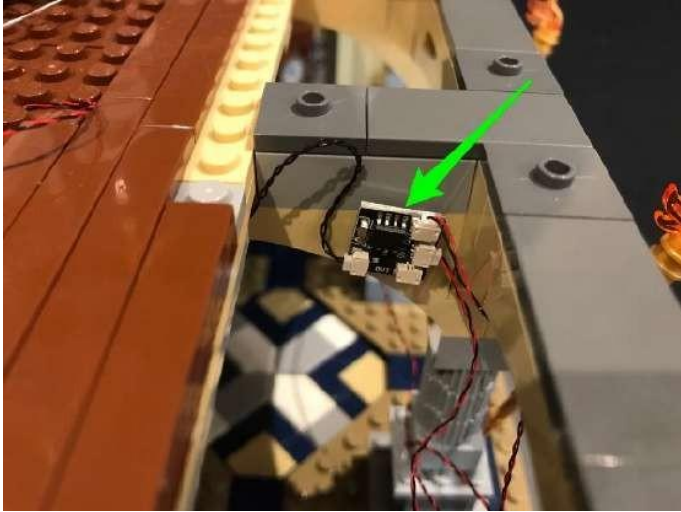
74



75. Locate the 5cm cable from striplight#2 hanging from the roof and connect this into the input port on the kicker effects board. Use 2x provided Adhesive Squares to mount the effects board to the top of the wall in the below position.



76



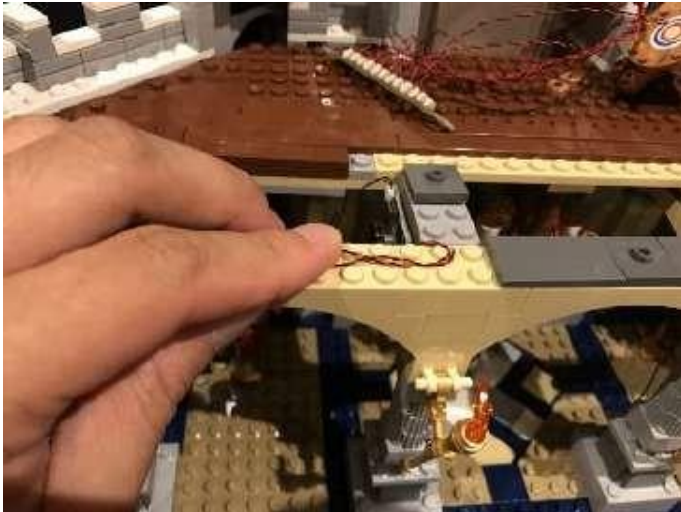
77. We now need to eliminate excess cables from the 2 torches. To do this, bring the cables up and lay them underneath the grey tiles on the roof of the ground koor. You will need to first disconnect tiles, lay the cables in between studs, then reconnect the tiles over the top of them as shown below.



78



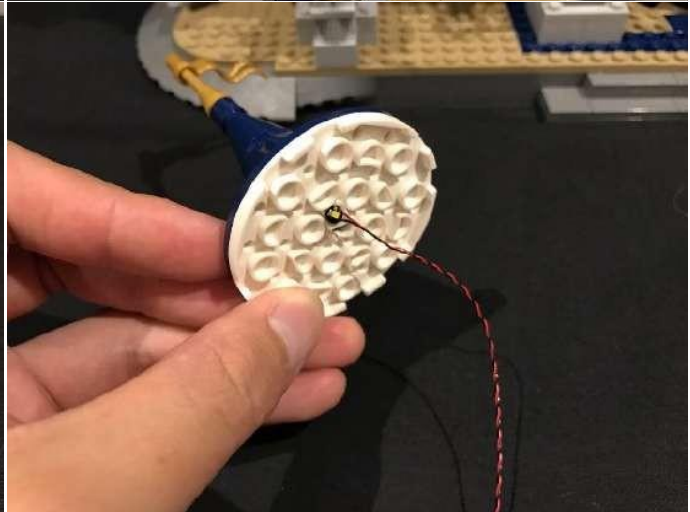
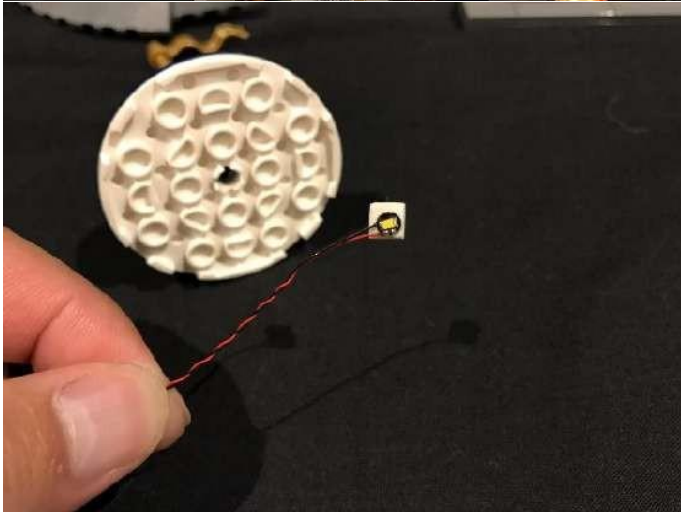
79



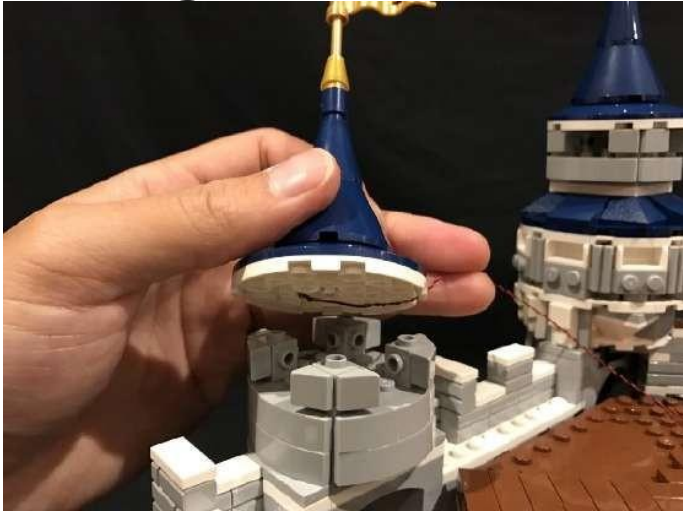
80. Test all the lights and effects are working together by connecting the USB Power Cable to the expansion board above. Turn on and verify all is OK.



81. We will now move onto installing lights to each of the towers on the first koor. Remove the roof ofl the far left tower from the round white base as per below. Take a White 30cm Dot Light and stick underneath the white round plate in the below position using an adhesive square.



82.Reconnect this roof section back to the tower ensuring the cable for the Dot Light is laid over the grey bricks underneath toward the right.



83.Remove the roof off the next tower along and install another White 30cm Dot Light underneath the white round base using an adhesive square. Reconnect roof with cable in between the white round plate and grey brick underneath facing toward the centre.



84



85. Repeat previous steps to install another 2x White 30cm Dot Lights for the two towers on the right side using adhesive squares (one Dot Light each).



86



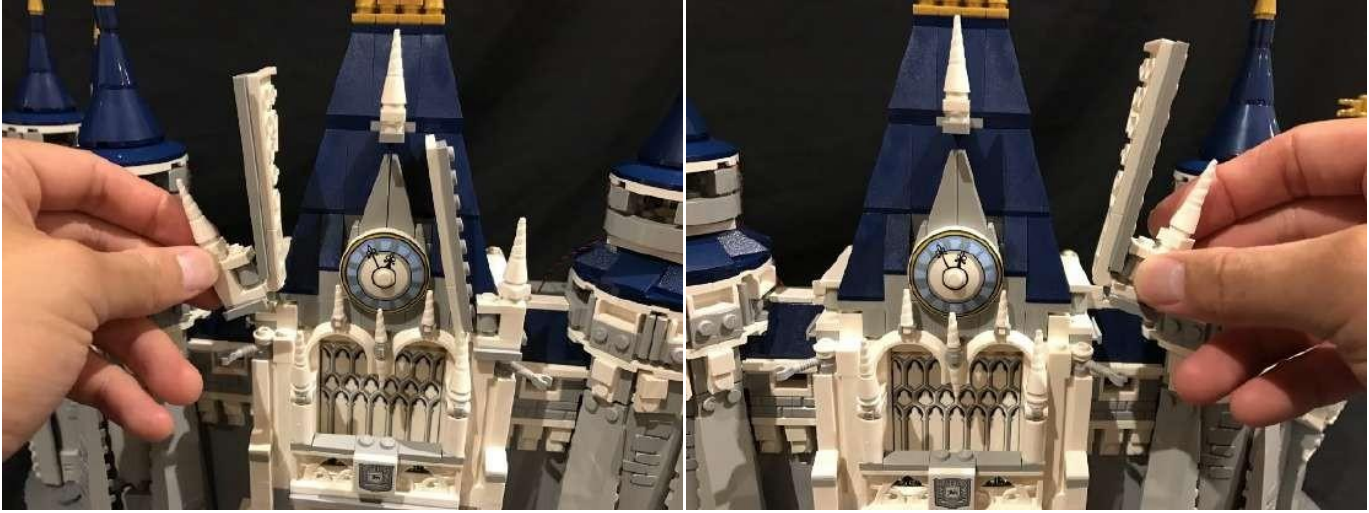
87



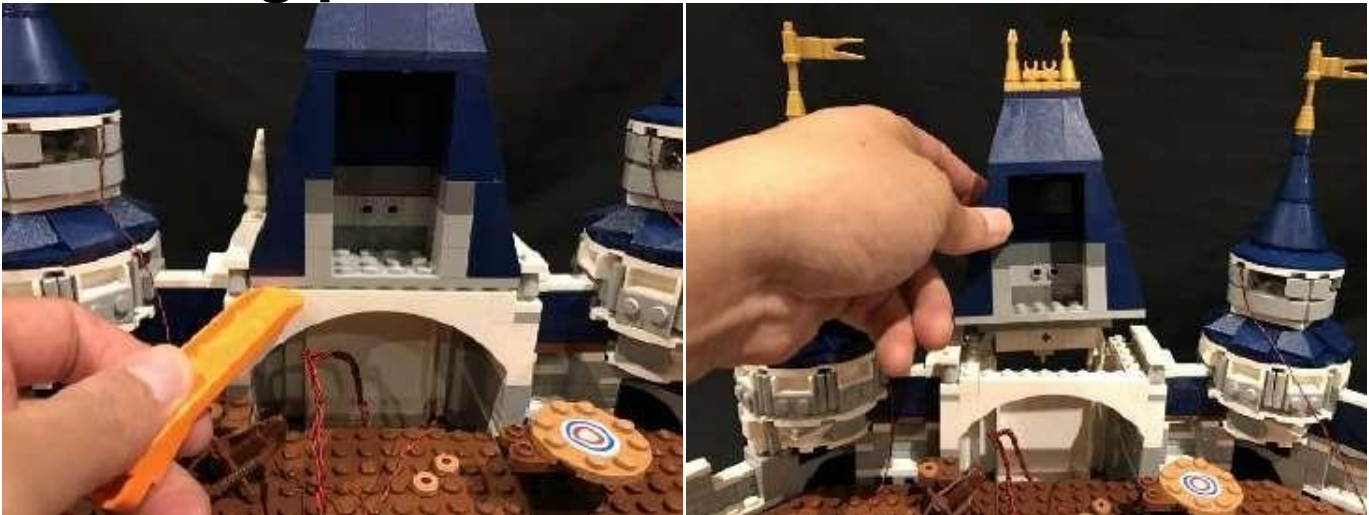
88. You can use tape to neaten up and secure the cables to the sides of the tower.



89. We will now install a light to the clock on the front. First remove the sections on each side of the front of the tower as per below.



90. From the back of the castle, use the removal tool to lift this section off at the following position.



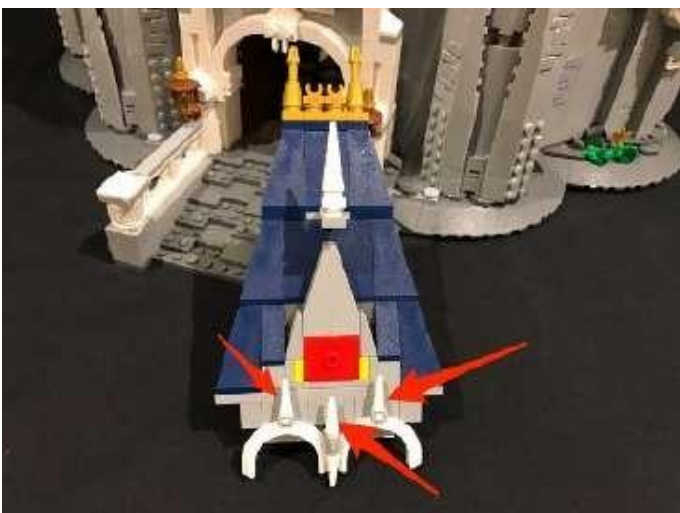
91

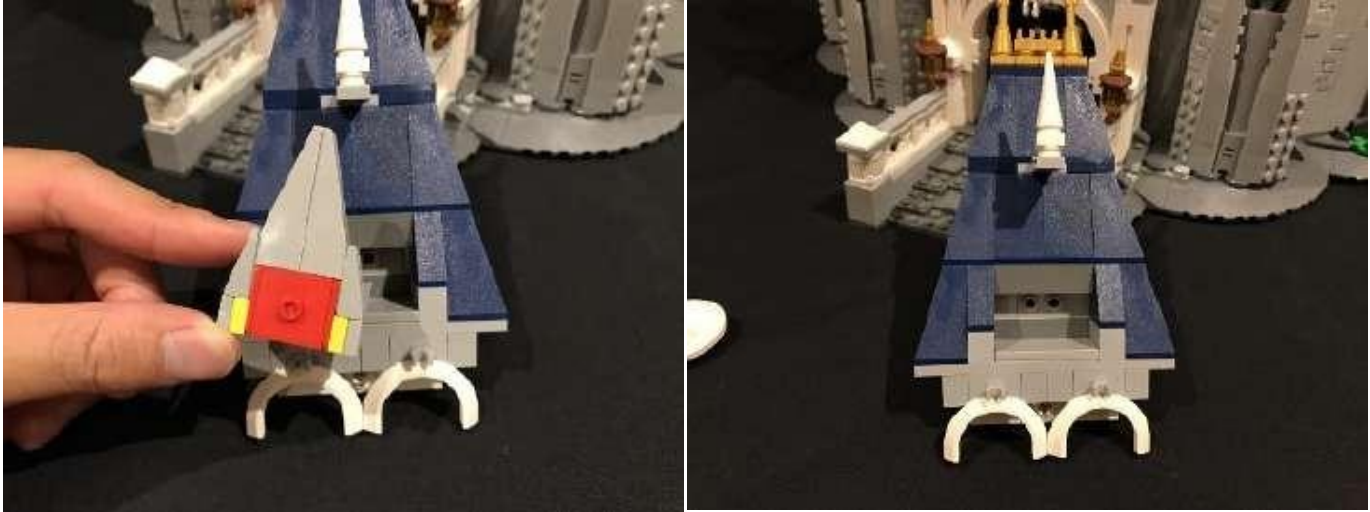


92. Remove the clock piece as well as following pieces from the front.

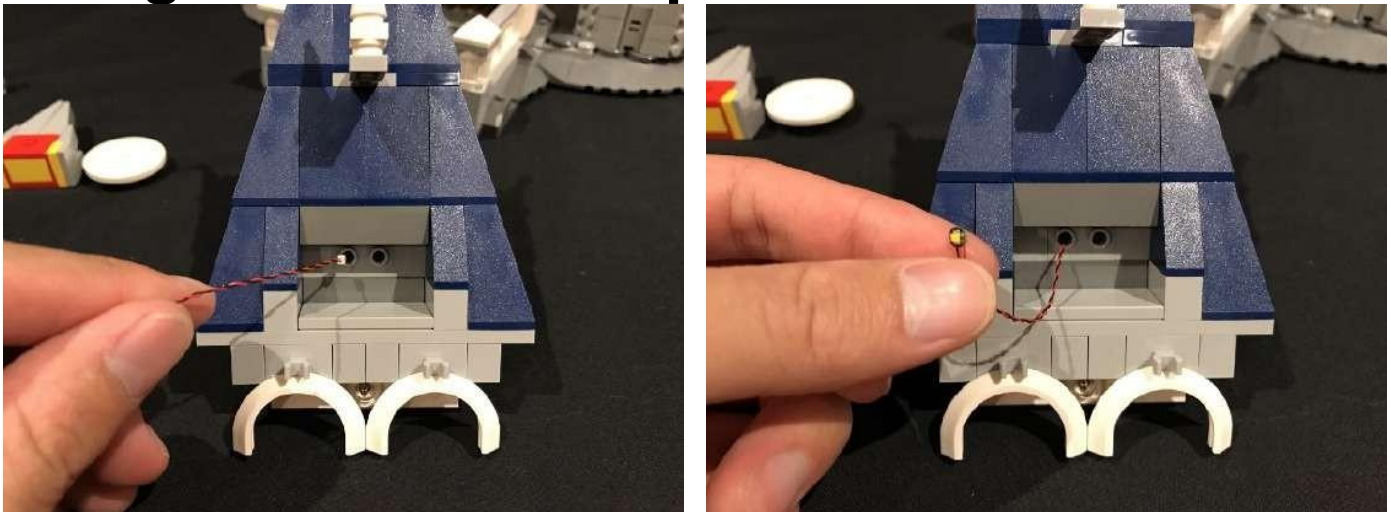


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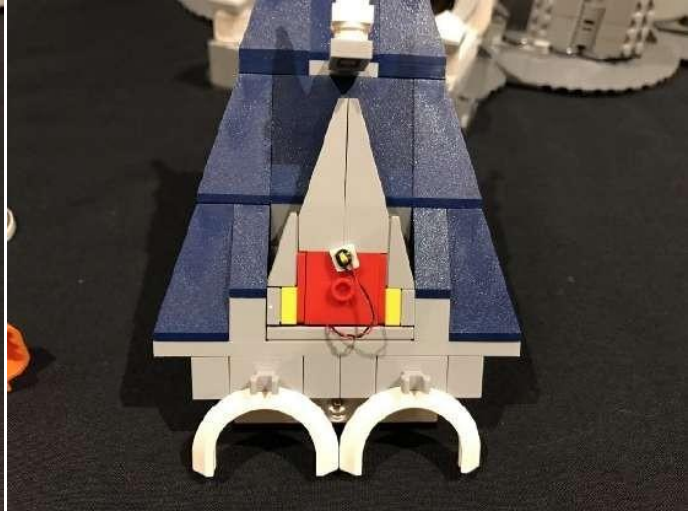
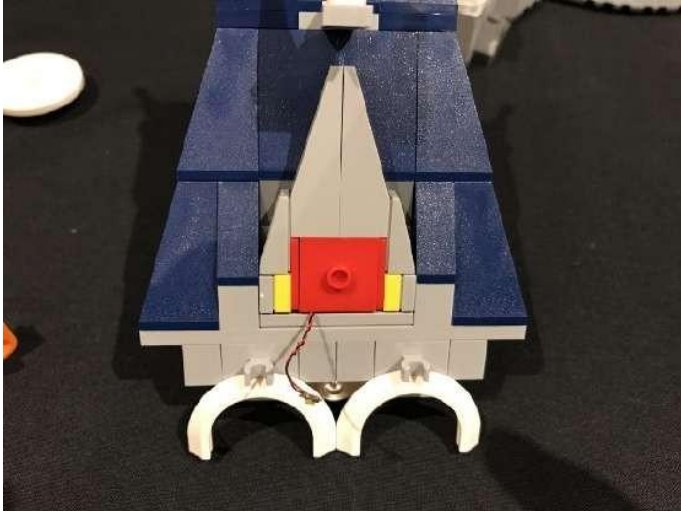




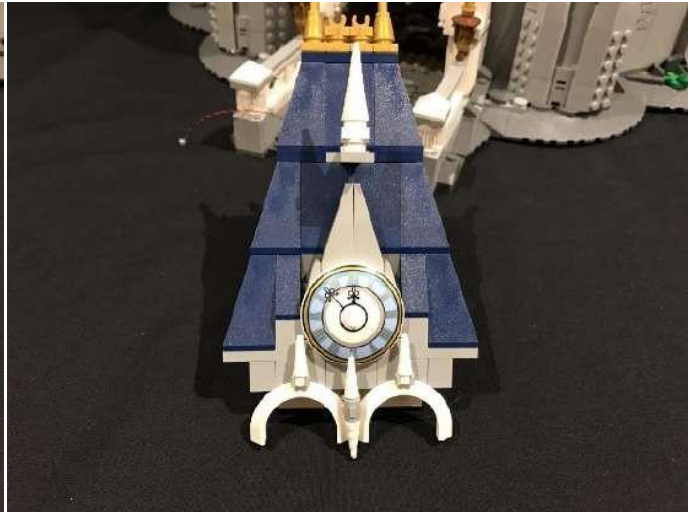
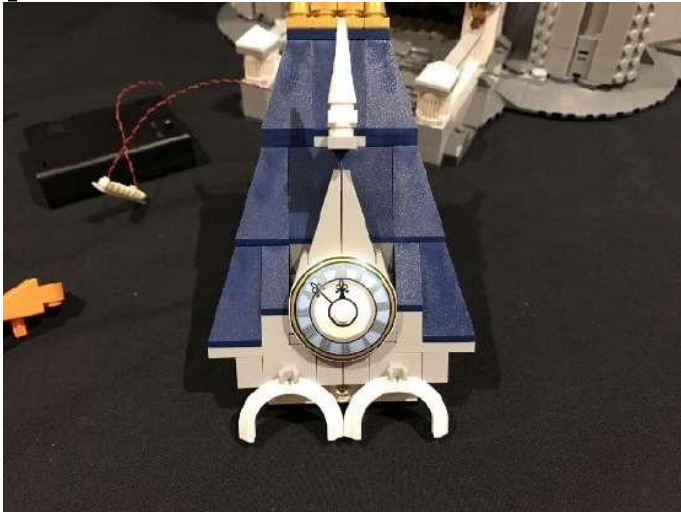
95. Take a White 30cm Dot Light and thread the connector side through one of the holes of the grey holes behind. Thread all the way through until you have about 5cm cable left. Stick the Dot Light to the following position using an adhesive square.



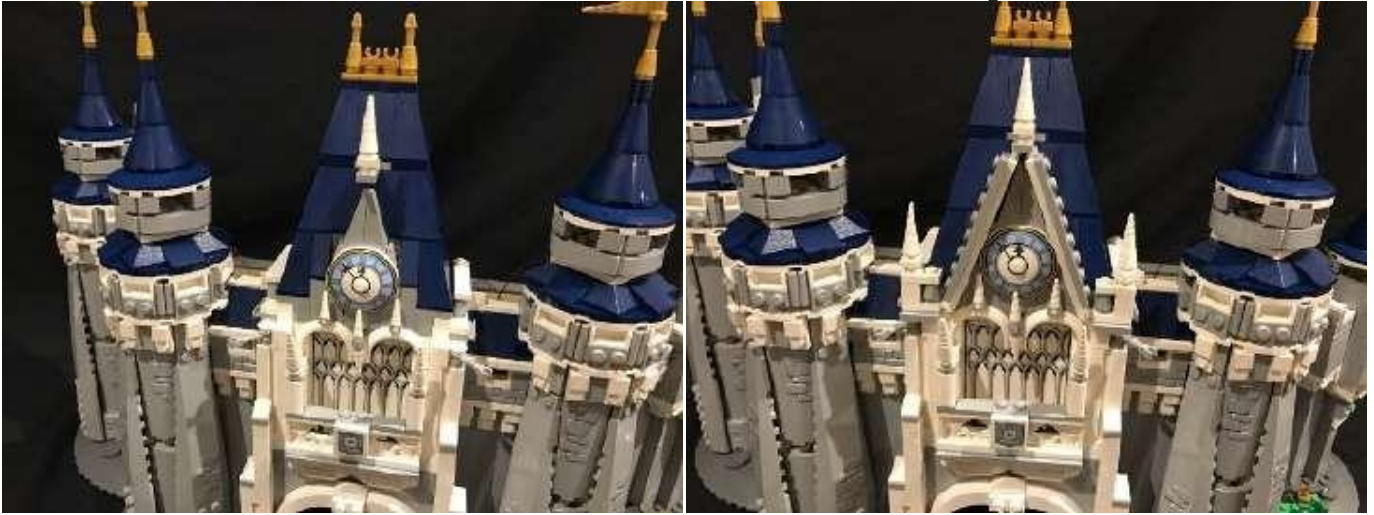
96



97. Reconnect the clock piece as well as other pieces we removed earlier.



98.Reconnect this whole section back to the castle and then reconnect the two sections on each side of the top.



99



100. Take another 12-Port Expansion Board and connect a 5cm connecting cable to the first port. Connect the other end of the cable to the remaining port on the first expansion board.



101. Connect the Dot Light cables from the 4 towers as well as the clock light to the ports on the other side of the second expansion board.



102. Neaten up cabling by laying them down in between the centre section and walls of the castle. Tuck the expansion boards into the middle section as per below.



103



104. Test the lights we have installed again by connecting the USB Power Cable to the expansion board. Turn on to verify all is OK.



105. Take the Multi-Colour Changing Light String and connect it to the next spare port on the far right of the 12-port expansion board.



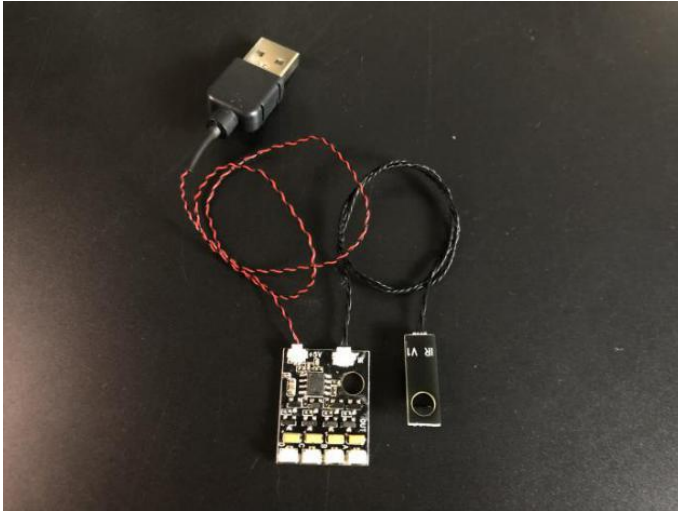
106. Lay the light string across the base of the second koor. Use 2x provided 1x2 plates to secure down at each side and do your best to ensure each of the 10 individual LEDs are facing up as we want them to shine as much as possible onto the front of the second level walls.



107



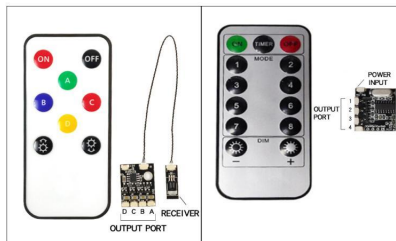
108. Take the Remote Control Switch Board, connect the USB cable to it. Connect the 15cm connecting cable to the Remote Control Switch Board.



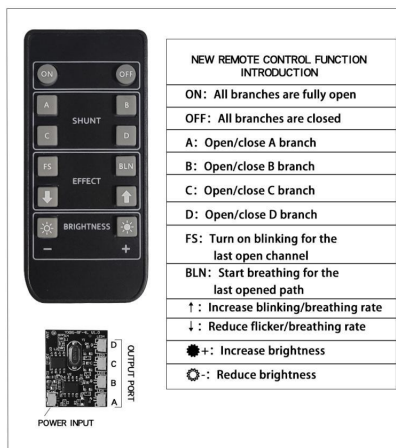
FRIENDLY TIPS

The remote control has been updated

Old style remote control:



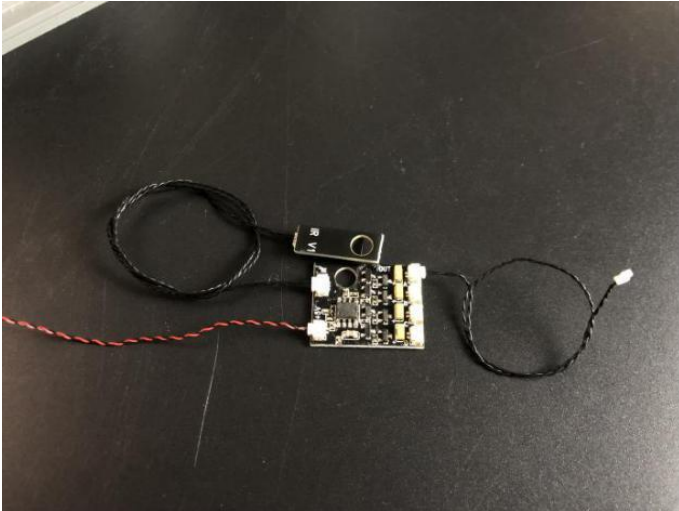
New remote control:



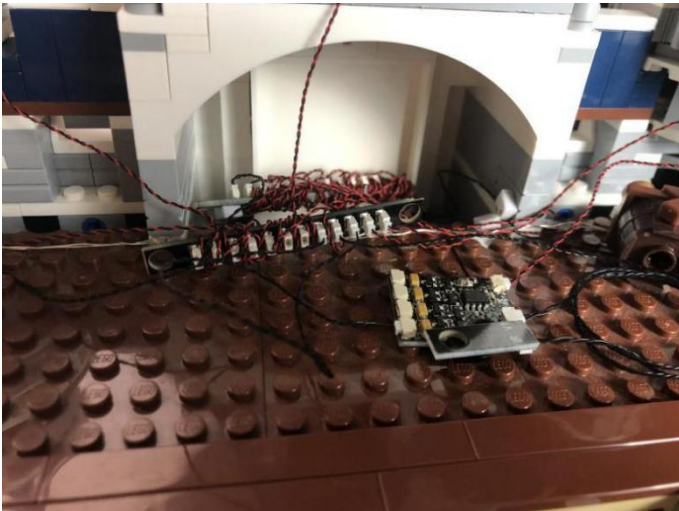
- ① Cancel the external signal receiver and change to an integrated design with strong signal and fast feedback.
- ② Add more functions, such as adding buttons such as breathing flashing frequency
- ③ The old A.B.C.D or 1.2.3.4 route corresponds to the new A.B.C.D route

More fun features look forward to your exploration!

109



110. Connect the other end of the 15cm connecting cable to the 12-port expansion board.



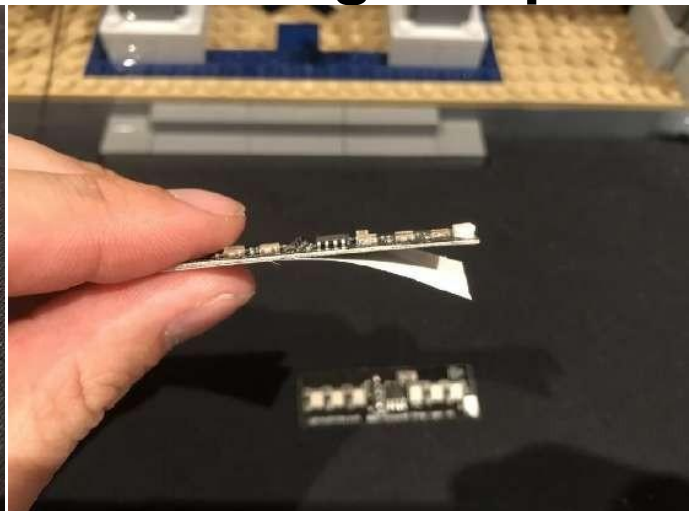
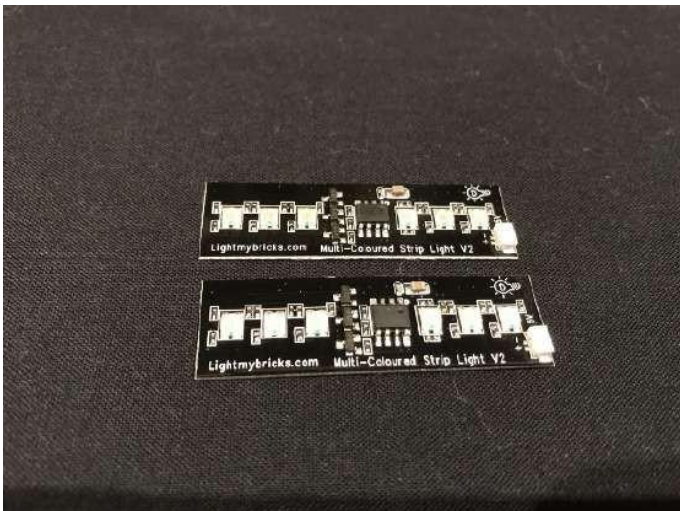
113



114



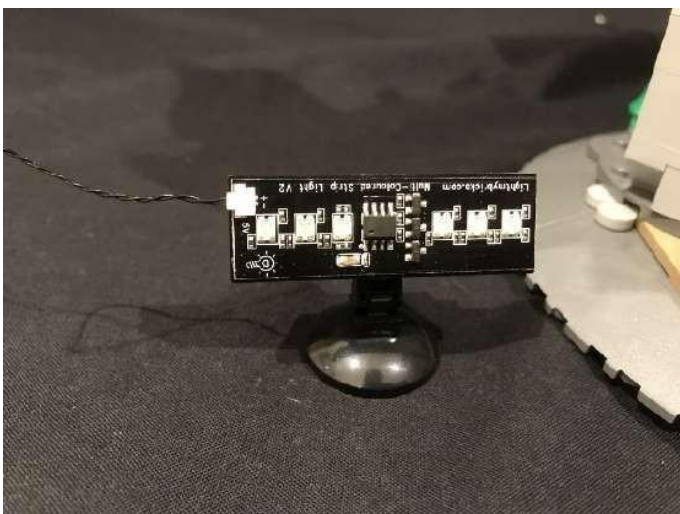
115. take 2 Multi Colour Strip Lights, stick them to the back of the following 2x6 plates.



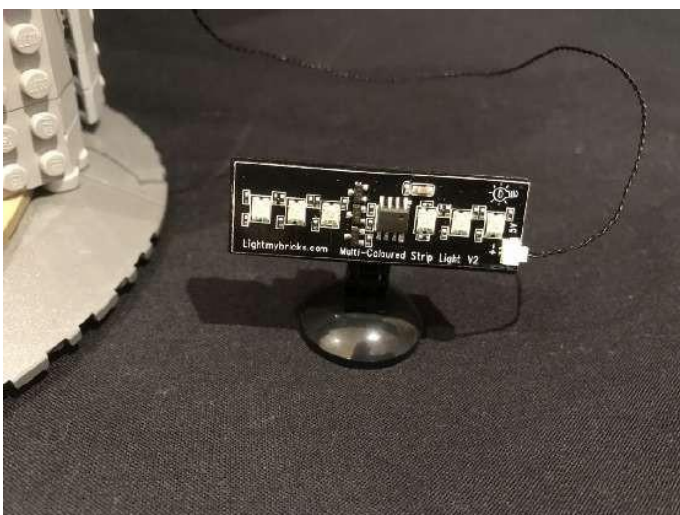
116



117. Take two 50cm connecting cable, connect them to the spotlights as per below.



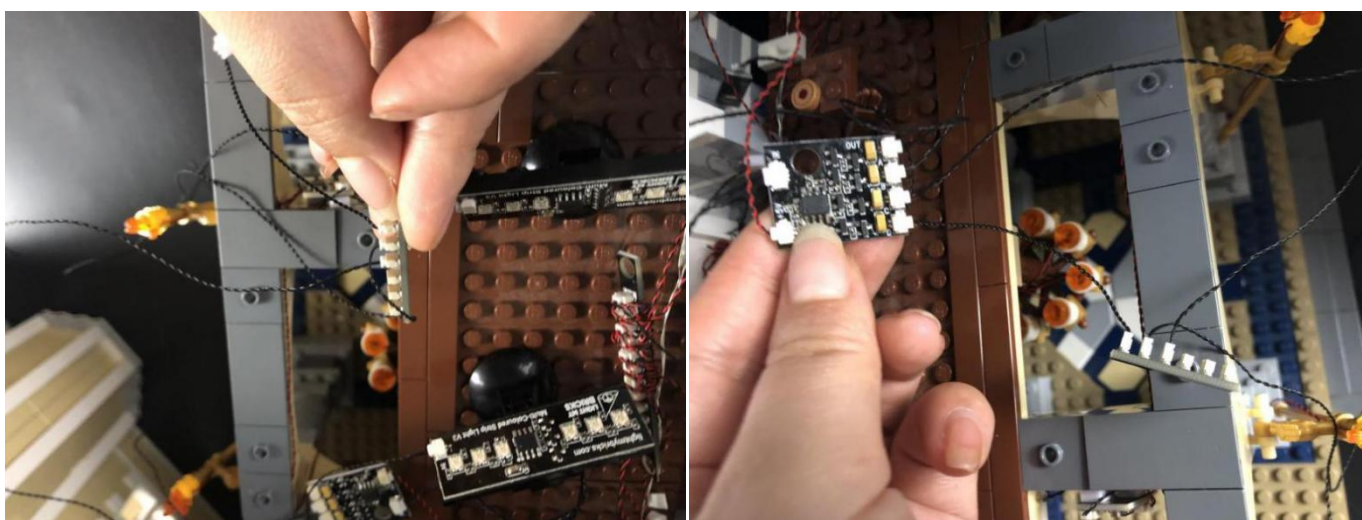
118



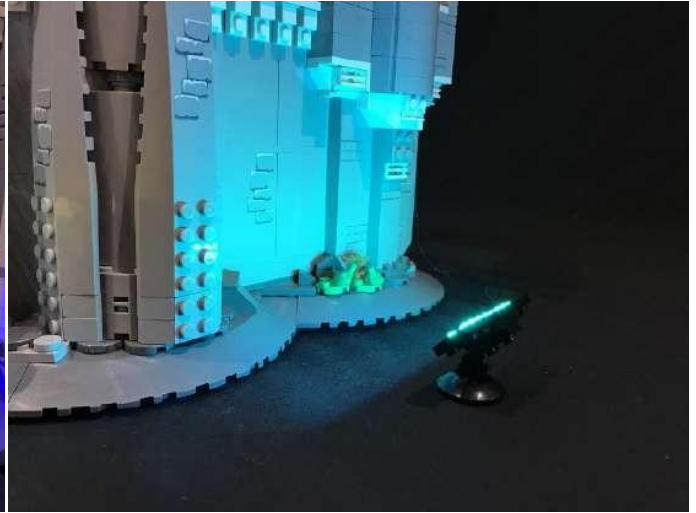
119. take a 5cm connecting cable, a 6-port expansion board and connect the 5cm connecting cable to the expansion board.



120. Connect the two 50cm connecting cables to the 6-port expansion board, connect the 5cm connecting cable from the expansion board to the Remote Control Switch Board.



121. Place the spotlights at both sides of the castle, adjust the angle to make sure they can light the wall.



122



123



124



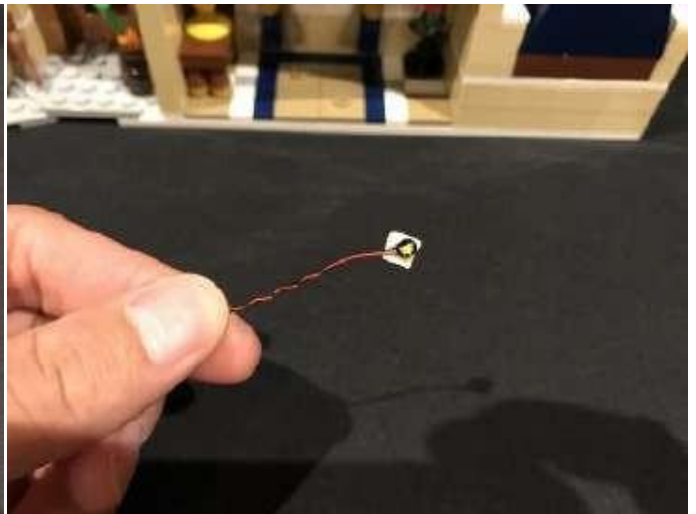
125



126



127



128



129



130



131



132



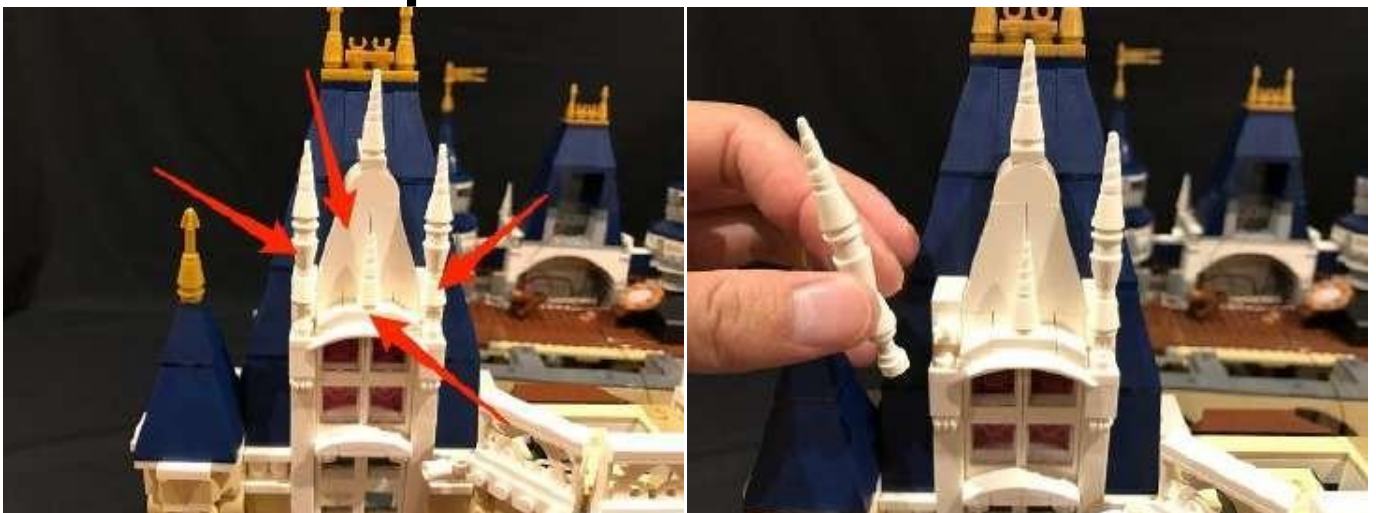
133.remove the following pieces.



134



135.remove the window and the pieces around it as per below.



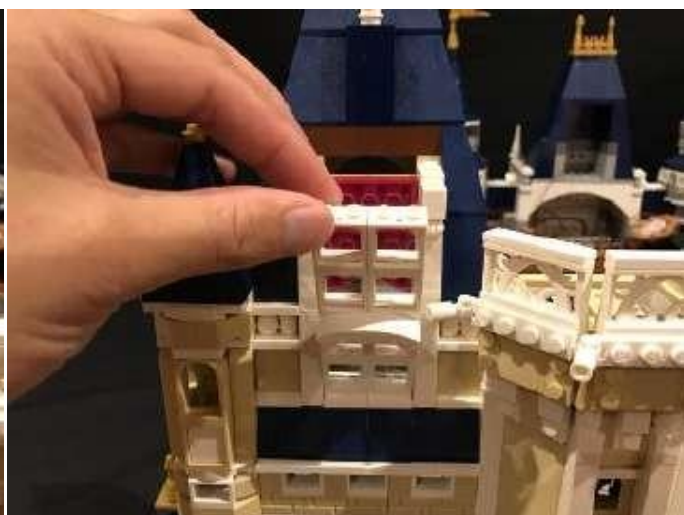
136



137



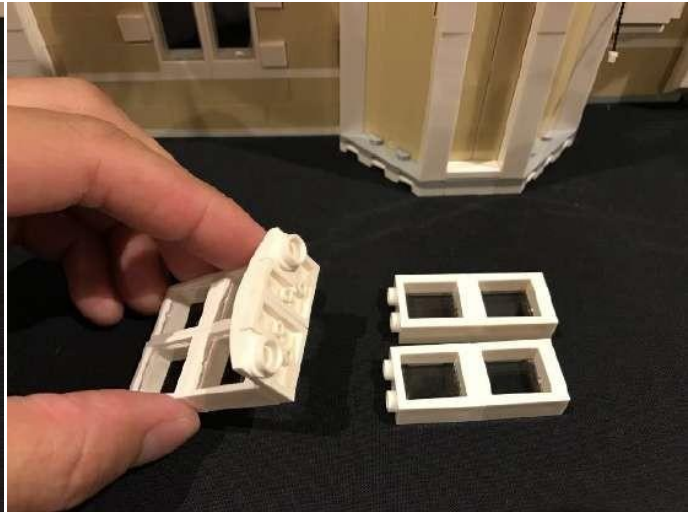
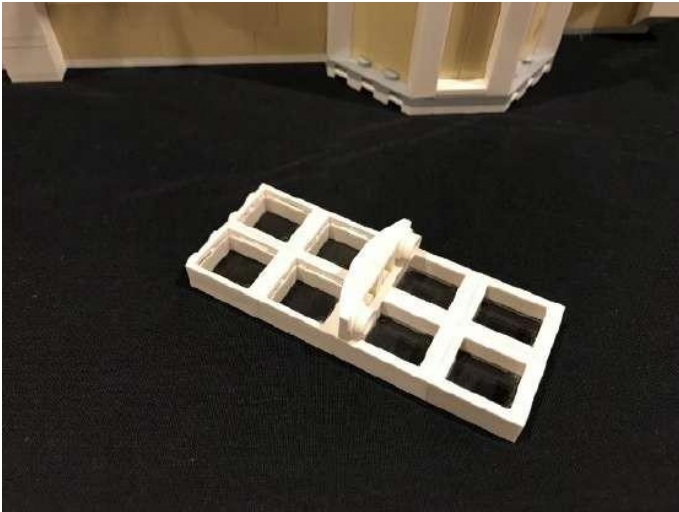
138



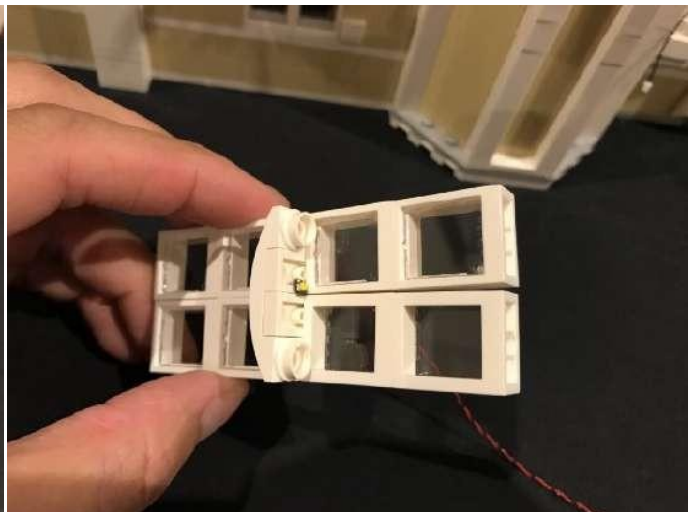
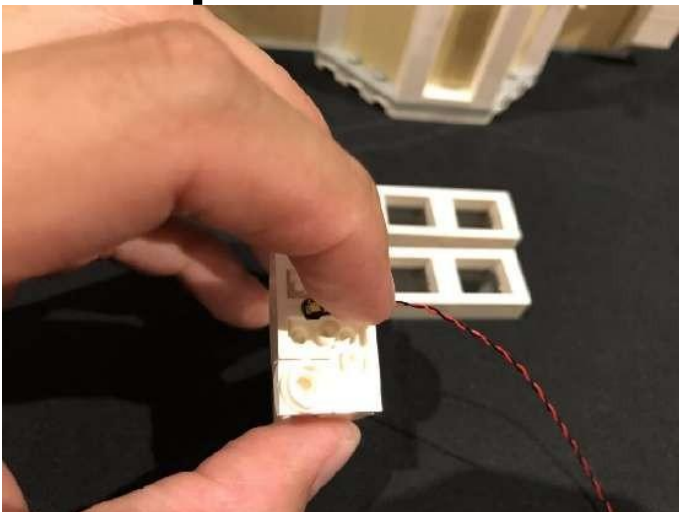
139



140



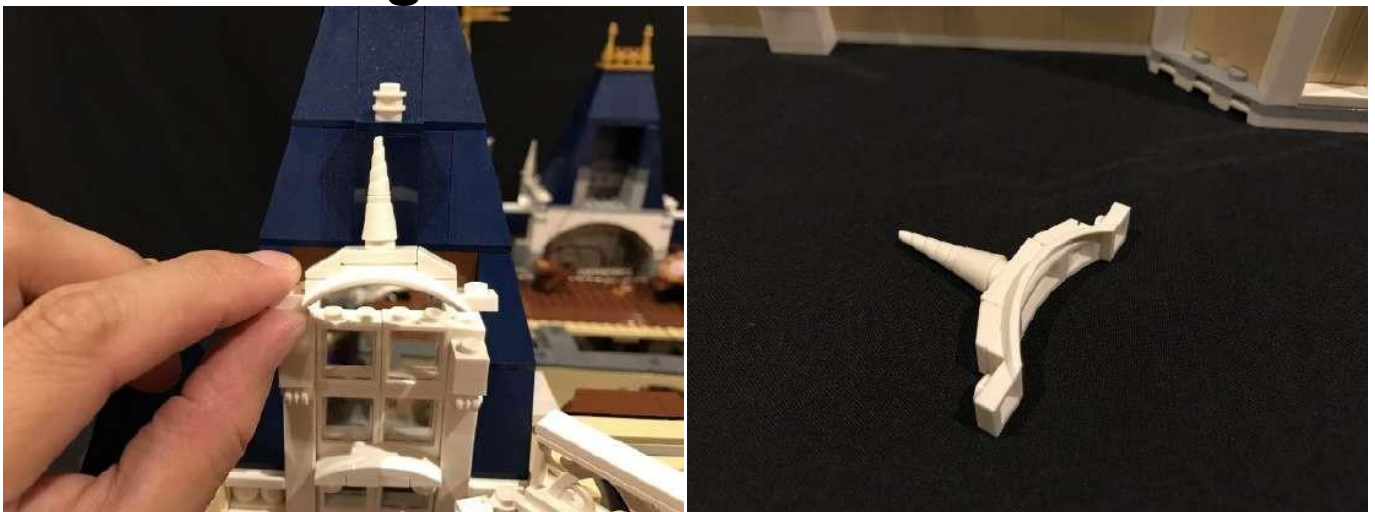
141. take a white 15cm dot light, with LED component facing down, connect it to the upper half of the window. Reconnect the other pieces of the window.



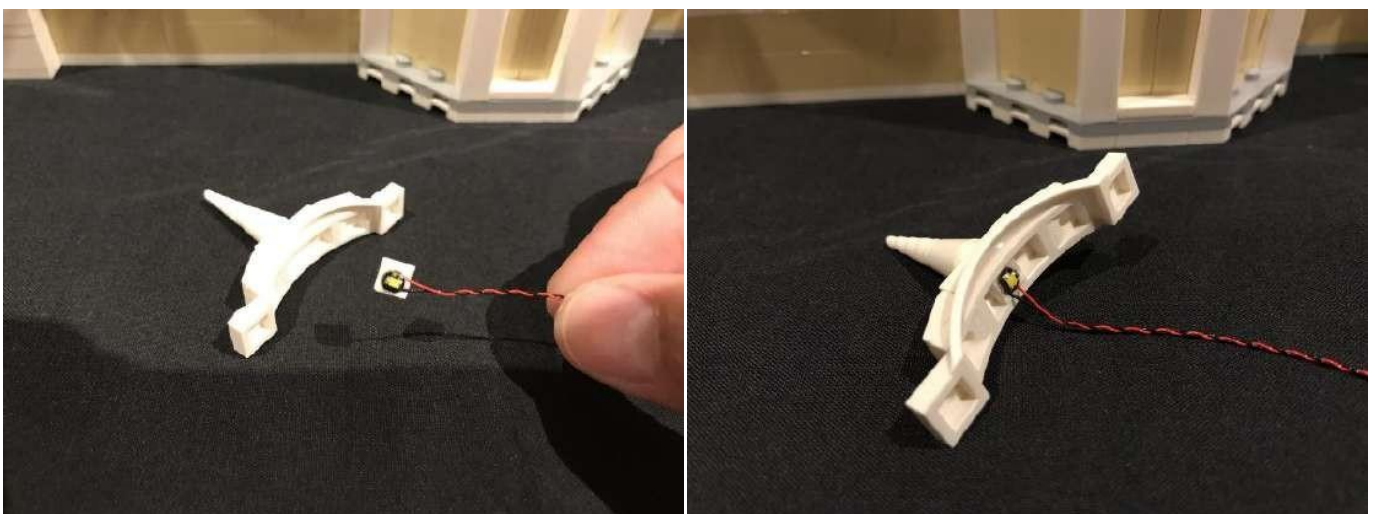
142. Thread the cable through the inside of the room before reconnecting the window.



143. connect another white 15cm dot light to the top part of the window before reconnecting it.



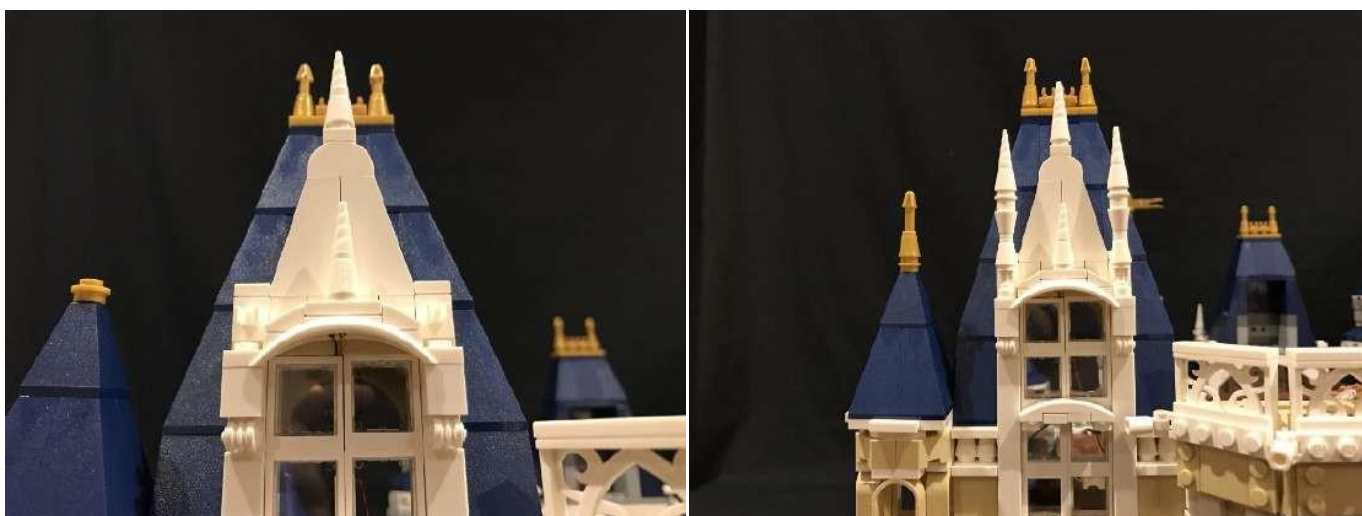
144



145. Thread the cable through the room before reconnecting the top part. Then, reconnect the other pieces we removed.



146



147. Connect the curtain over the cables as per below.



148.we'll now install the lights to the tower near the bedroom. Remove the roof and the following white bricks.



149



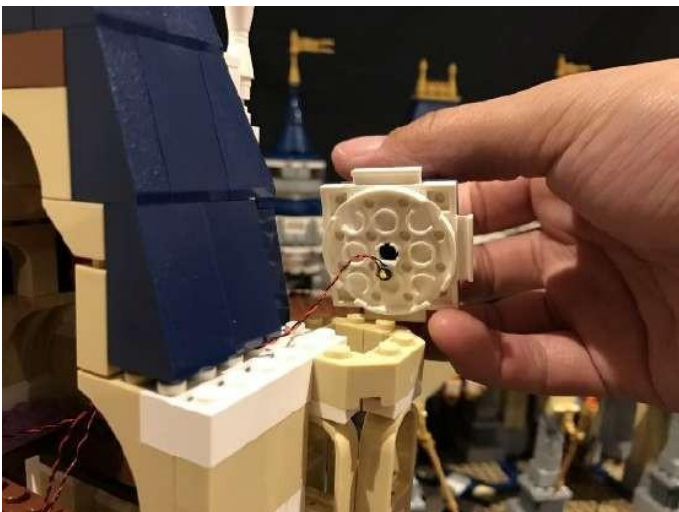
150.lift the following section to create a gap



151. take a white 15cm dot light, thread its connector down through to the bottom of the tower. Stick the LED component to the top as per below, reconnect the roof



152



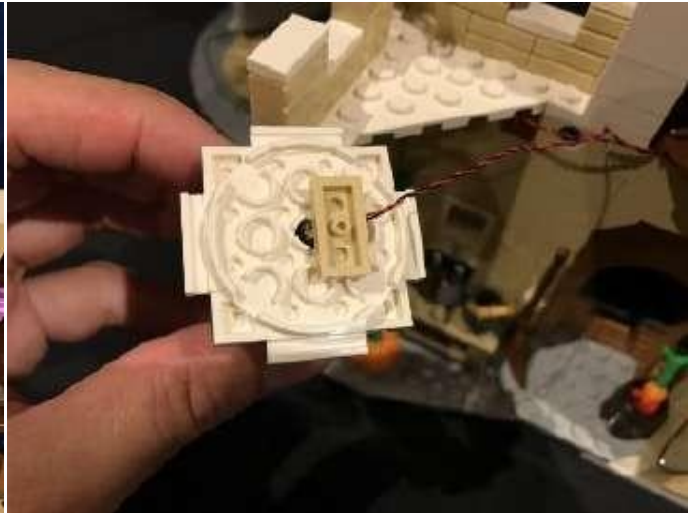
153. reconnect the white bricks



154.thread all 4 cables down through the space underneath, reconnect the 2 purple plates. Place the cables neatly



155.continue to install light for the tower at the left side. Remove the top of the tower, secure a white 30cm dot light to the center of the white round plate by connecting a 1x2 plate over. With lighting part facing down, pull the cable right ward, reconnect the roof



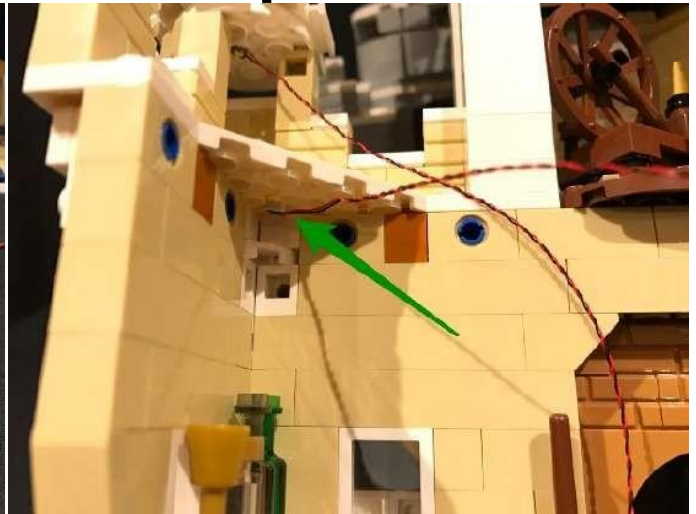
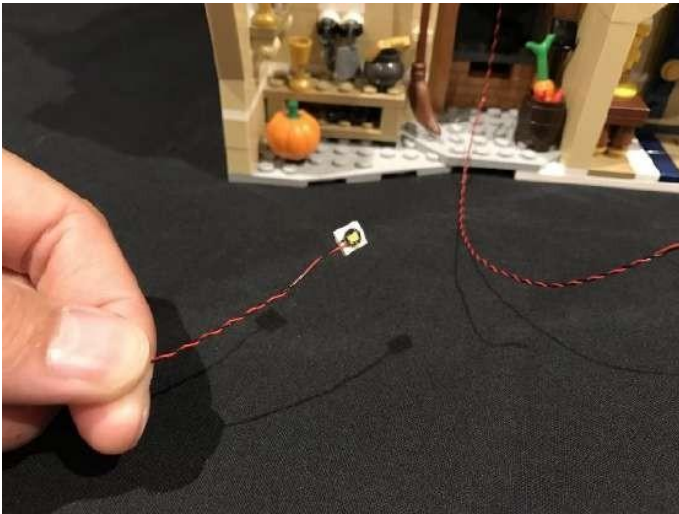
156



157



158. take another white 30cm dot light, stick it to the corner of the roof as per below



159. take the 2 following connecting cables, thread them pull them toward the right



160.remove the following pieces



161



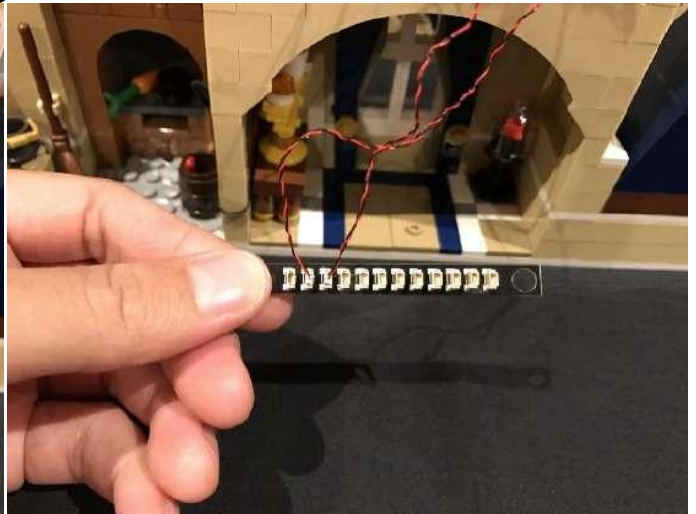
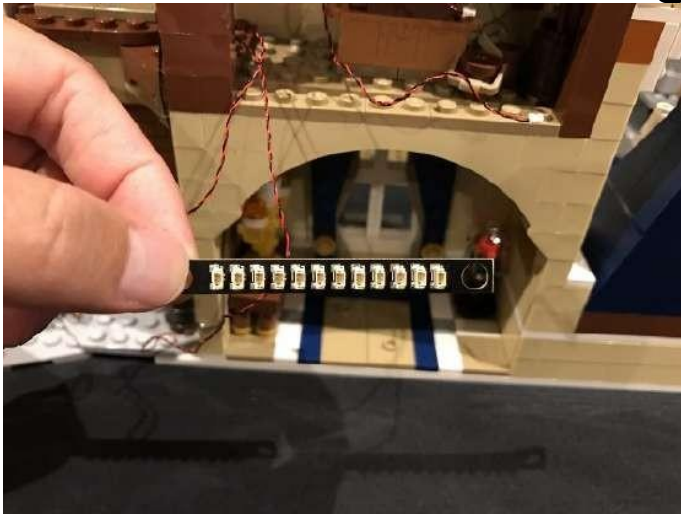
162.Place the 2 cables in between studs as per below, reconnect the brown plates to secure the cables in place, reconnect the other pieces



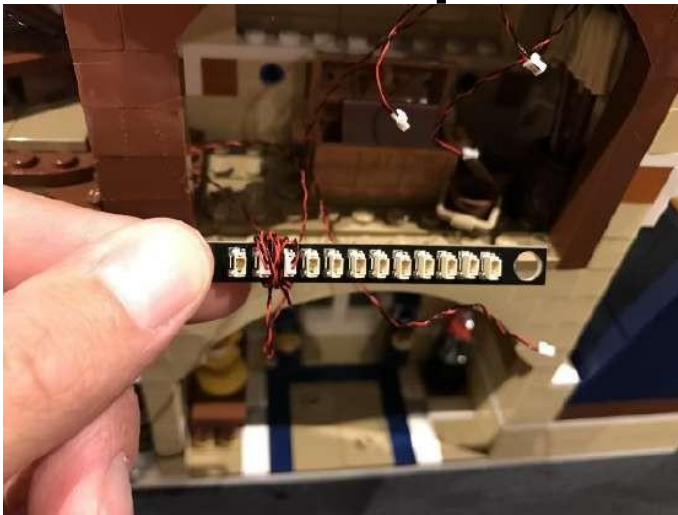
163



164. take another 12-port expansion board, connect the following cables to it



165.wind excess cables around the expansion board, connect the 30cm connecting cable over the bed to the next port, connect the 15cm connecting cables from the window and the tower at the right side to the expansion board



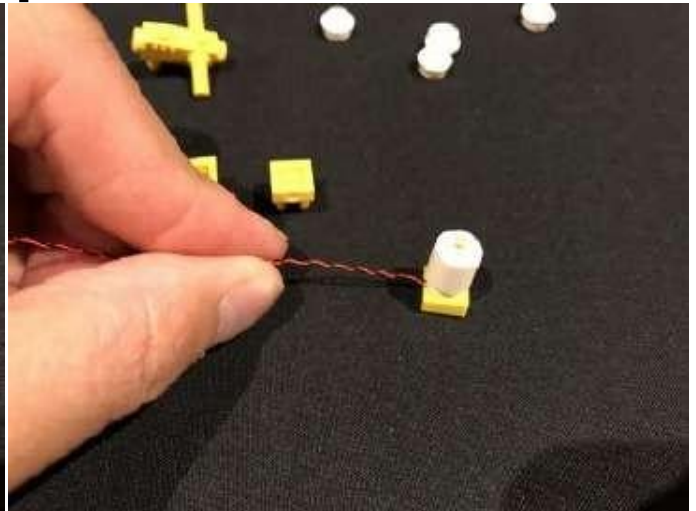
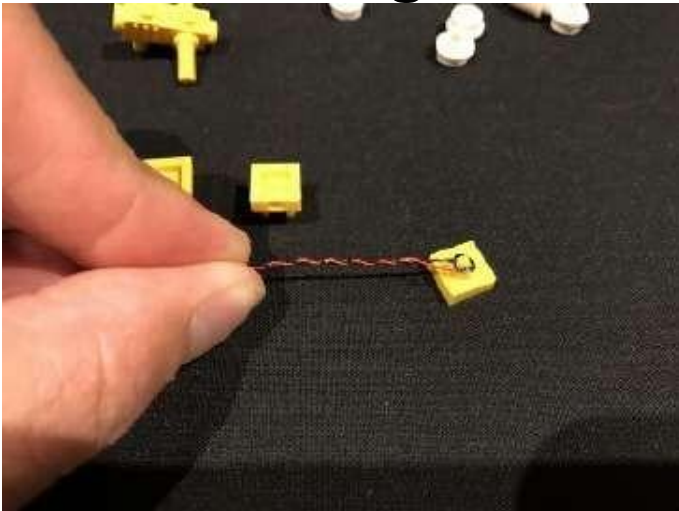
166.then, we'll install lights for the candle. Remove the candle with the table, disassemble the candle as per below



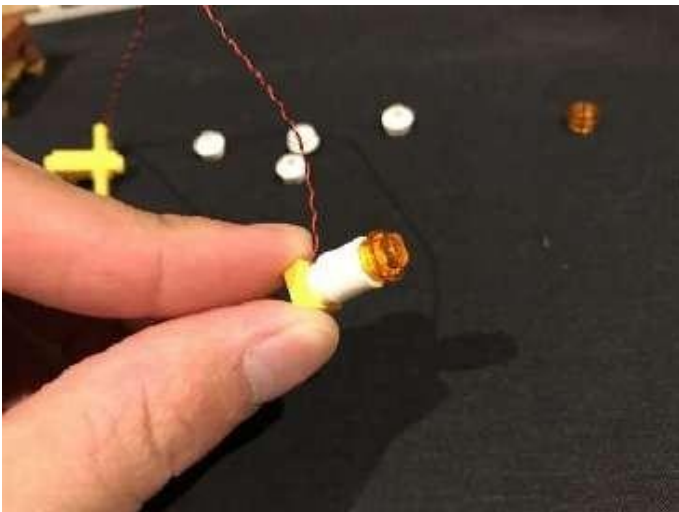
167



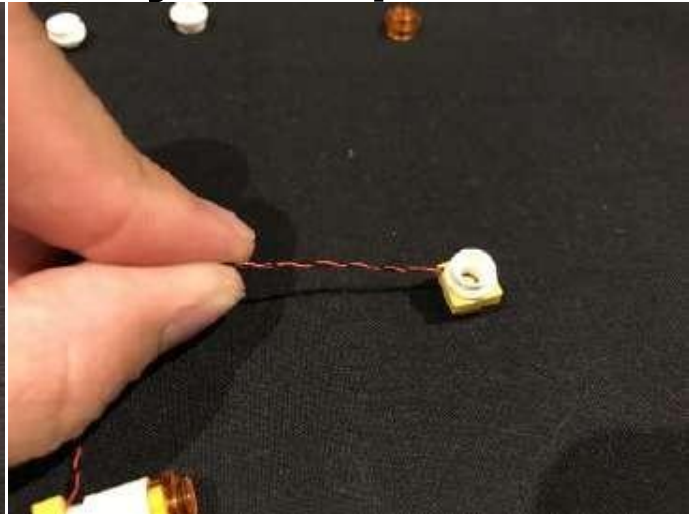
168. take a white 15cm dot light, with LED component facing up, place the light to the stud on the following board, secure it with a trans orange round plate



169



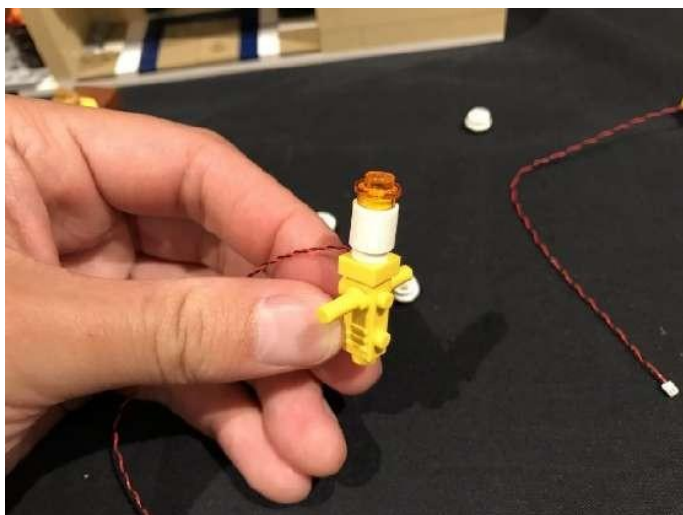
170. Take a 15cm white dot light, place it inside the yellow board with a clip. Connect a white round plate with hole over, connect another tans orange round plate over. Repeat the steps above to install a white 15cm dot light to another yellow plate



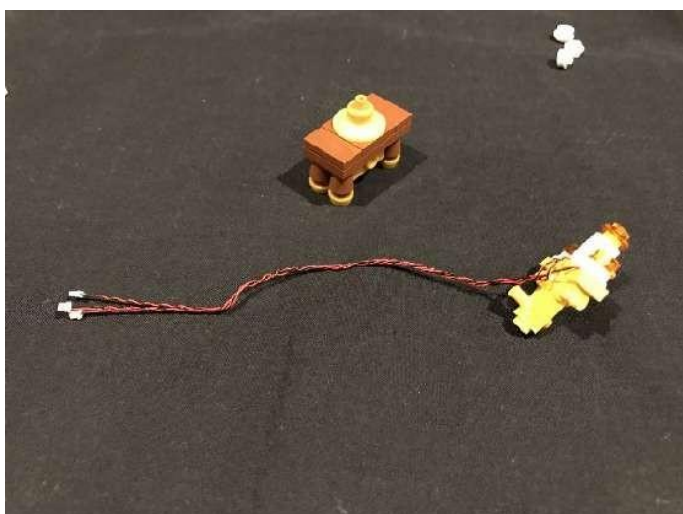
171



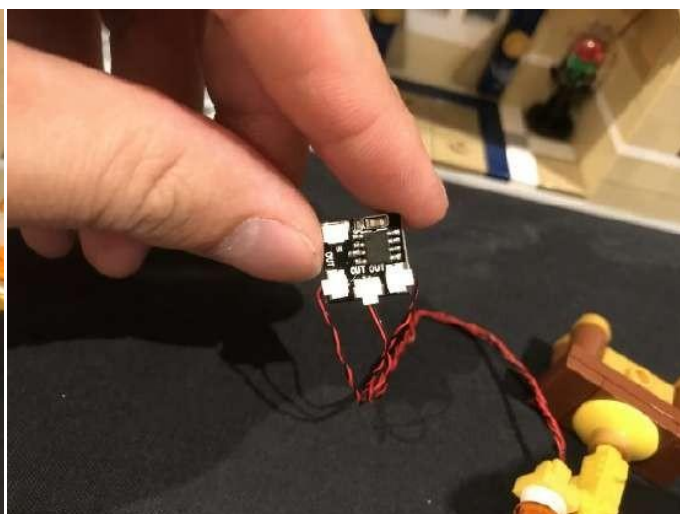
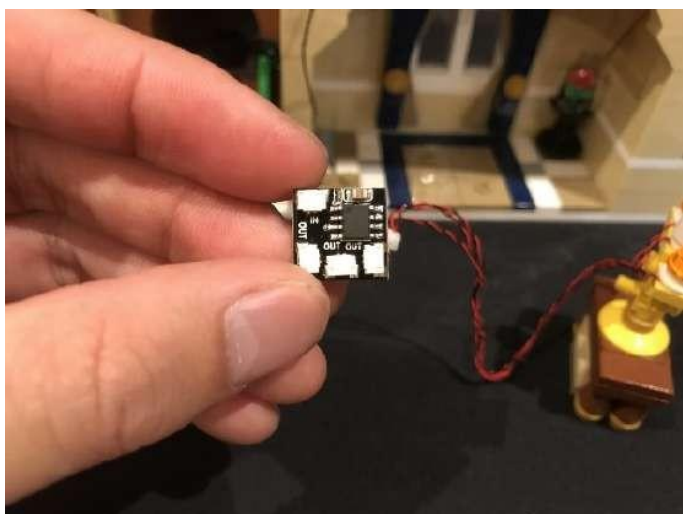
172.reconnect the candle, place the cables toward the back



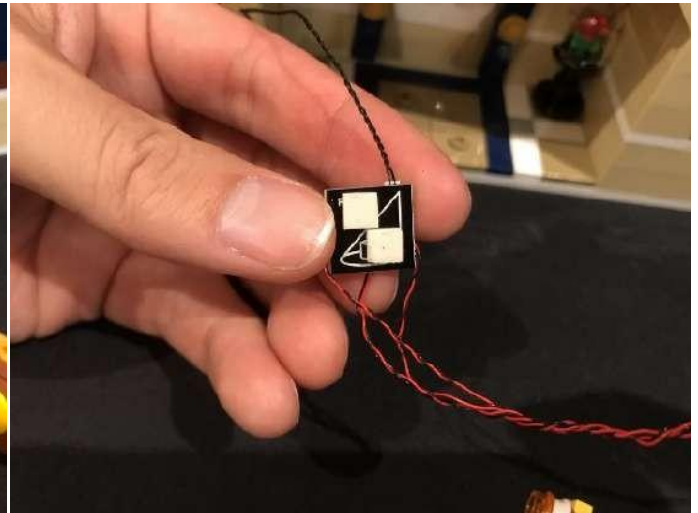
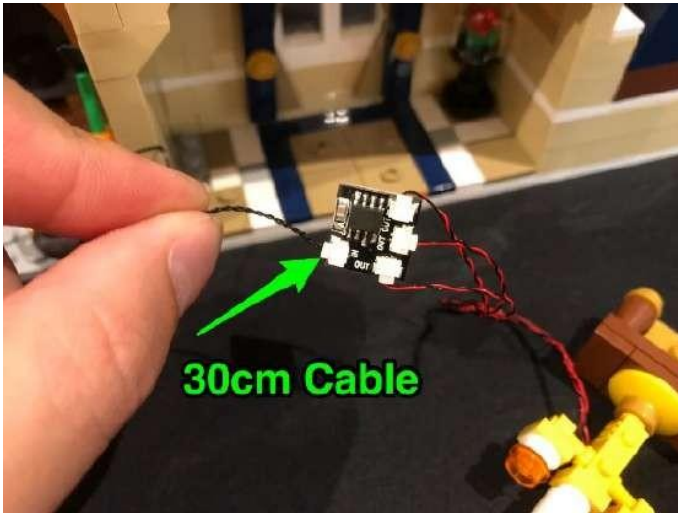
173.Group the 3 cables together, reconnect the candle back to the table



**174.connect the cables to the output ports
Flicker Effects Board**



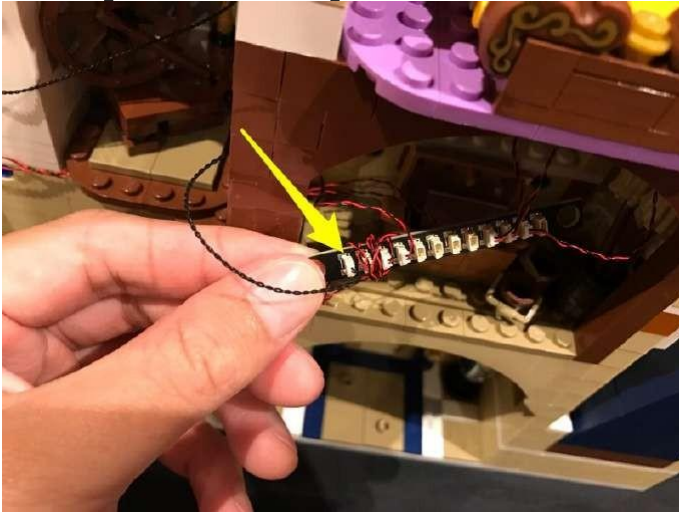
175. take a 30cm connecting cable, connect it to a input port on the Flicker Effects Board, stick 2 adhesive squares to the back of the Flicker Effects Boards.



176. stick the Flicker Effects Board to the following place, tuck excess cables, reconnect the table.



177. connect the other end of the 30cm connecting cable to the far left port on the 12-port expansion board at the room above.



178. continue to install light for the flower, remove the following piece. Disconnect the trans piece and the red piece.



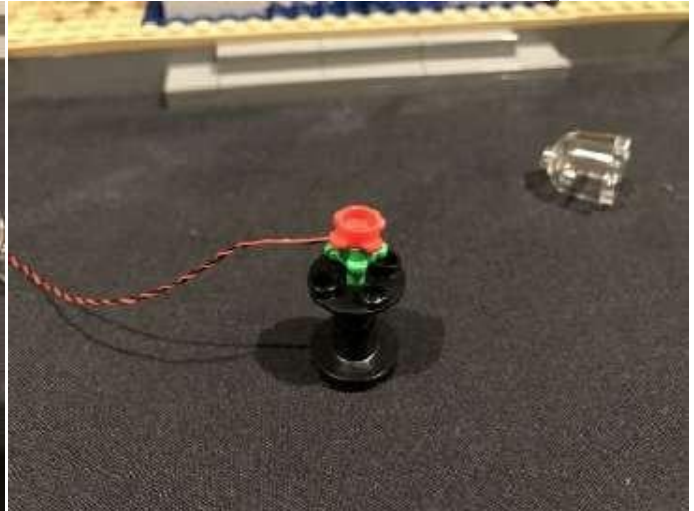
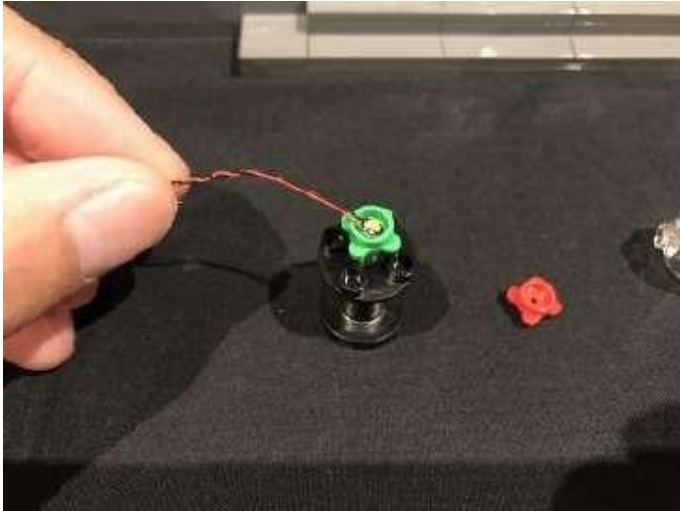
179



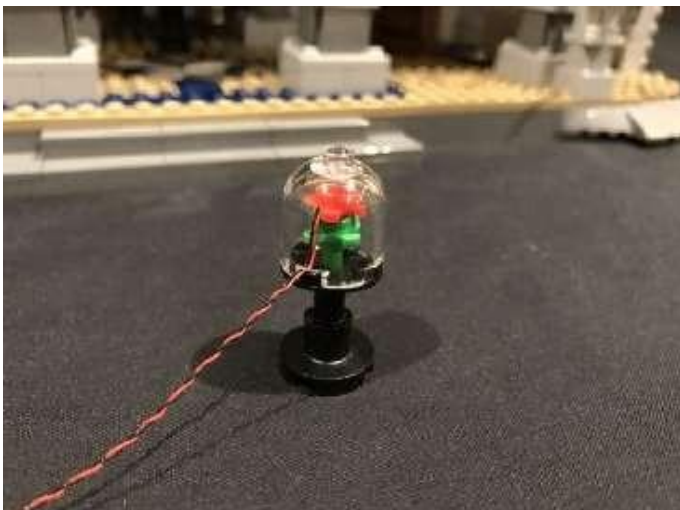
180. Take the following green flower piece, connect it to the following place.



181. take a white 30cm dot light, with LED component facing up, connect it to the middle of the green flower, reconnect the red flower over it, reconnect the trans piece.



182



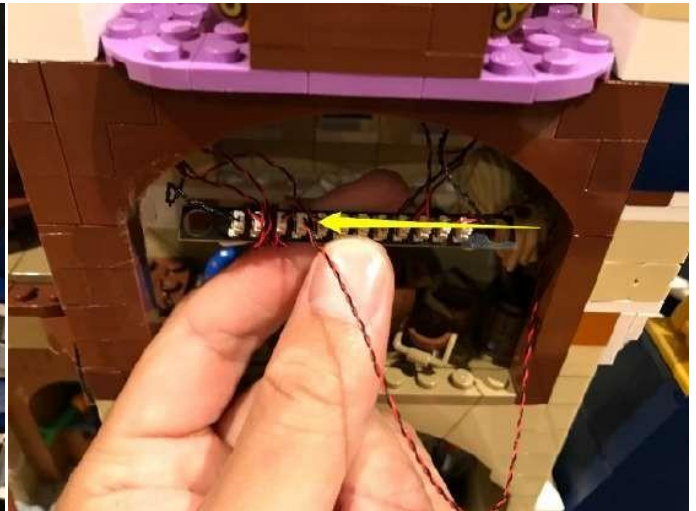
183



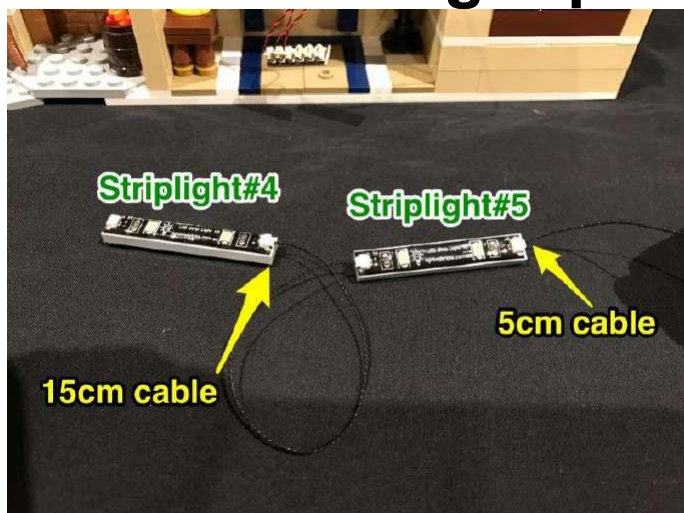
184.thread the cable through the window before reconnect the table.



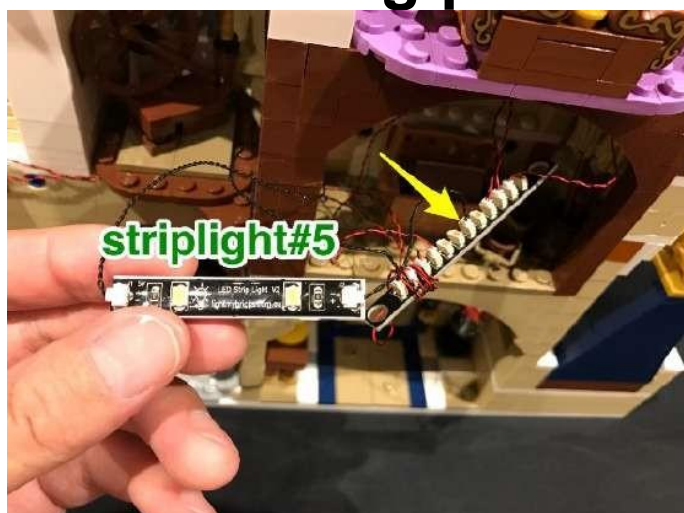
185.pull the cable up, thread it through the window, connect it to the 12-port expansion board.



186. take 2 strip lights, a 15cm connecting cable, a 5cm connecting cable. Connect the 2 strip lights (striplight#4 and striplight#5) together by using the 15cm connecting cable. Separately stick the 2 strip lights to two 1x6 plate, connect the 5cm connecting cable to the right port of the striplight#5



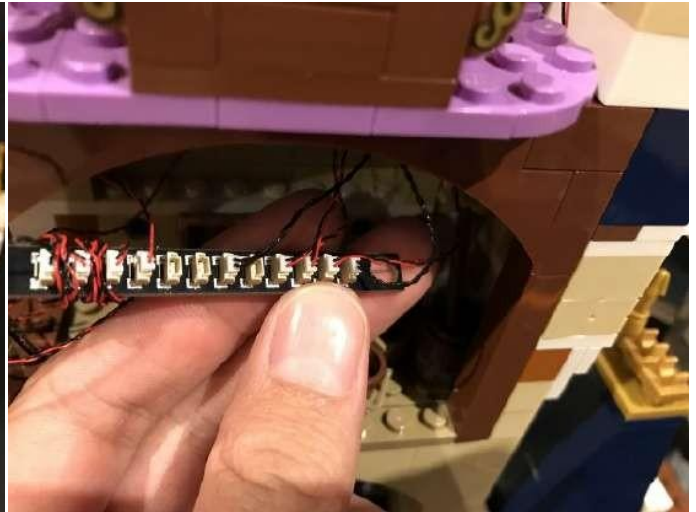
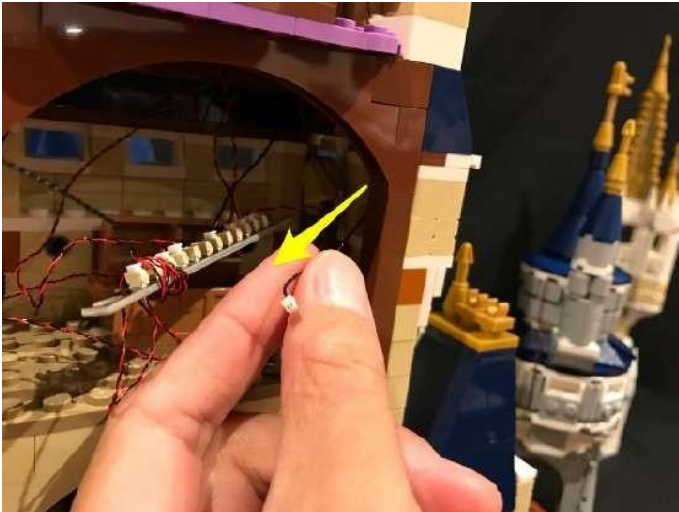
187. Connect the 5cm connecting cable from the striplight#5 to the 12-port expansion board. Connect the strip light to the following place.



188. take the middle section of the castle, connect it to the bottom section as per below. Connect the other end of the 30cm connecting cable from the Remote Control Switch Board to the 12 port expansion board.



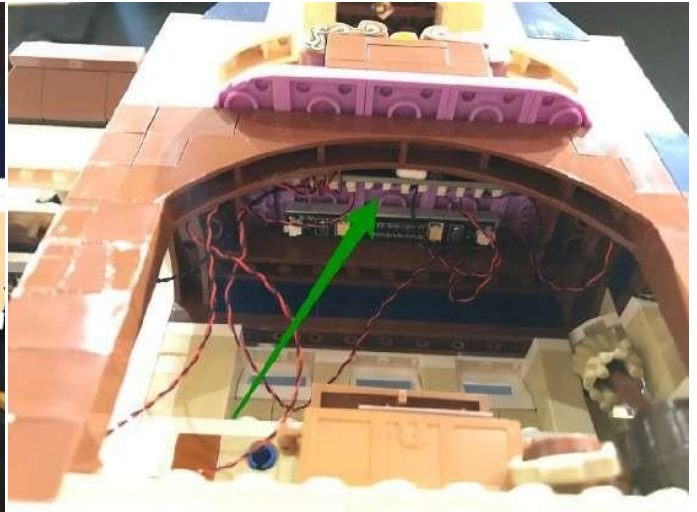
189



190. This completes installation for the middle section of the castle, turn the power on to verify the current.



191. take 2 adhesive squares, stick them to the back of the 12-port expansion board, stick the expansion board to the following place.



192



193.tuck excess cables inside the room.



194



195



196 move onto installing lights for the castle. Remove the roof and the mirror.



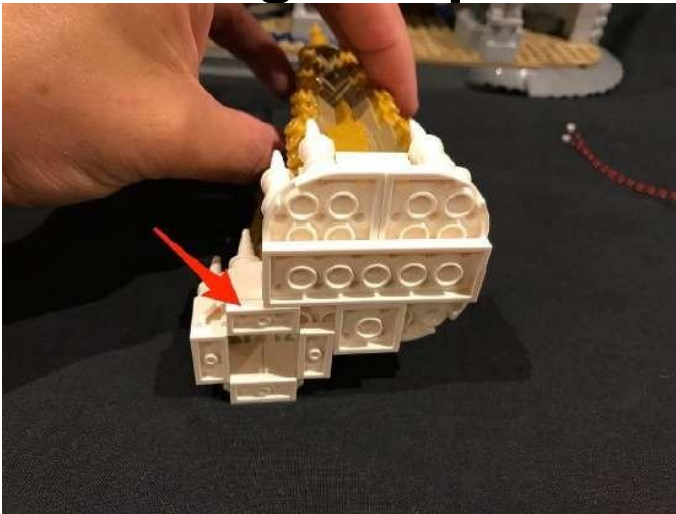
197



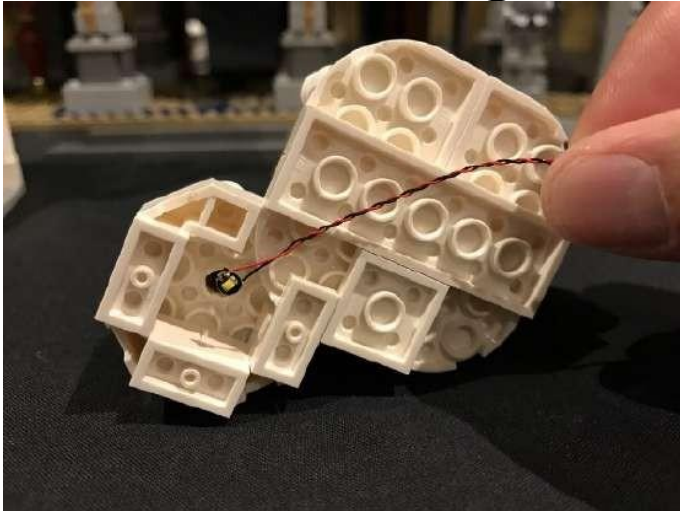
198



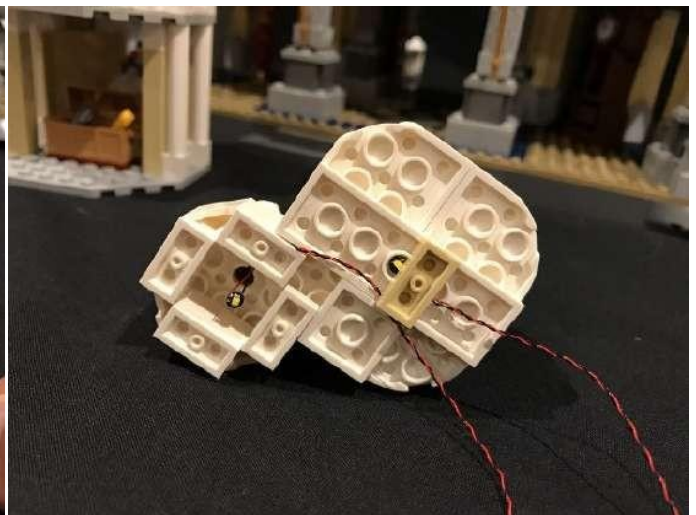
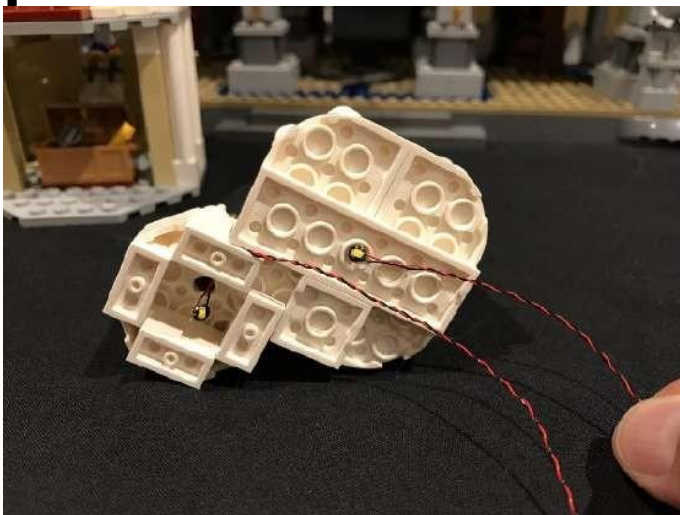
199. remove the roof, disconnect the following 1x2 plate 1x2.



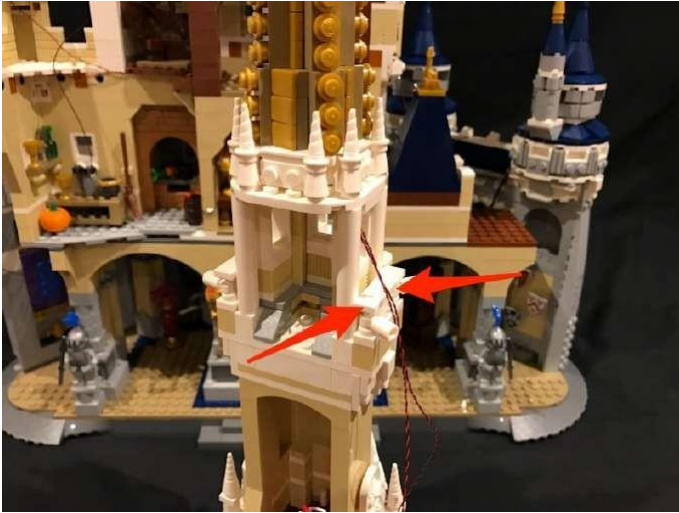
200. Take a white 30cm dot light, with lighting part facing down, place it to the middle of the roof, reconnect the 1x2 plate to secure the light.



201. take a white 30cm dot light, connect it to the following place, with lighting part facing down, secure it in place with a 1x2 plate.



202



203. Reconnect the roof, remove the following pieces.

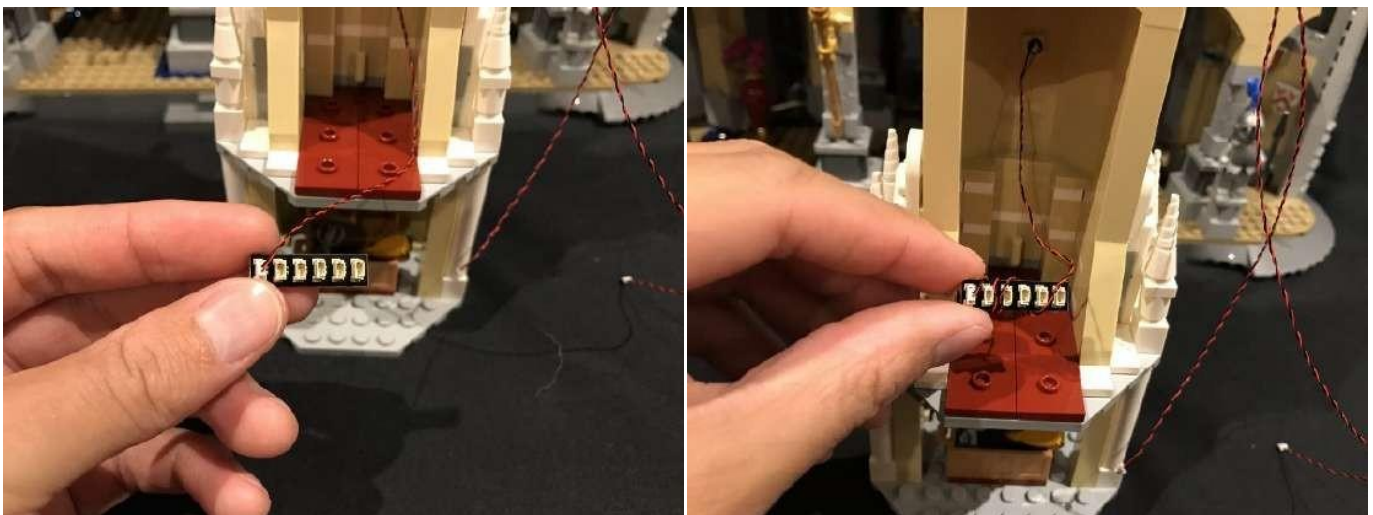
Remove the following 1x1 brick, place the 2 cables underneath, reconnect the brick.



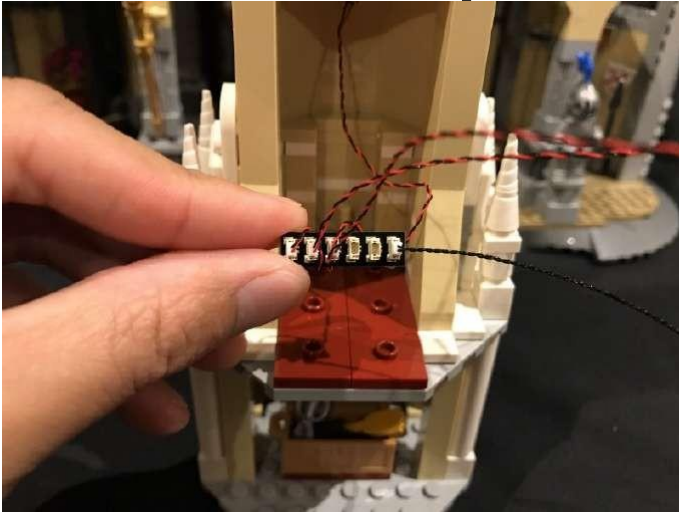
204. take a white 15cm dot light, stick an adhesive square to it, stick it to the wall as per below.



205. take a 6-port expansion board, connect the cables to it. Wind excess cables around it.



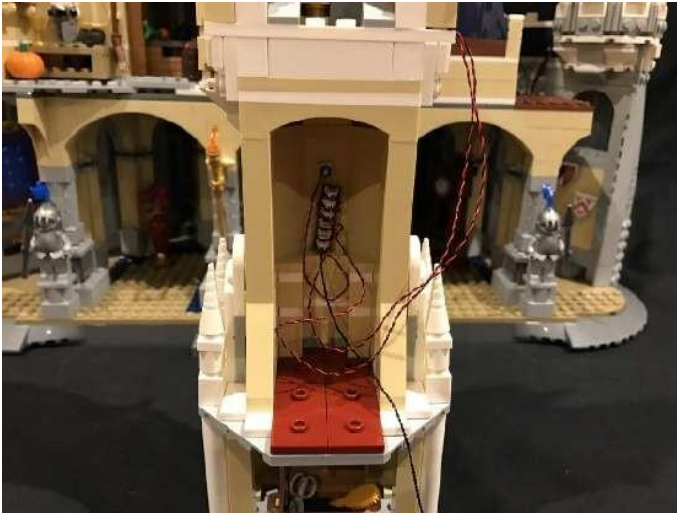
206. Take the 2 cables from the lights above, take a 15cm connecting cable, connect them to the expansion board.



207. stick the expansion board to the following place on the wall by using 2 adhesive squares.



208. Tuck excess cable at the back, reconnect the mirror.



209



210. Secure the cables at the wall by using the tapes.



211.thread the following 15cm connecting cable through the window at the right side as per blow.



212



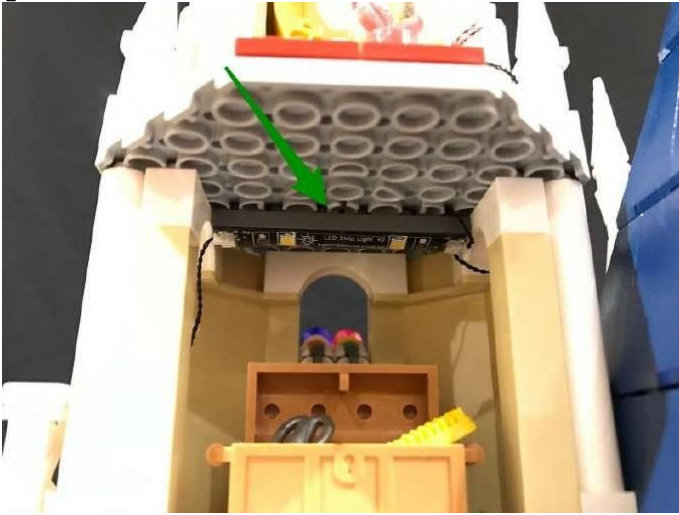
213. take the last strip light (striplight#6), stick it to a 1x6 plate, connect the other end of the above 15cm connecting cable to its right port. reconnect the roof back to the castle.



214. Take a 50cm connecting cable, connect it to the left port of the stoplight#6.



215. Place the striplight#6 to the following place.



216. hide the cables as per below, secure the cables in place by using the adhesive squares.



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

