

21108 Ghostbusters Ecto-1 P61

- P61 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 “21108 P61”.
- 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 6 bags in this set. The name and quantities of specific components are as shown , please check carefully.

Label	Content	Quantity
Expansion Board	12 Socket Expansion Board	2
Flat Battery Pack	Flat Battery Pack	1
Connecting Cables-5CM	Connecting Cables-5CM	1
Bit Lights-30CM-Warm White	Bit Lights-30CM-Warm White	9
Flashing Bit Lights-30CM-Warm White	Flashing Bit Lights-30CM-Warm White	9
Parts package		

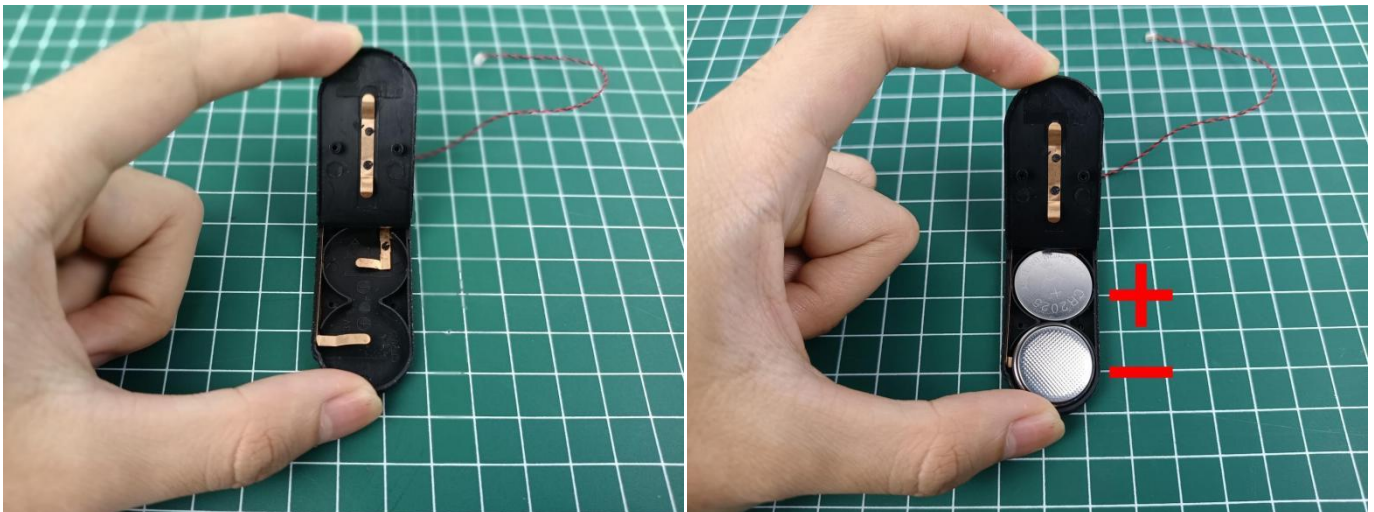
Please contact us immediately if there have any missing components.

Section B: Test that each components is working properly.

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

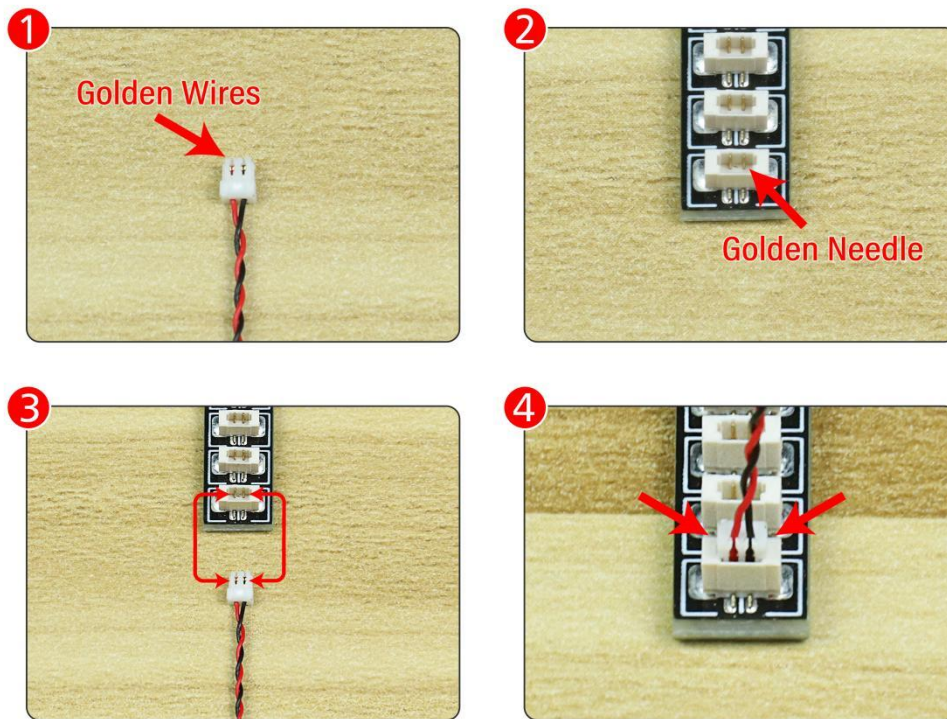


The flat battery pack does not contain batteries, please buy a 2025 or 2032 button battery in the nearest store and install it in the flat battery pack.



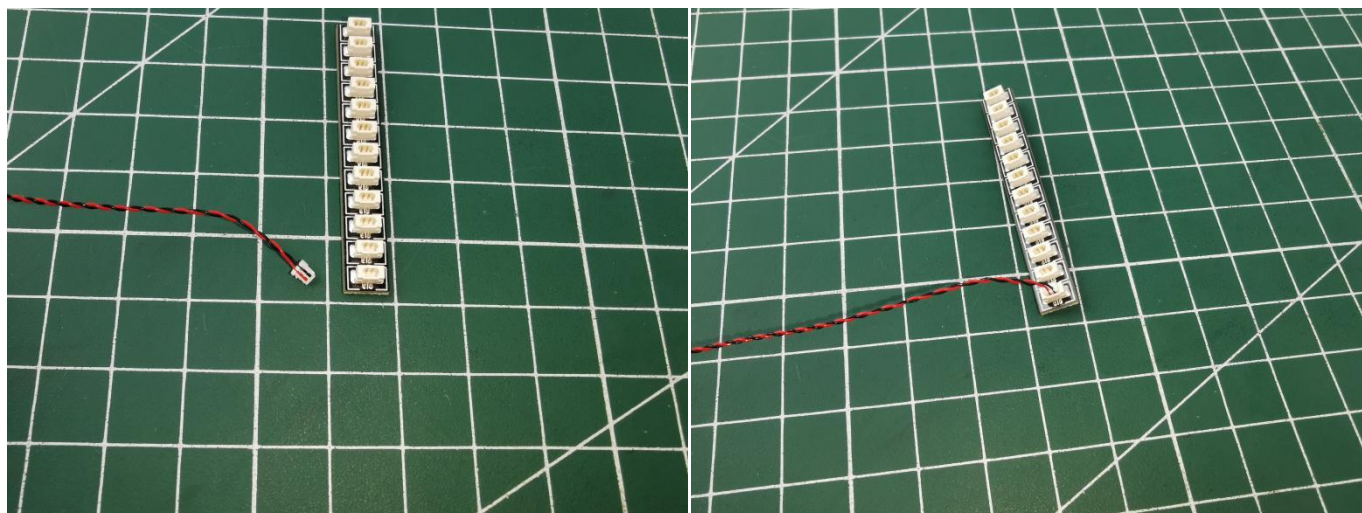
It is worth reminding that our products are all customized. They have a unique way of connecting. The white plug on wire and the socket of the expansion board need to be connected together to transmit power.

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.

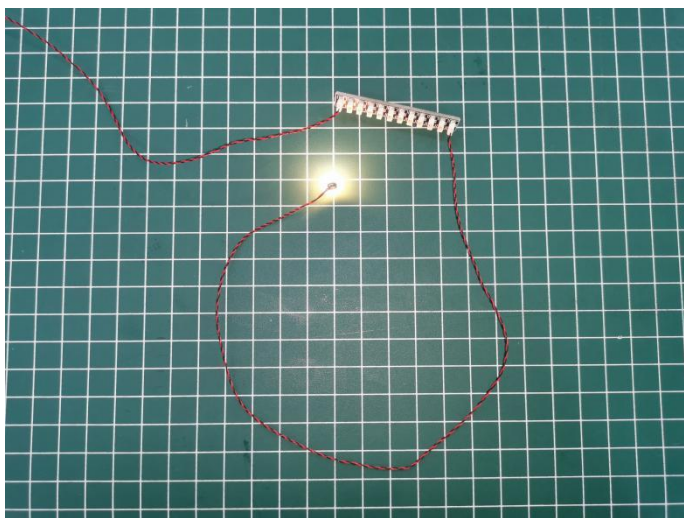


All our connections between plug and socket are all the same as shown above. So for any such structure with plug and socket, please pay attention to the golden wire of the plug and the golden needle of the socket, they must be touched together.

The connection method between the Flat Battery Pack 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 flat battery pack, 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 8*Bit Lights-30CM-Warm White,9*Flashing Bit Lights-30CM-Warm White.

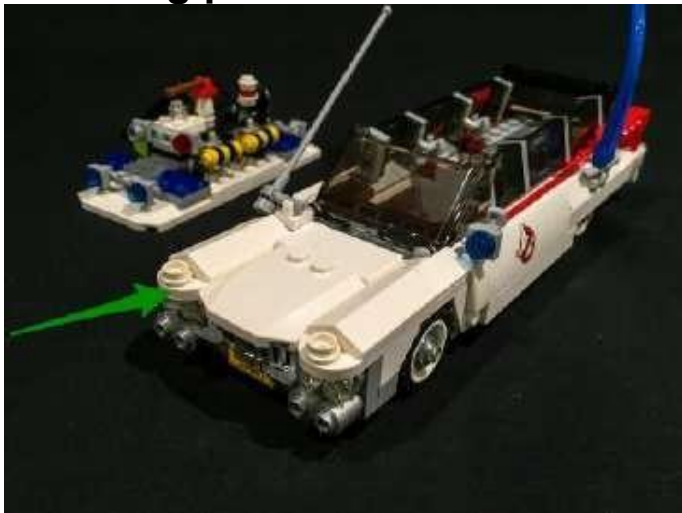
Please contact us immediately if any components don't work.

Section C: laying out components following the instruction.

1. Let's start by removing the roof of the car.



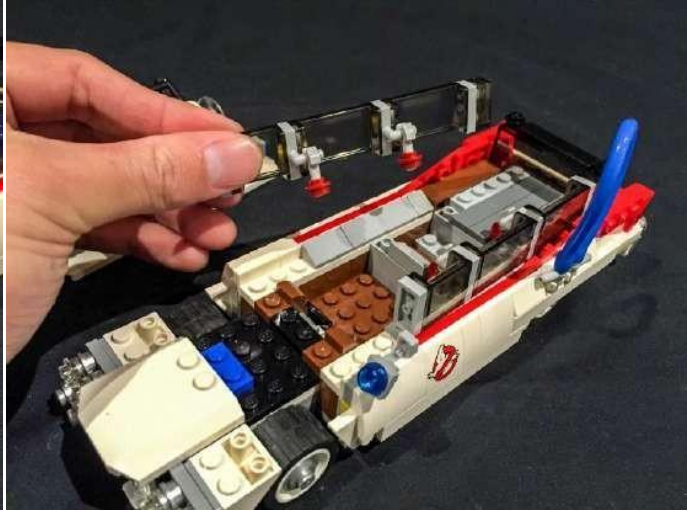
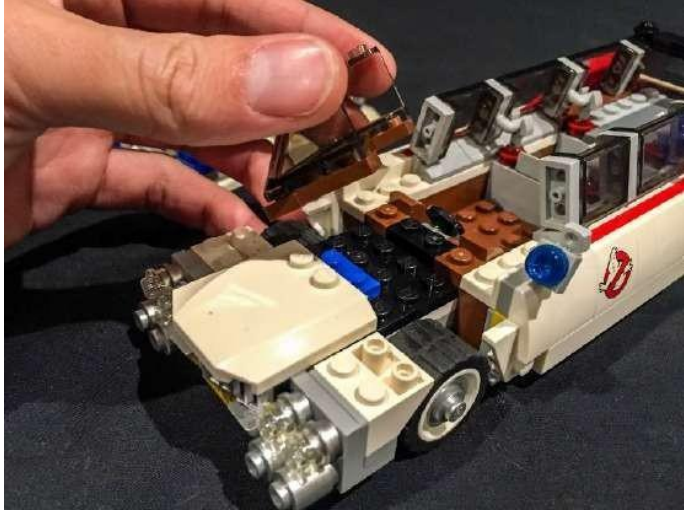
2. We will be installing lights to the headlights first. To do this, remove the following pieces from the front of the car.



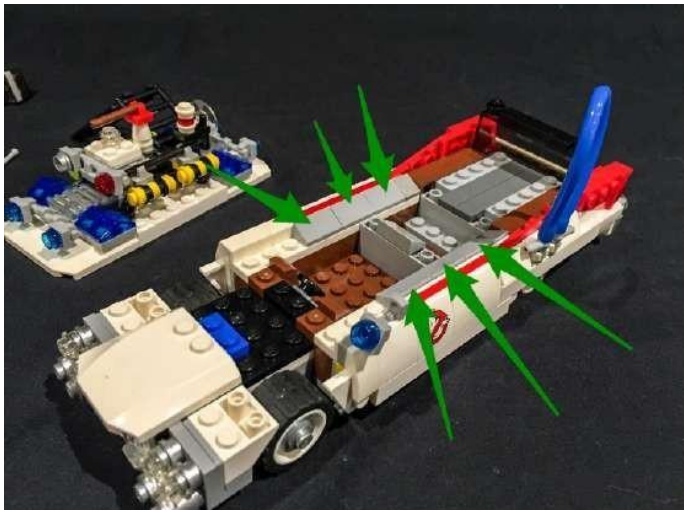
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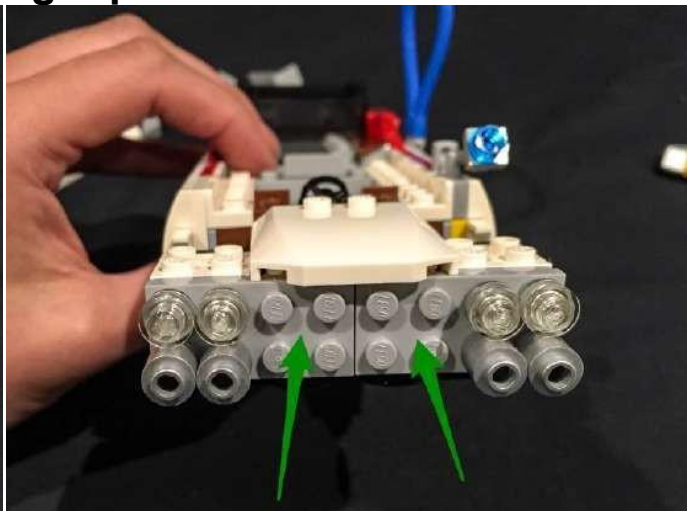
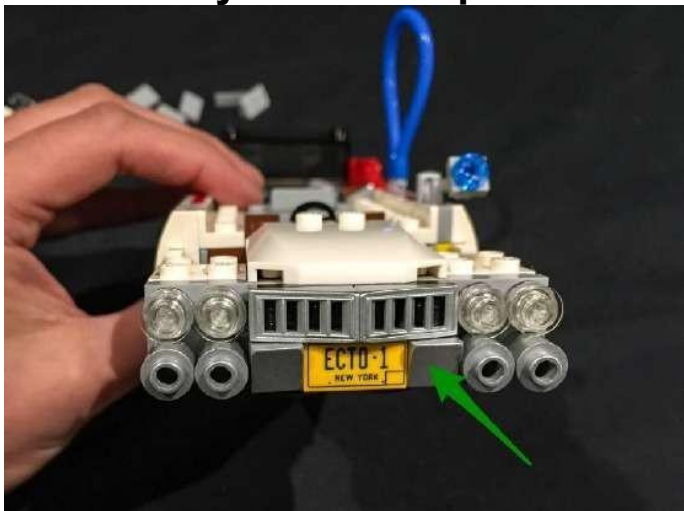
4. Continue to remove the following pieces which make up the windscreen, side windows, and grey triangular tiles from the sides of the car.



5



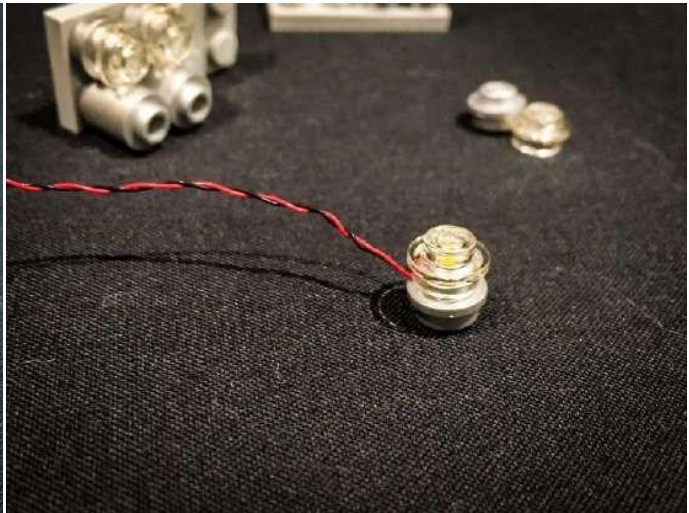
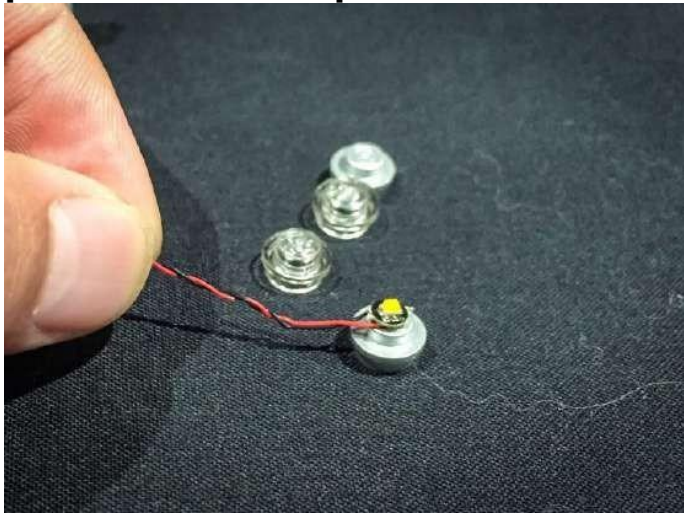
6. Remove the front section with the grill and number plate attached, followed by the 2 2x4 plates with light pieces attached.



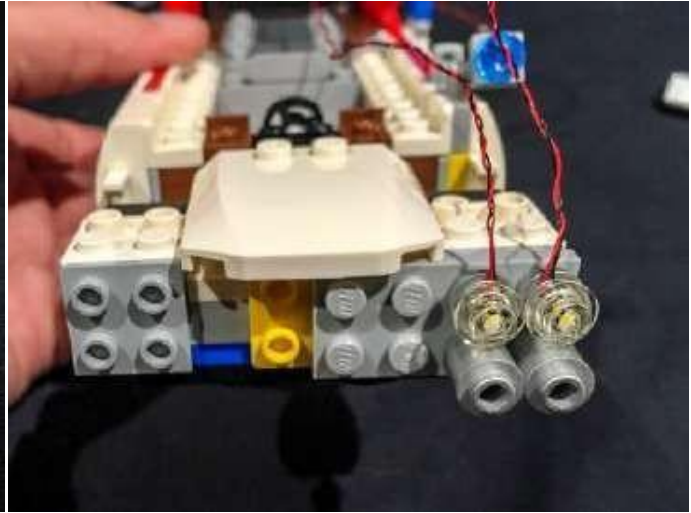
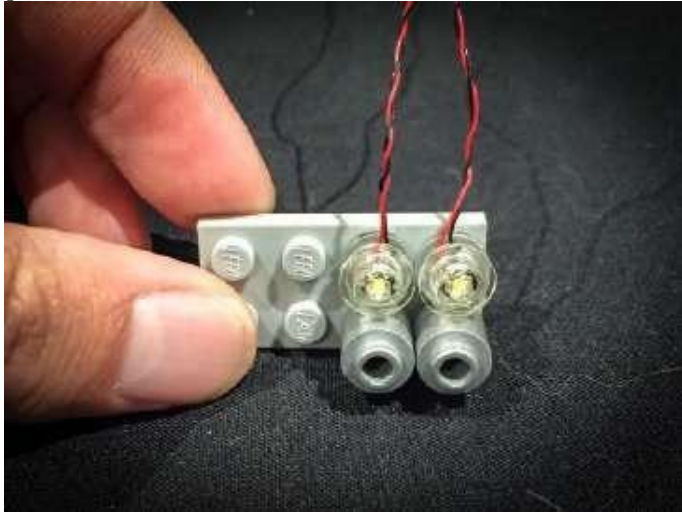
7. Remove the 2 grey round pieces as well as the transparent round pieces connected to them.



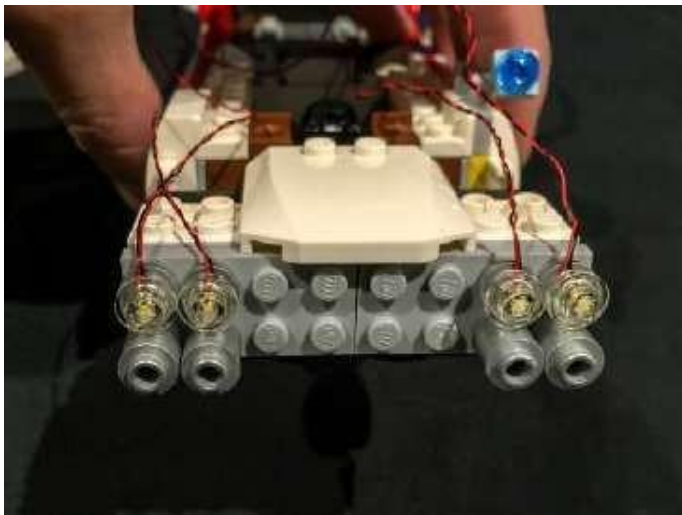
8. Take 1 standard Dot Light (non kashing) and place it on top of the stud of the grey round plate ensuring the LED component part is facing the correct way up. Secure the LED in place by connecting the transparent plate over the top.



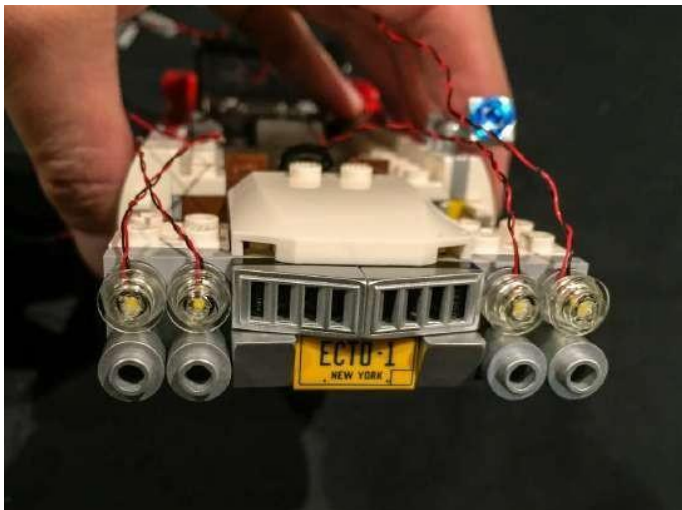
9. Install the remaining LEDs to all front headlights (2 on each side) using the above process so that we have a total of 4 standard Dot Lights installed. Reconnect the light pieces back to the 2 2x4 plates ensuring that the cables from the LEDs are facing upward and then reconnect the plates back to the front of the car.



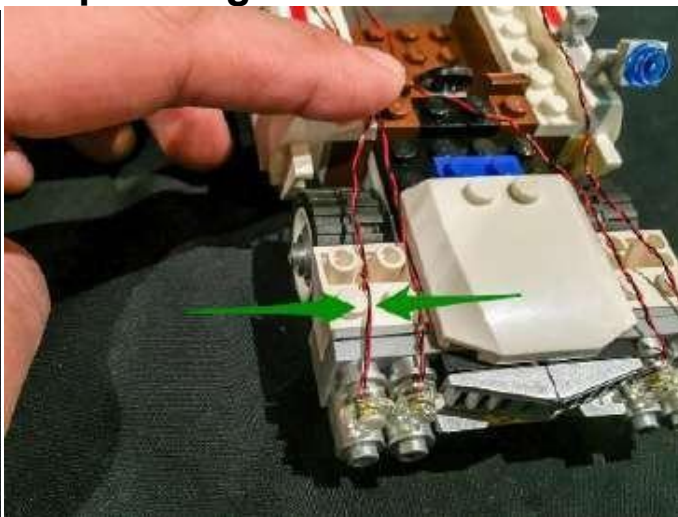
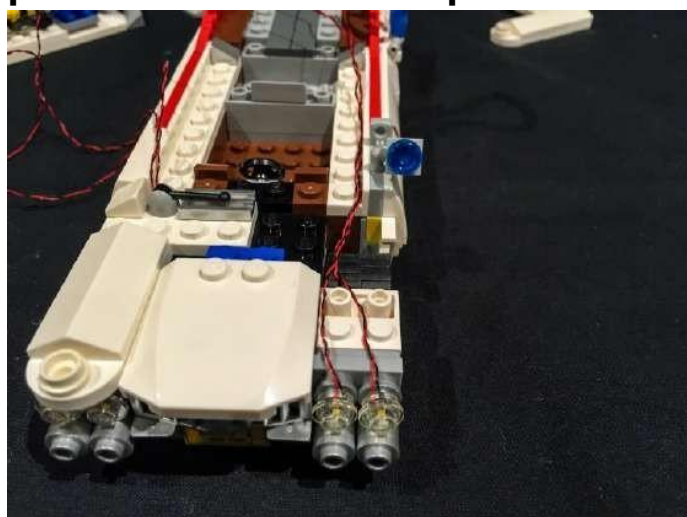
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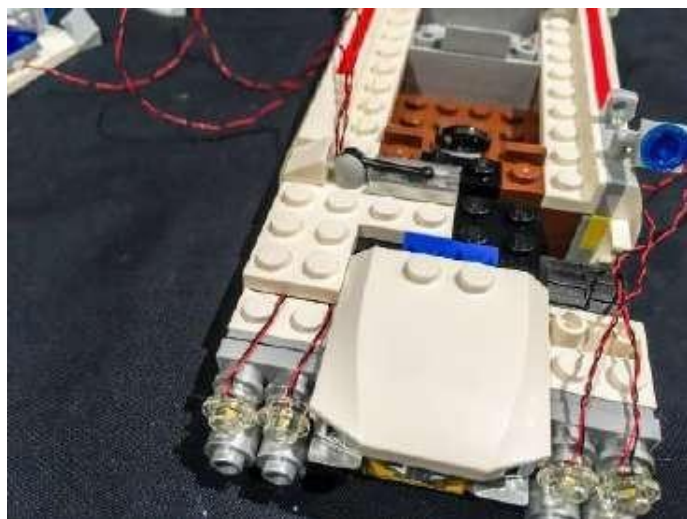
11. Reconnect the front middle section with the grill and number plate attached.



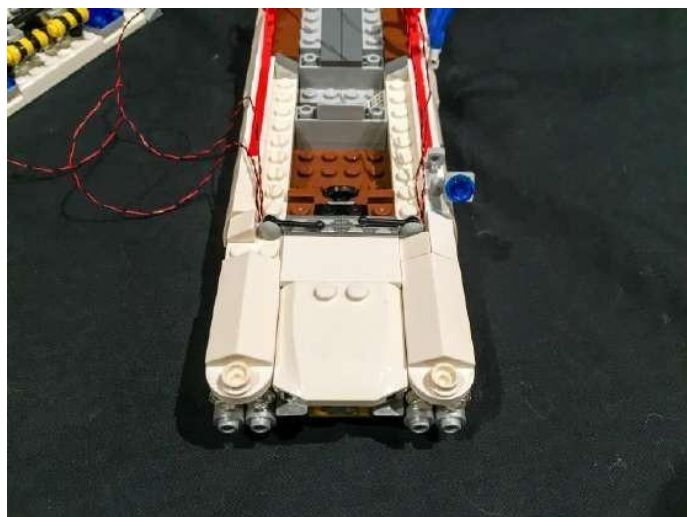
12. Before reconnecting the white pieces which make up the front bonnet, ensure that the cables from the LEDs are laid in between the studs of the plates underneath as per below example images.



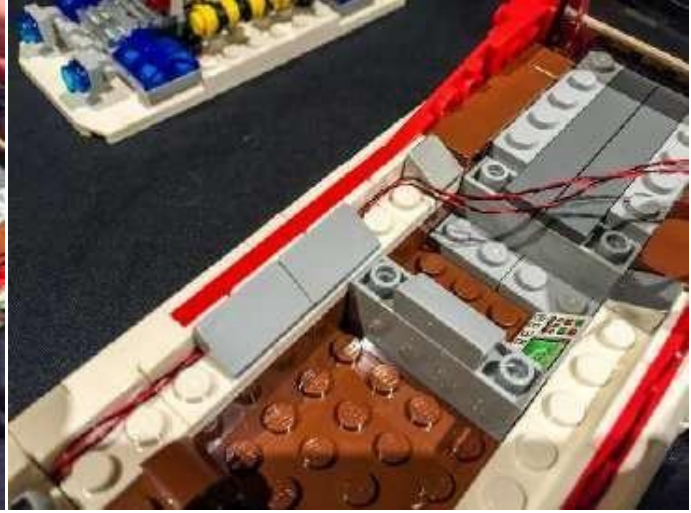
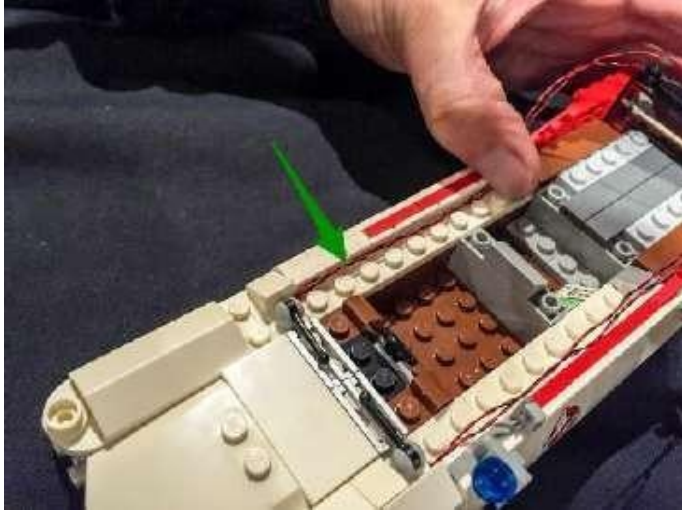
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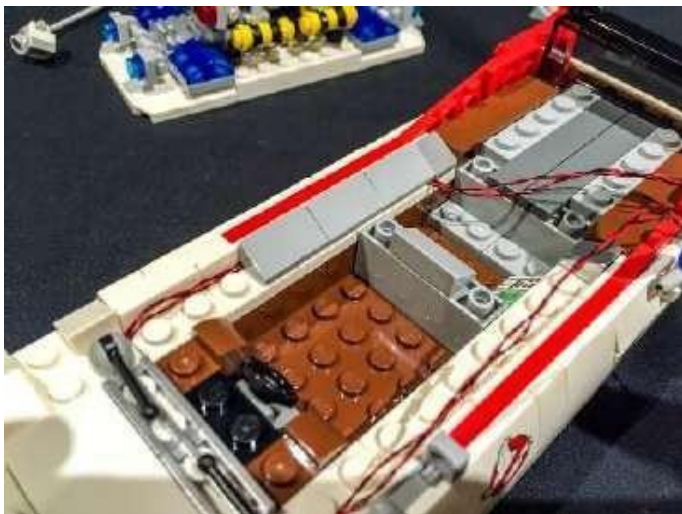
14



15. Hide 2 cables from the lights on the left side of the car (looking from the front) up the left side by laying them in between the white studs and then reconnecting the grey triangular plates over the top of them.



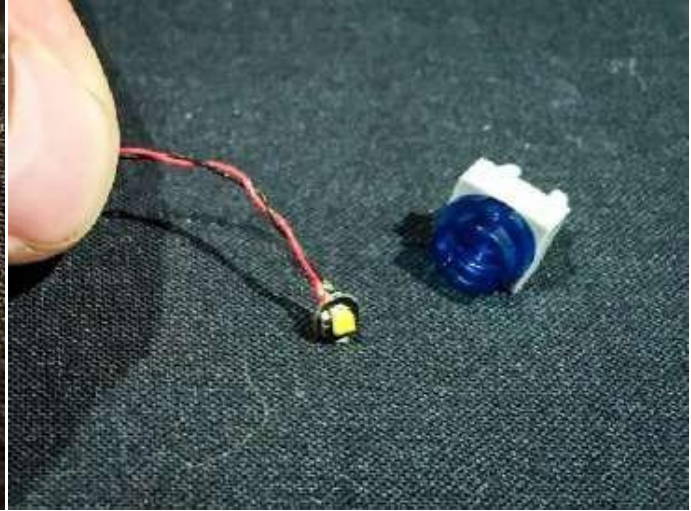
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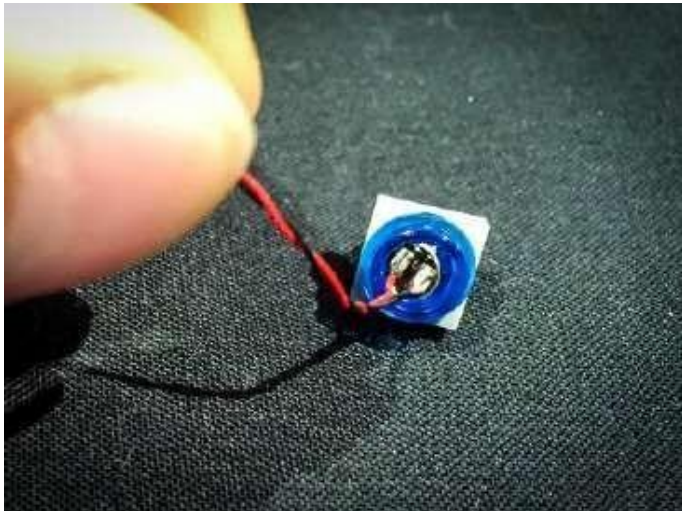
17. Before we hide the 2 cables from the right we will first install an LED to the blue light at the right side window. To do this, remove this section at the grey stud with clip.



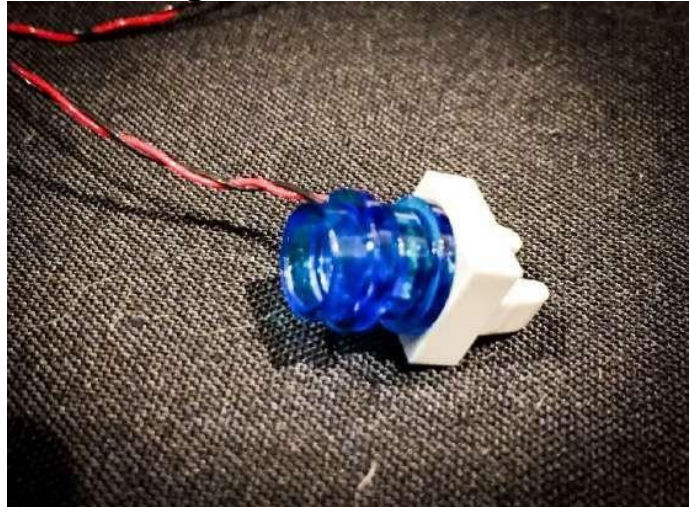
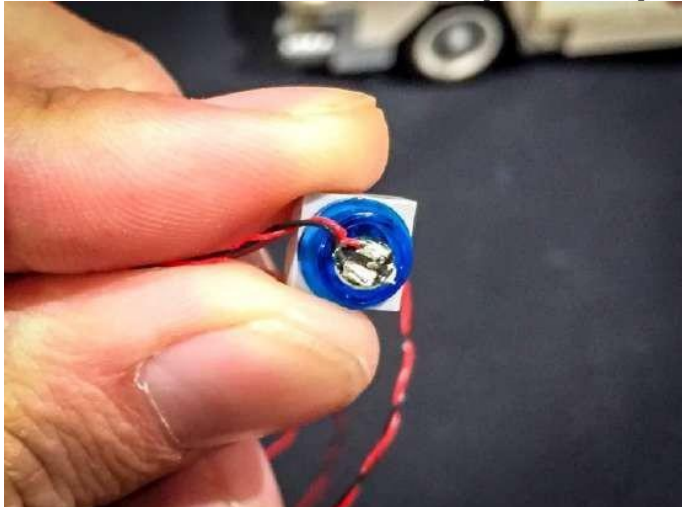
18. Take another standard Dot Light (non kashing) and install it with the LED component part facing down (as it wont connect with it facing up). Secure this into place by connecting another transparent blue plate (which we have provided) over the top.



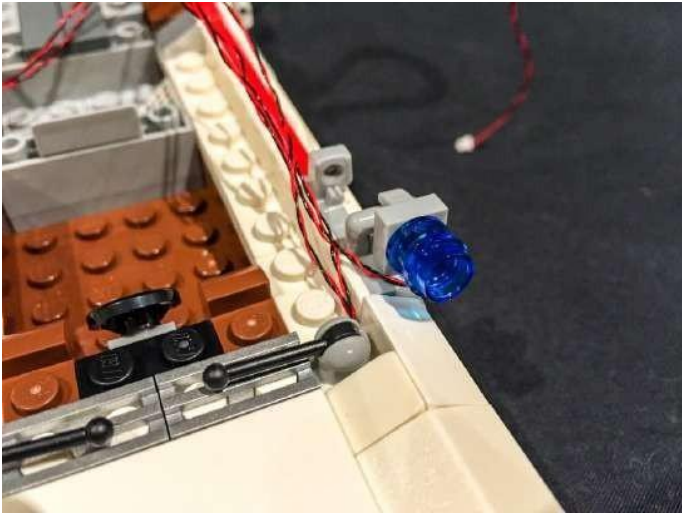
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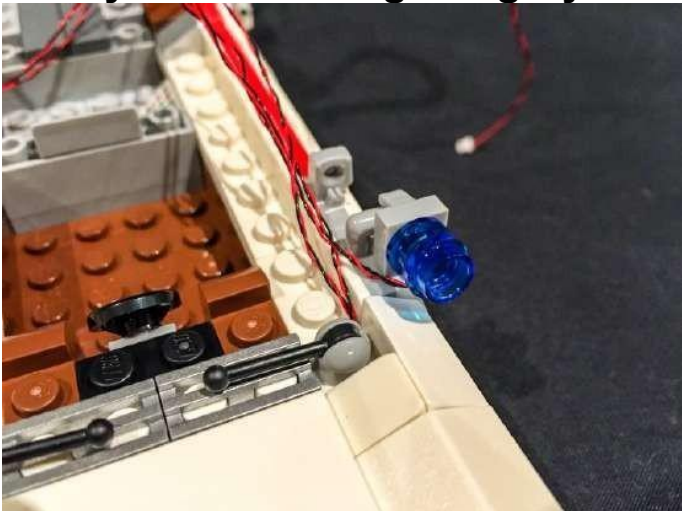
20. Ensure the LED component part is facing down or inward



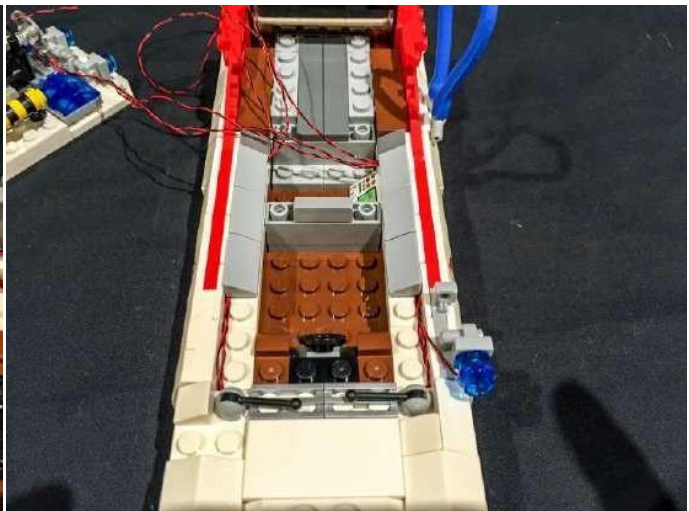
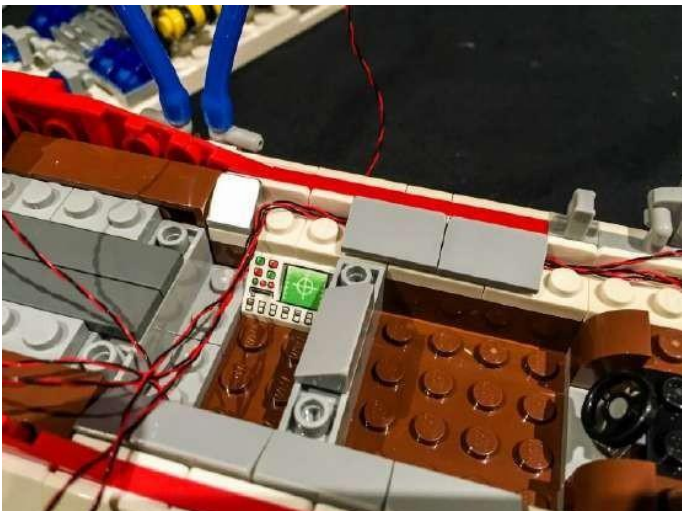
21.Reconnect this section back to the side of the car ensuring the cable from the LED is on the inside facing the car.



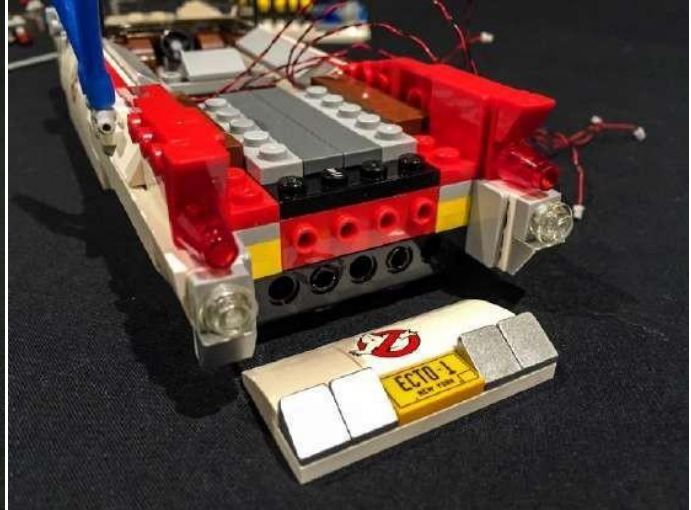
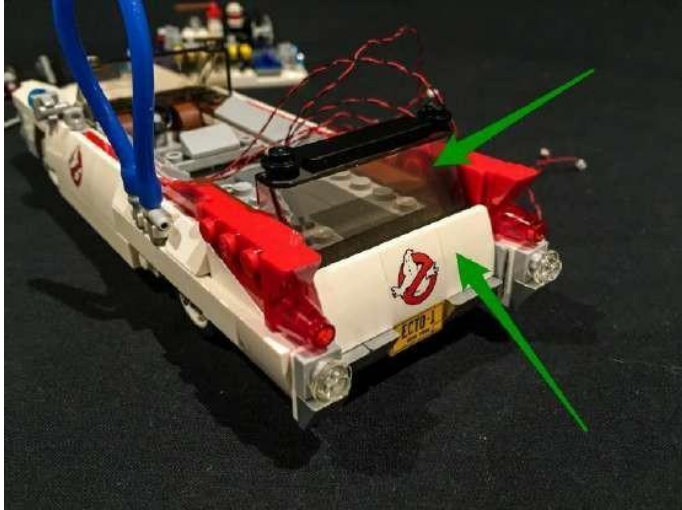
22.Take the cable from the LED we just installed and the 2 cables from the front right lights and hide them in between studs up the right side of the car by reconnecting the grey triangular plates over the top of them.



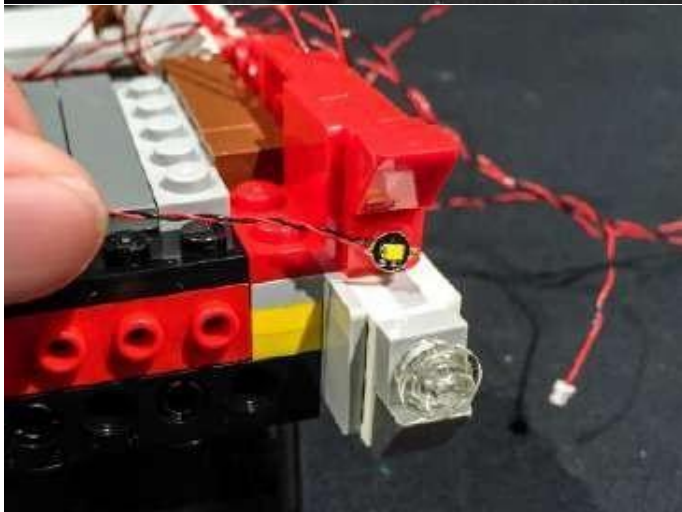
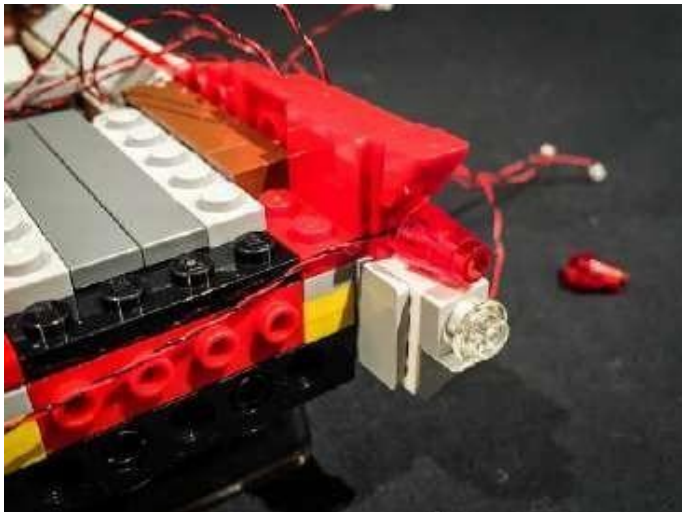
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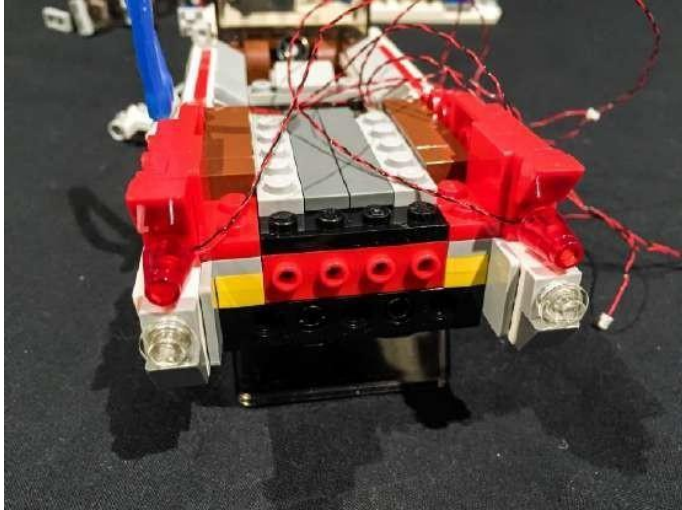
24. We will now install 2 LEDs to the tail lights. Turn the car to the back and remove the back window and white back section of the car. The back section should remove in one piece.



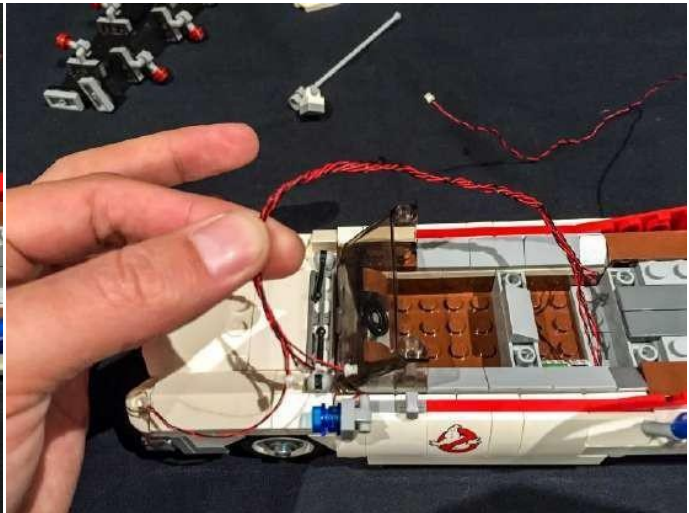
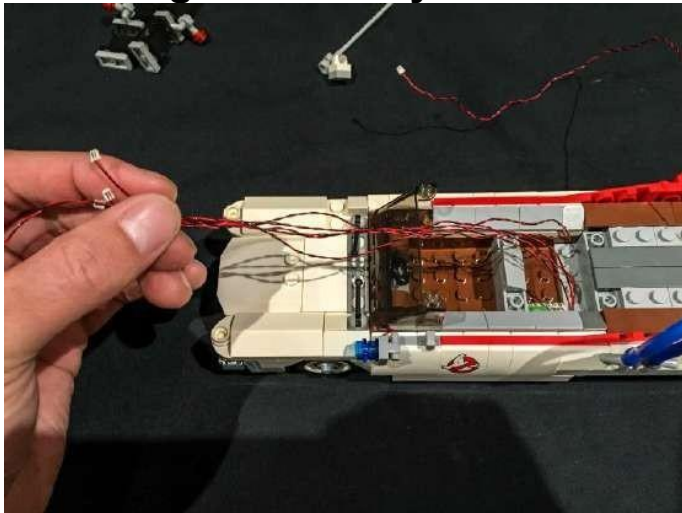
25. Remove the transparent red cone pieces from each side of the car. Take a standard Dot Light (non kashing) and place it over the top of the red stud on the side of the car ensuring the LED component part is facing the correct way up. Secure the LED in place by reconnecting the transparent red piece over the top of it. Ensure the cable from the LED is facing toward the middle so that we can hide it behind the back piece we removed earlier.



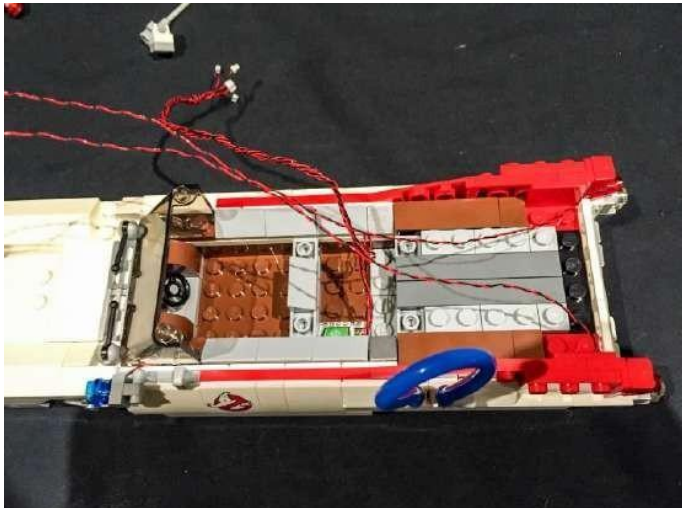
26. Repeat this step for the tail light on the other side using another standard Dot Light. Reconnect the back piece with the ghostbusters logo on it and ensure the cables from the LEDs are hidden behind.



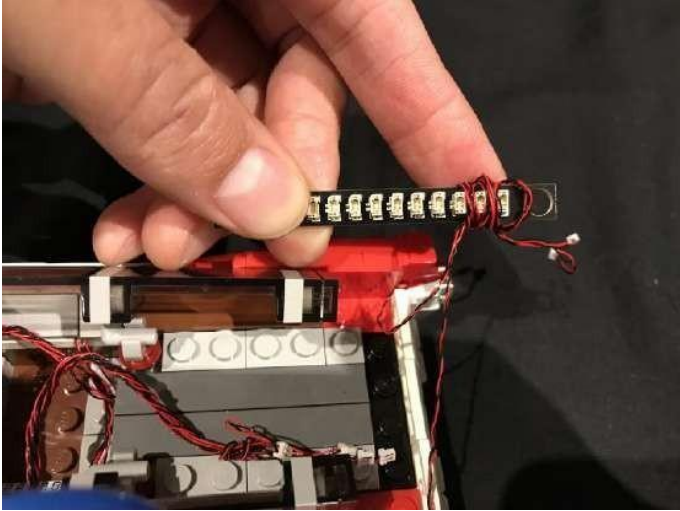
27. It's time to neaten up all the cabling from the LEDs we have installed so far. Take the 5 cables from the front lights and twist/wind them around each other starting from the base working your way up. They should all come together neatly.



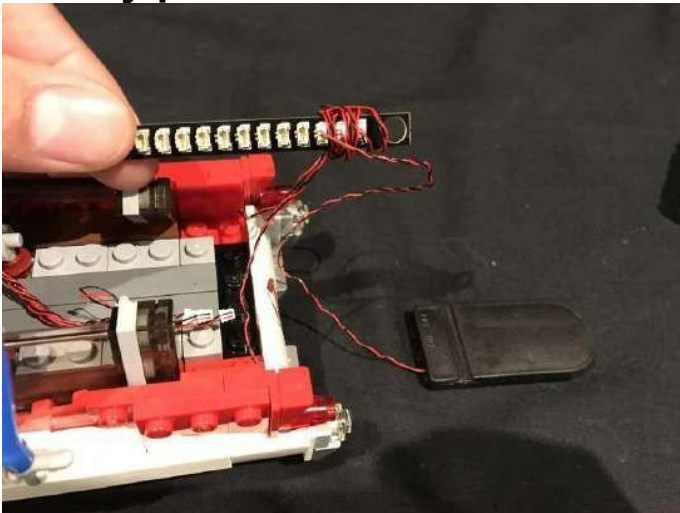
28. Repeat this step for the cables from the tail lights, twisting/winding them around each other. We should now have 2 groups of cables.



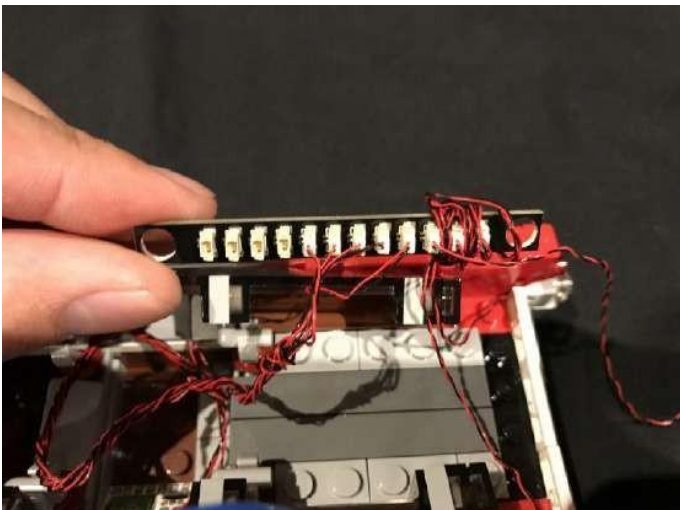
29. Connect the cables from the tail lights into one of the 12-port expansion boards (expansion board#1) by first winding them around the board before connecting them into the first 2 available ports. We are winding them around the board so that we don't have too much excess cabling to have to hide later on.



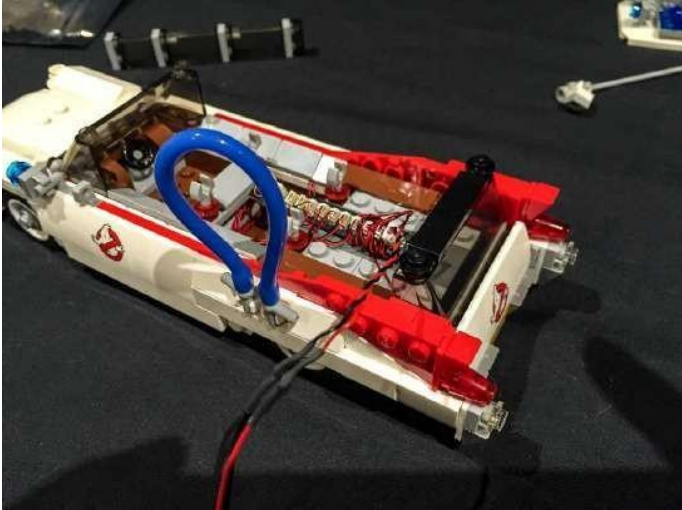
30. Take the battery pack and insert the 2x CR2032 batteries. Connect the battery pack cable into the next available port on the expansion board.



31. Connect the cables from the front lights into the next available ports of the expansion board then tuck the cabling underneath the expansion board in the back seat section of the car.



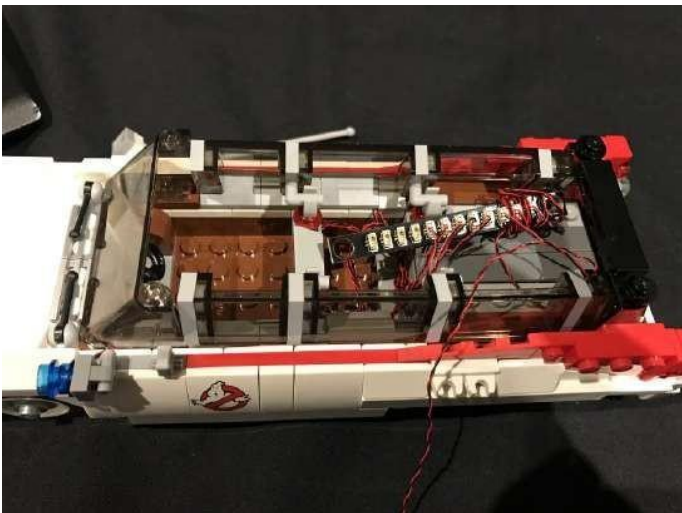
32.Reconnect the back window.



33.We can now take the time to test the lights we have installed so far by simply turning the battery pack switch to “ON” and verifying all is OK!



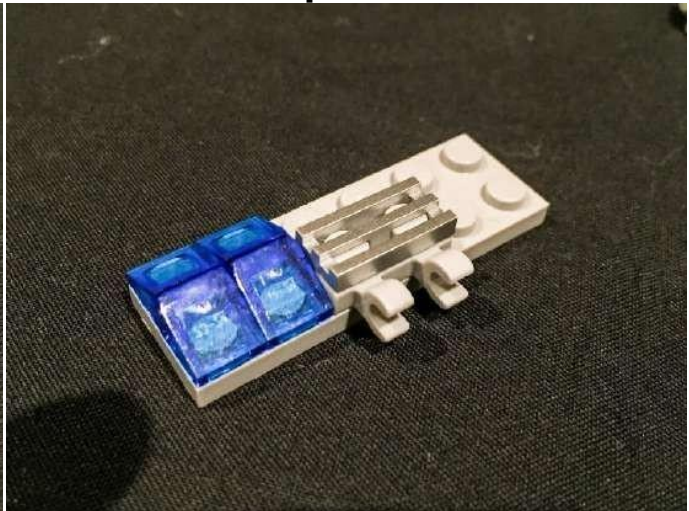
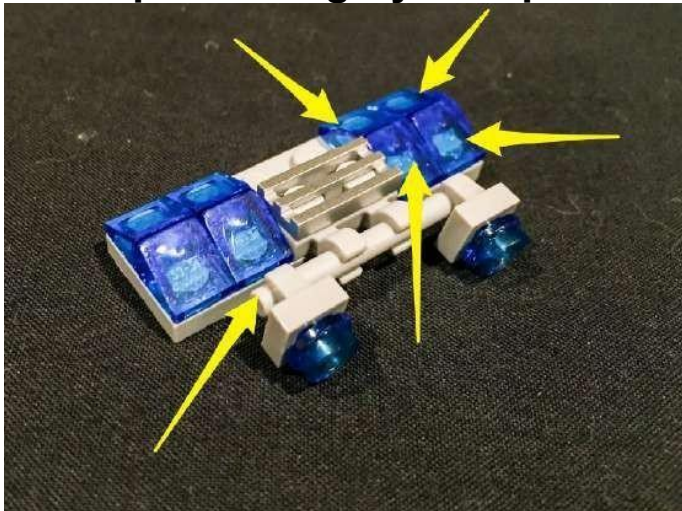
34.Reconnect the side windows.



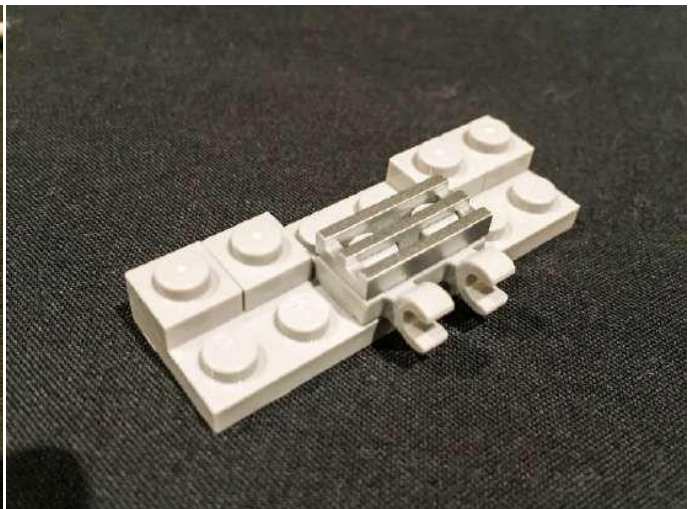
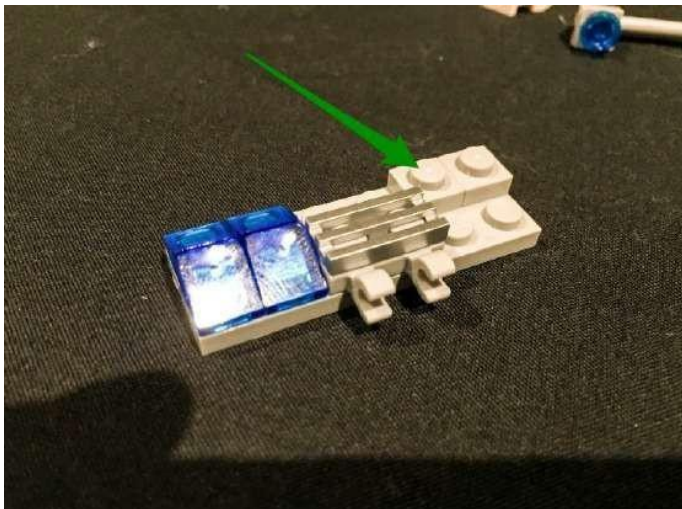
35.We will now install lights to the roof of the car. The roof is made up of 3 white base plates, front, middle and back. Start by removing the back section, followed by the grey 2x6 plate with blue light pieces connected to it.



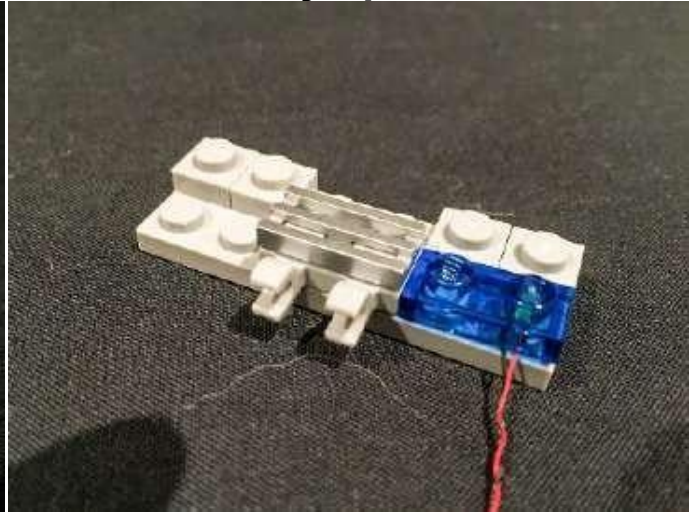
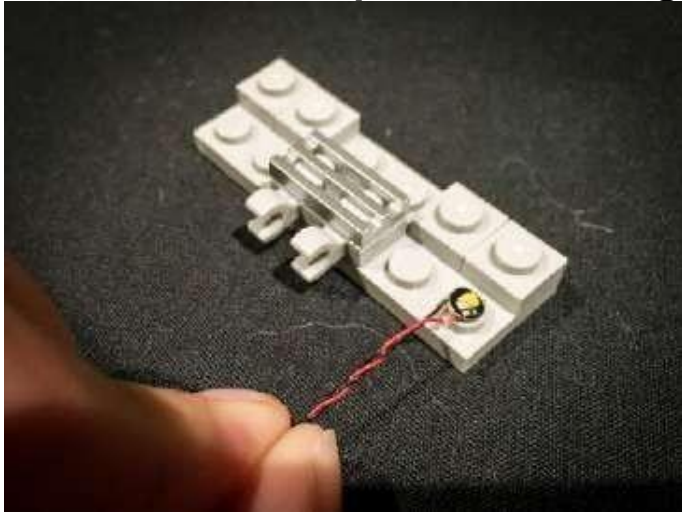
36.Remove the following pieces from the 2x6 plate and then connect one of the provided grey 1x2 plates on each side as per below.



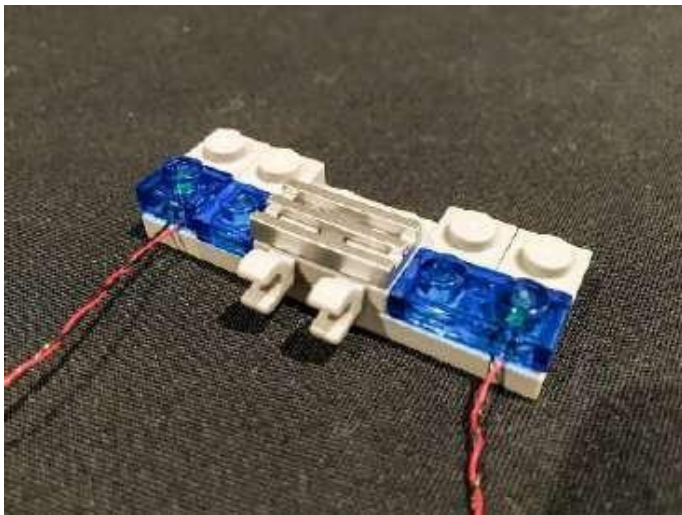
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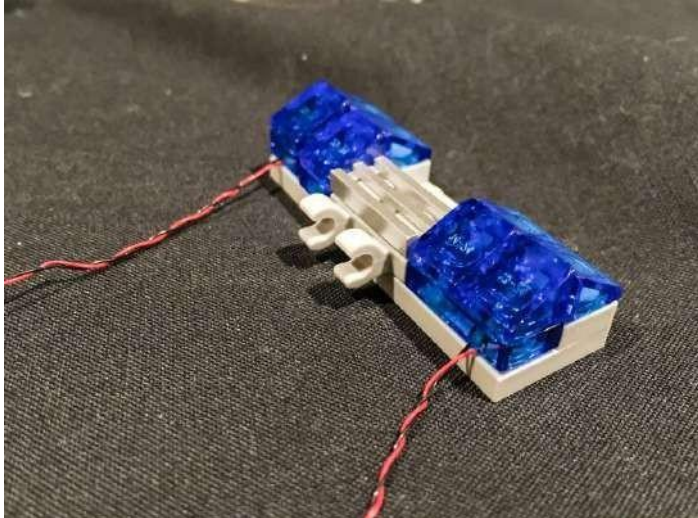
38. Take 1 Pushing Dot Light and place it on top of the grey stud closest to the outside of the plate ensuring the LED component part is facing the correct way up. Secure this in place by connecting one of the provided transparent blue 1x2 plates over the top. Repeat this for the light on the other side ensuring the LED is installed to the stud closest to the outside and the LED component is facing the correct way up.



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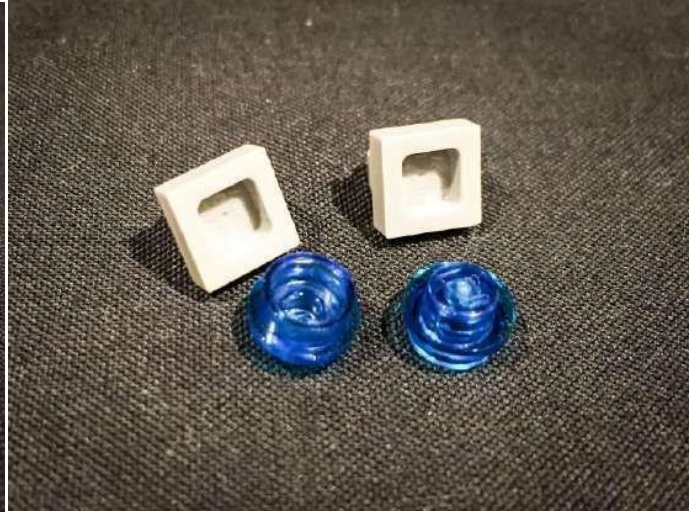
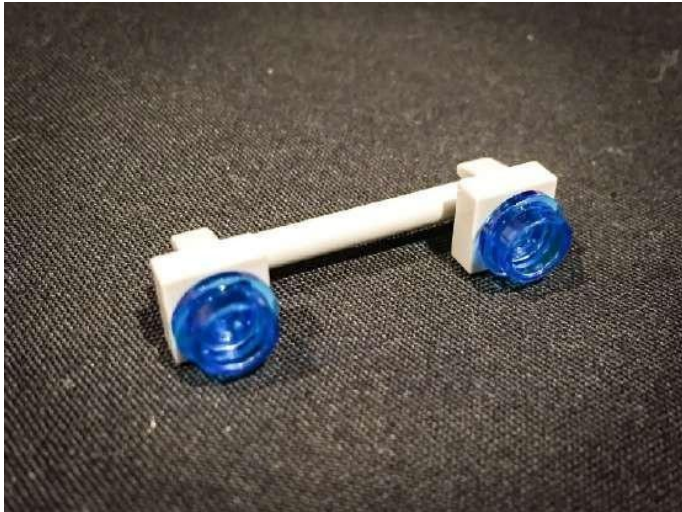


40. Reconnect the transparent blue triangular plates we removed earlier on top of the additional plates we just installed.

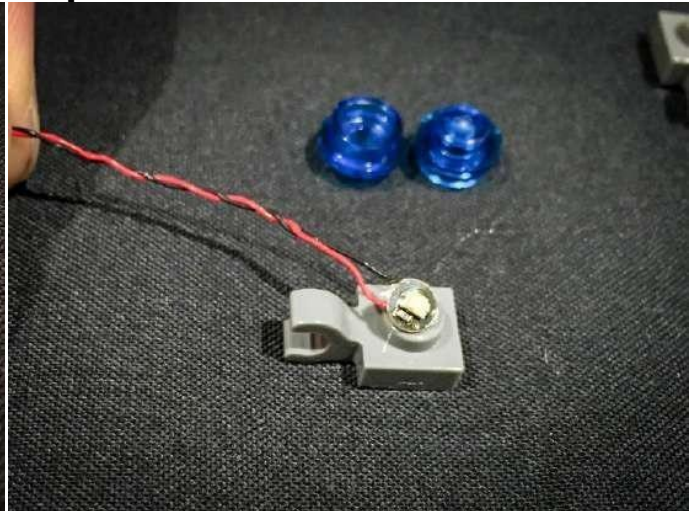
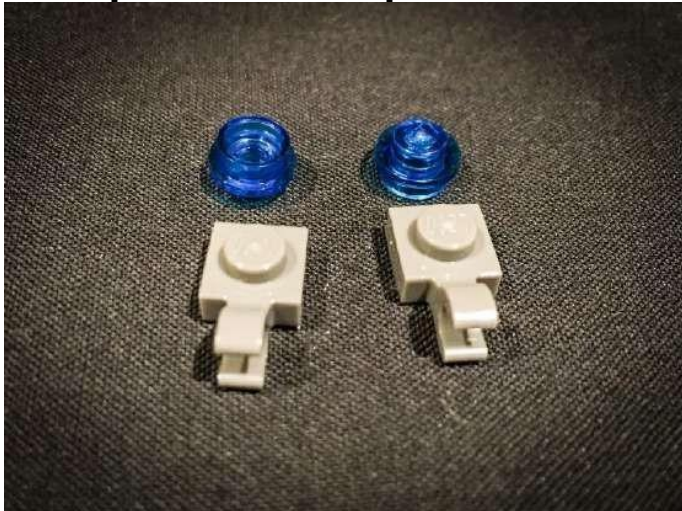


41. We will now install kasing LEDs to the blue spot lights at the front. Remove the grey plates with clips from the pole and then disconnect the round blue pieces from them.

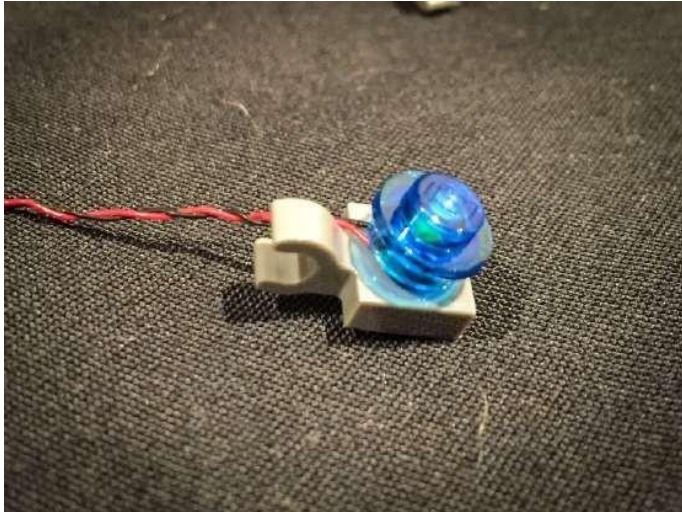
Note: This may be a little tricky and you may need to use the removal tool for the blue pieces.



42. Locate 2 of the provided grey plates with clips as we will be replacing the original ones with these. Take another 2 Pushing Dot Lights and install them by placing them over the studs and connecting the blue transparent round pieces over the top.

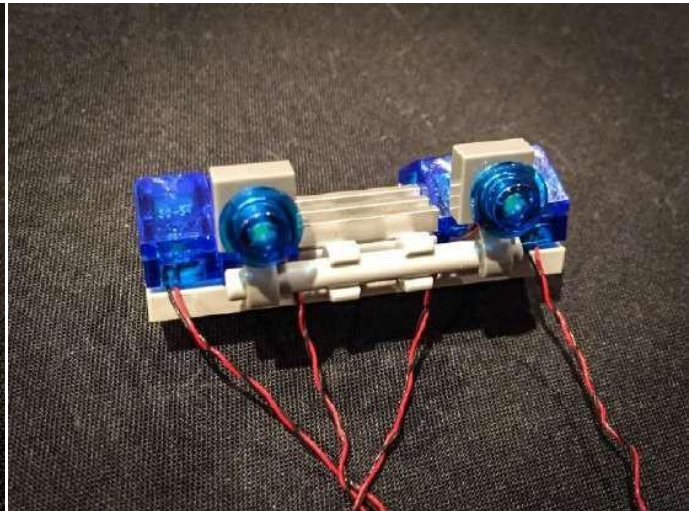
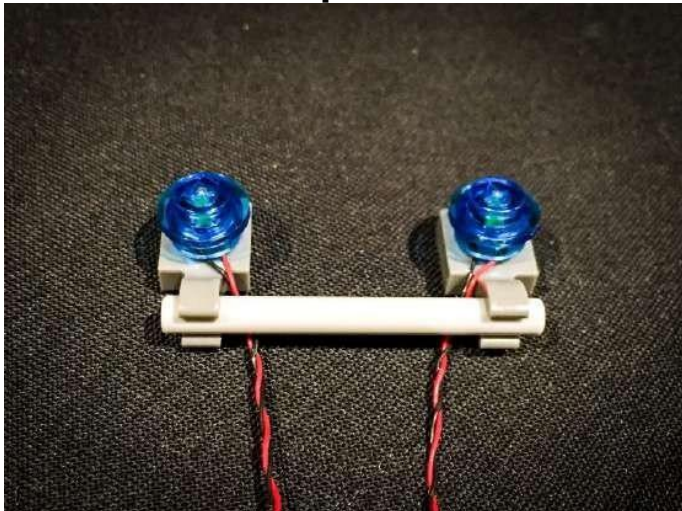


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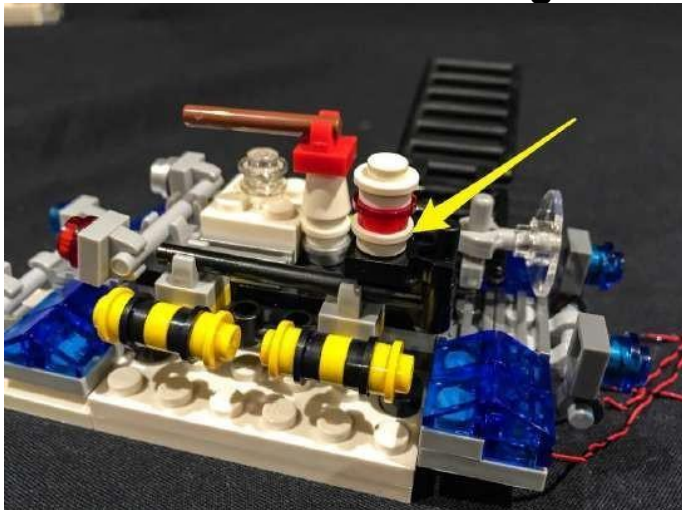


44.Reconnect these 2 plates to the pole and then reconnect them to the rest of the roof section.

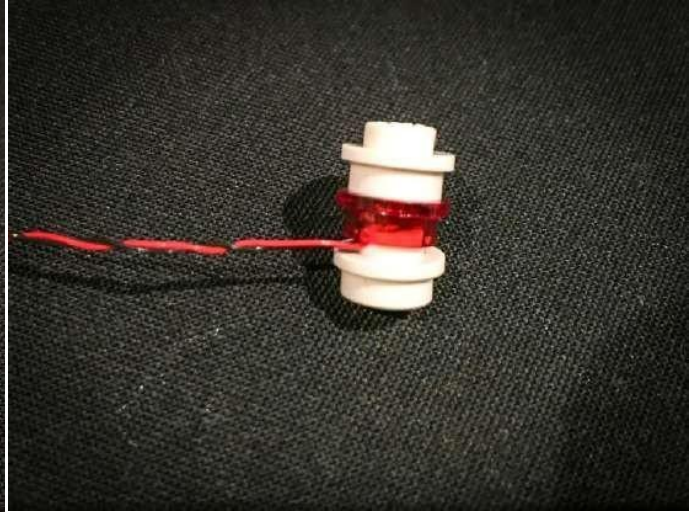
It is important to ensure that the cabling for the 4 lights are facing down and behind the pole.



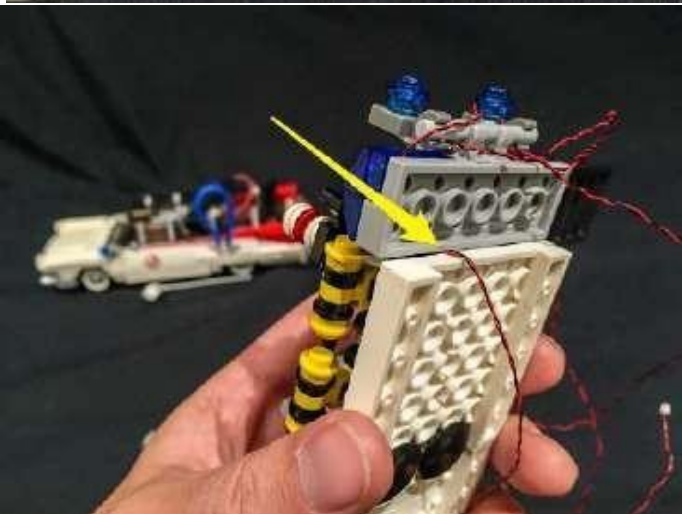
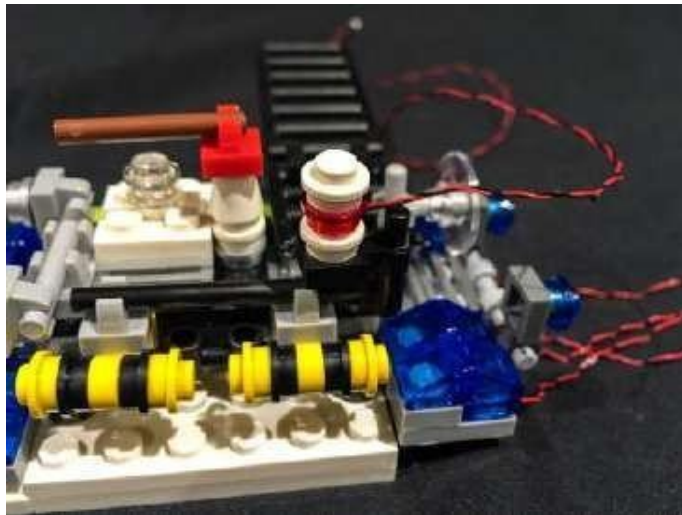
45.Reconnect the 2x6 plate to the rest of the roof, without the white plate underneath. Then remove the red light with white stud underneath so we can install another kashing Dot Light to it.



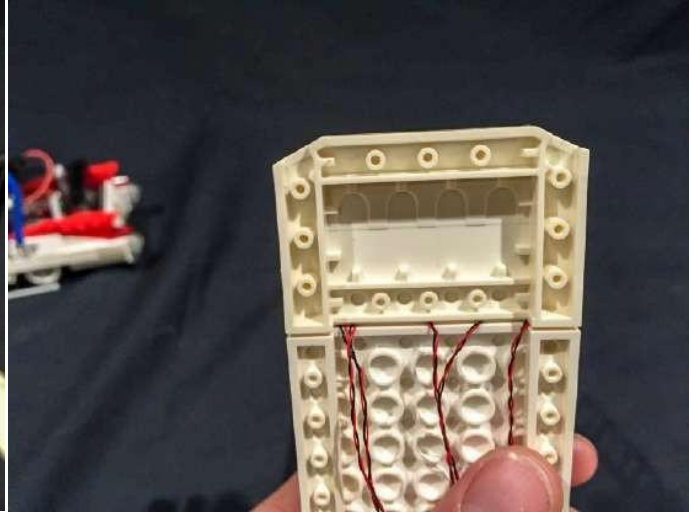
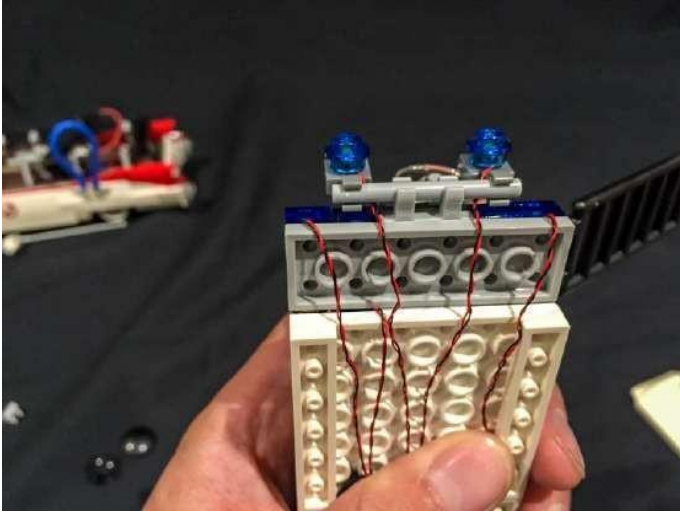
46. Take another Pushing Dot Light and install it to this section ensuring that the LED is laid over the white stud and secured down by reconnecting the red piece over the top.



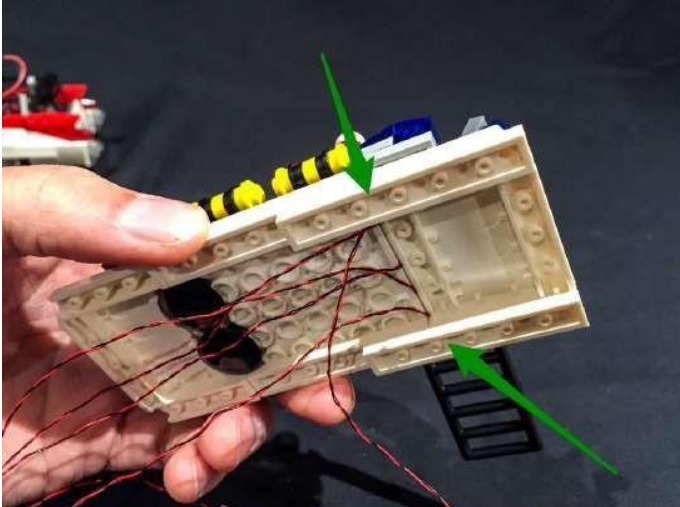
47. Reconnect this section to the roof of the car ensuring the cable from the LED is threaded behind the black pole and down the middle in between the grey and white plates.



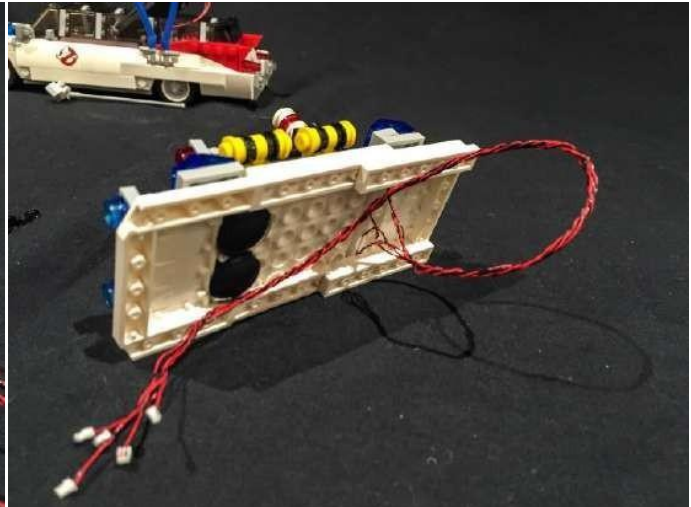
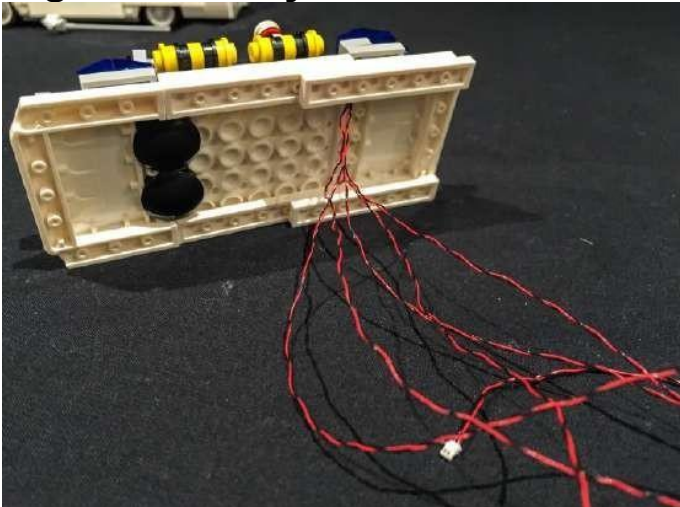
48. Take all the cables and lay them down the middle of the middle white plate before reconnecting the back white plate underneath.



49. Secure the 2 white base plates of the roof by connecting the provided white 1x6 plates on each side as per below. We will not be reconnecting the original 2 round black pieces so you can discard these.



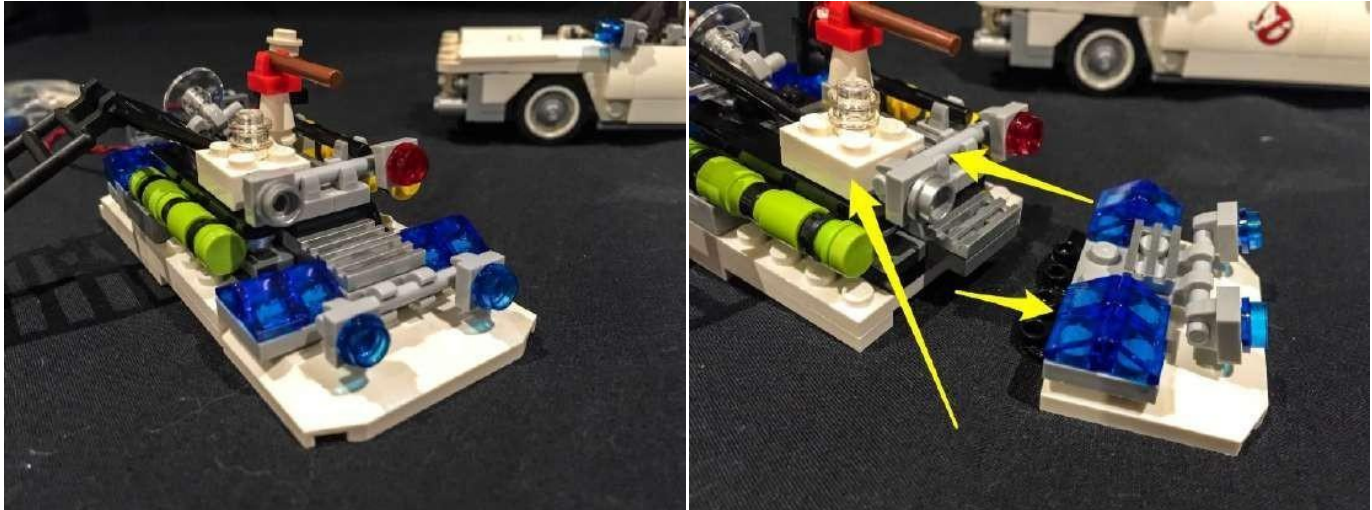
50. Take the 5 cables from the back lights and twist/wind them around each other (like we did for the front and tail lights) so they all come together neatly.



51. Turn the roof around to the front and remove the following sections:

the front roof section

the white 4x4 plate with the clear light piece attached the grey pole with red and grey light pieces attached.



52. Take the white 4x4 plate with pieces attached and disassemble the pieces as we will be replacing the 2 grey pieces.

Note: This may be a little tricky and you may need to use the removal tool for the red and grey round pieces.

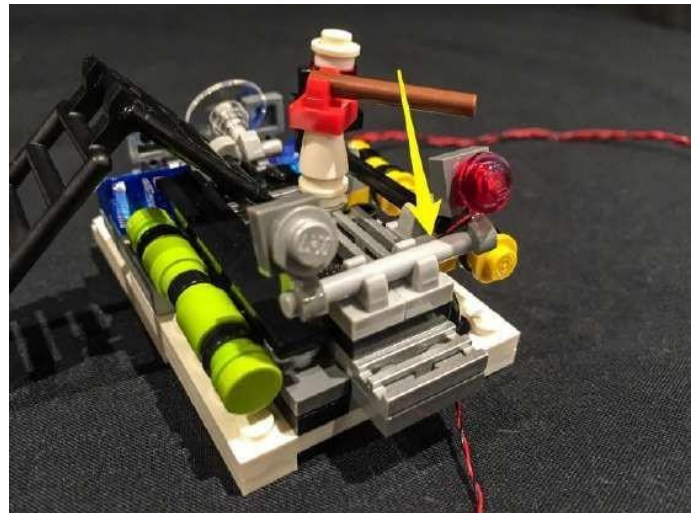
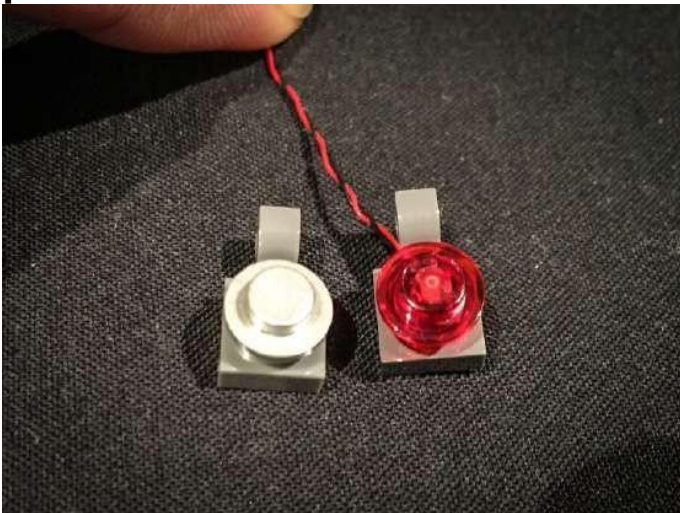


53. Take one of the provided grey pieces with clip and place 1 standard Dot Light (non kashing) on top of the stud. Secure the LED in place by connecting the transparent red round piece over the top ensuring that the LED component part is facing the correct way up.

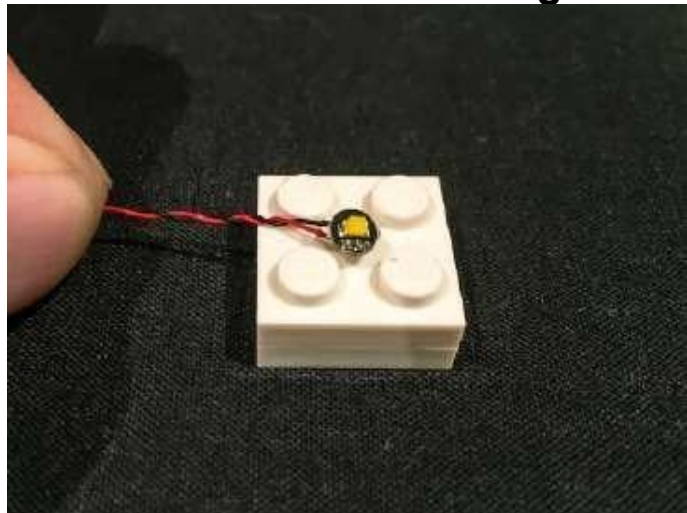


54. Ensure the cable from the LED is facing the same way the clip underneath is facing

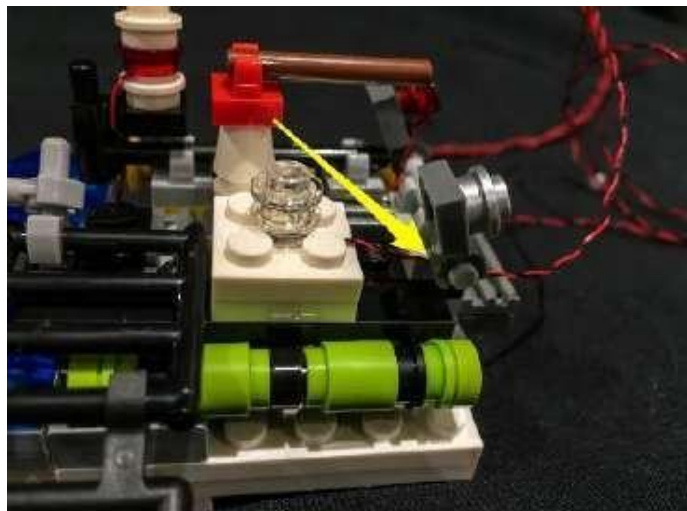
Reconnect the round grey piece to another provided piece with clip then re-attach the 2 pieces back to the pole before then reconnecting this back to the roof. Ensure that the cable from the red LED is hidden behind the pole.



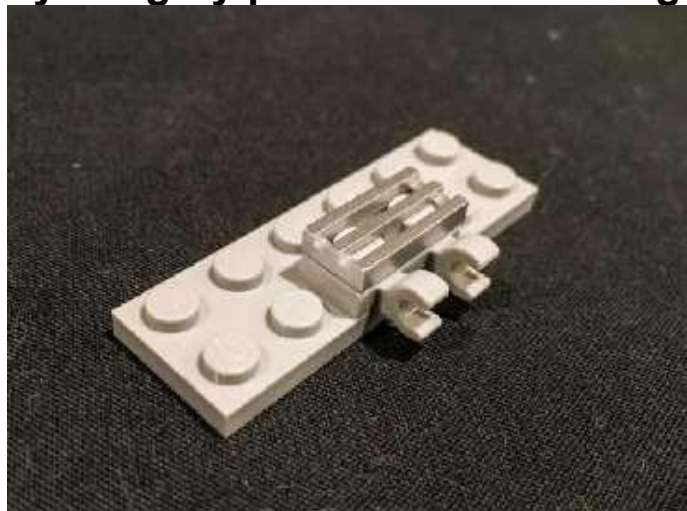
55. Take another standard Dot Light and place it in the middle of the white 4x4 plate (in between the studs). Reconnect the clear round light pieces over the top to secure the LED in place. Reconnect this section back to the roof of the car ensuring the cable from the LED is facing forward.



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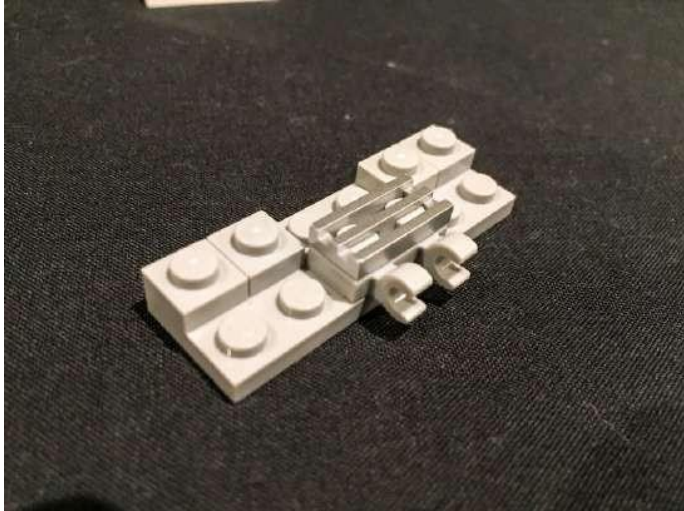


57. Take the front section of the roof and remove the white roof plate from underneath, then remove the transparent blue triangular pieces, followed by the grey pole with attached light pieces.

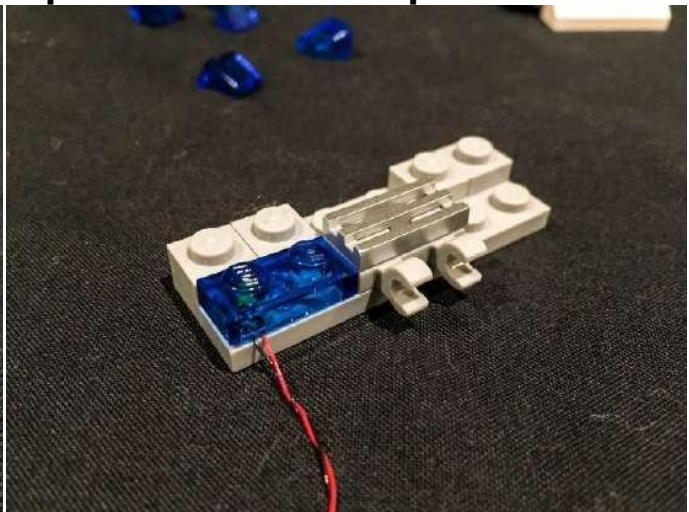
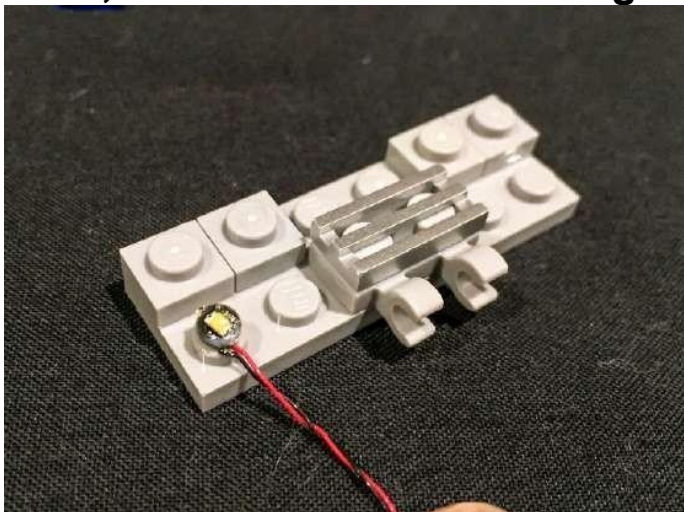




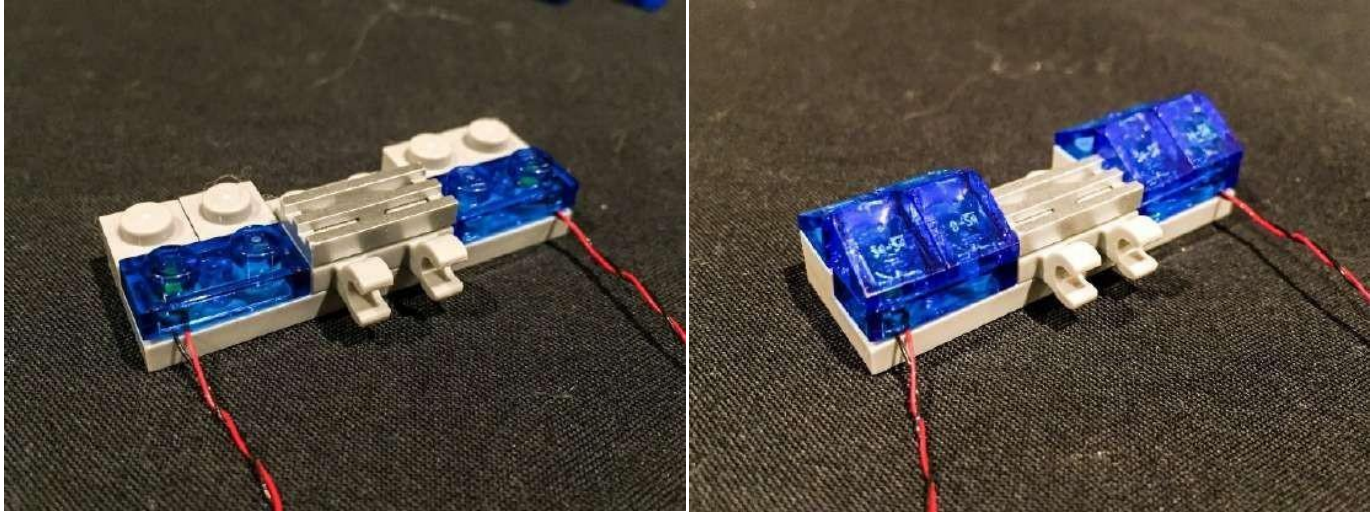
59. Connect the 2 provided 2x2 grey plates in the following positions.



60. Install 2 Pushing Dot Lights to this section by placing them over the top of studs on each side (furthest away) and connecting the provided 2x2 transparent blue plates over the top, same way as we did for the back kashing lights. Ensure the cables from the 2 LEDs are facing toward the front, then reconnect the triangular pieces over the top.

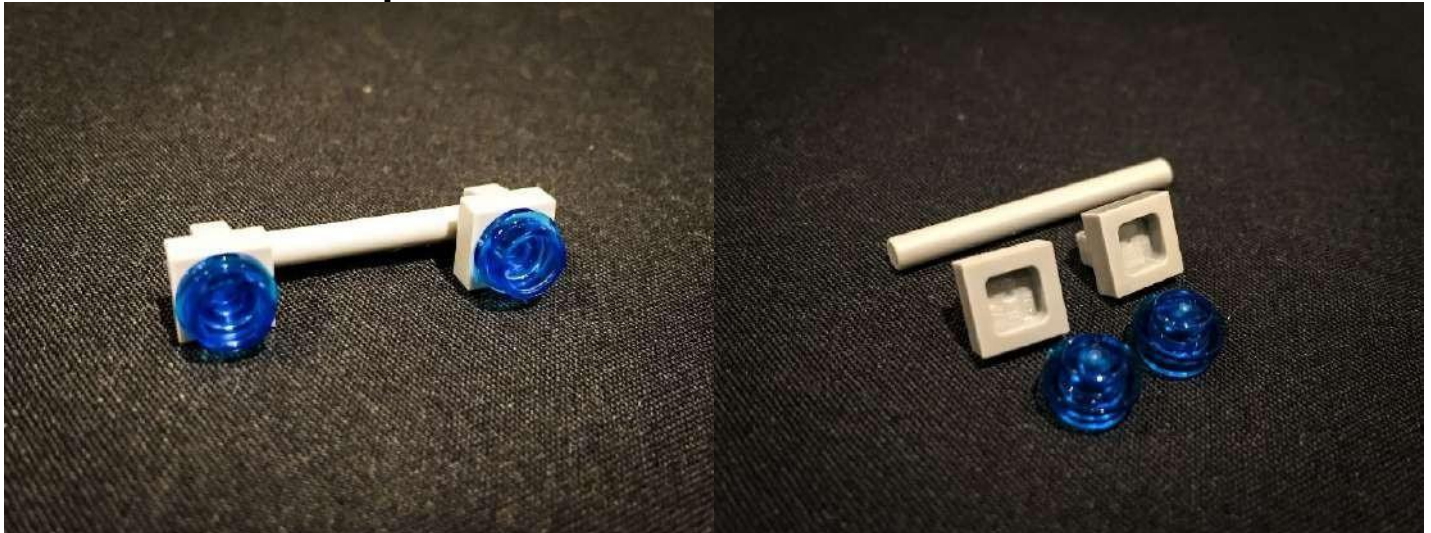


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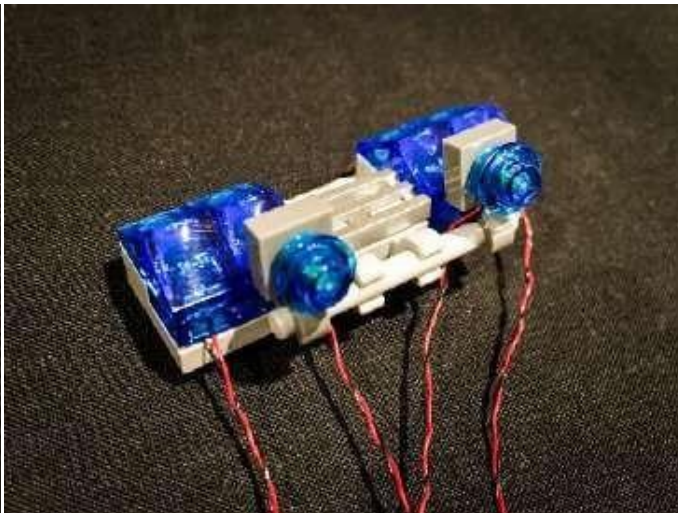
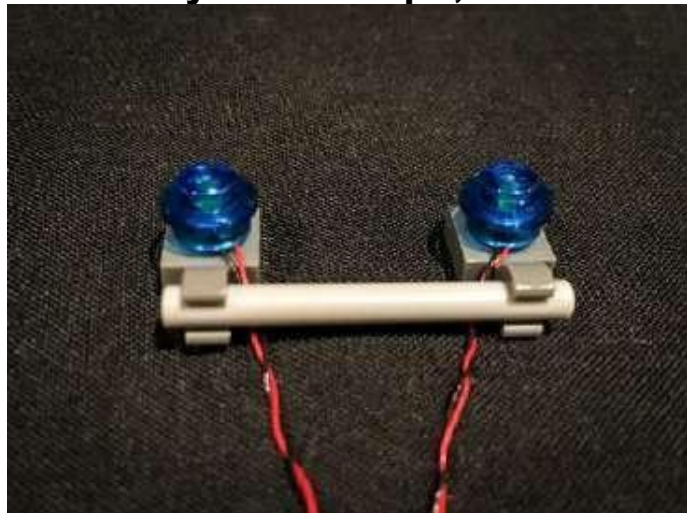


62. Take the front grey pole with attached lights and disassemble all the pieces as we will be replacing the grey pieces with new pieces (with different clips).

Note: This may be a little tricky and you may need to use the removal tool for the blue round pieces.



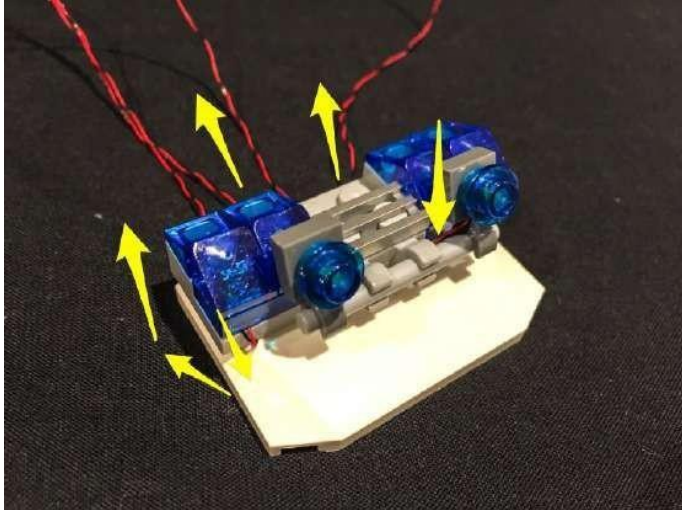
63. Install the final 2 Pushing Dot Lights to this section by placing them over the studs of the provided grey pieces (with clips) and connecting the transparent blue pieces over the top. Ensure the cables are facing the same way as the clips, then reconnect this section back to the roof.



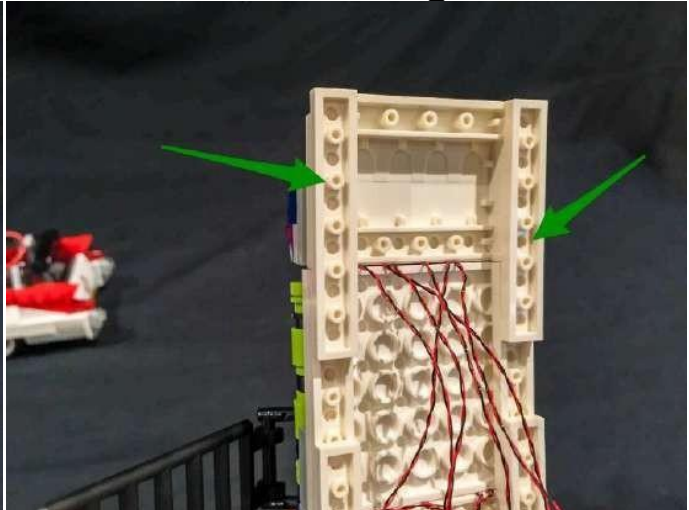
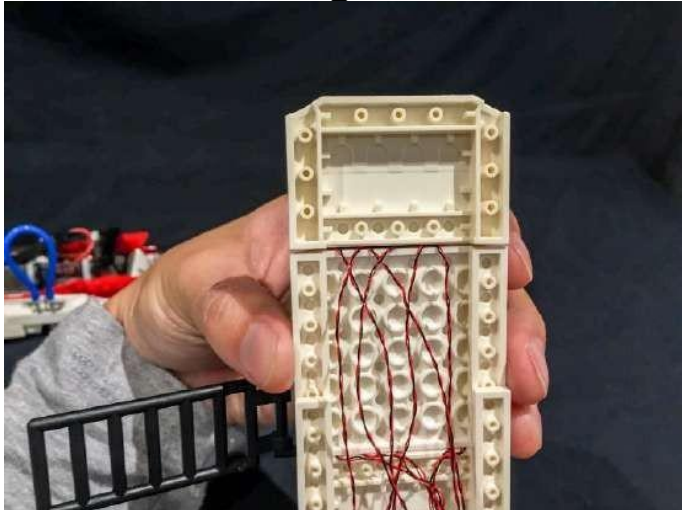
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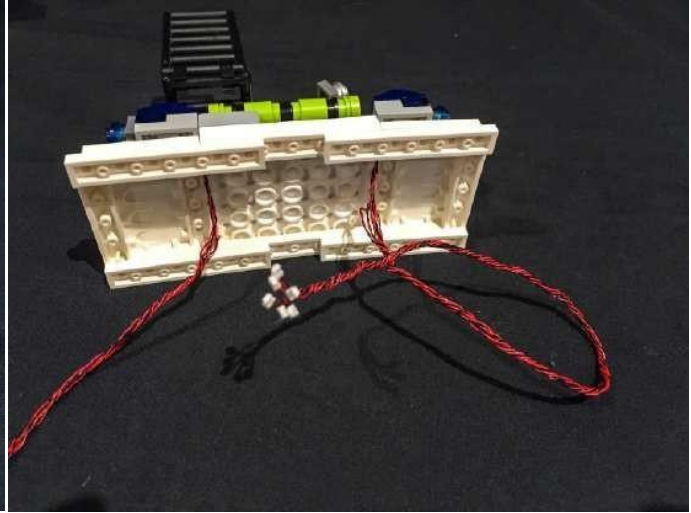
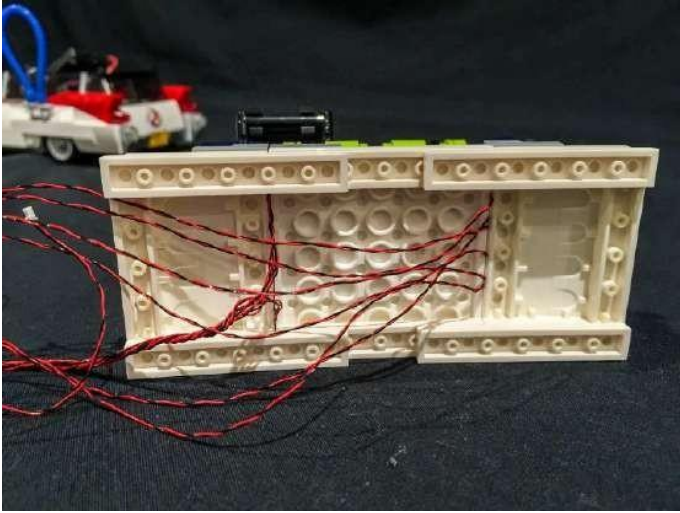
65.Reconnect the grey 2x6 plate back to the white roof piece ensuring all cables are facing toward the back and hidden behind the grey pole as per below. Reconnect the front roof section to the middle roof section. You may find that this may not connect securely. This is OK as we will be securing the roof sections with extra pieces in the next step.



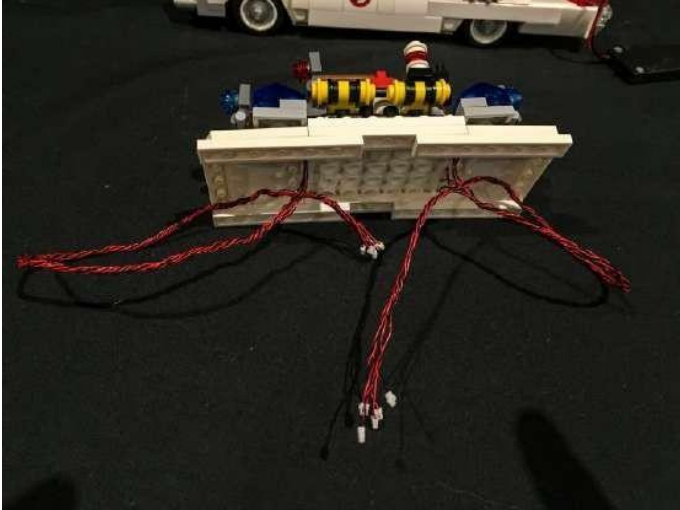
66.Take the 2 provided 1x6 white pieces and connect them underneath the roof securing the front and middle roof sections together.



67. Turn the roof on its side to allow you to then group all the cables from the front roof LEDs. Twist/wind them around each other, same way we did for the rest of the light cables.



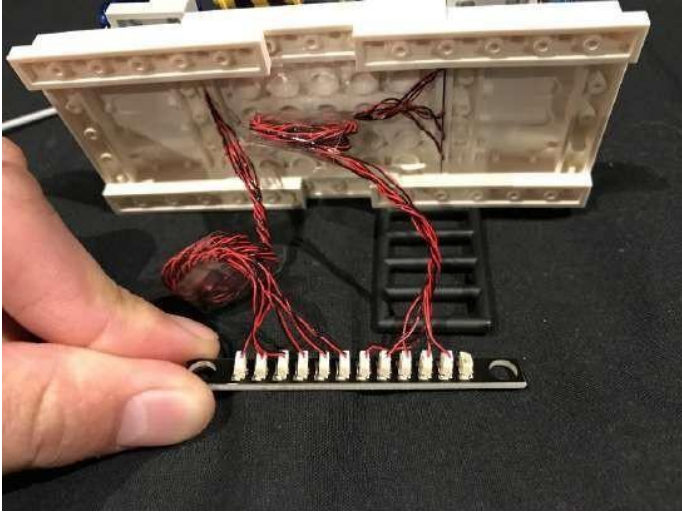
68. Take the 2 groups of cables from the roof lights and loop them around so that we do not have too much excess cabling. Use some tape to tape the cables together to prevent them from unwinding.



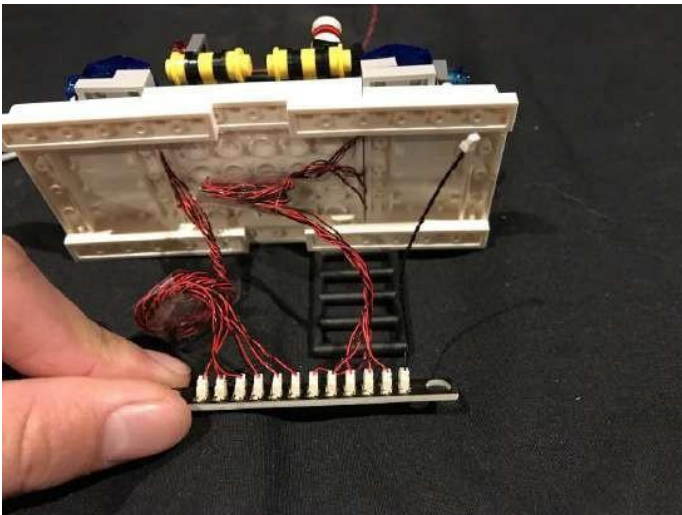
69. Take another expansion board (expansion board#2) and connect the first group of 6 lights from the front section of the roof to the first available ports on the expansion board.



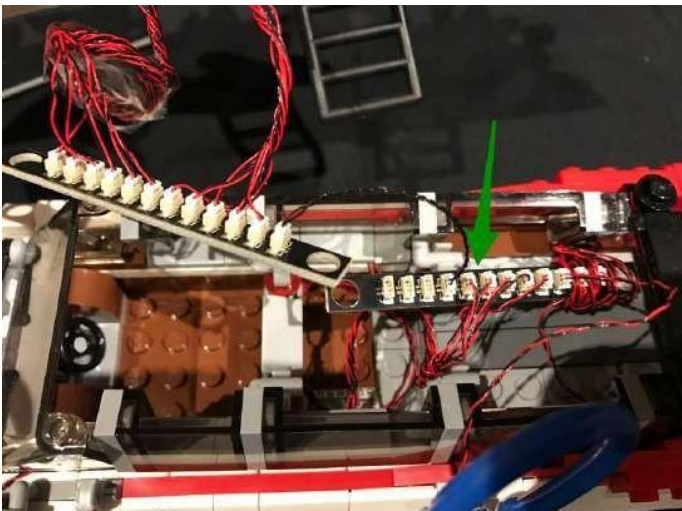
70. Connect the other group of lights from the back section of the roof to the next available ports on the expansion board#2.



71. Take the 5cm connecting cable from the kit and connect it to the last available port on expansion board#2.



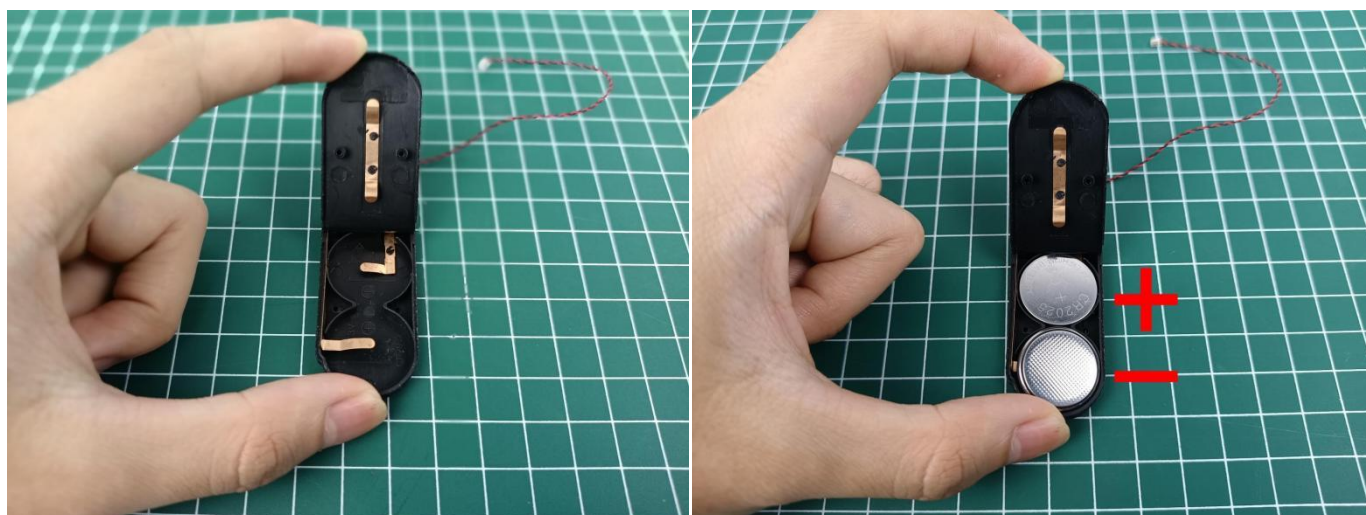
72. Connect the other end of the 5cm cable to a spare port on expansion board#1.



73. Tuck all the cables down below and then re-position the battery pack so that the switch is facing toward the back. Place the battery pack over the top of all the components and then reconnect the roof section.

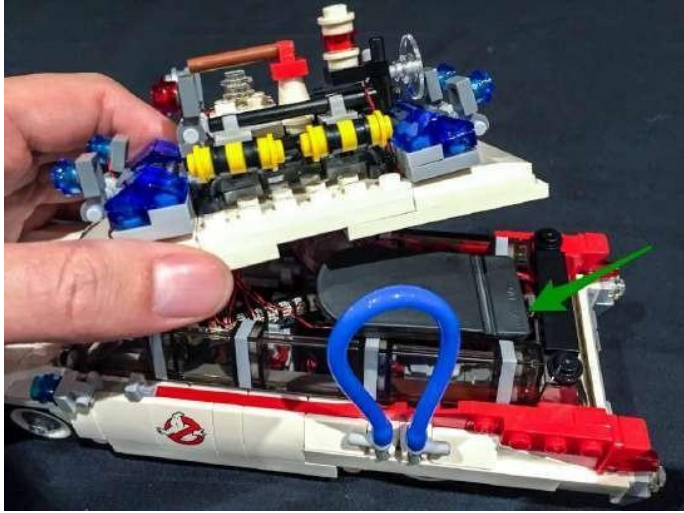


The flat battery pack does not contain batteries, please buy a 2025 or 2032 button battery in the nearest store and install it in the flat battery pack.



74. This now completes installation of the LED lighting kit.

To turn the lights on, simply lift up the roof section (from the back) and turn the battery pack switch to “ON”.



75. Your Ghostbusters Ecto 1 has now come “alive”!



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

