

10254 Winter Holiday Train P84

- P84 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 “10254 P84”.
- 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 8 bags in this set. The name and quantities of specific components are as shown , please check carefully.

Label	Content	Quantity
Bit Lights-15CM-Warm White	Bit Lights-15CM-Warm White	5
Expansion Board	6 Socket Expansion Board	2
	12 Socket Expansion Board	1
AA Battery Box	AA Battery Box	1
Connecting Cables-15CM	Connecting Cables-15CM	1
Connecting Cables-30CM	Connecting Cables-30CM	1
Flashing Bit Lights-15CM-White	Flashing Bit Lights-15CM-White	7
Multi-Colour Light String	Multi-Colour Light String	2
Parts package		

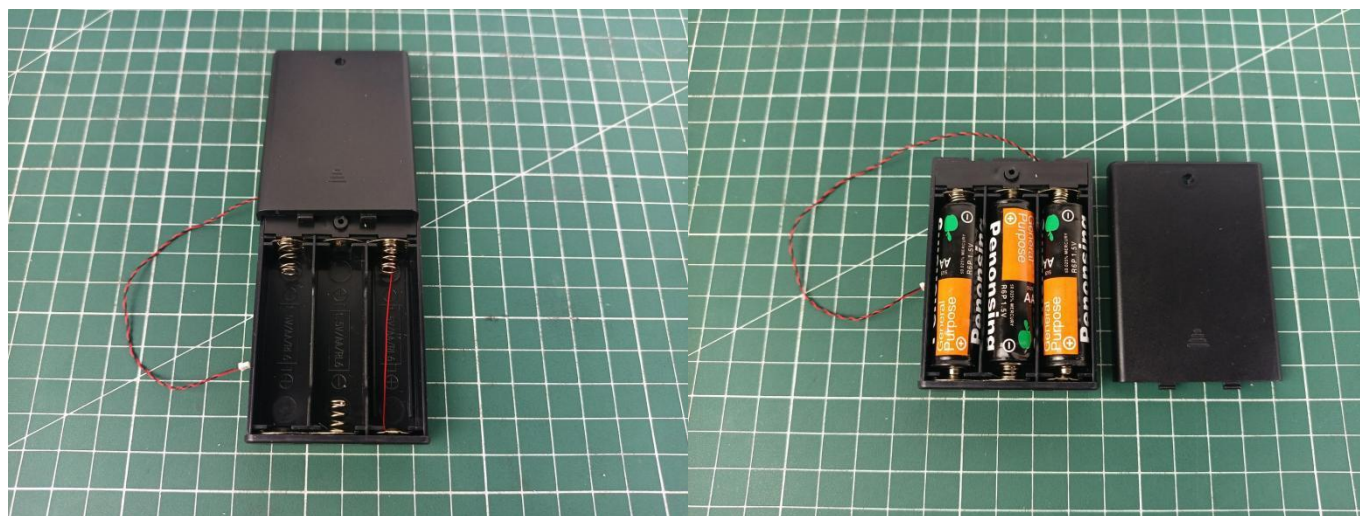
Please contact us immediately if there have any missing components.

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.

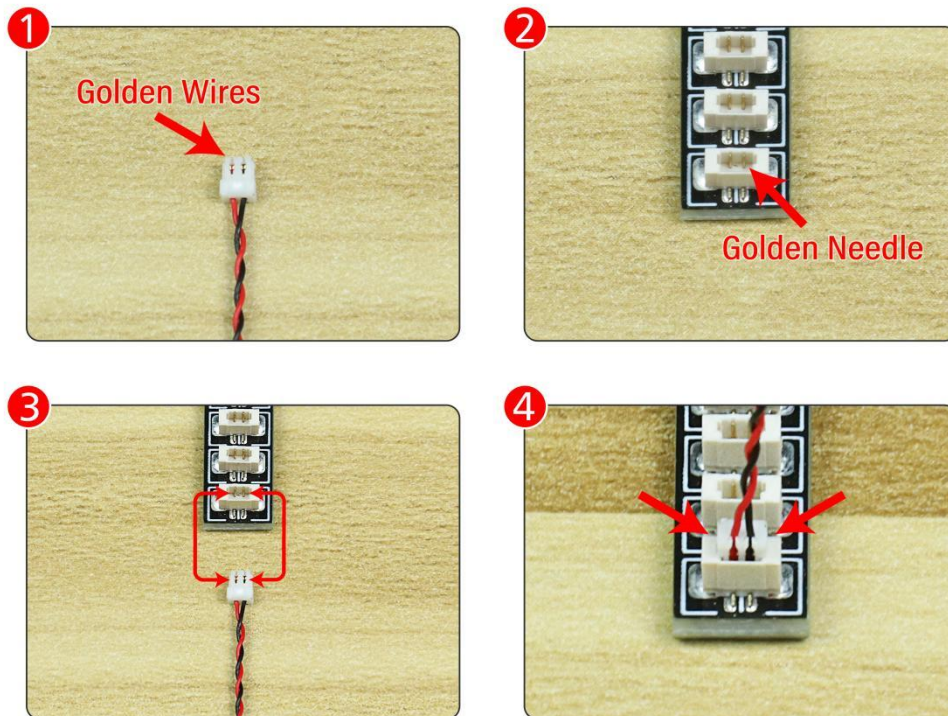


The AA Battery Box does not contain batteries, please buy three AA batteries in the nearest store and install it in the AA Battery Box.



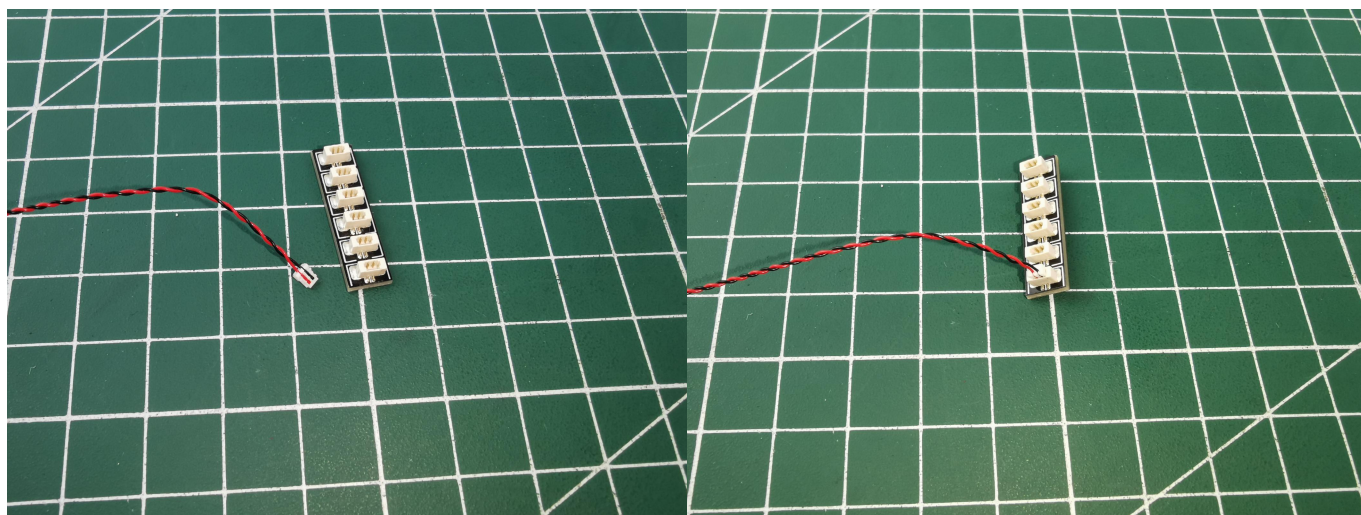
It is worth reminding that our products are all customized. They have a unique way of connecting. The white plug on wire and the socket of the expansion board need to be connected together to transmit power.

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.

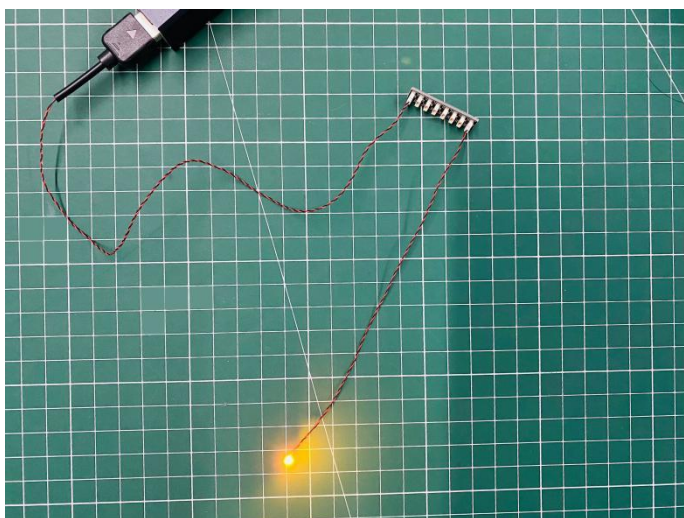


All our connections between plug and socket are all the same as shown above. So for any such structure with plug and socket, please pay attention to the golden wire of the plug and the golden needle of the socket, they must be touched together.

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



when we test "Bit Lights-15CM-Warm White" particles,Take out the bag labelled "Bit Lights-15CM-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.

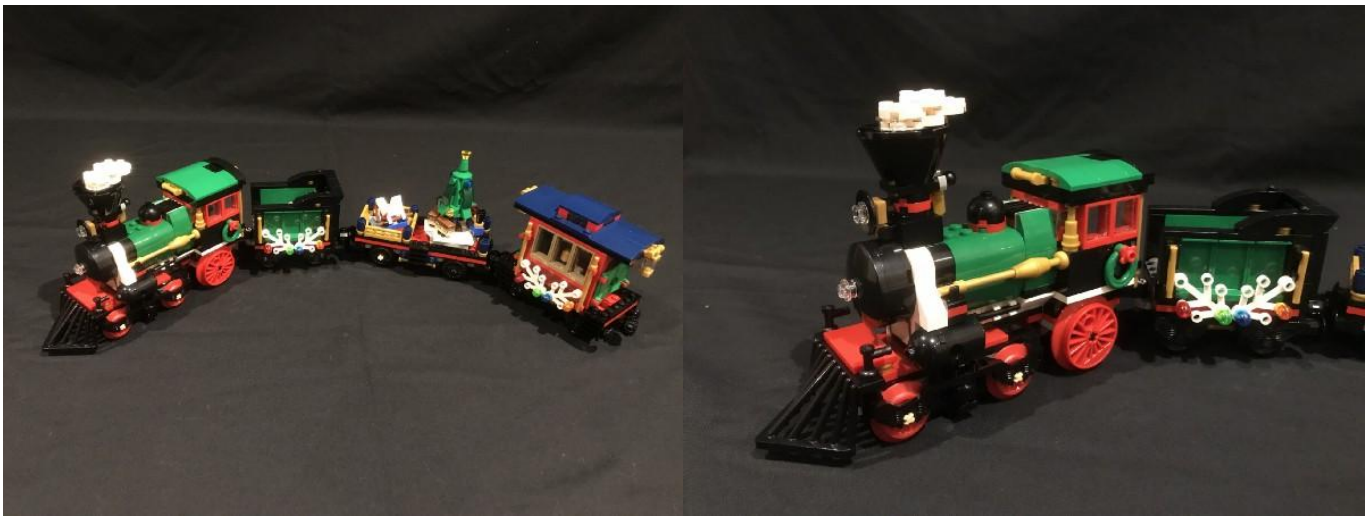


The components needs to be tested in this set is 4*Bit Lights-15CM-Warm White,7*Flashing Bit Lights-15CM-White,2*Multi-Colour Light String.

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

Section C: laying out components following the instruction.

1. Start by removing the front sections of the train as per below in order for us to install the front lights.



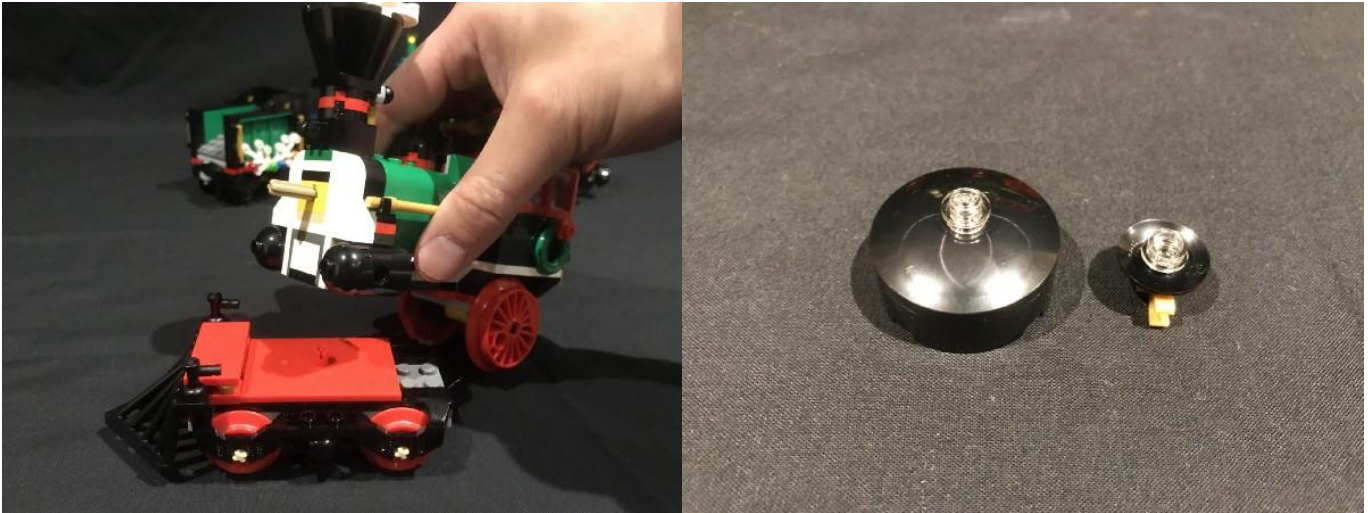
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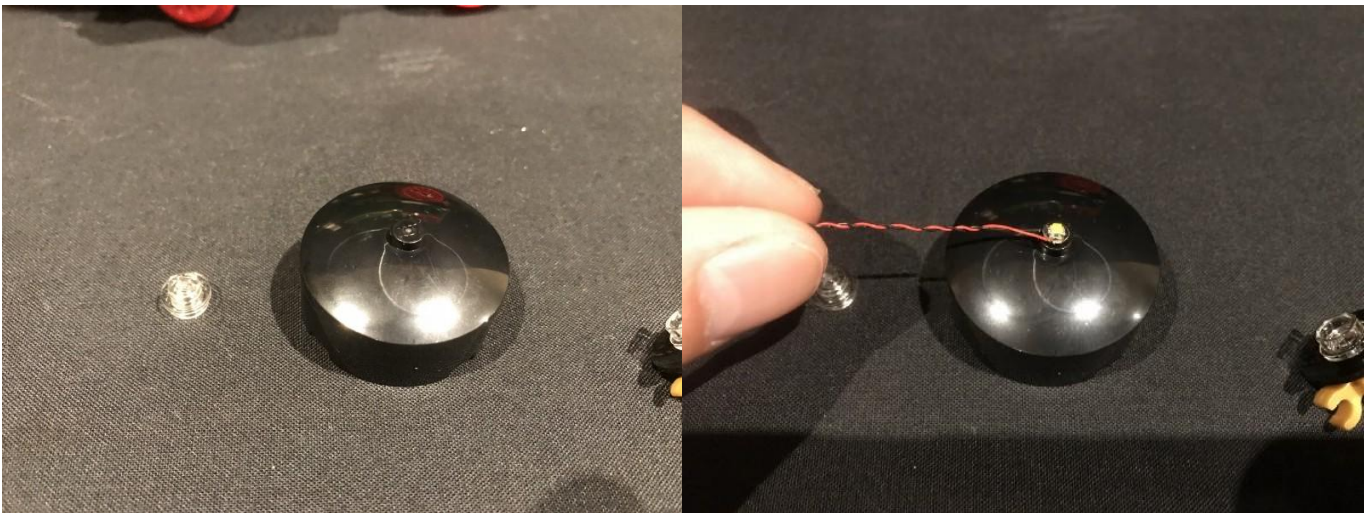
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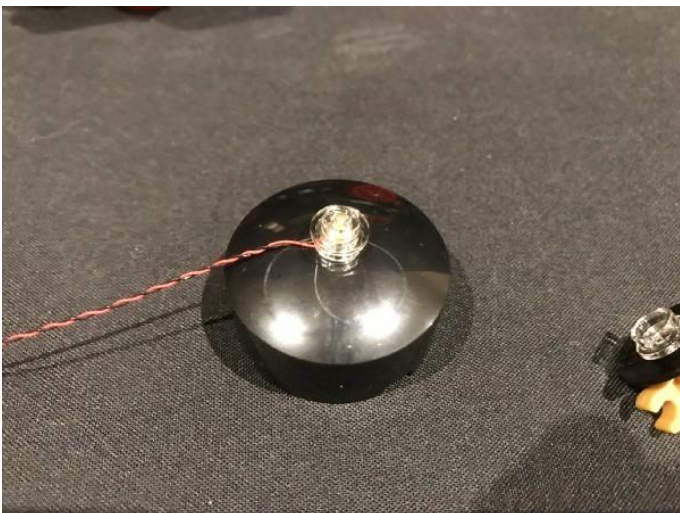
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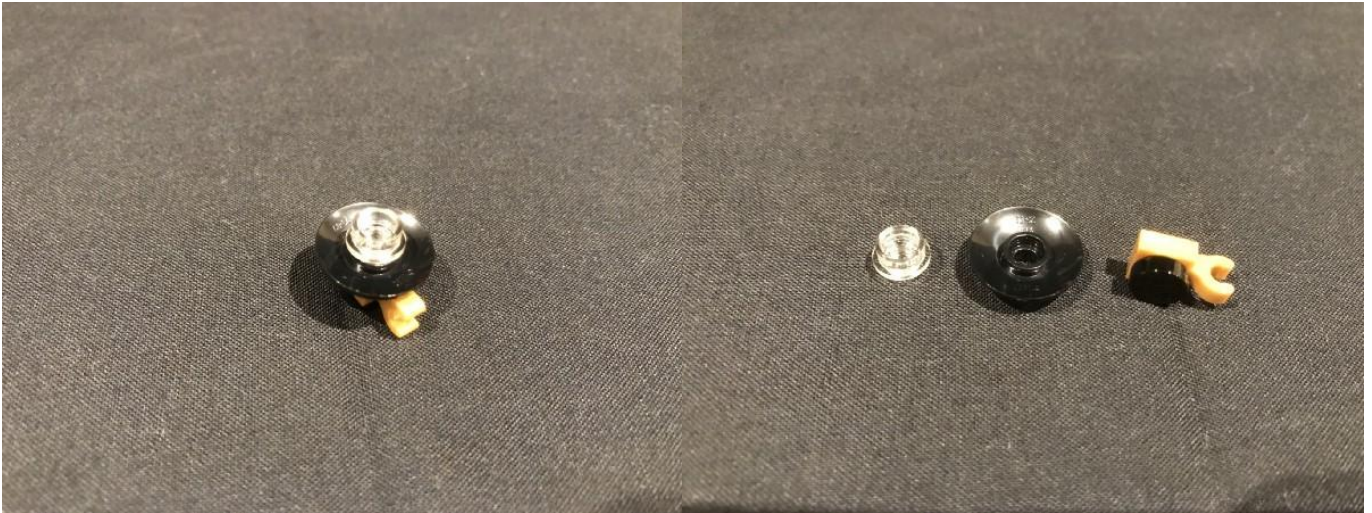
5. Remove the trans clear plate and then take a White 15cm Dot Light and place it directly over the stud of the black piece. Reconnect the trans clear plate over the top to secure it in place.



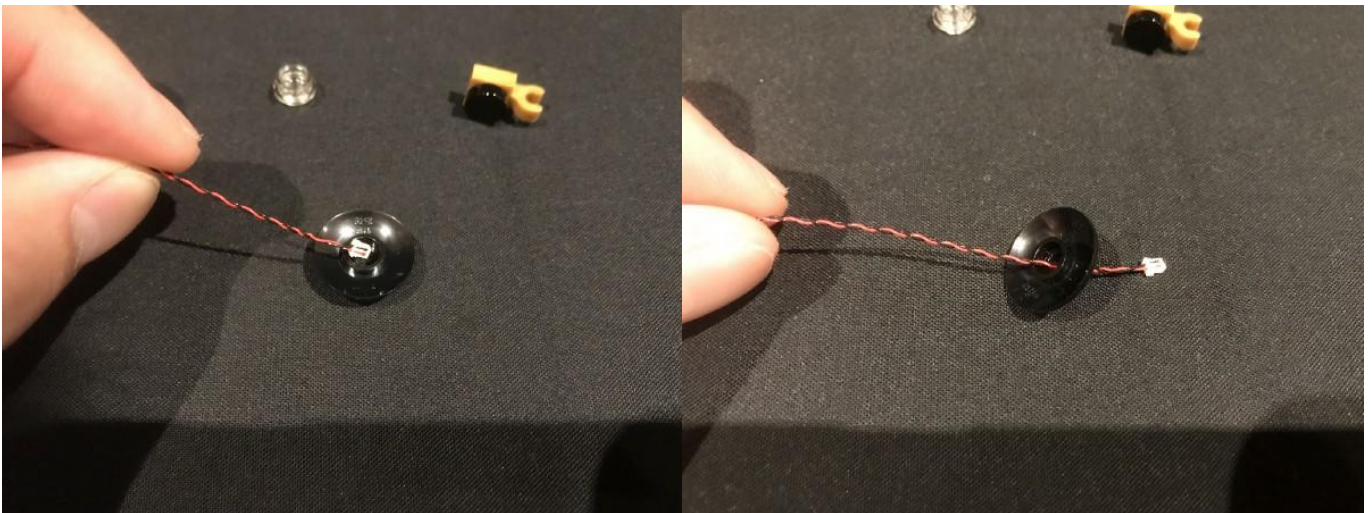
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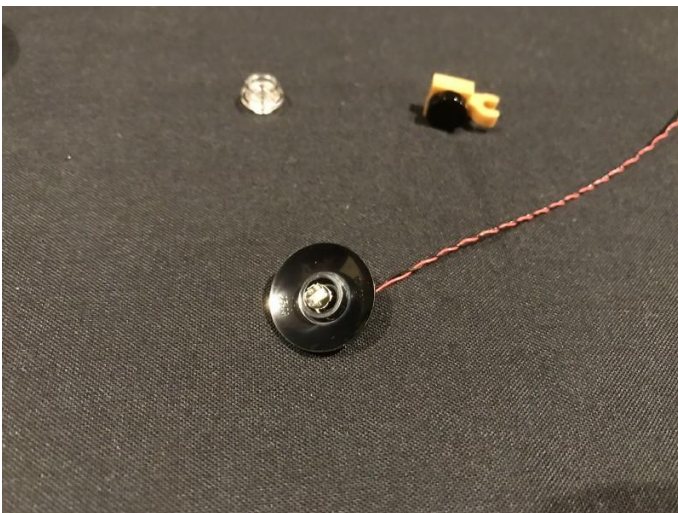
7. Disassemble pieces of the light section that sits above.



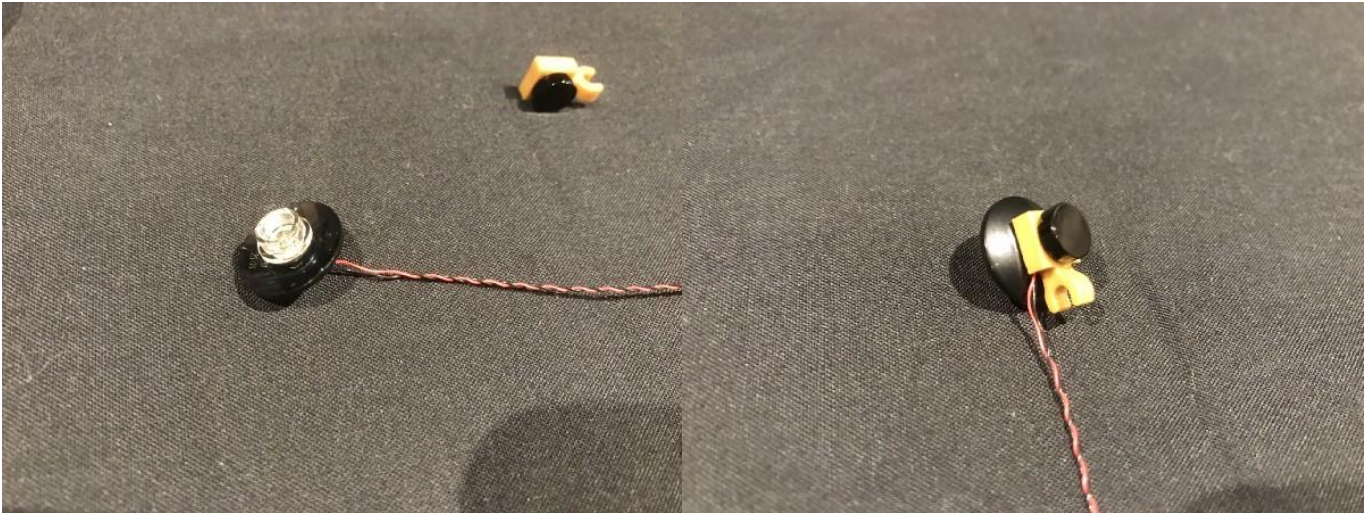
8. Take another White 15cm Dot Light and thread the connector side through the hole of the black dish piece. Thread the cable all the way through until the LED is right up against the hole as per below.



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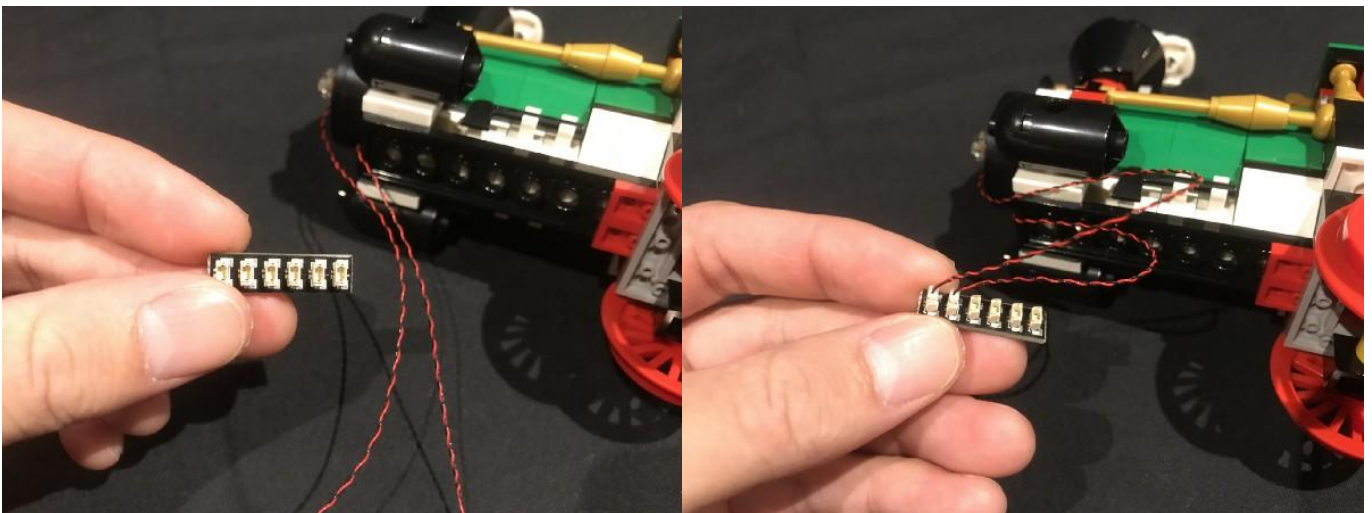
10.Reconnect pieces which make up this front light.



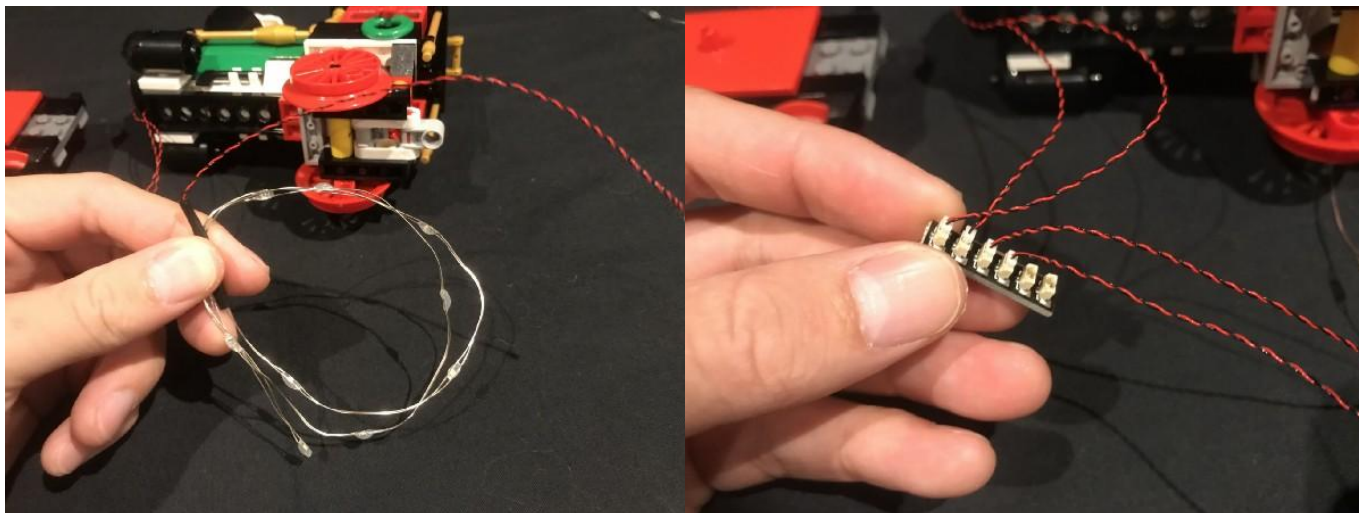
11.Reconnect both light sections back to the front of the train starting with the top light and ensure both cables are facing down.



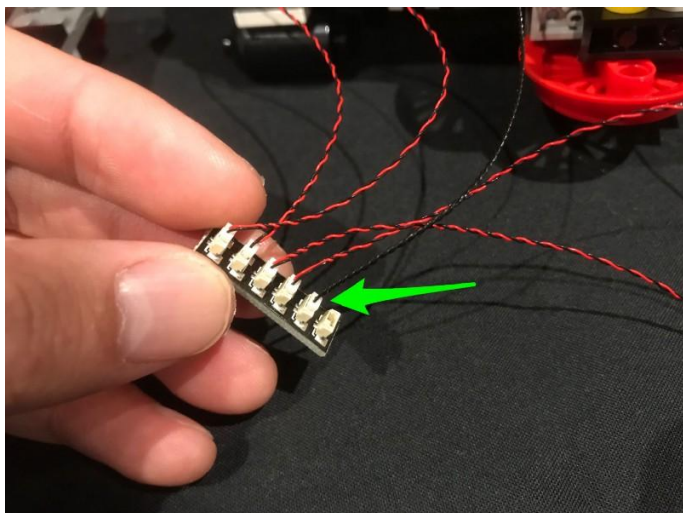
12.Take a 6-port Expansion Board and connect the two lights to the ports.



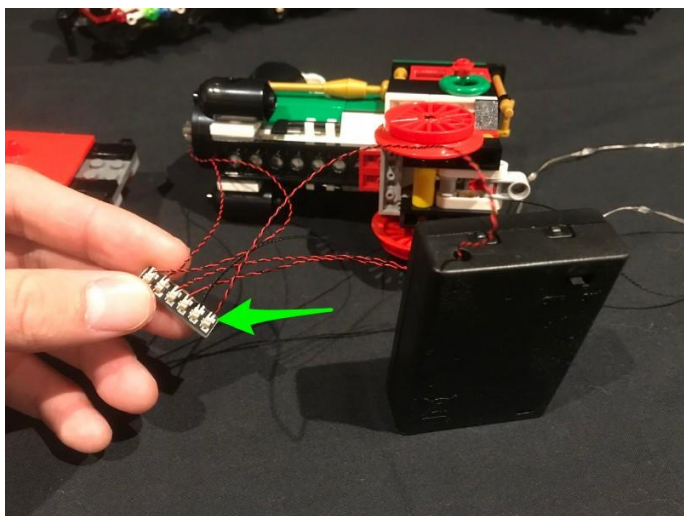
13. Take the 2x Multi Colour Light Strings and connect these to the next available ports on the expansion board.



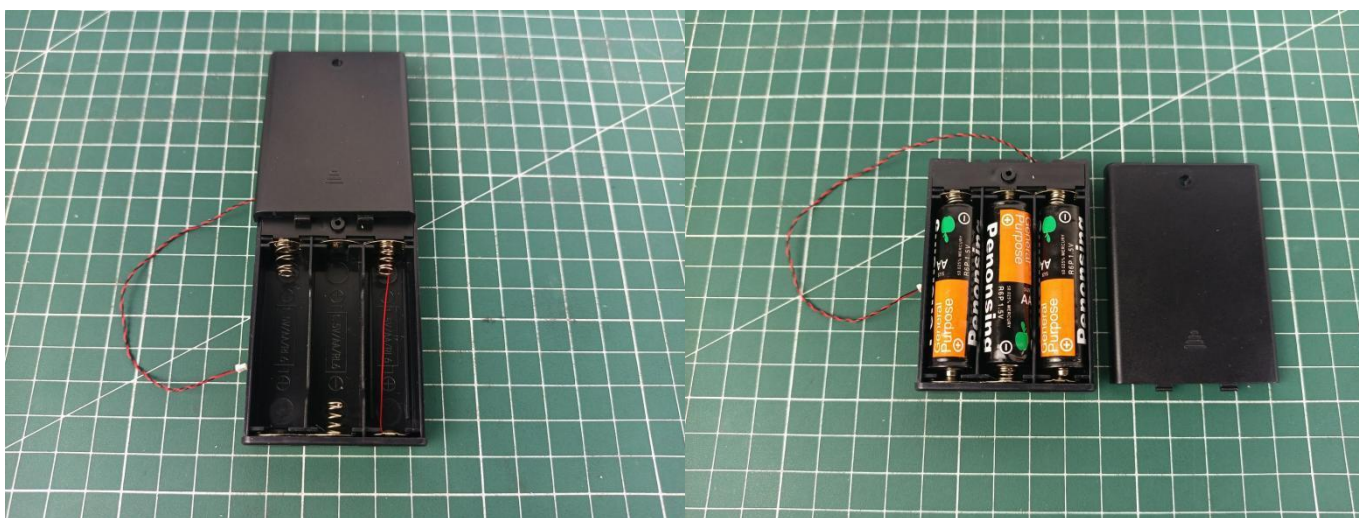
14. Take a 30cm Connecting Cable and connect one end to the next available port on the expansion board.



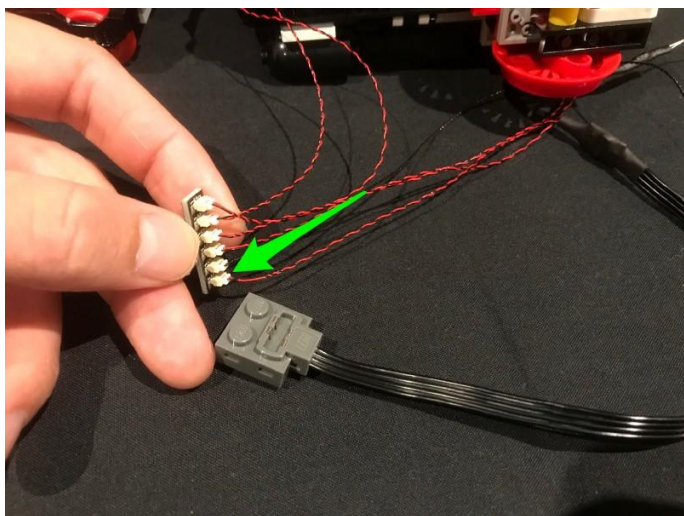
15.If you have chosen to power using the AA Battery Pack then insert 3x AA Batteries to it and then connect the battery pack cable to the remaining port on the expansion board.



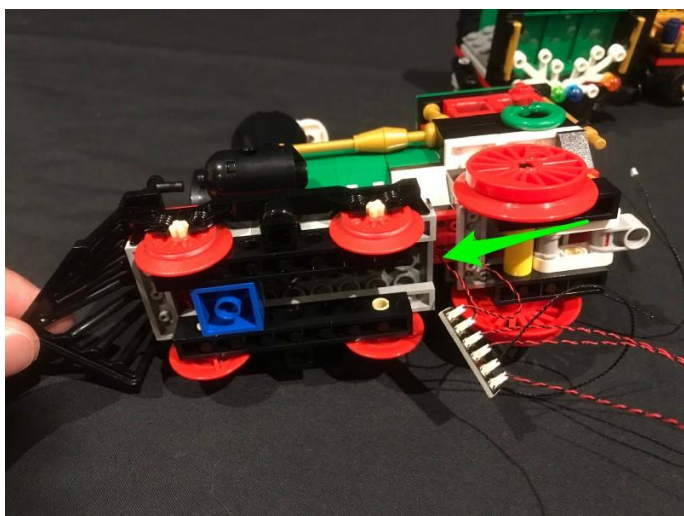
The AA Battery Box does not contain batteries, please buy three AA batteries in the nearest store and install it in the AA Battery Box.



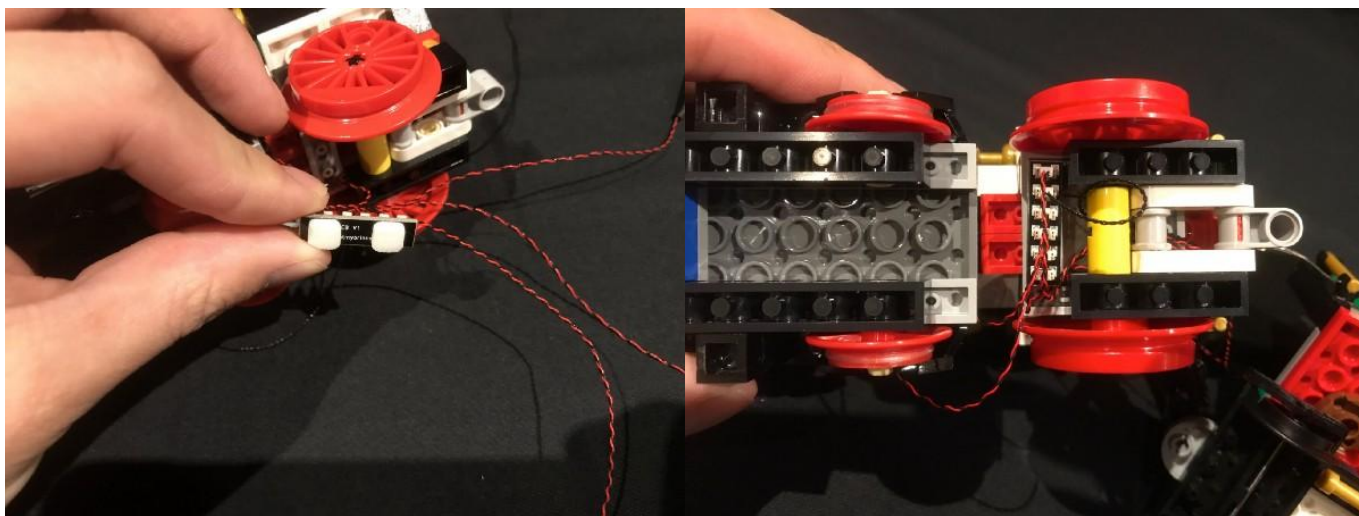
16.If you have chosen to power using the Vonado Power Functions Cable, then take this cable and connect it to the remaining port on the expansion board (instead of the AA battery pack).



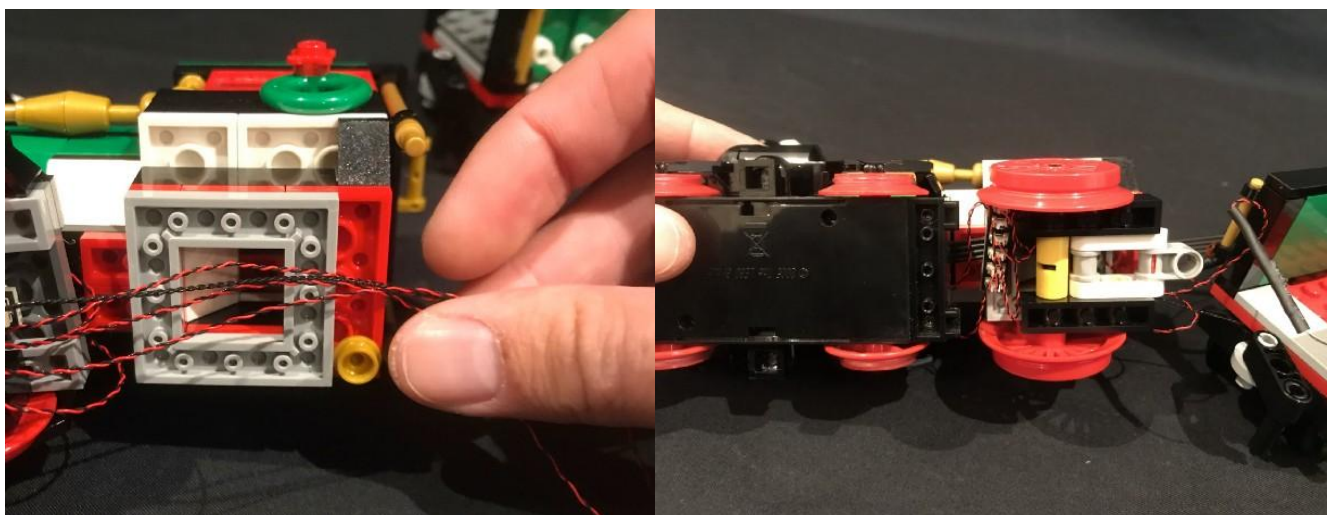
17.Reconnect the front wheels of the train ensuring the cables for the two front lights are neatly laid in between as per below.



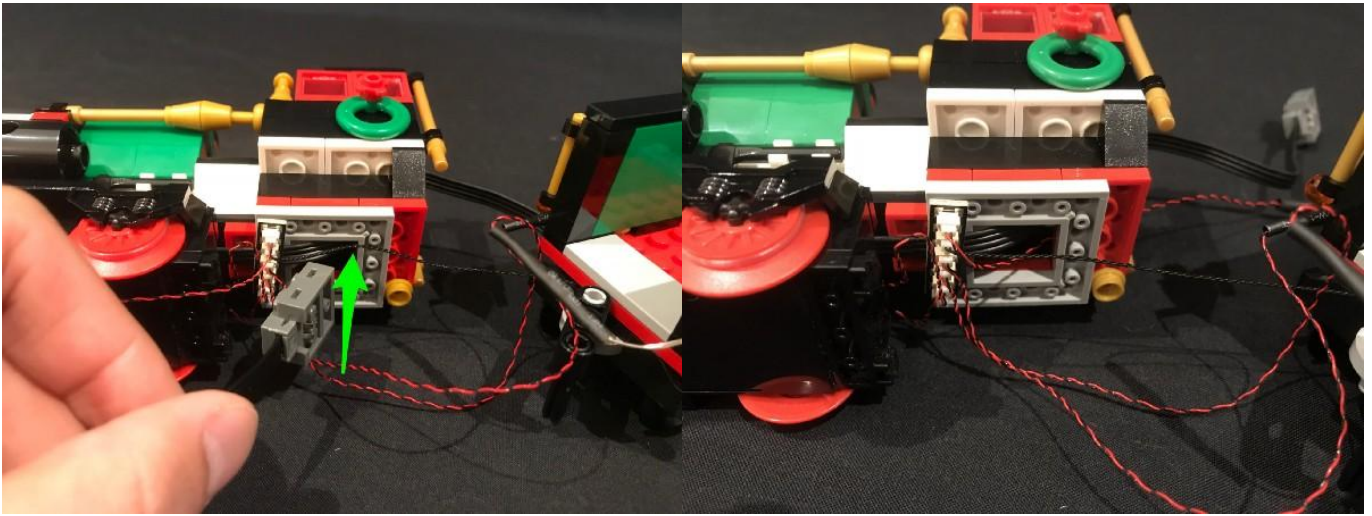
18. Using 2x Adhesive Squares, stick the expansion board underneath the train in the below position. Neaten all the cables and secure them underneath the back wheels section.



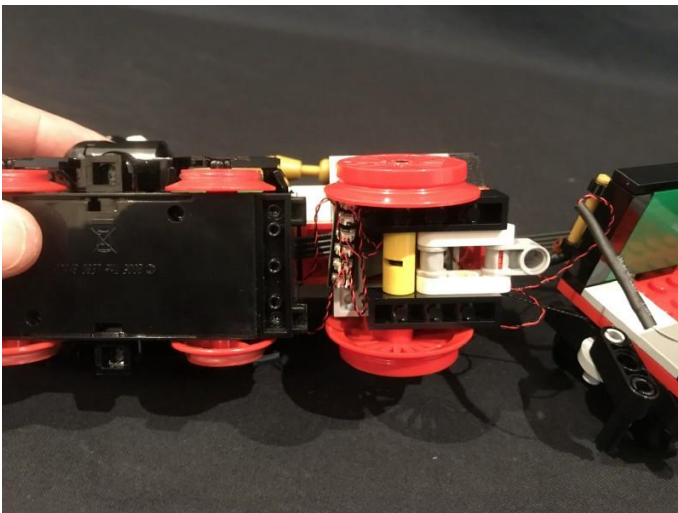
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20.If you are using the Vonado Power Functions Cable, then thread the connector up through the inside of the train before mounting the expansion board.



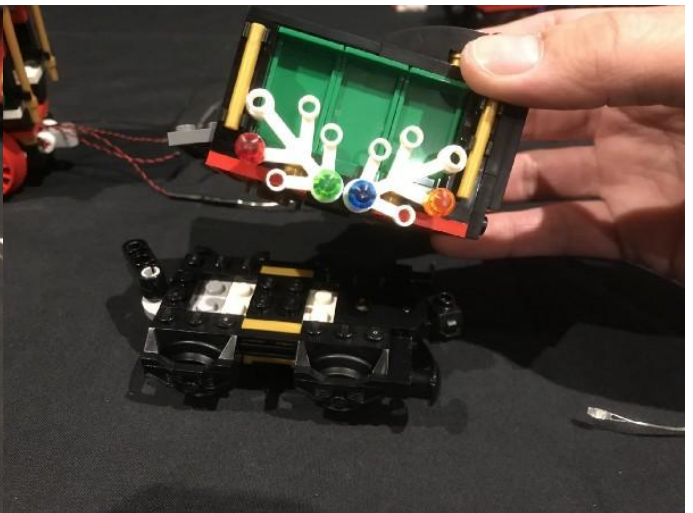
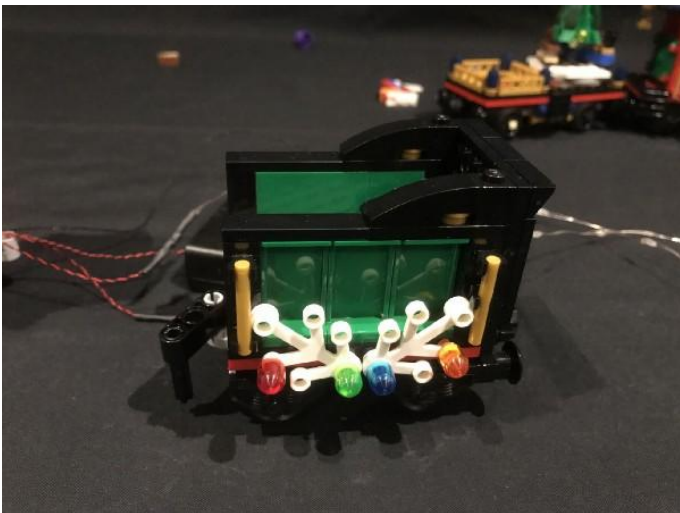
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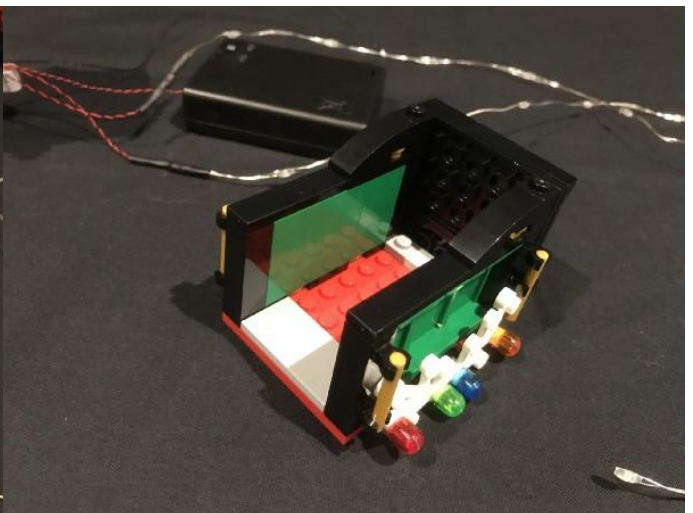
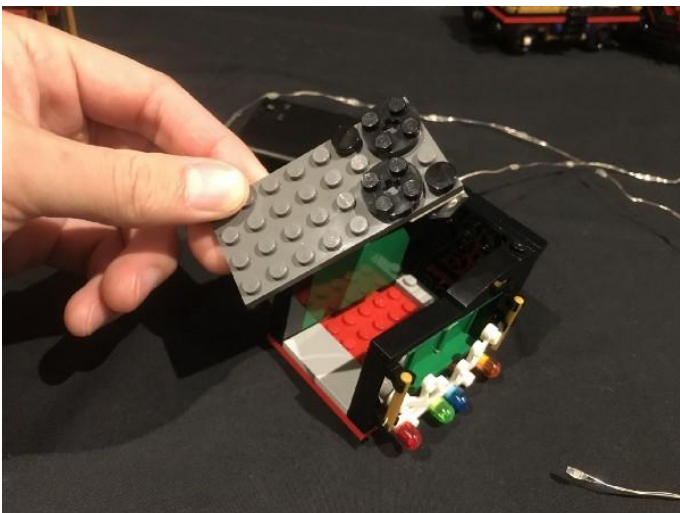
22. Turn on the battery pack (or connect the power functions cable to power pack) and test that all lights connected are working OK.



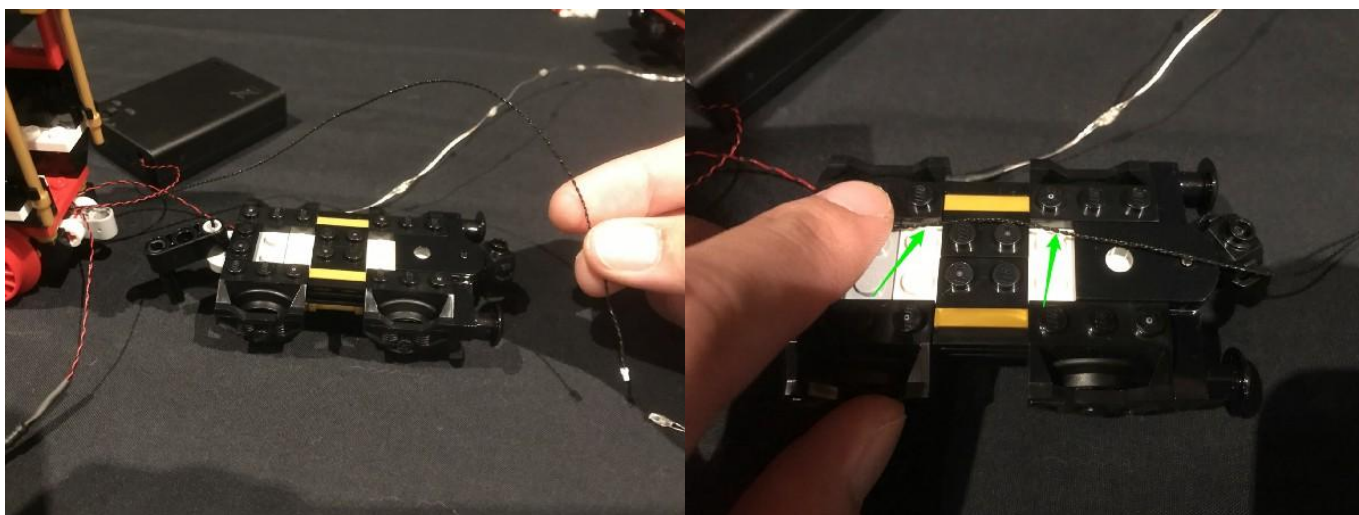
23. Take the next carriage and then remove the top section as well as the inside section as per below.



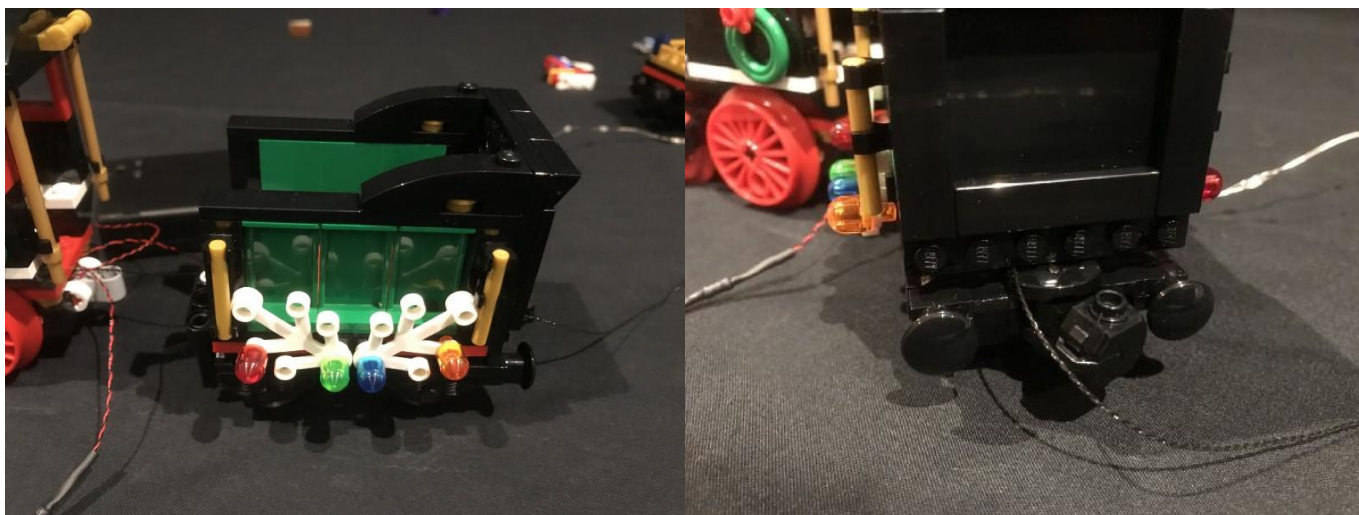
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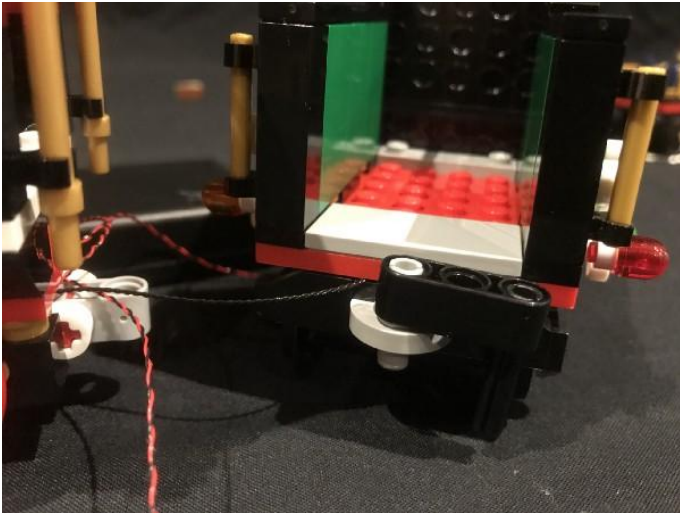


25. Pull the 30cm connecting cable all the way across from the front carriage and neatly lay it in between studs before reconnecting the top section over the top. Try not to leave too much cable slack between the first and second carriage as we need as much cable length as possible in order to reach to the remaining carriages.



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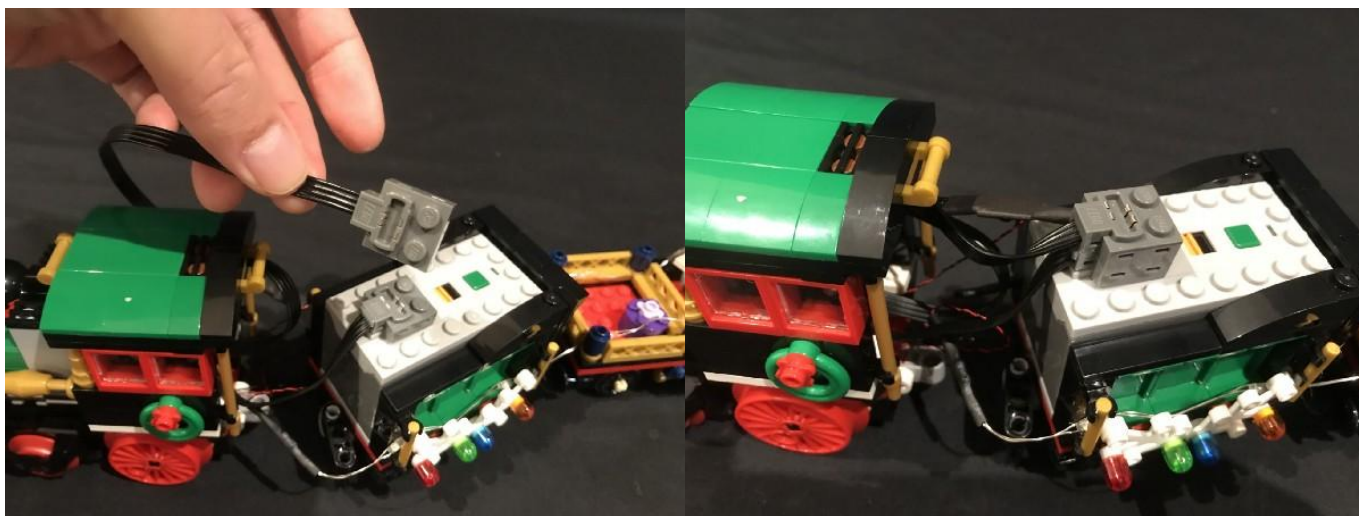




28. Hook the second carriage onto the first carriage and then place the AA Battery Pack inside the carriage as per below.



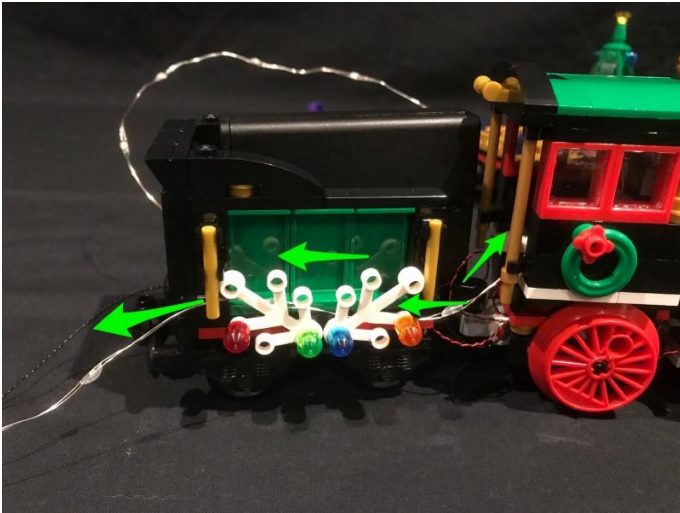
29.If you are using the Power Functions Cable, you can connect this onto the power pack and then neaten cables by tucking them into the inside of the front carriage.



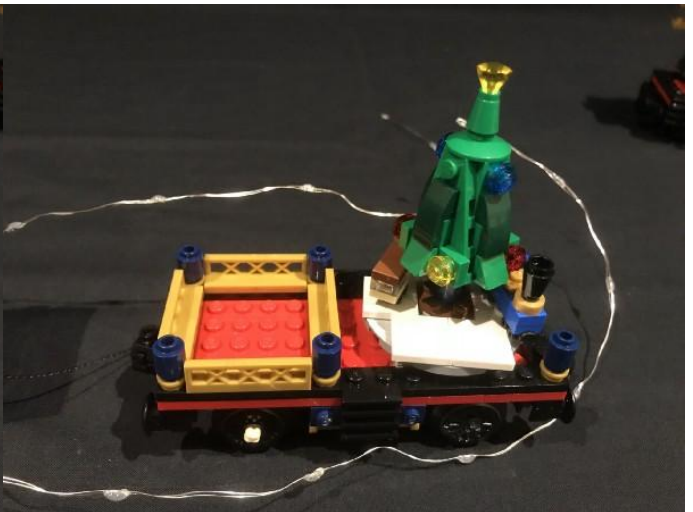
30.Feed the two Multi Colour Light Strings through and behind the white and gold pieces on each side of the carriage. Tuck the ends of the light strings into the first carriage.



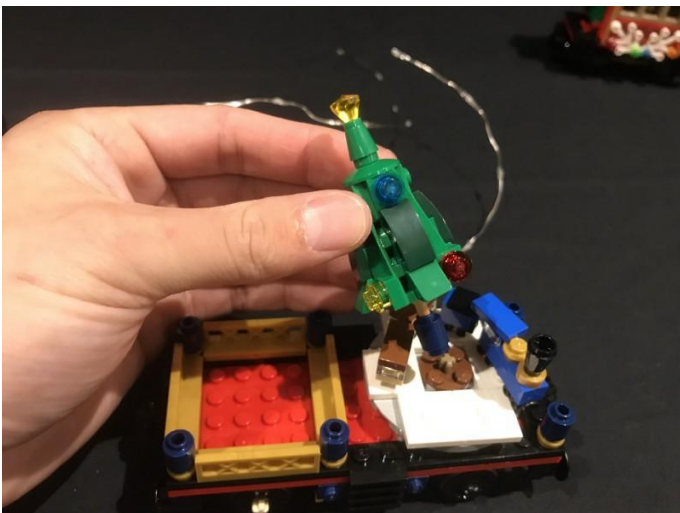
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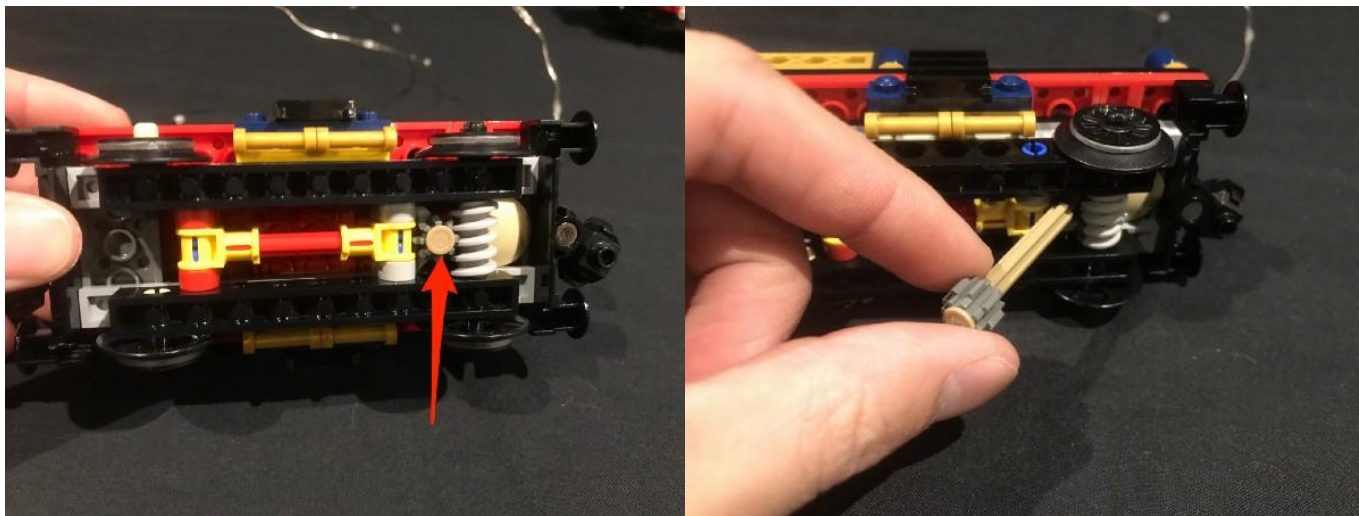
32. Take the third carriage and then remove the loose pieces from the front before removing the Christmas tree section.



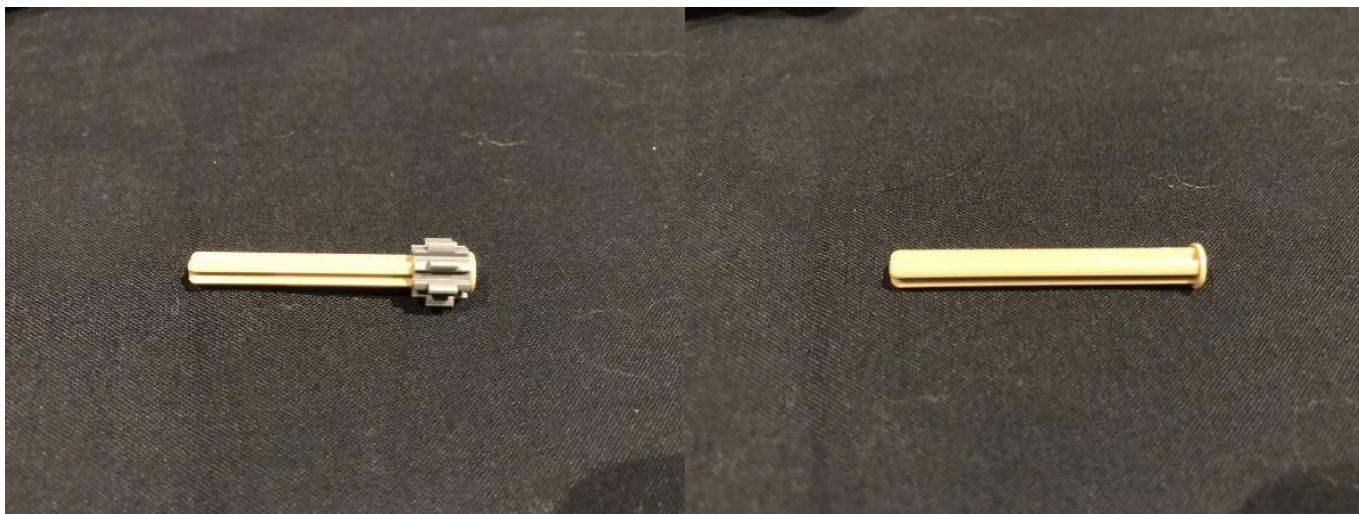
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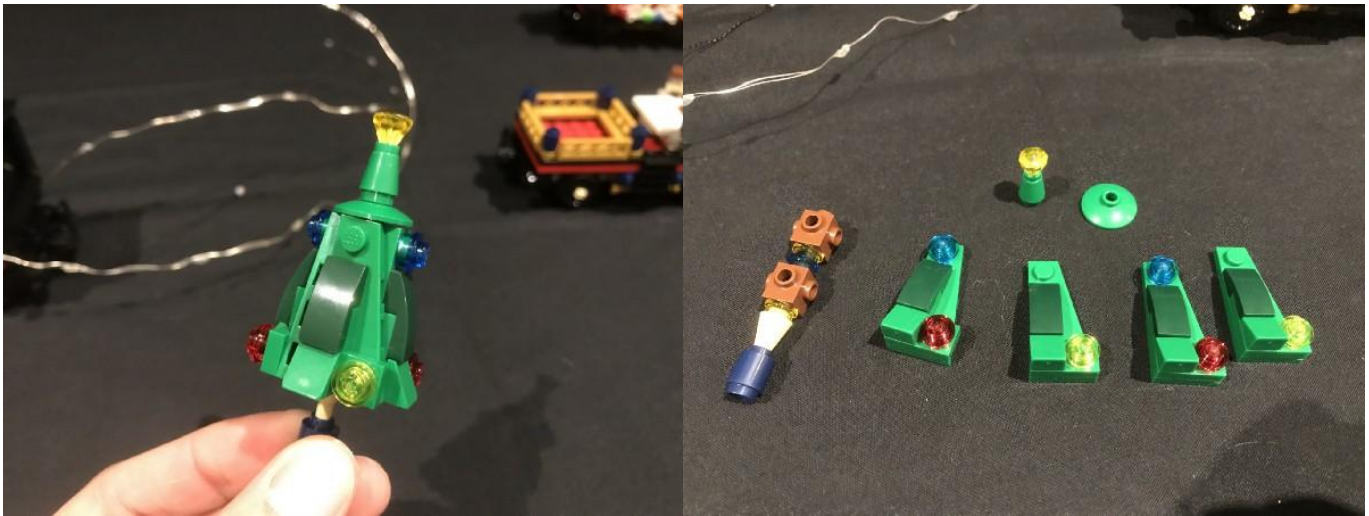
34. Turn the carriage over and then remove the technic bar from underneath.



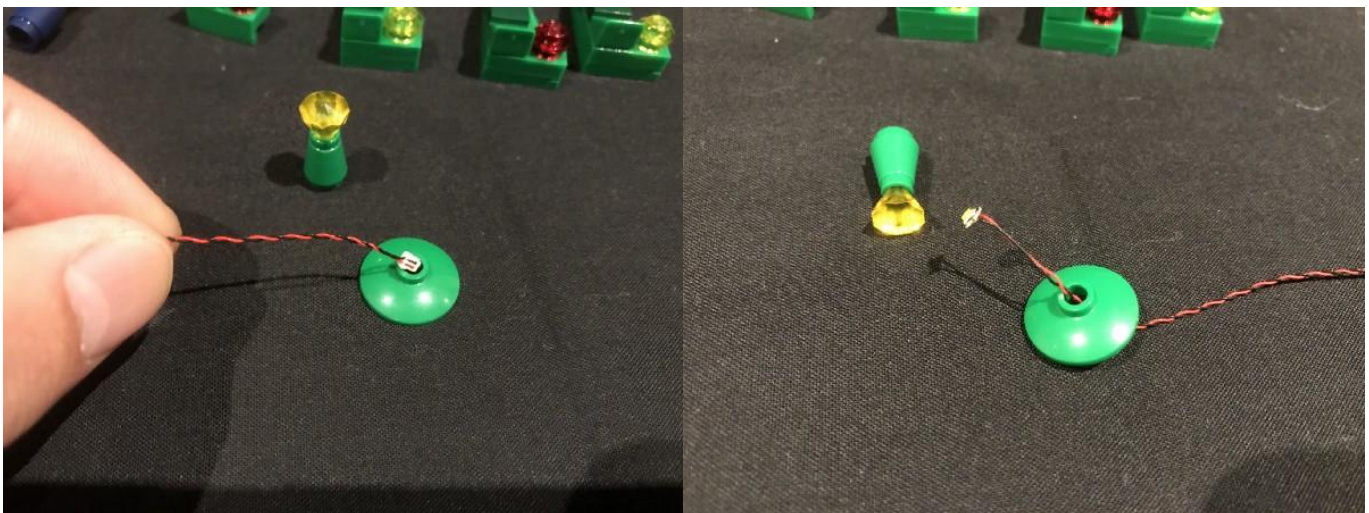
35. The Christmas tree will be unable to spin with this light kit installed therefore, we need to remove and discard the cog piece from the technic bar to prevent the tree from turning.

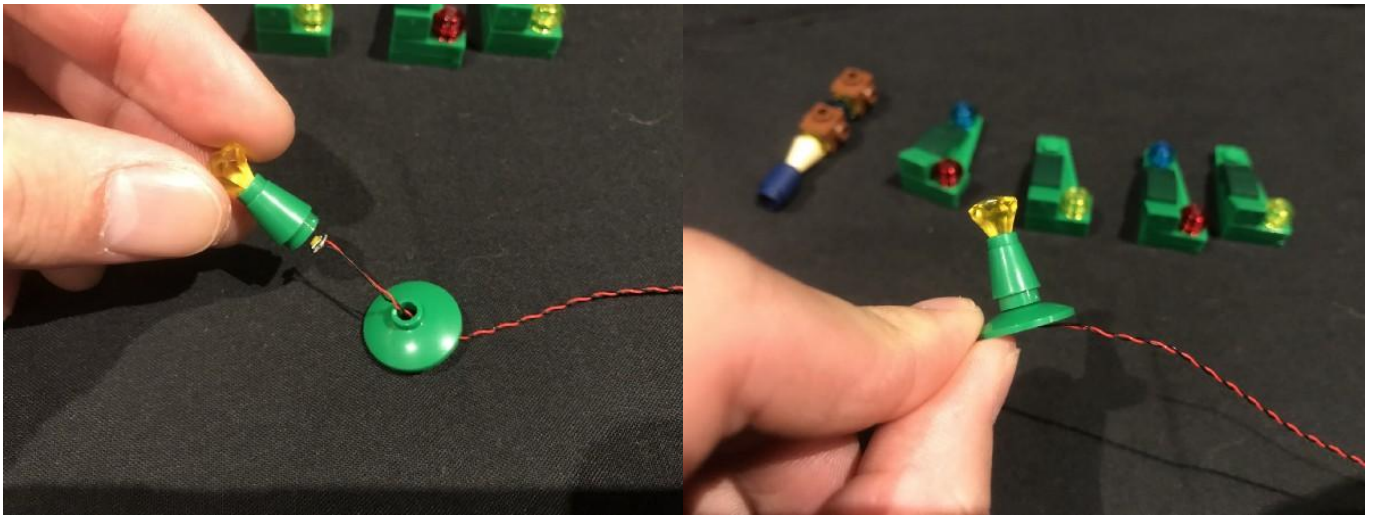


36. Disconnect the top and sides of the Christmas tree then disassemble pieces as per below



37. Take a Flashing White 15cm Dot Light and thread the connector side through the top of the green dish. Thread the cable all the way through and then bend the LED on a 90 degree angle so that the LED is facing up.. Place the top section over the LED and then push down and connect it to secure it in place.





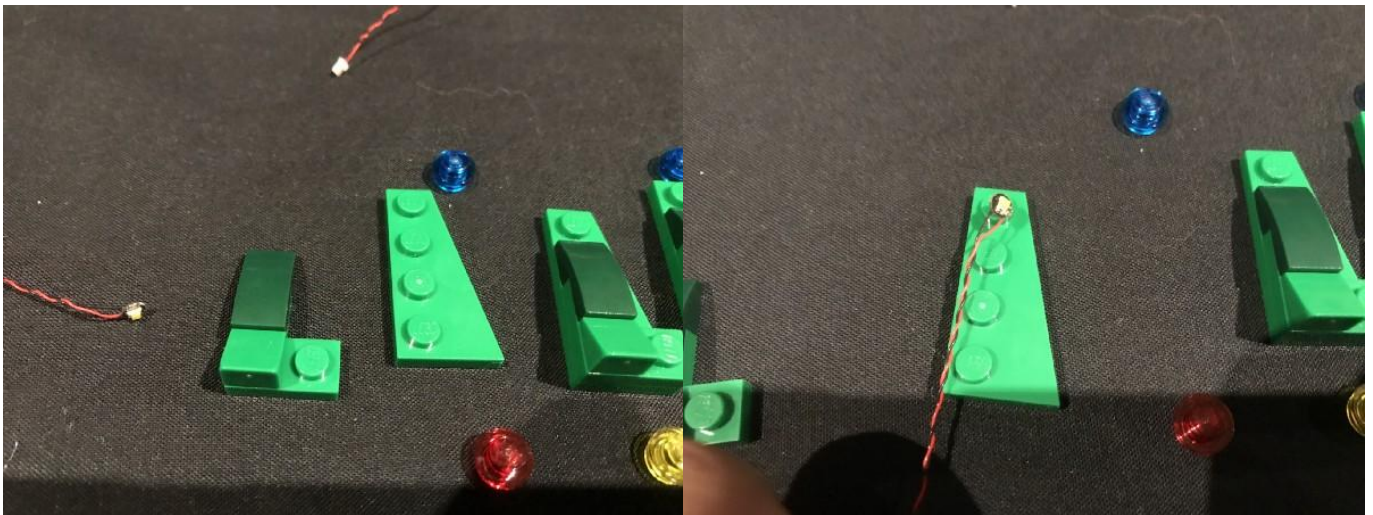
39.Reconnect the top section to the structure of the Christmas tree ensuring the cable is laid in between studs as per below.



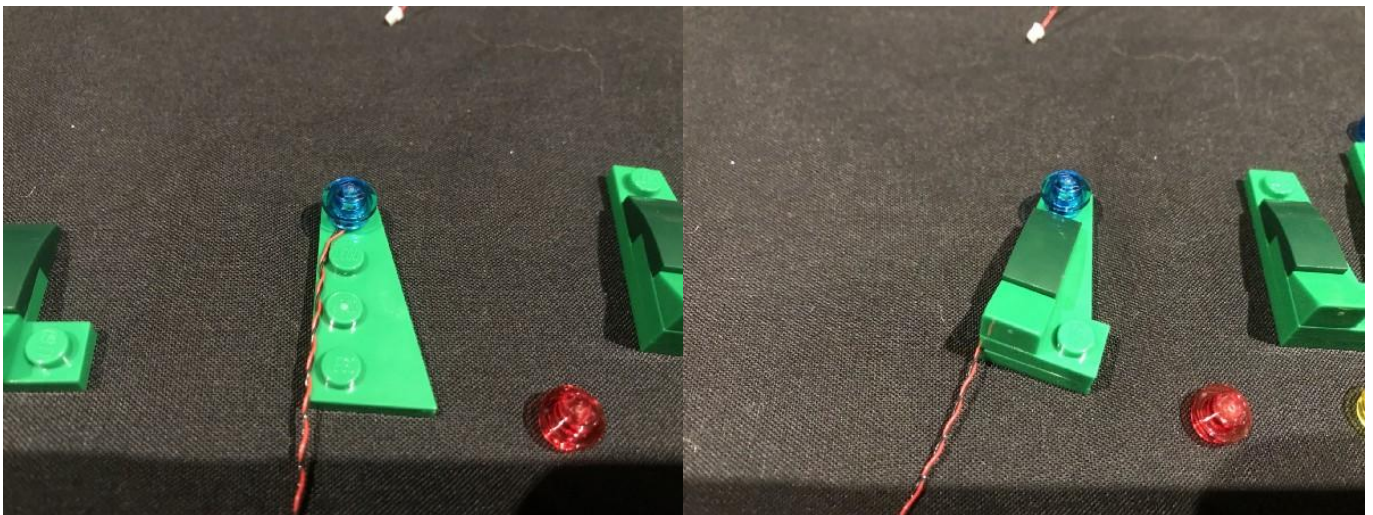
40.Disconnect the trans coloured round plates from all four sides of the tree.



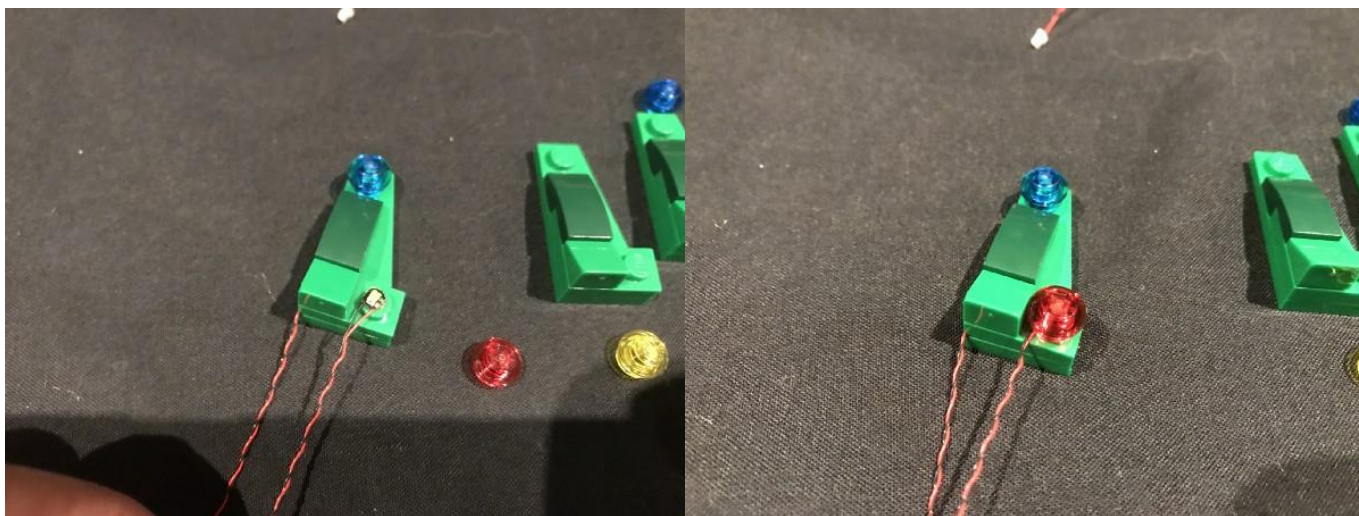
41. Remove the top plate from the first side (as per below) and then take a Flashing White 15cm Dot Light and place it directly over the top stud (with cable facing down). Secure the LED in place by reconnecting the trans blue round plate over the top followed by top plate we removed earlier ensuring the cable is laid in on the outside of the studs.



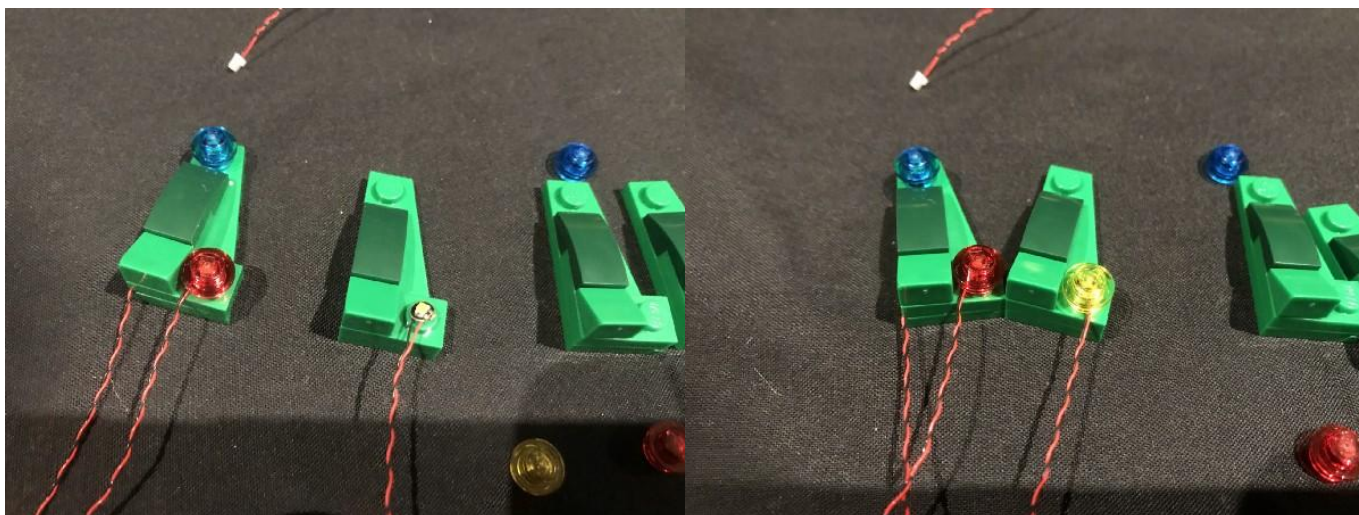
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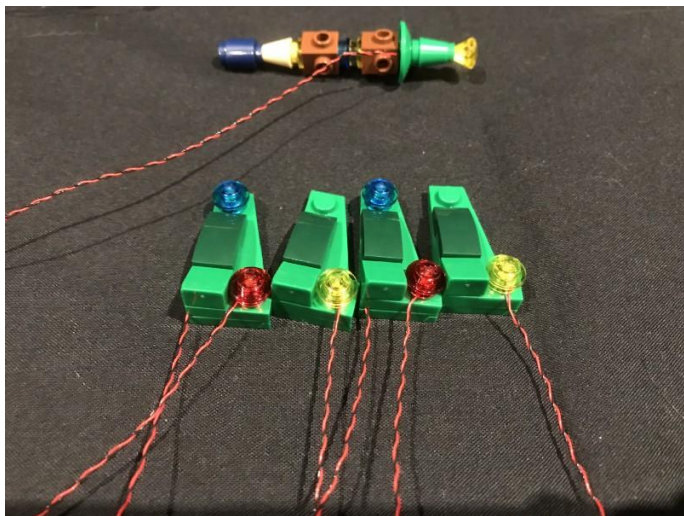
43. Take another Flashing White 15cm Dot Light and place it directly over the bottom right stud. Secure it in place by reconnecting the trans red round plate over the top as per below.



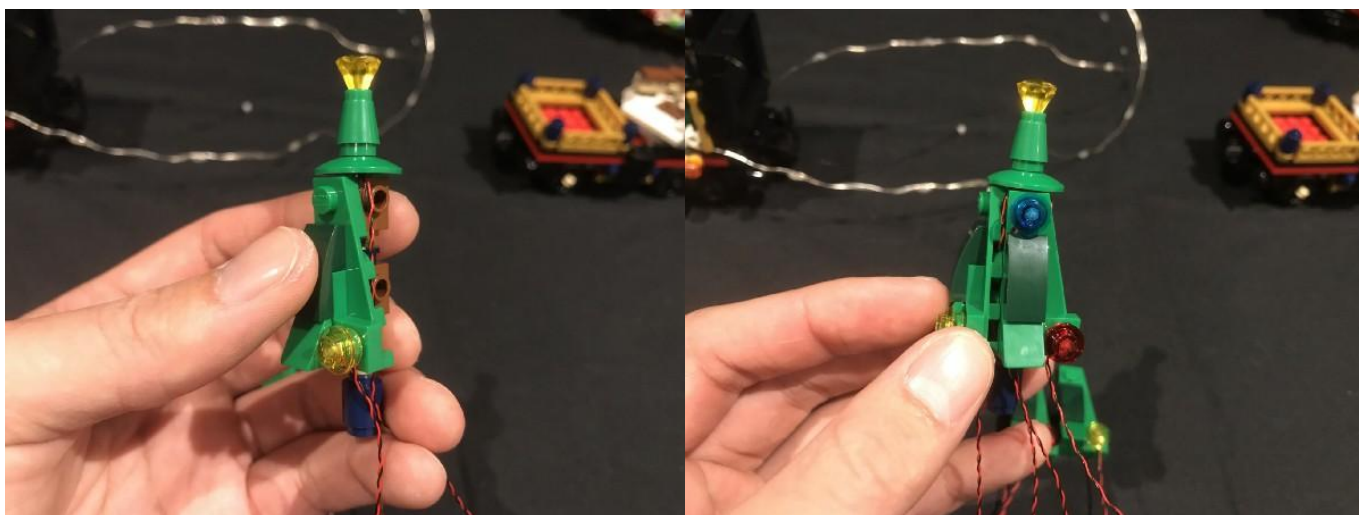
44. Take another Flashing White 15cm Dot Light and place it directly over the bottom stud on the next plate. Secure it in place by reconnecting the trans yellow round plate over the top.



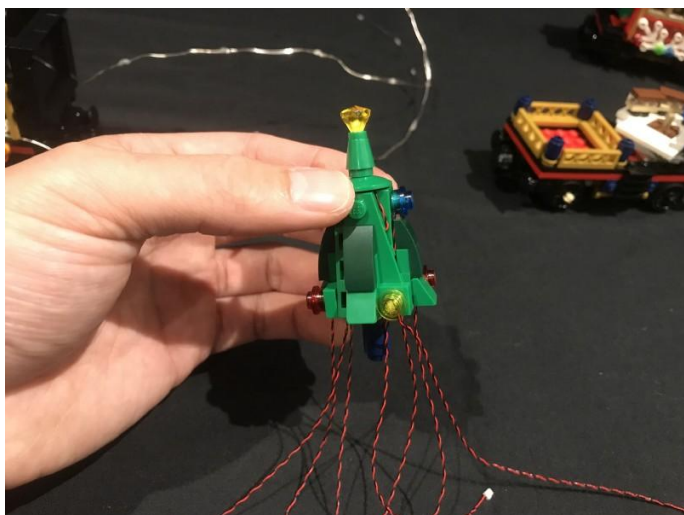
45.Repeat this process to install another 3x Flashing White 15cm Dot Lights over the next 2 sides.



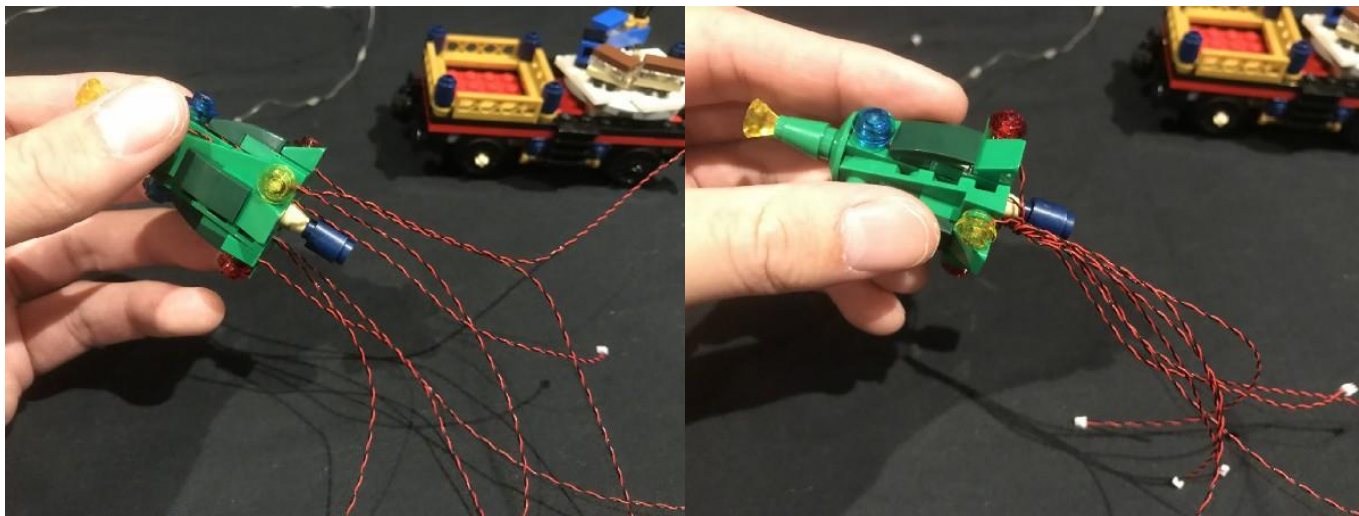
46.Reconnect each side back to the structure of the tree ensuring the cable from the top light is laid in between pieces as per below



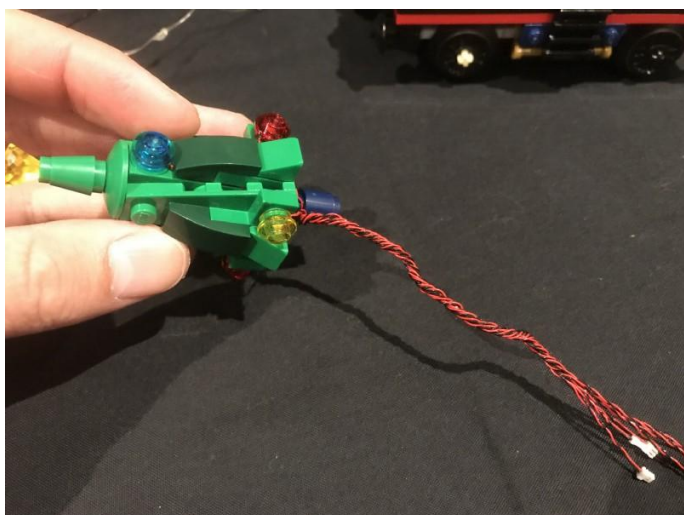
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48. Take all 7 cables and then twist them around each other at the base of the tree so that they all come together forming one larger cable.



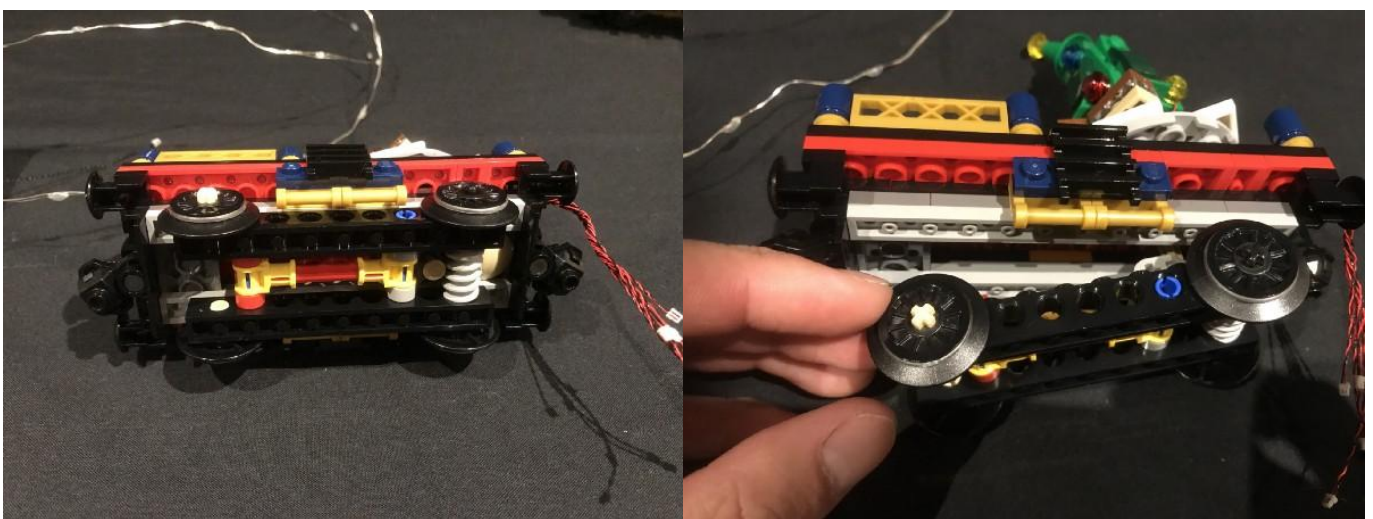
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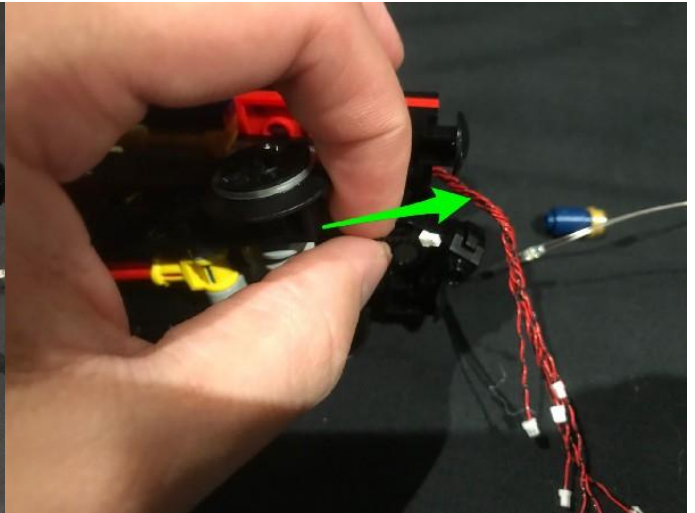
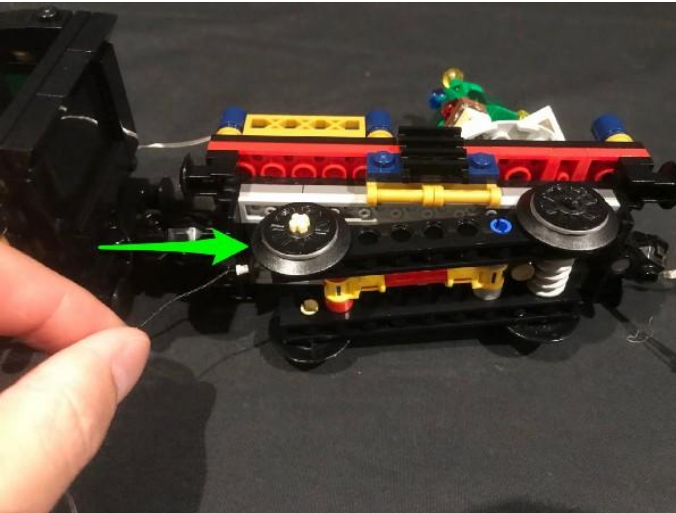
50.Re-insert the technic bar we removed earlier underneath the carriage and then reconnect the tree on top of the carriage ensuring the cable is facing toward the back.



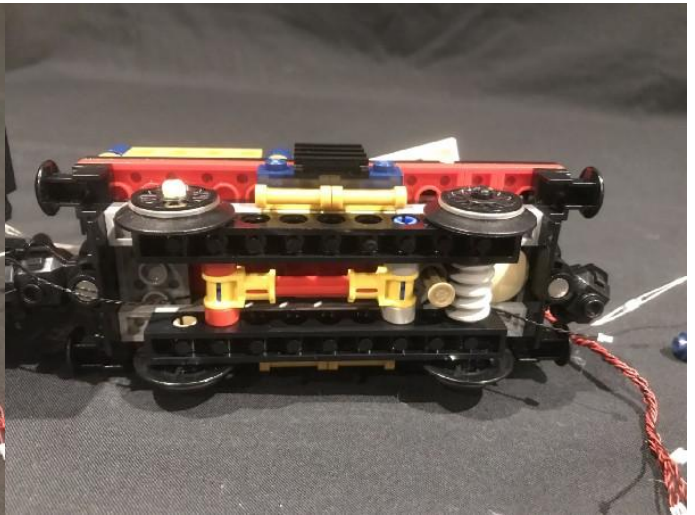
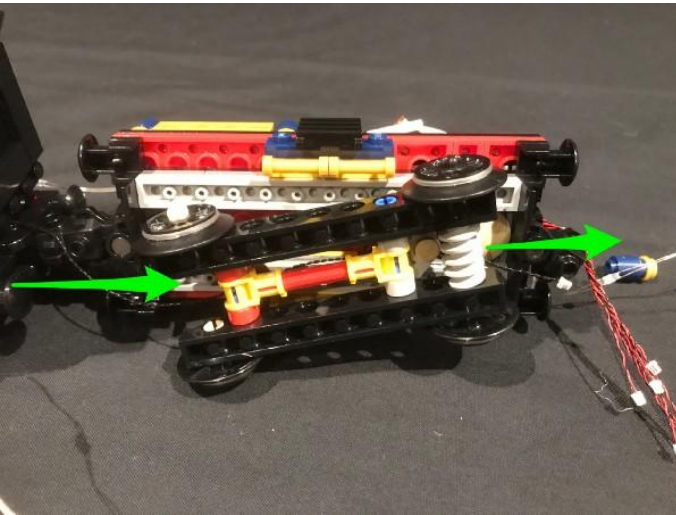
51.Turn the carriage over again and then slightly remove the left side of the wheel section. Locate the other end of the 30cm connecting cable from the front carriage and then pull it across and thread it through the middle of the carriage. Pull it all the way out from the other side and then reconnect the wheel section back to the carriage to secure the cable in place. Before doing so, ensure the cable is laid in between studs.



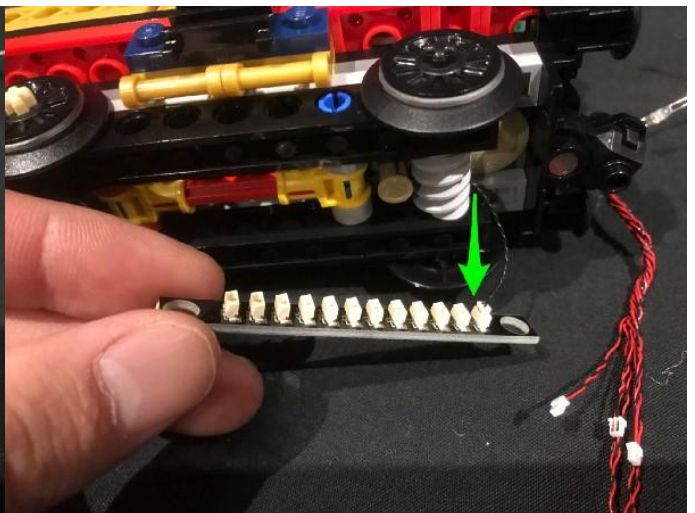
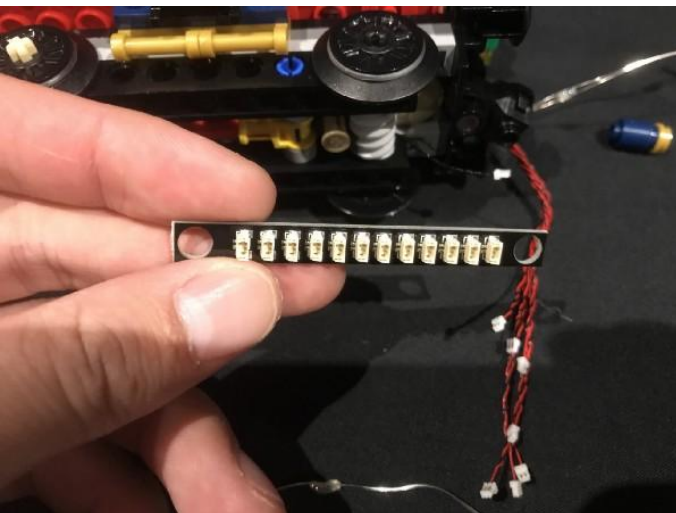
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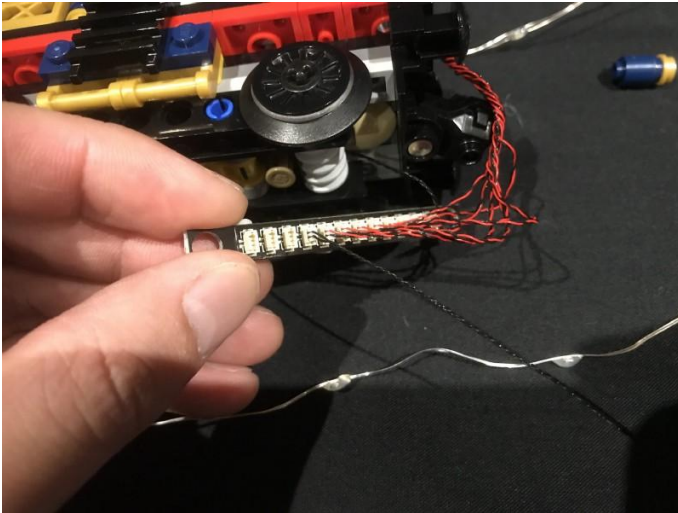


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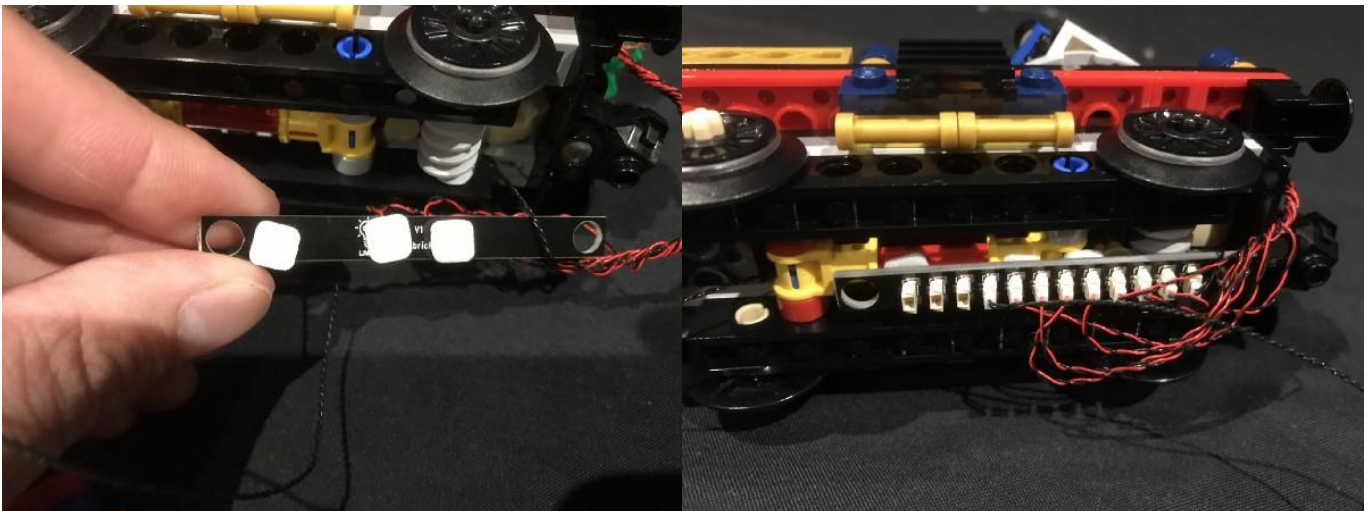


54. Take a 12-port Expansion Board and connect the 30cm connecting cable to the first port (from the right) then connect all the cables from the Christmas tree to the other spare ports.

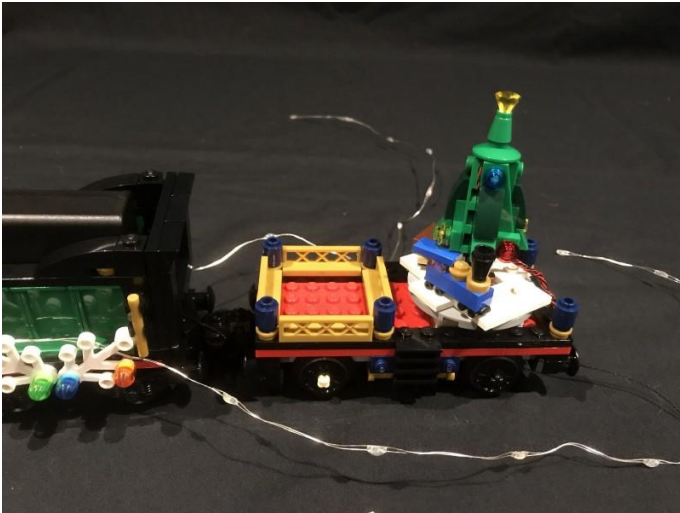




56. Take a 15cm Connecting Cable and connect it to the next available port along the expansion board then mount the expansion board underneath the carriage in the below position using 4x Adhesive Squares. Neatly tuck in all the cables by pushing them up to prevent them from hanging down and dragging along the tracks. Turn the carriage back over and connect it to the second carriage.



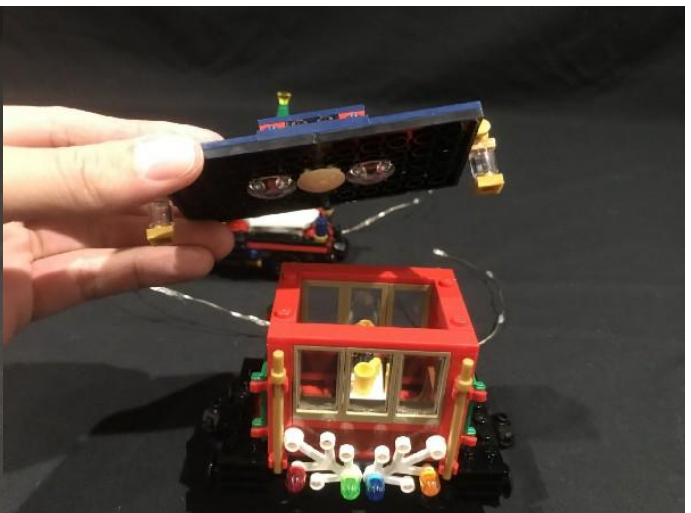
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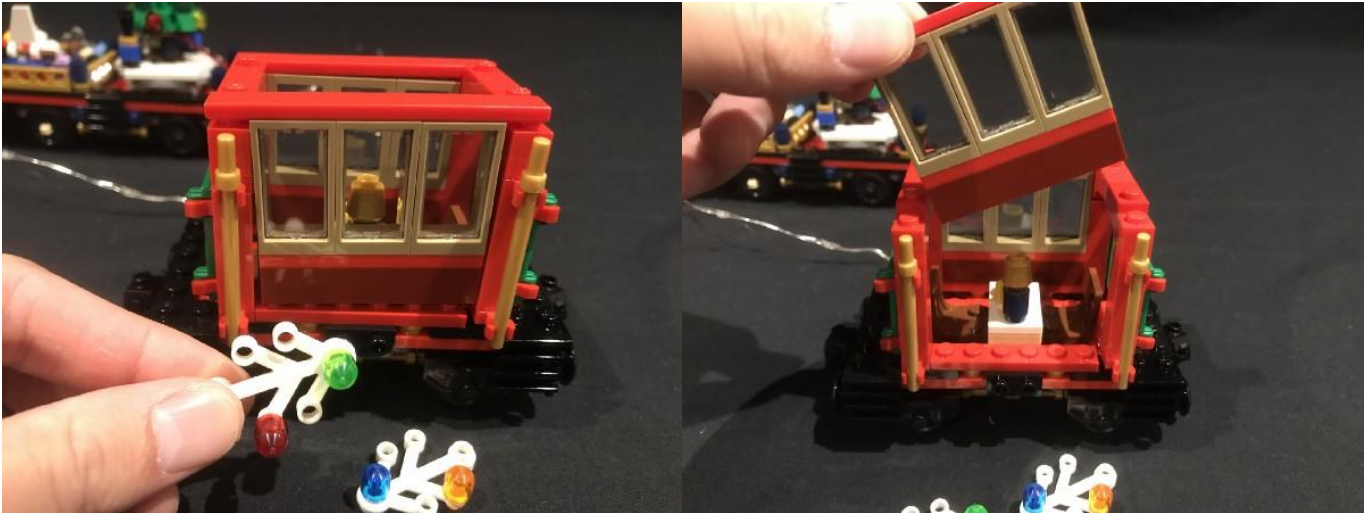
58. Turn on your battery pack and test to ensure all the lights currently connected are working OK.



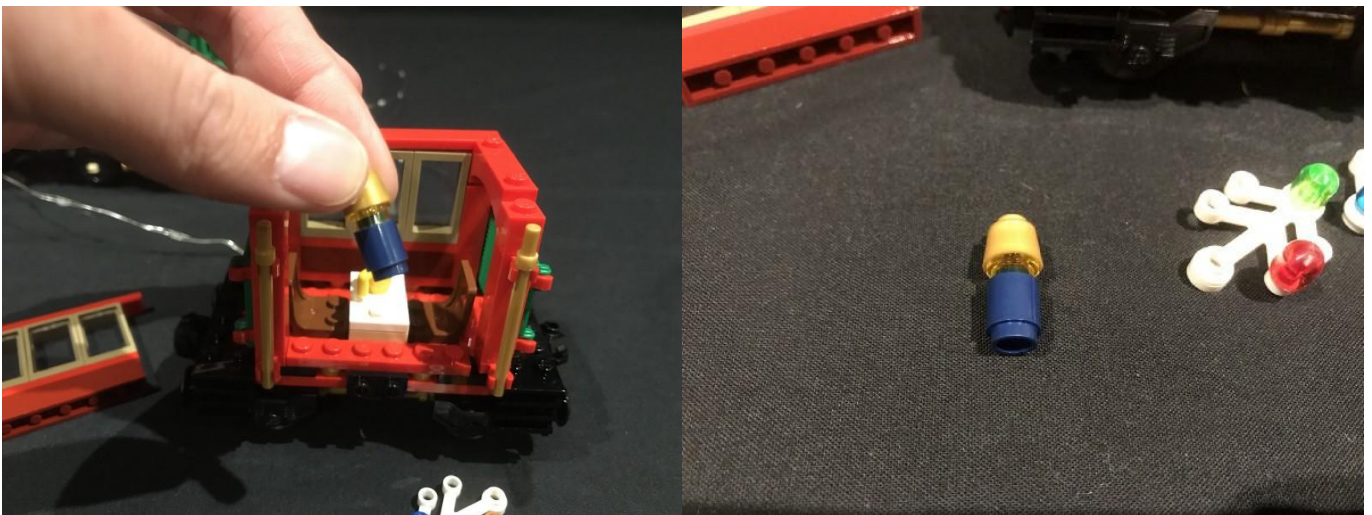
59. Take the last carriage and remove the roof as well as side window sections as per below



60



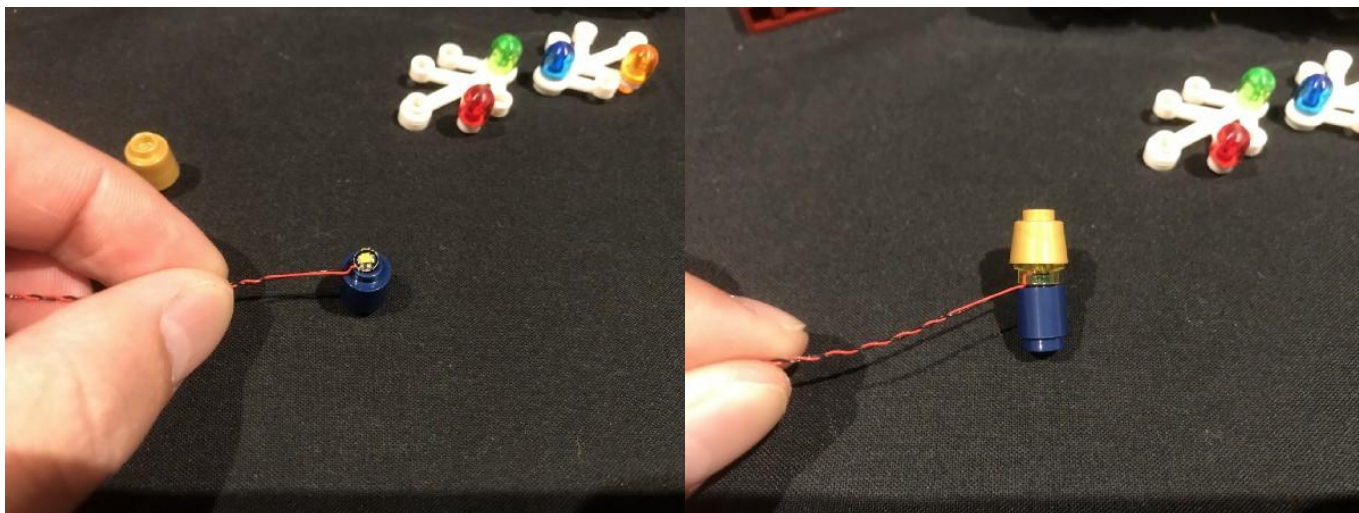
61. Remove the lamp and then disassemble it as per below.



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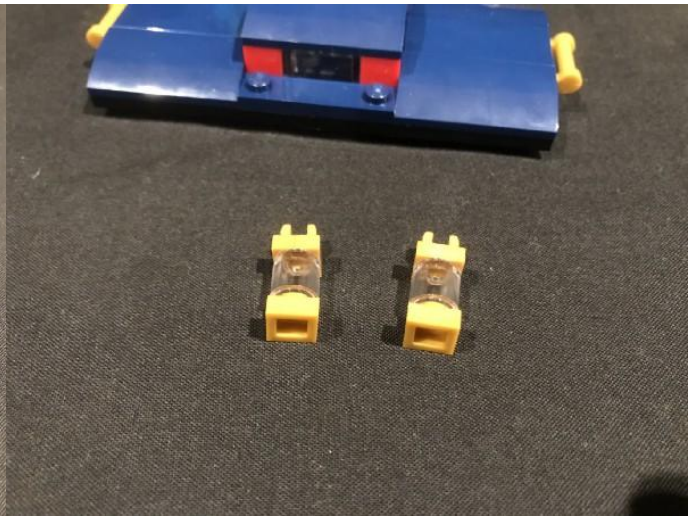
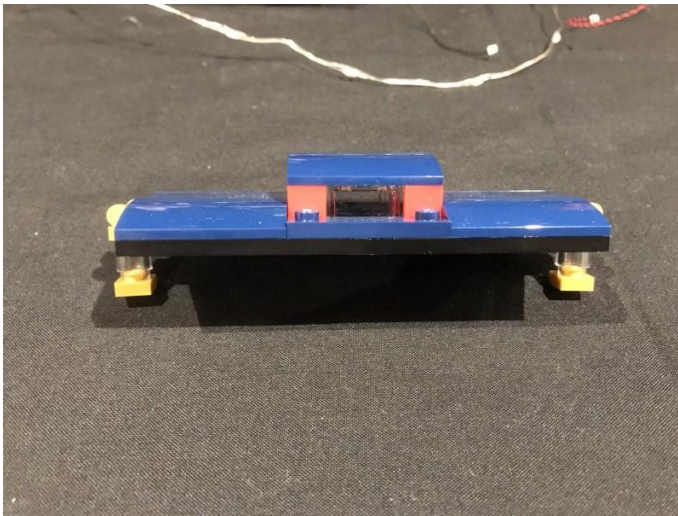
63. Take a White 15cm Dot Light and place it directly over the blue stud. Reconnect the top section of the lamp to secure it in place and then reconnect the lamp to the inside of the carriage as well as the side window sections.



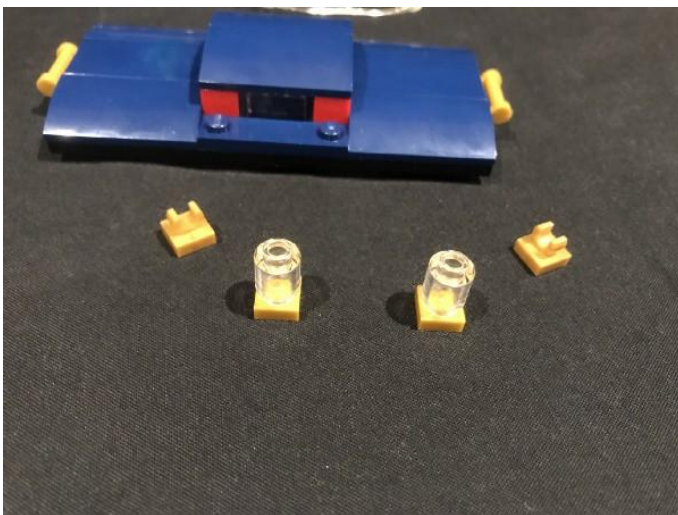
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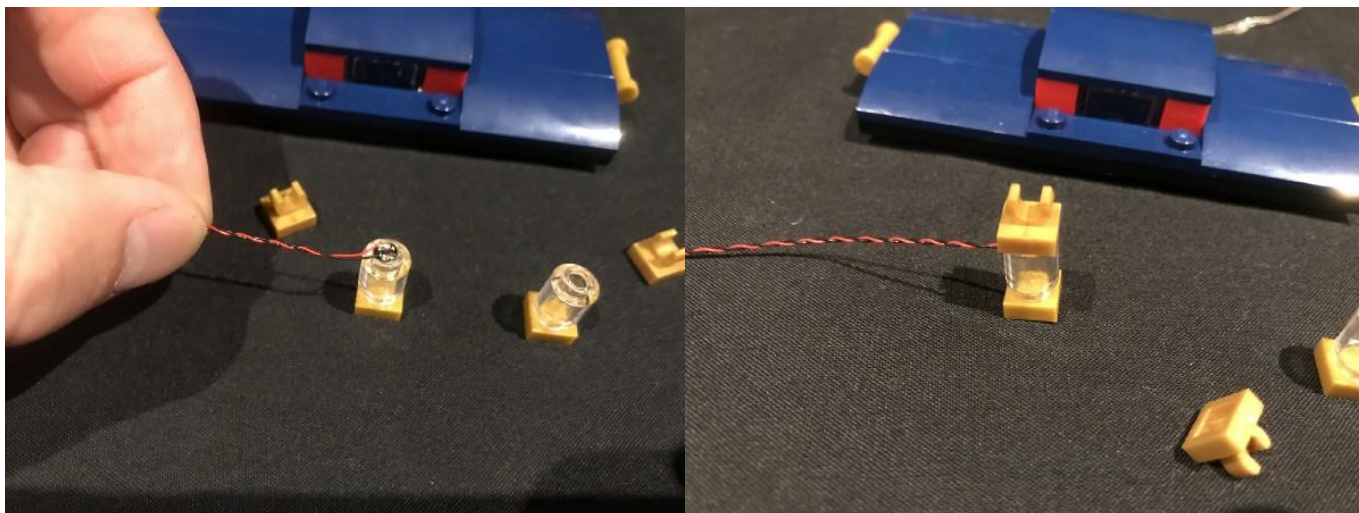
65.Remove the two lamps from the roof and then disassemble pieces as per below



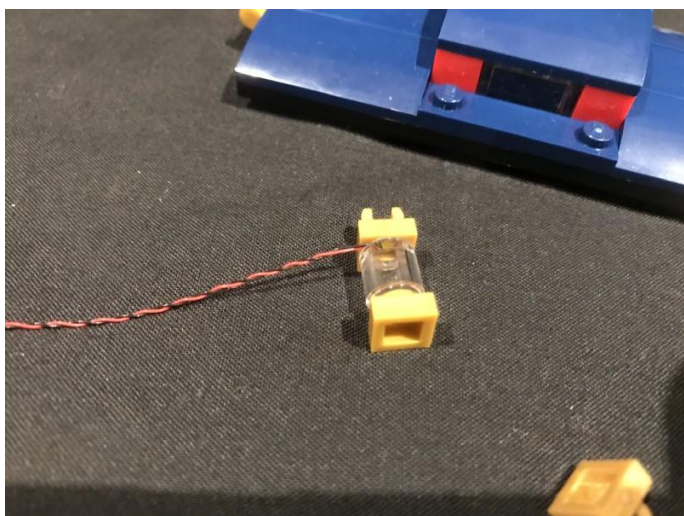
66



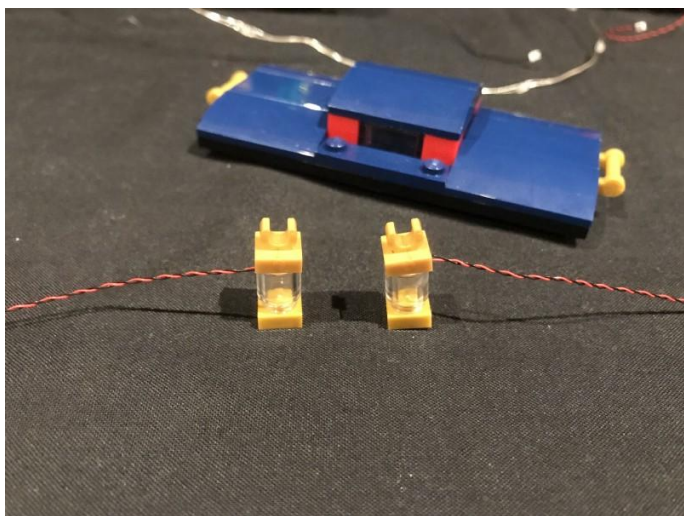
67. Take a White 15cm Dot Light and then place it (Facing down) directly over the trans clear round brick. Ensure the Dot Light is facing down before reconnecting the top plate with clip on top to secure it in place.



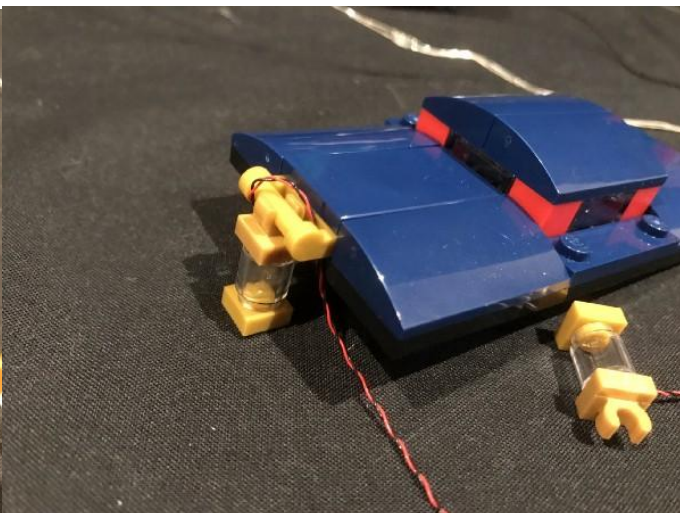
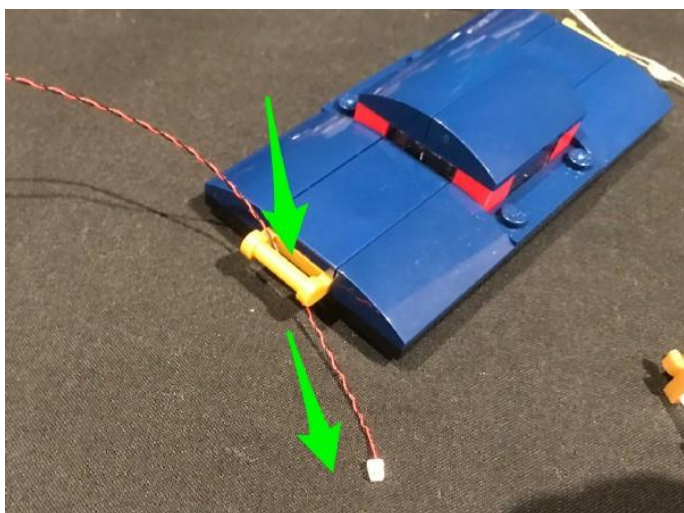
68



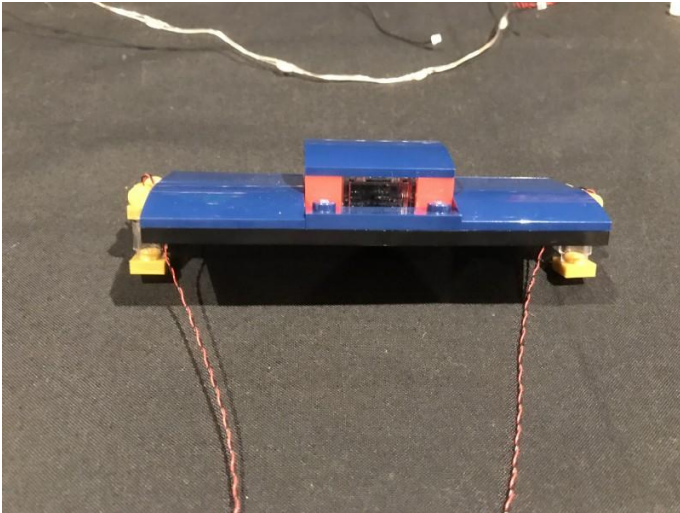
69.Repeat this step to install another White 15cm Dot Light to the other roof lamp ensuring the Dot Light is facing down over the trans clear round brick.



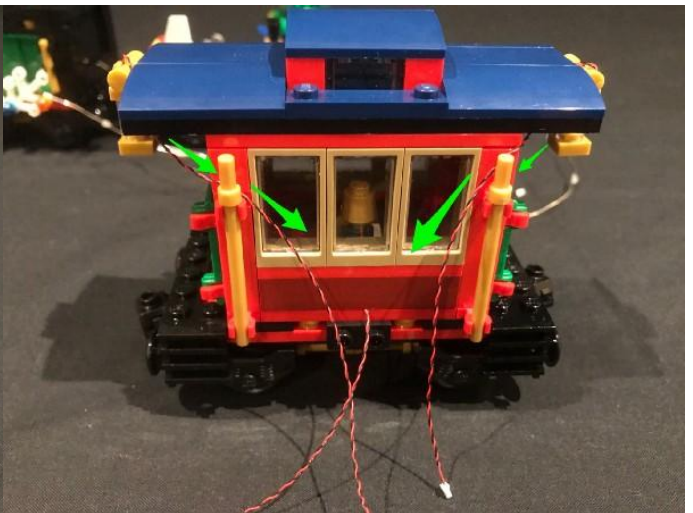
70.Thread the cable for each light through the top of the roof in between gold bar and side of the roof. Pull the cable all the way down from underneath before reconnecting the lamp back in place to each side.



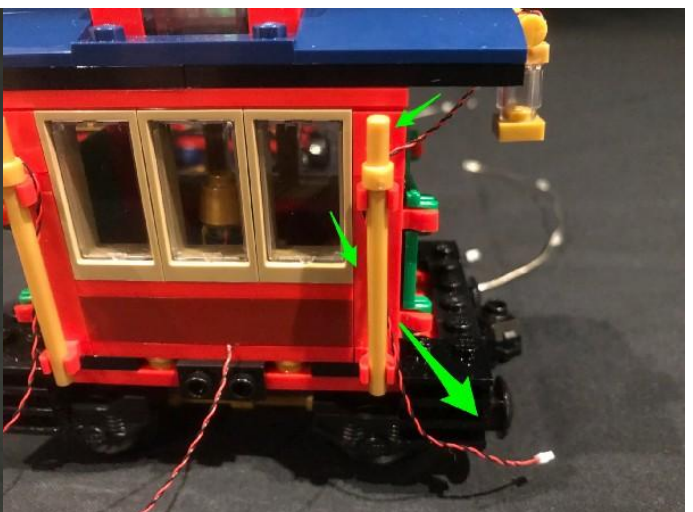
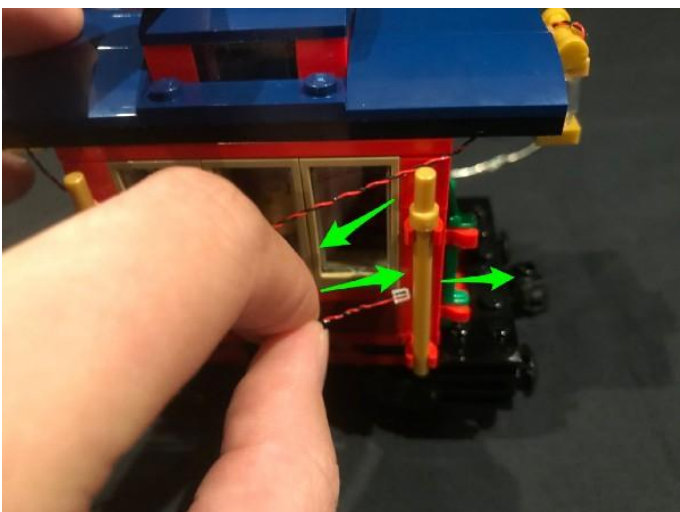
71

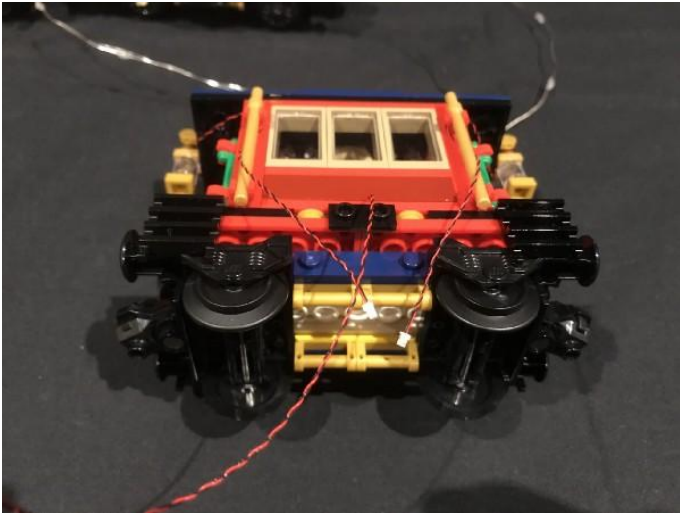


72.Reconnect the roof to the carriage then pull each roof lamp cable down behind the gold bars and then thread them back through to the outside as per below

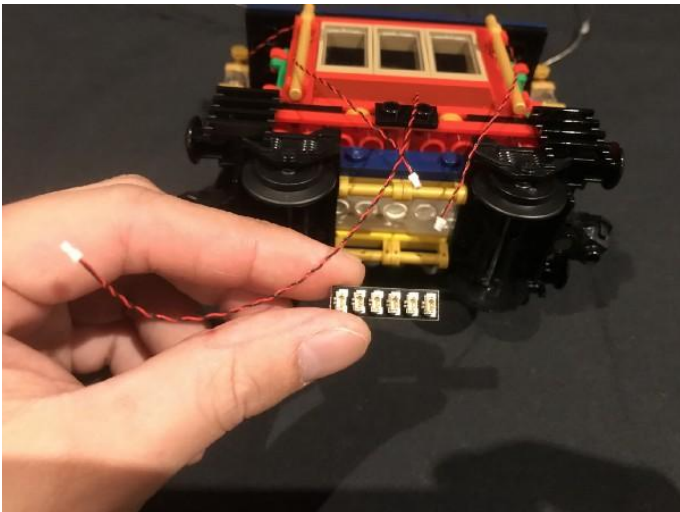


73

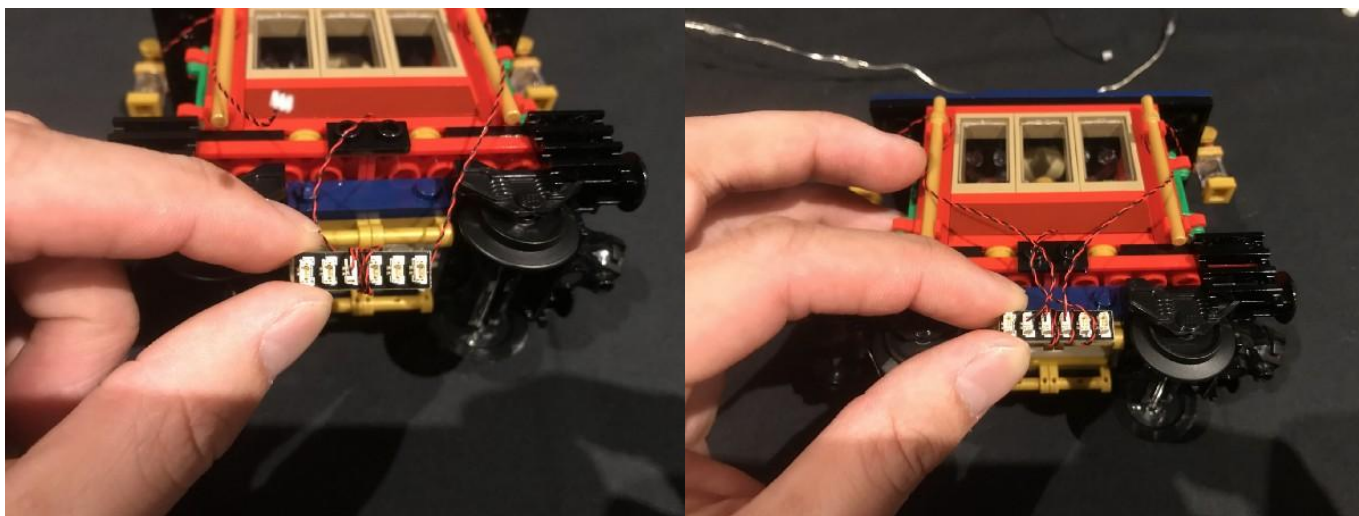




75. Turn the carriage over and then connect the lamp cable from the inside of the carriage to one of the middle ports of the 6-port Expansion Board.



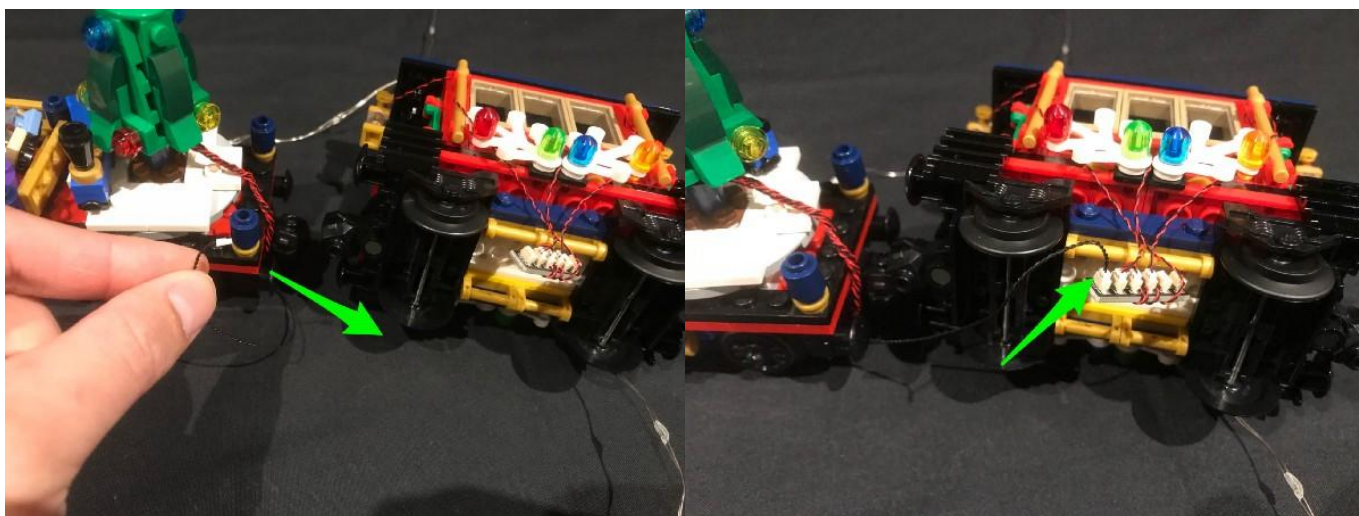
76. Wind the cable around the expansion board a few times to eliminate excess cable. When the board is roughly at the same length of the remaining two cables, connect them to the expansion board.



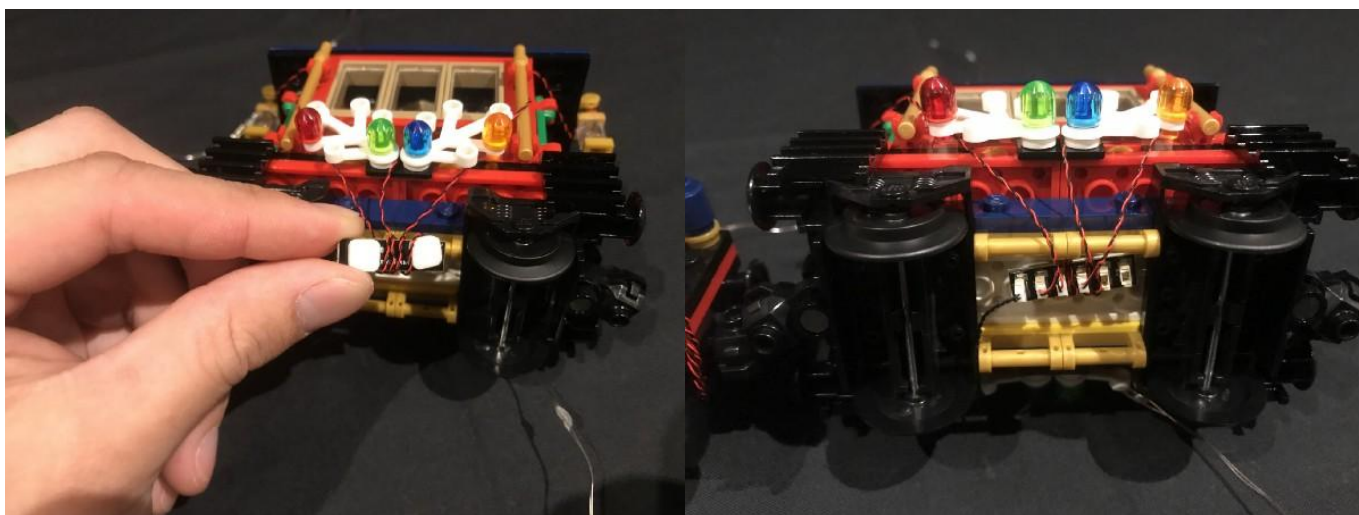
77. Reconnect the white pieces ensuring the cables from the lights are laid neatly behind.



78. Take the 15cm Connecting cable from the carriage in front and connect this to a spare port on the 6-port expansion board.



79. Use 2x Adhesive Squares to mount the expansion board underneath the back carriage in the below position.



80. Turn the carriage over and then connect it to the rest of the train.



81. Follow the below images to thread the remaining length of the two multi colour light strings along each side of the carriage.



82. Loop each light string behind the gold bars on the back carriage and then pull each string to the back before threading them back through to the front of the carriage. Thread and secure each light string around sections of the carriage as you see fit.





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

