

42043 Mercedes-Benz Arocs 3245 P69

- **P69 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 “42043 P69”.**
- **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 10 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	18
Expansion Board	8 Socket Expansion Board	4
Connecting Cables-5CM	Connecting Cables-5CM	1
Connecting Cables-15CM	Connecting Cables-15CM	1
Connecting Cables-50CM	Connecting Cables-50CM	1
Bit Lights-30CM-Warm White	Bit Lights-30CM-Warm White	2
Flashing Bit Lights-15CM-Warm White	Flashing Bit Lights-15CM-Warm White	2
LEGO Power Cord	LEGO Power Cord	1
Rotate Light	Rotate Light	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 “USB Power Cord”and “Expansion Boards”as follows.



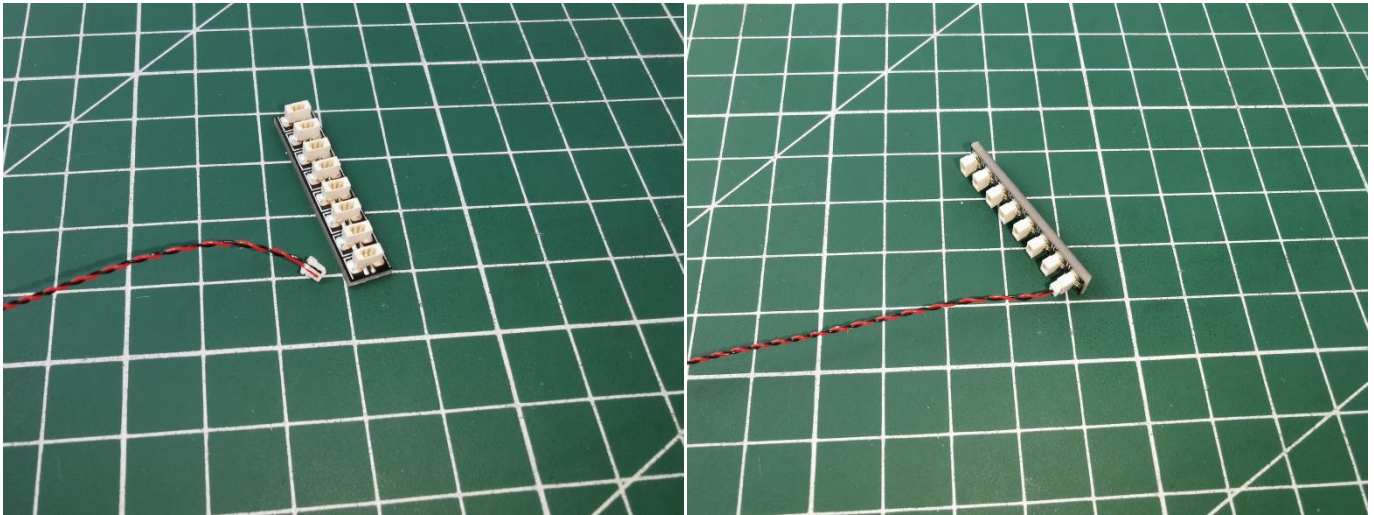
It is worth reminding that our products are all customized. They have a unique way of connecting. The white plug on wire and the socket of the expansion board need to be connected together to transmit power.

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.



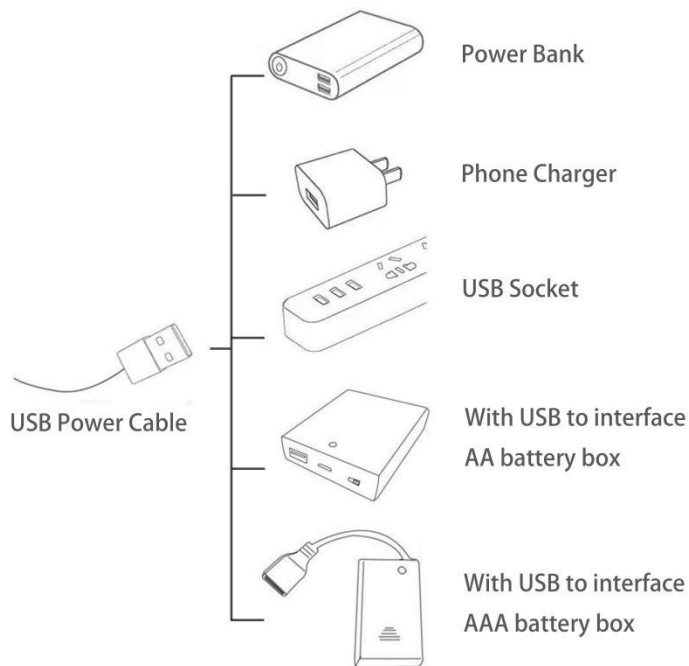
All our connections between plug and socket are all the same as shown above. So for any such structure with plug and socket, please pay attention to the golden wire of the plug and the golden needle of the socket, they must be touched together.

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.

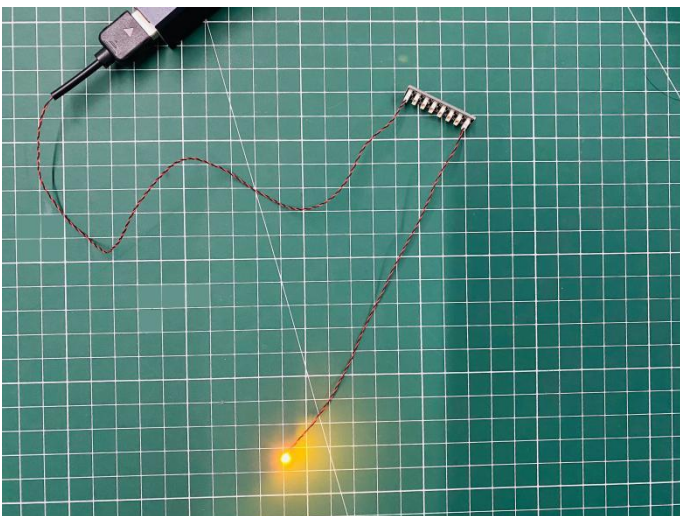
USB connectors to connect devices



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-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 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.



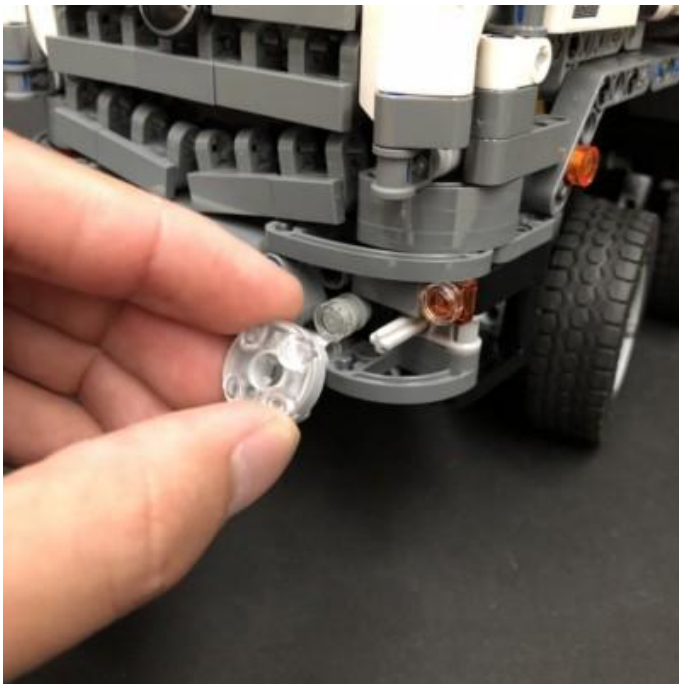
**The components needs to be tested in this set is 17*Bit Lights-15CM-Warm White,2*Bit Lights-30CM-Warm White,2*Flashing Bit Lights-15CM-Warm White,2*Rotate Light.
Please contact us immediately if any components don't work.**

Section C: laying out components following the instruction.

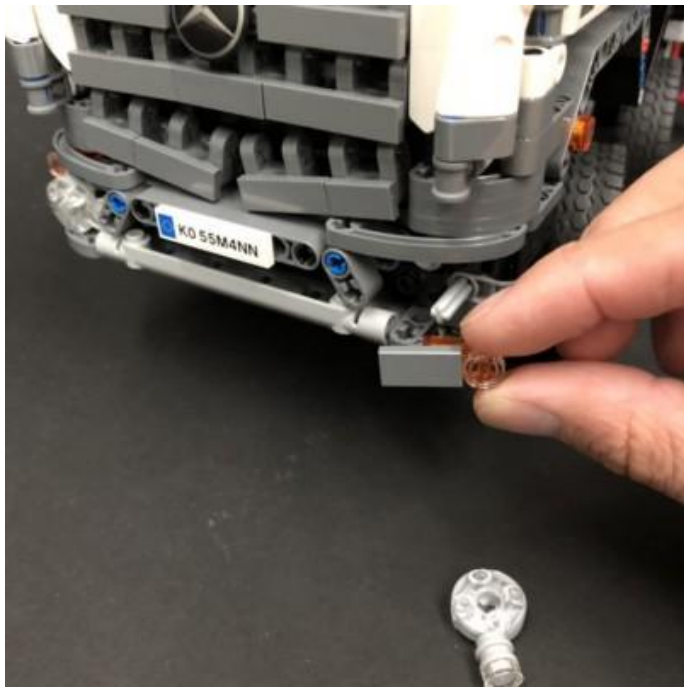
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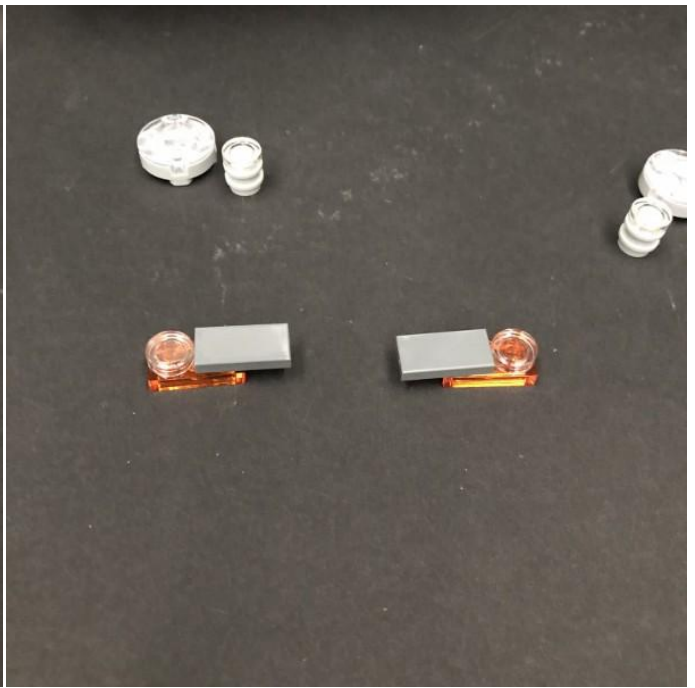
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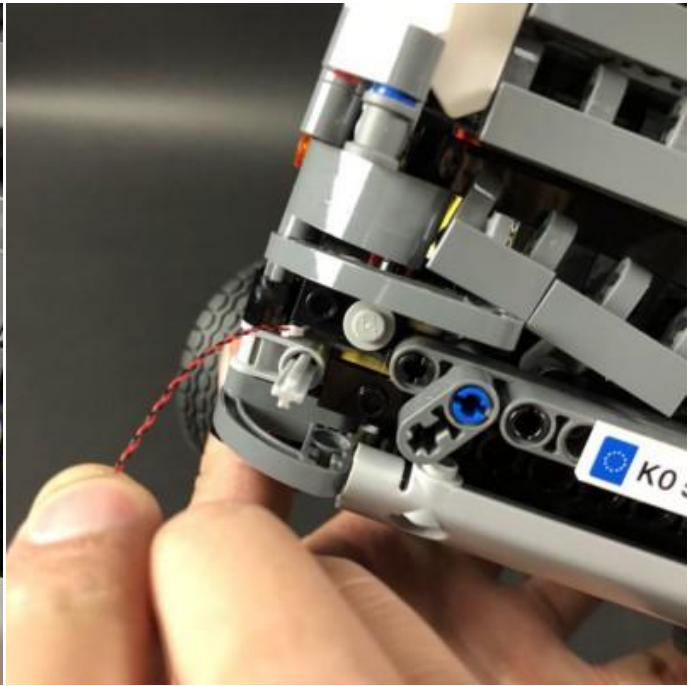
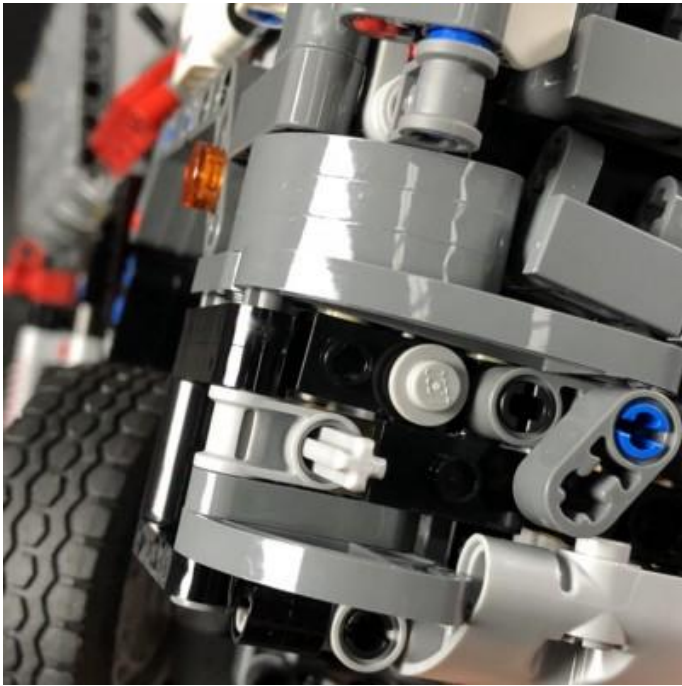
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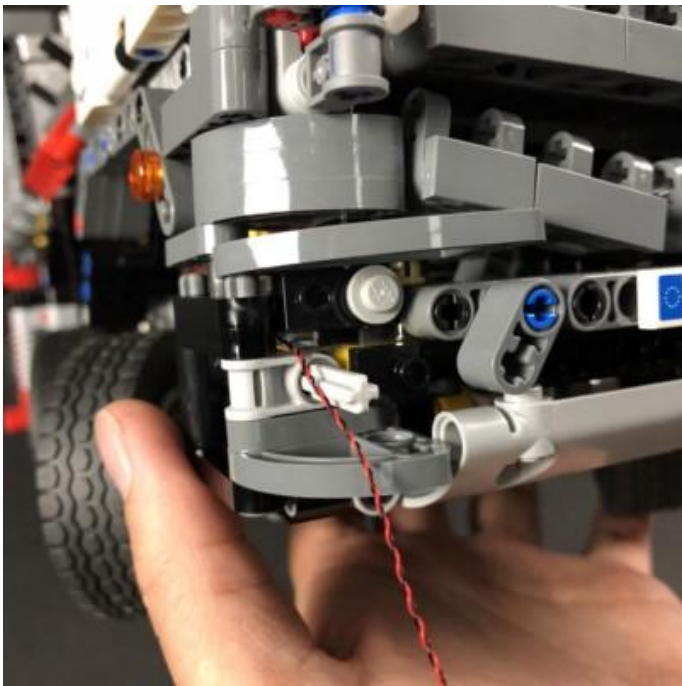
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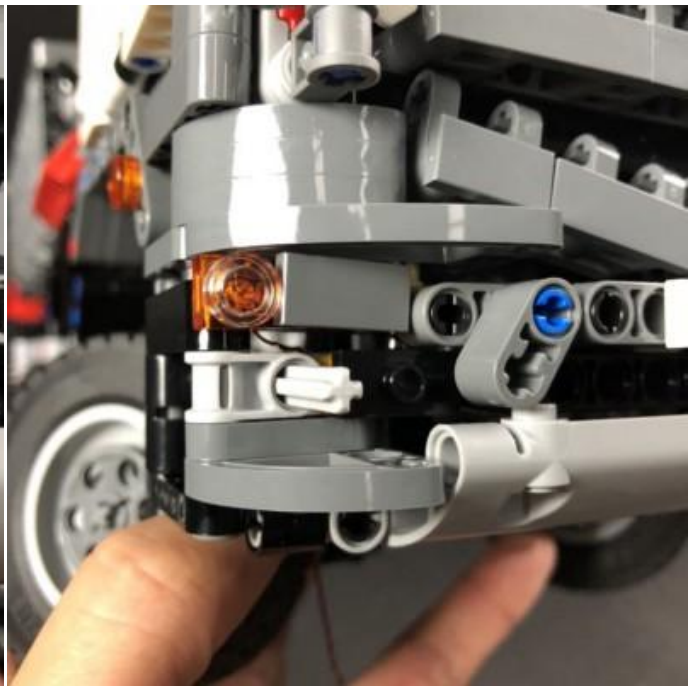
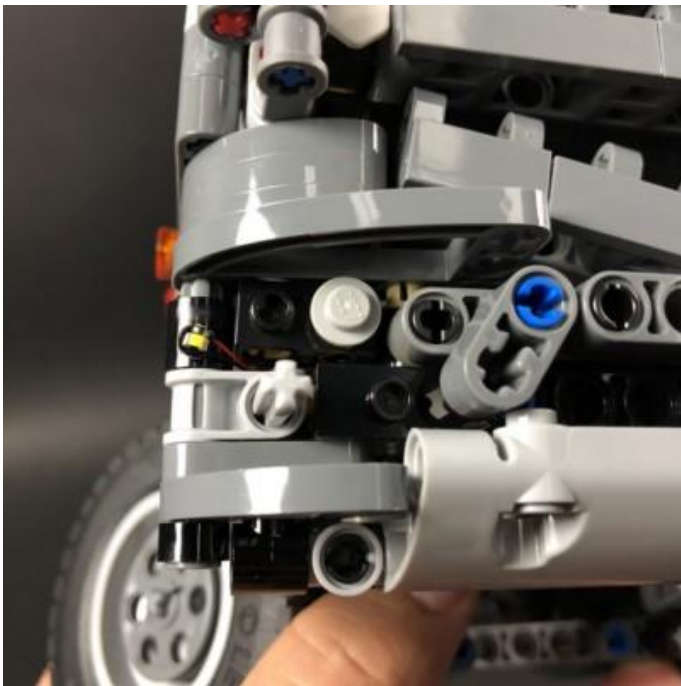
5. Starting with the left side of the truck, carefully split the section as per below by creating a gap in between sections, then take a White 15cm Dot Light and thread the connector side of the cable through the gap we have created.



6



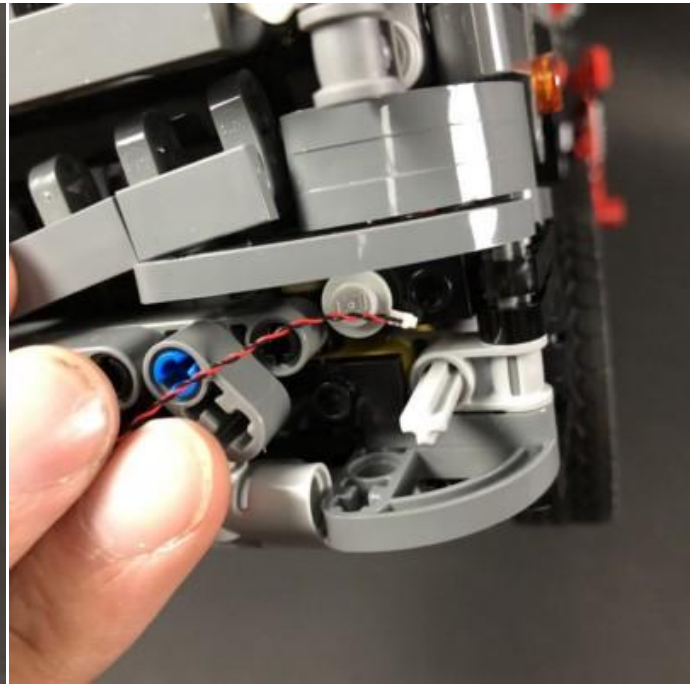
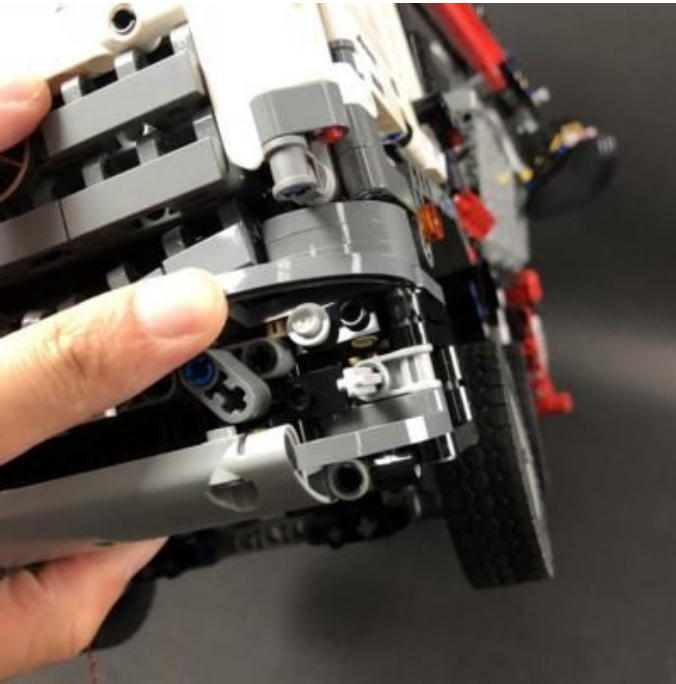
7. Thread the cable all the way through until the LED component is up against the edge on the left of the black stud. Reconnect the following section ensuring the Dot Light is right up against Trans Orange Plate, then reconnect sections to close up the gap and secure the light in place.



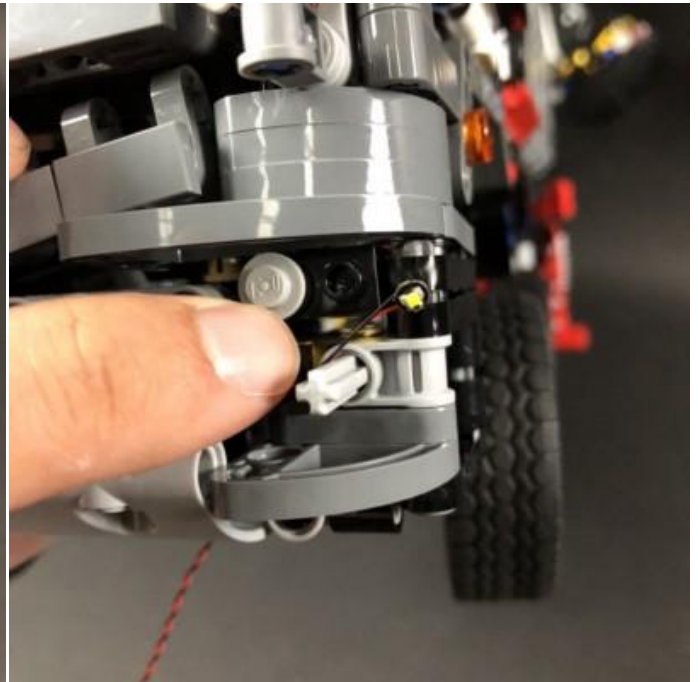
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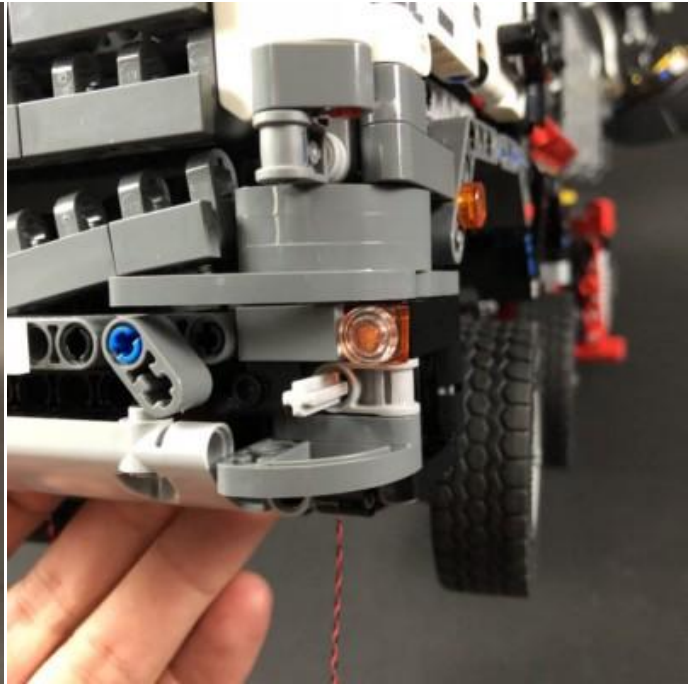
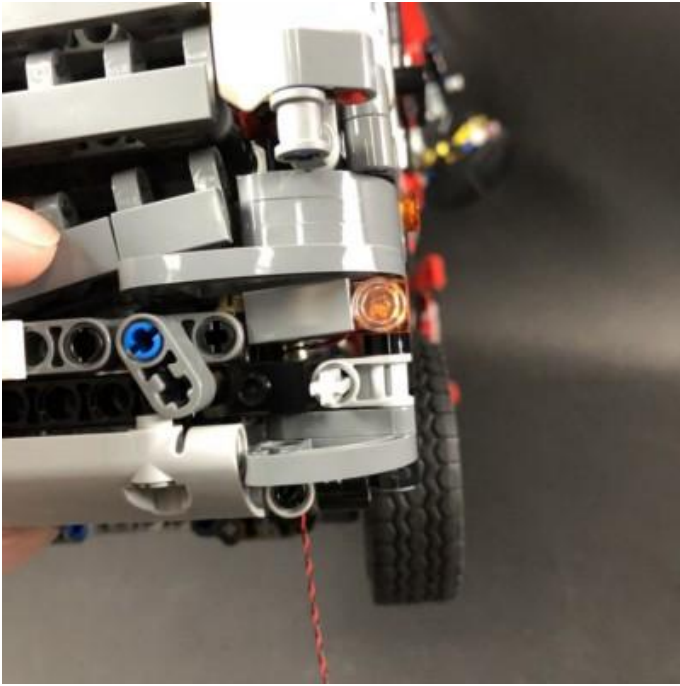
9. Repeat previous step to install another White 15cm Dot Light to the right side.



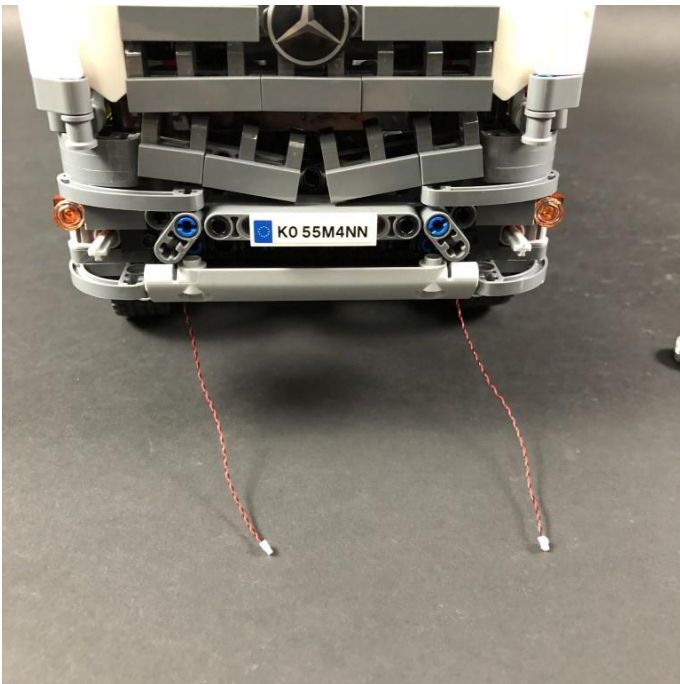
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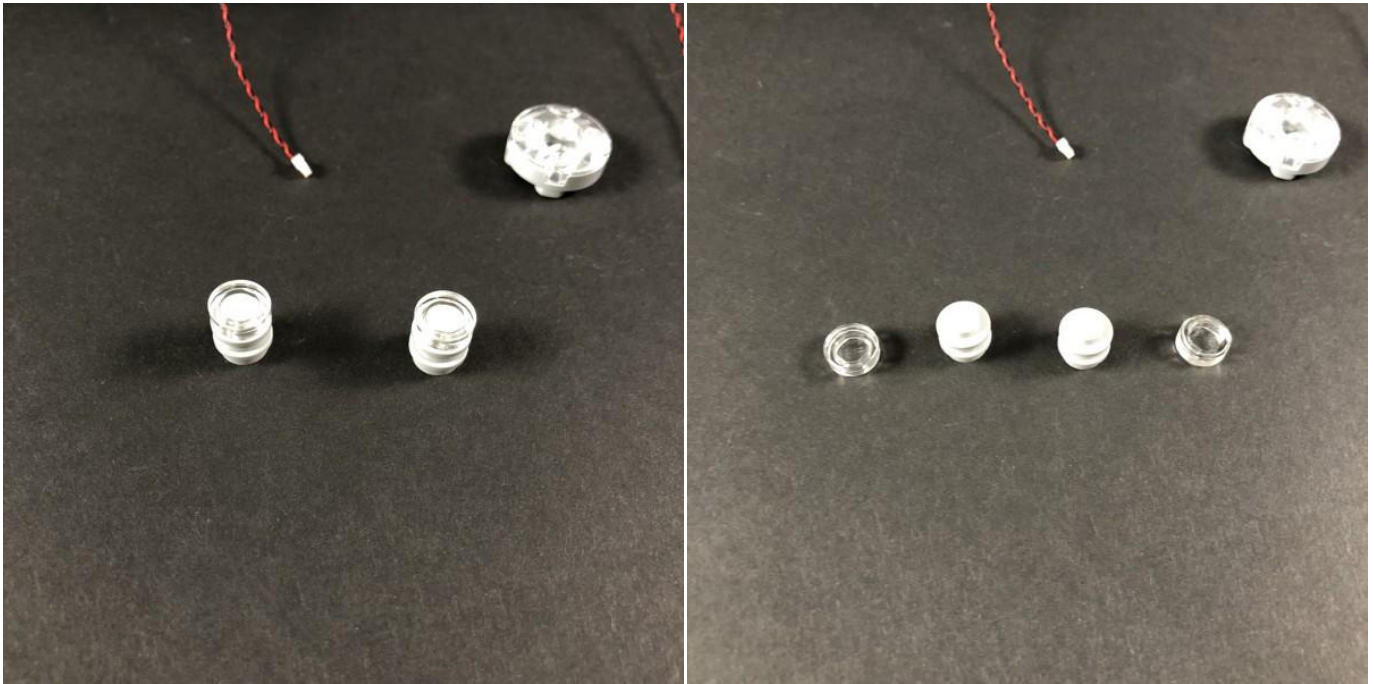
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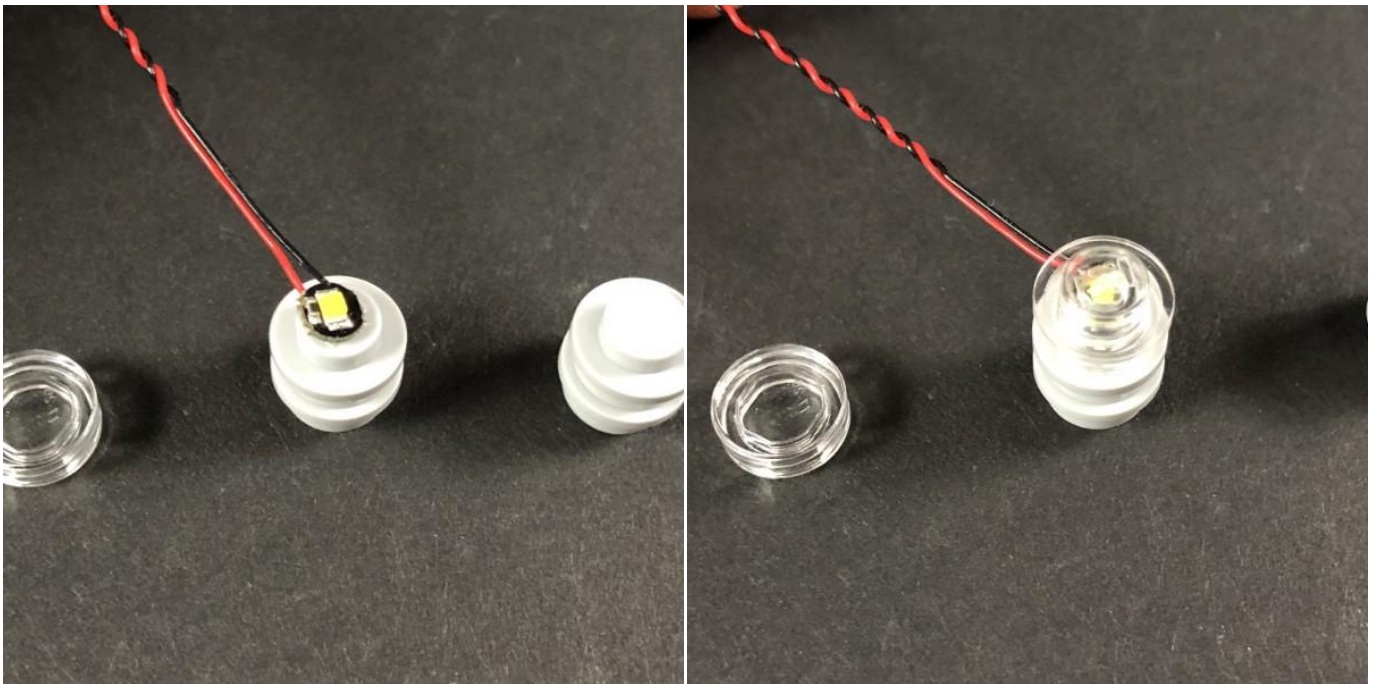
12. Pull both cables out from underneath



13. Take the following two pieces and remove the trans clear tiles from each side.



14. Take a White 15cm Dot Light and place it over one of the pieces over the light grey stud. Secure the Dot Light in place by connecting a provided Trans Clear Round Plate 1x1.



Tips

The plate without slit:

The plate without slit:

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



The plate with slit:

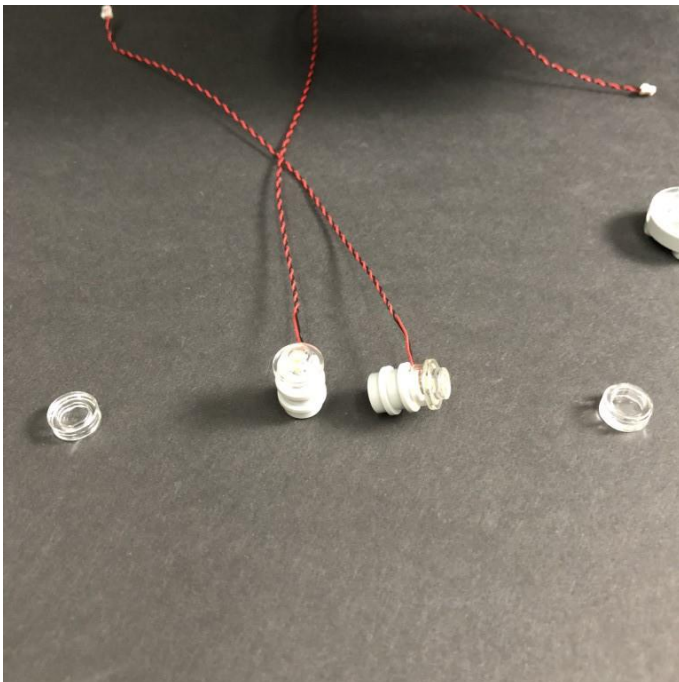
The plate with slit:

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

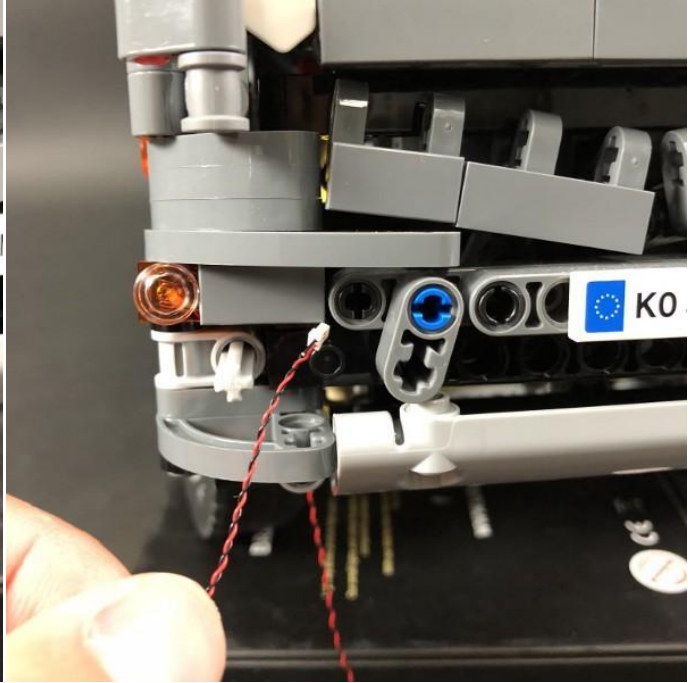
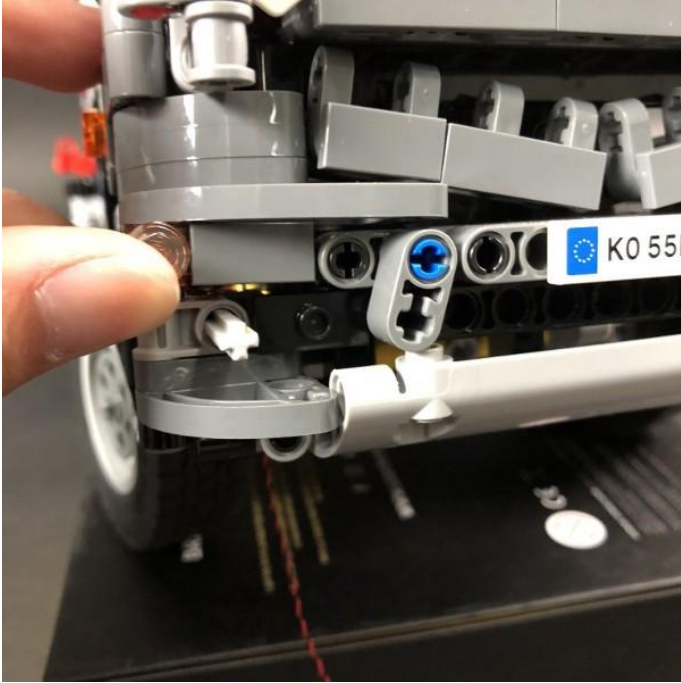


The slit on the the plate round 1X1 are hand-made to avoid squeeze the wire and cause short circuit and abnormalheat during installation.

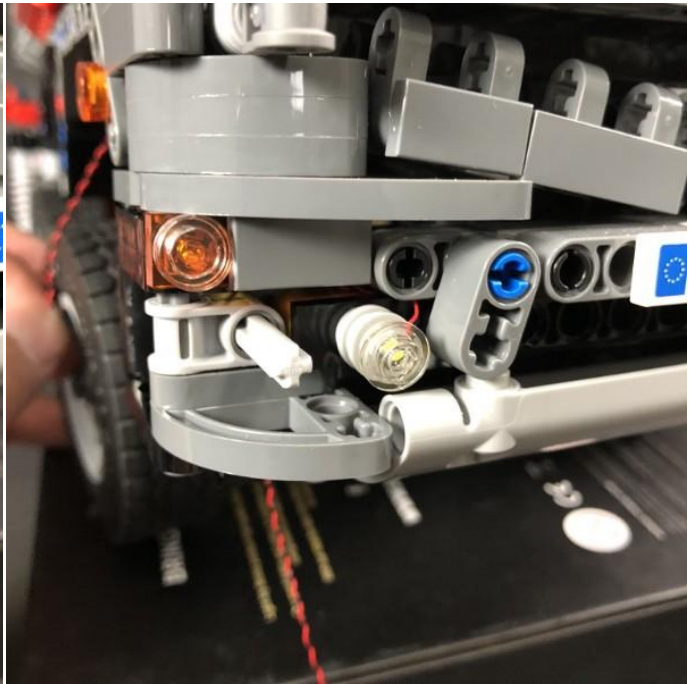
15. Repeat this process to install another White 15cm Dot Light to the other piece using another provided Trans Clear Round Plate 1x1.



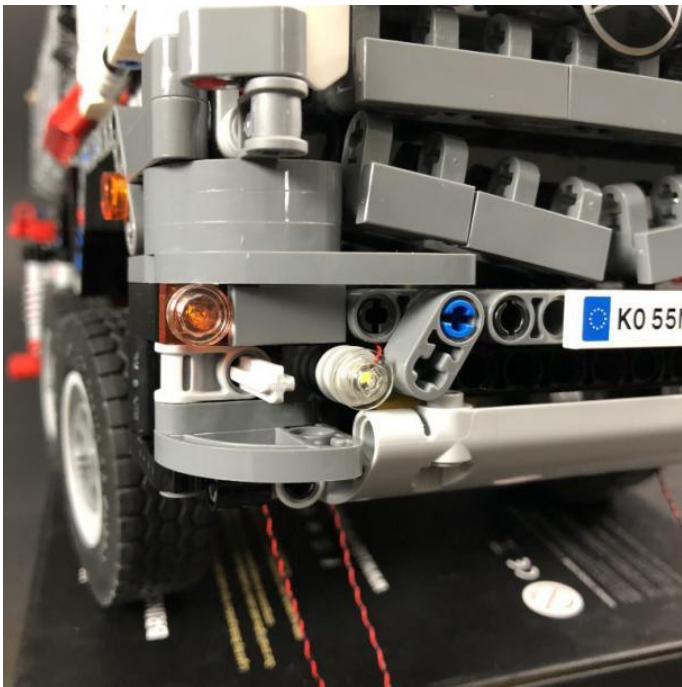
16. Take one of the pieces and then recreate the same gap we created in step 2 to allow us to thread the cable through the left side of the truck. Thread it all the way through and then reconnect this section over the black stud as per below:



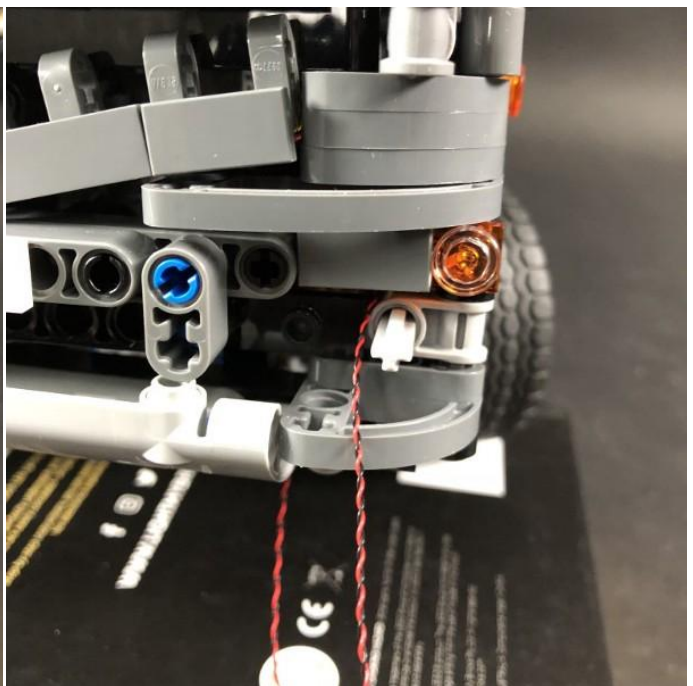
17



18. Close up the gap.



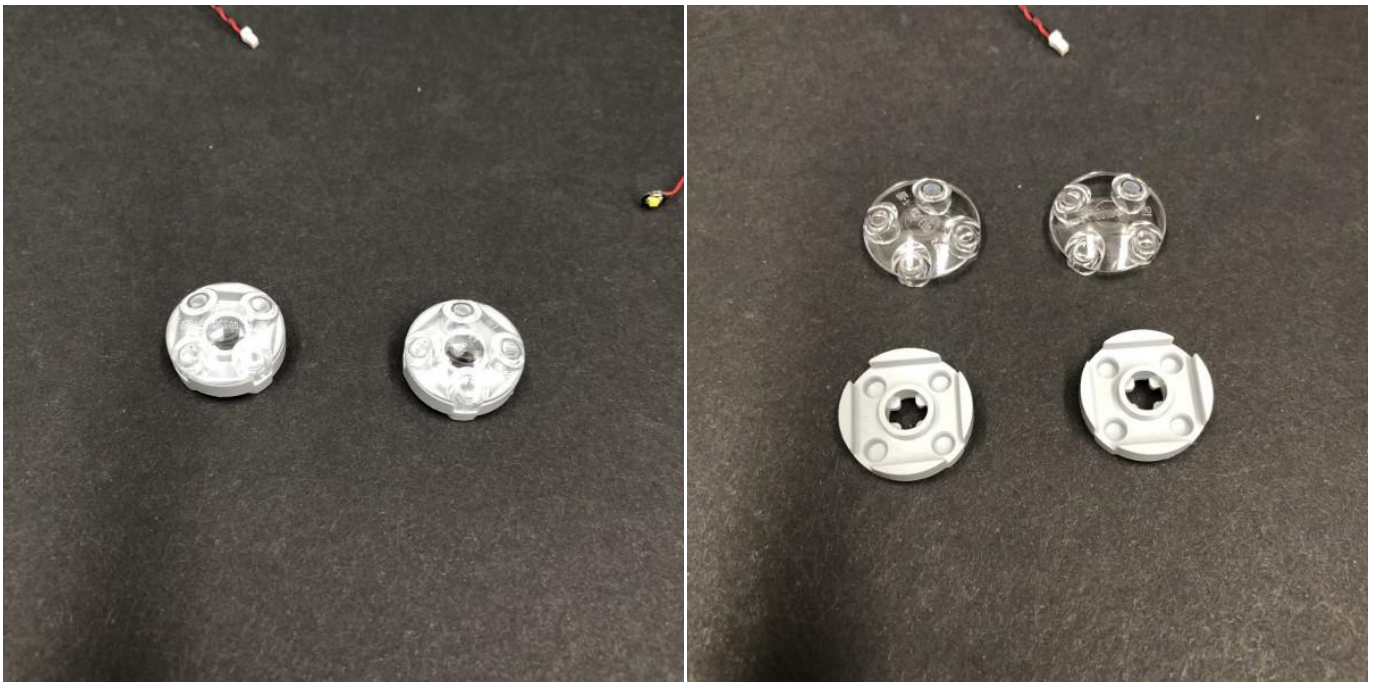
19. Repeat this process to reconnect the other piece to the right side.



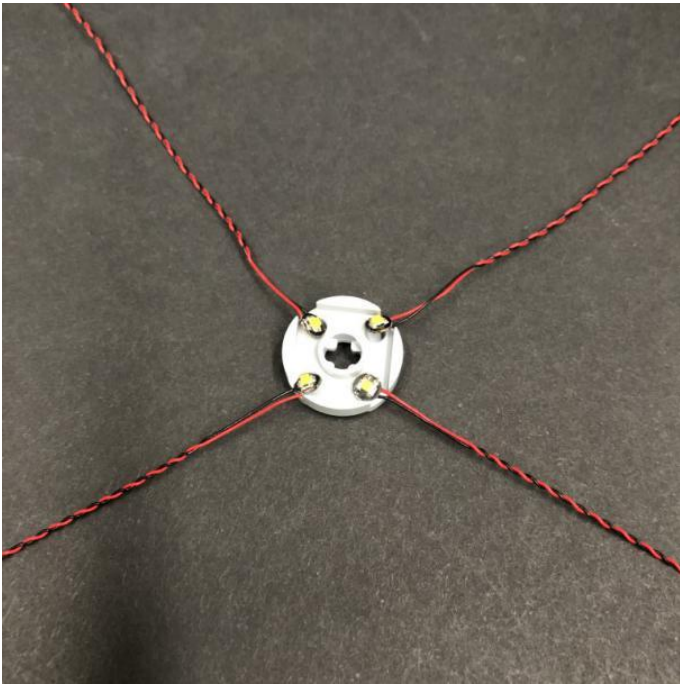
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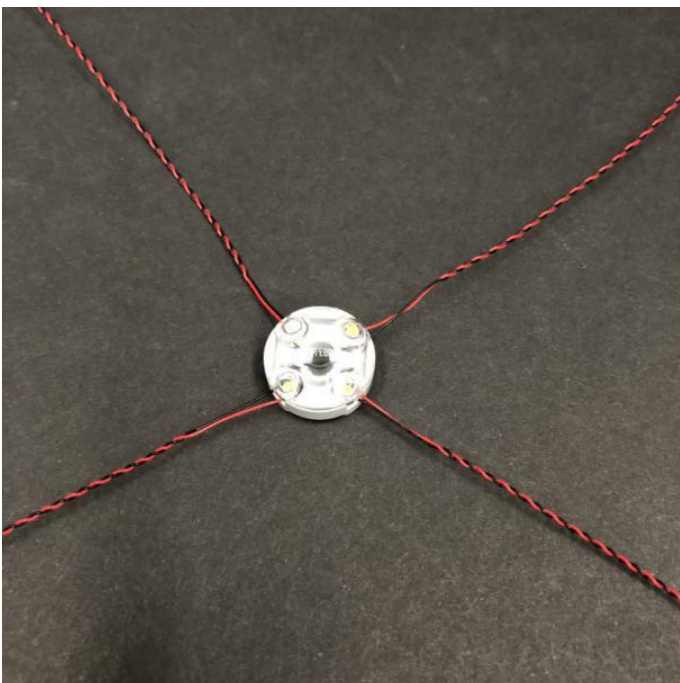
21. Take the two headlight pieces and then disconnect the trans clear 2x2 plates.



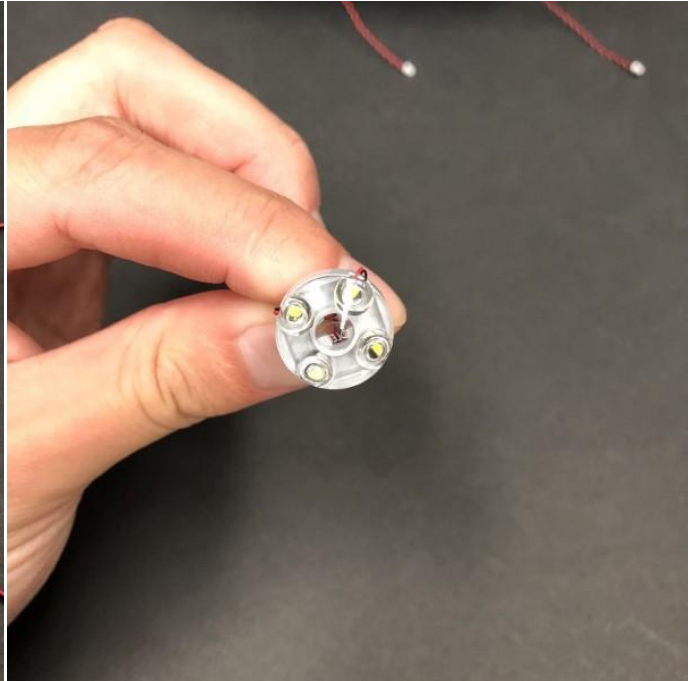
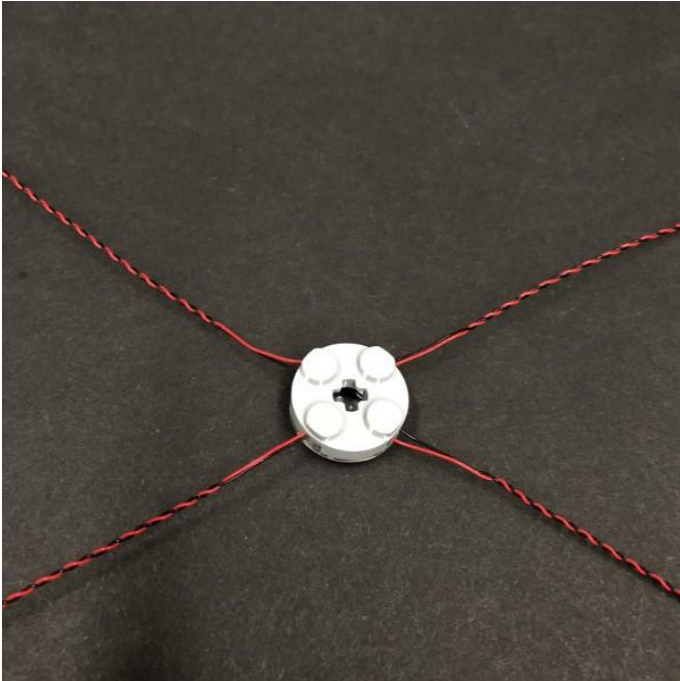
22.Take 4x White 15cm Dot Lights and then place each one over each hole of the light grey round 2x2 plate as per below:



23.Reconnect the trans clear 2x2 plate over the top to secure the Dot Lights in place.



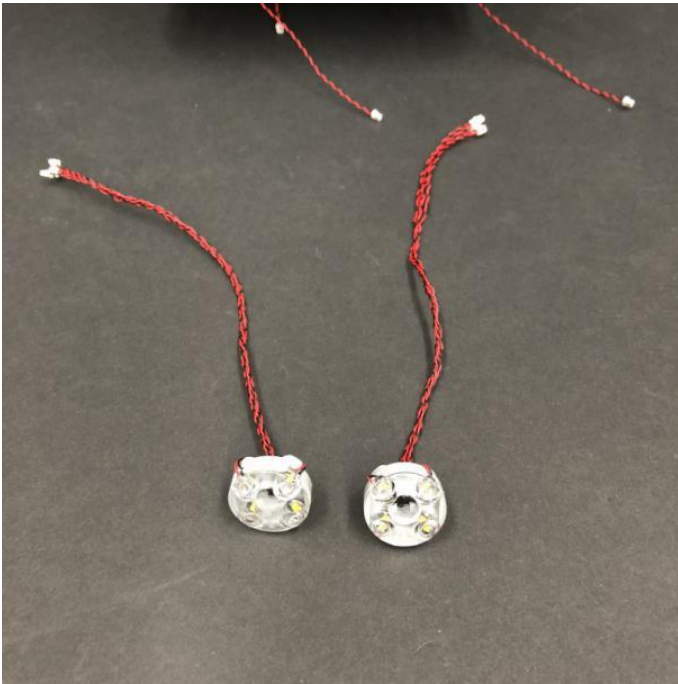
24. Turn the headlight section over and then group the four cables together and then twist them around each other to form one large cable.



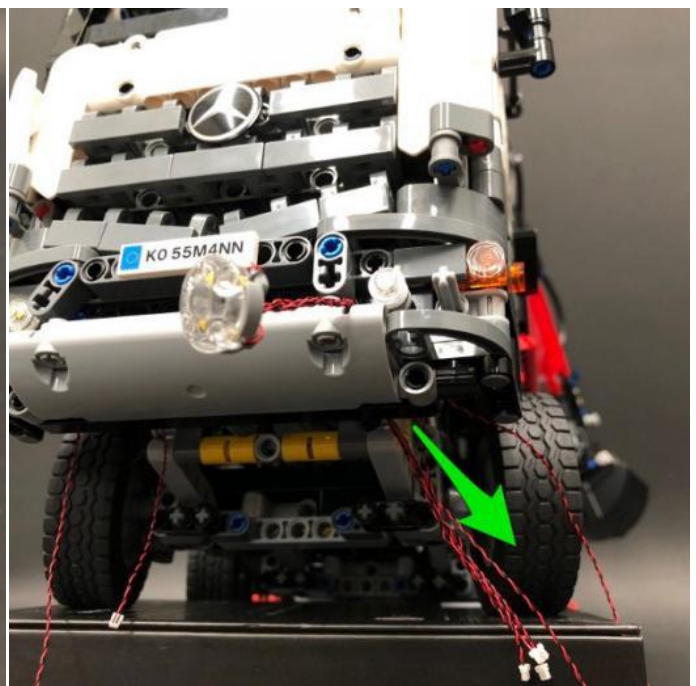
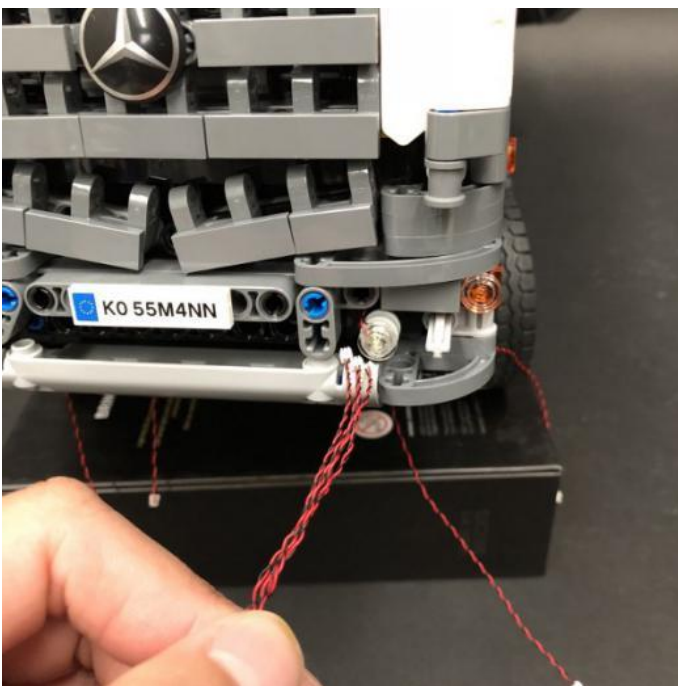
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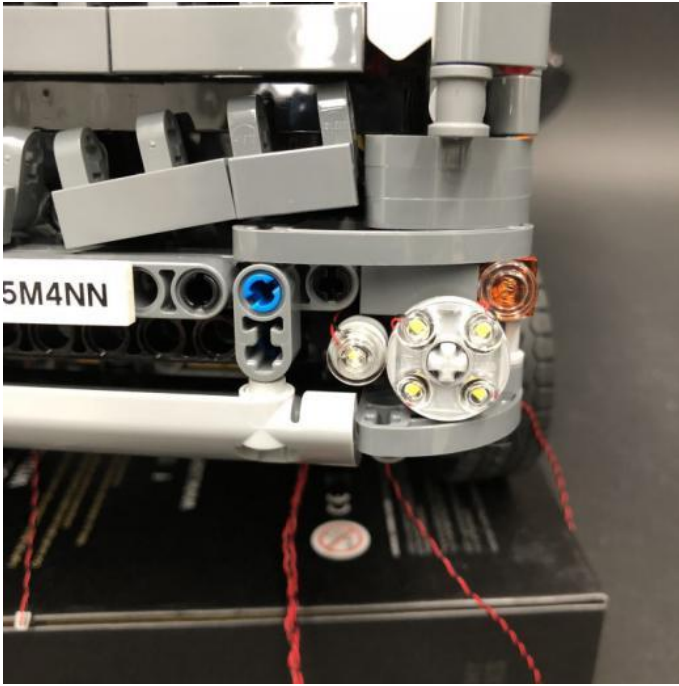
26. Repeat this process to install another 4x White 15cm Dot Lights to the other headlight section.



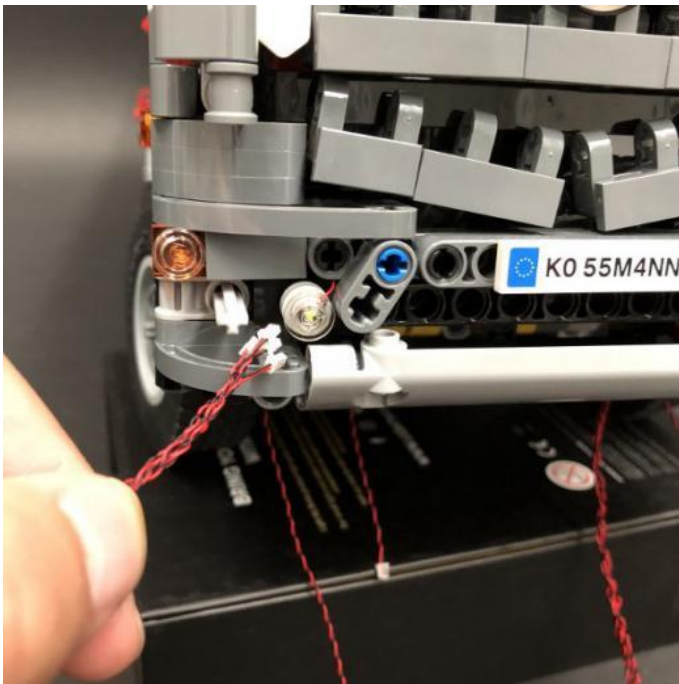
27. Take one of the headlight cables and then thread it through the following gap on the right side of the truck. Thread it all the way through and then pull it out from underneath. Reconnect the headlight to original position.



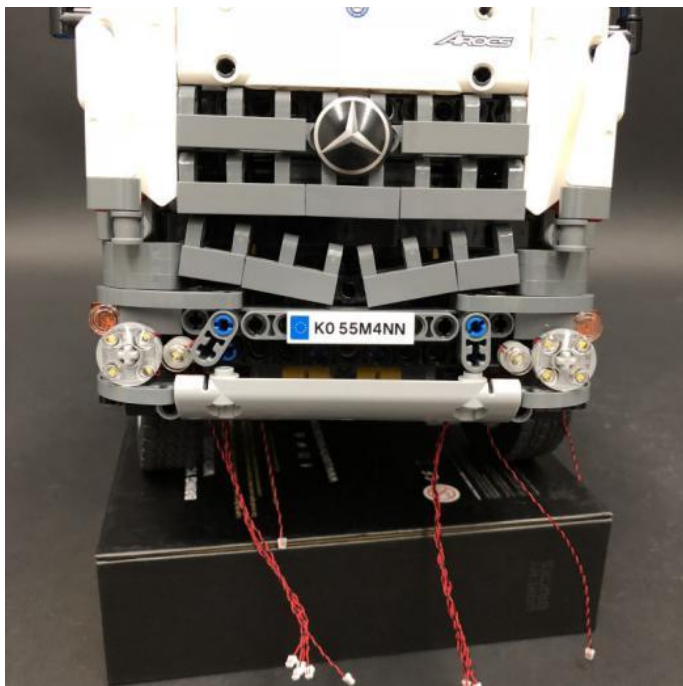
28



29. Repeat this process to reconnect the headlight on the left side of the truck.



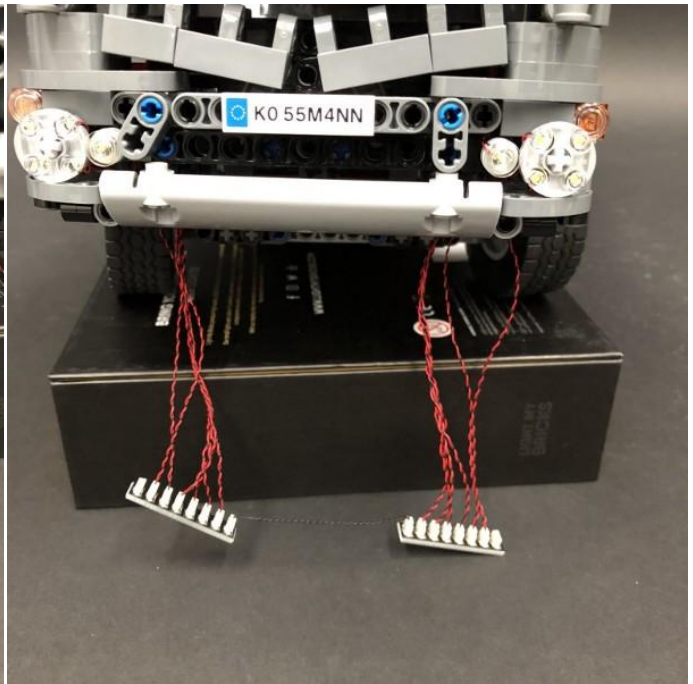
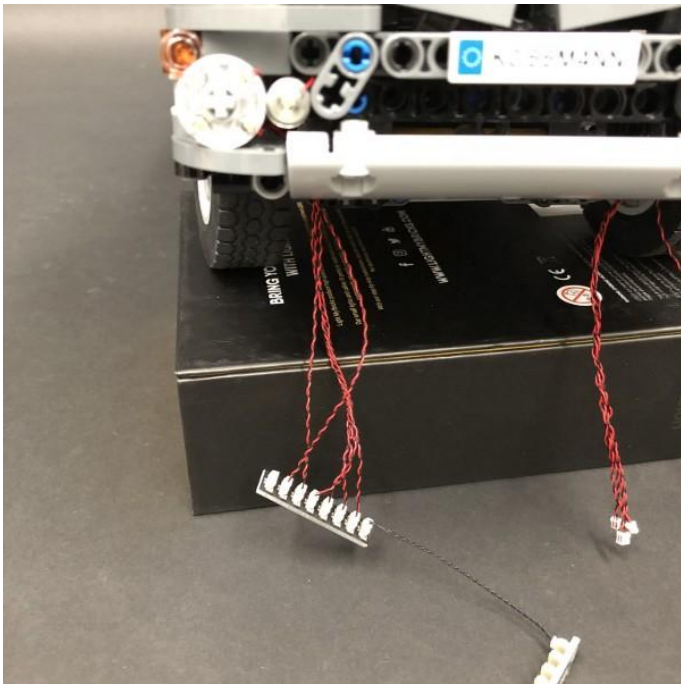
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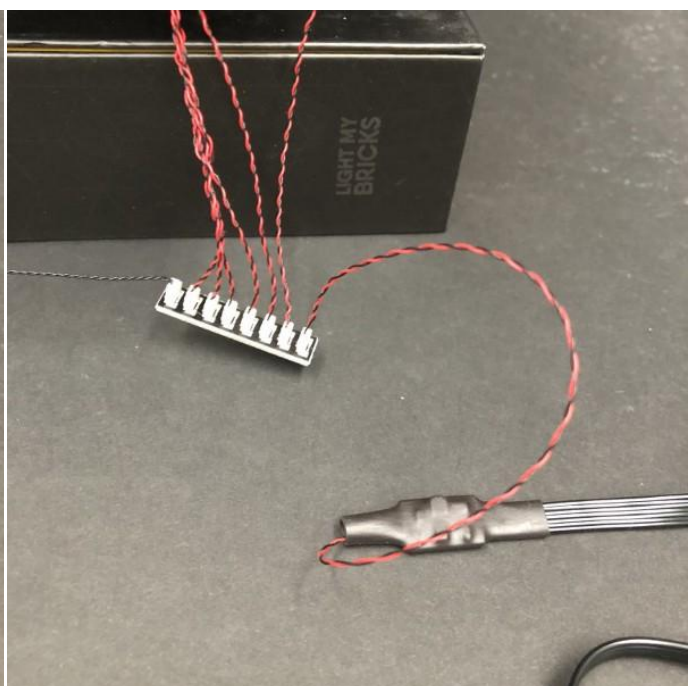
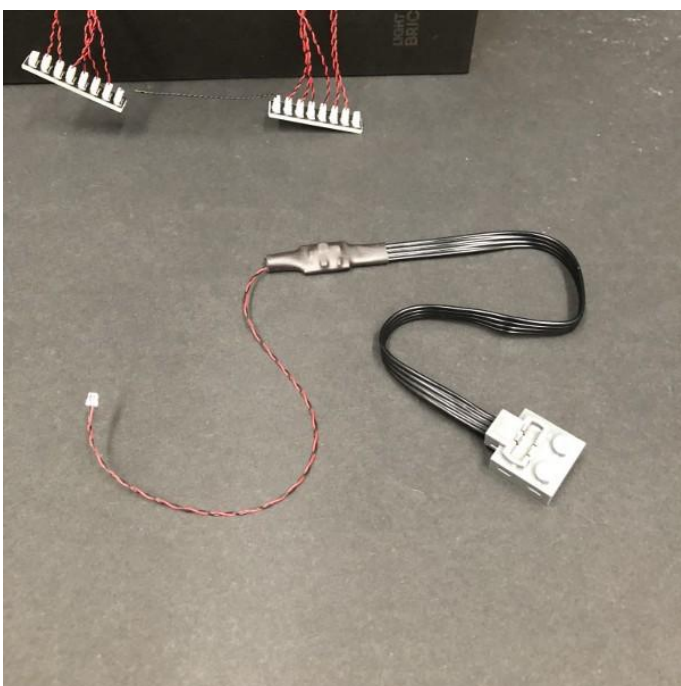
31. Take 2x 8-Port Expansion Boards and connect them together using a 5cm Connecting Cable. Connect the cable to the end ports.



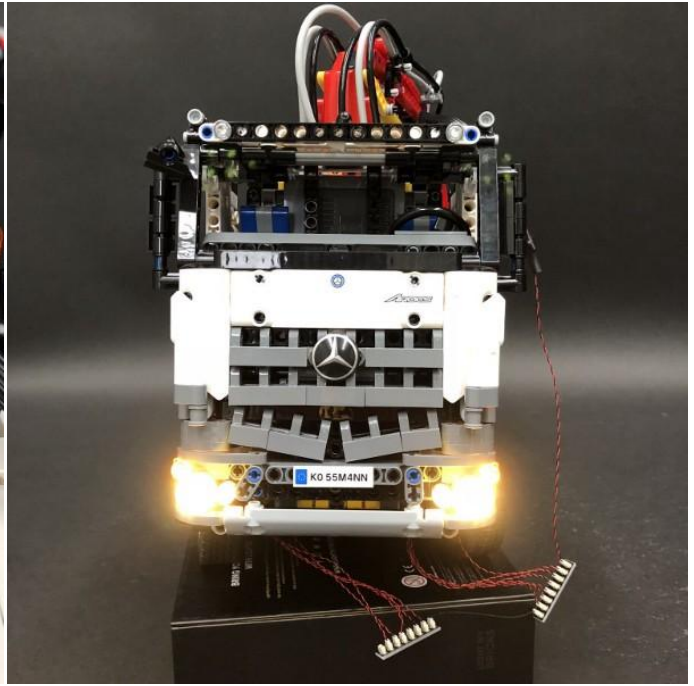
32. Connect all six Dot Light cables from the left side of the truck to one of the expansion boards and then connect all six Dot Light cables from the right side of the truck to the other expansion board.



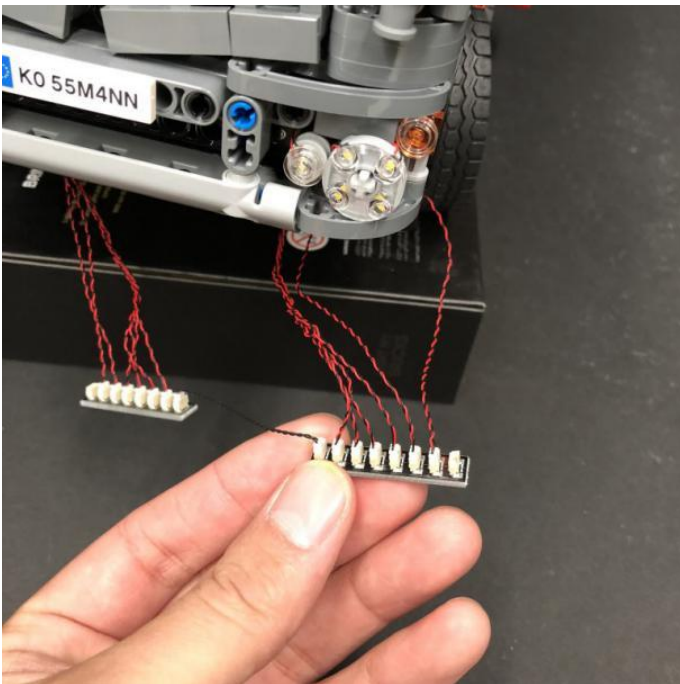
33. Test the lights we have installed so far are working OK by taking out the Power Functions Cable and connecting it to a spare port on the expansion board. Connect the other side to your Power Functions Battery Pack and then turn on to verify all is working OK.



34



35. Disconnect the Power Functions Cable from the expansion board and proceed to the next step.



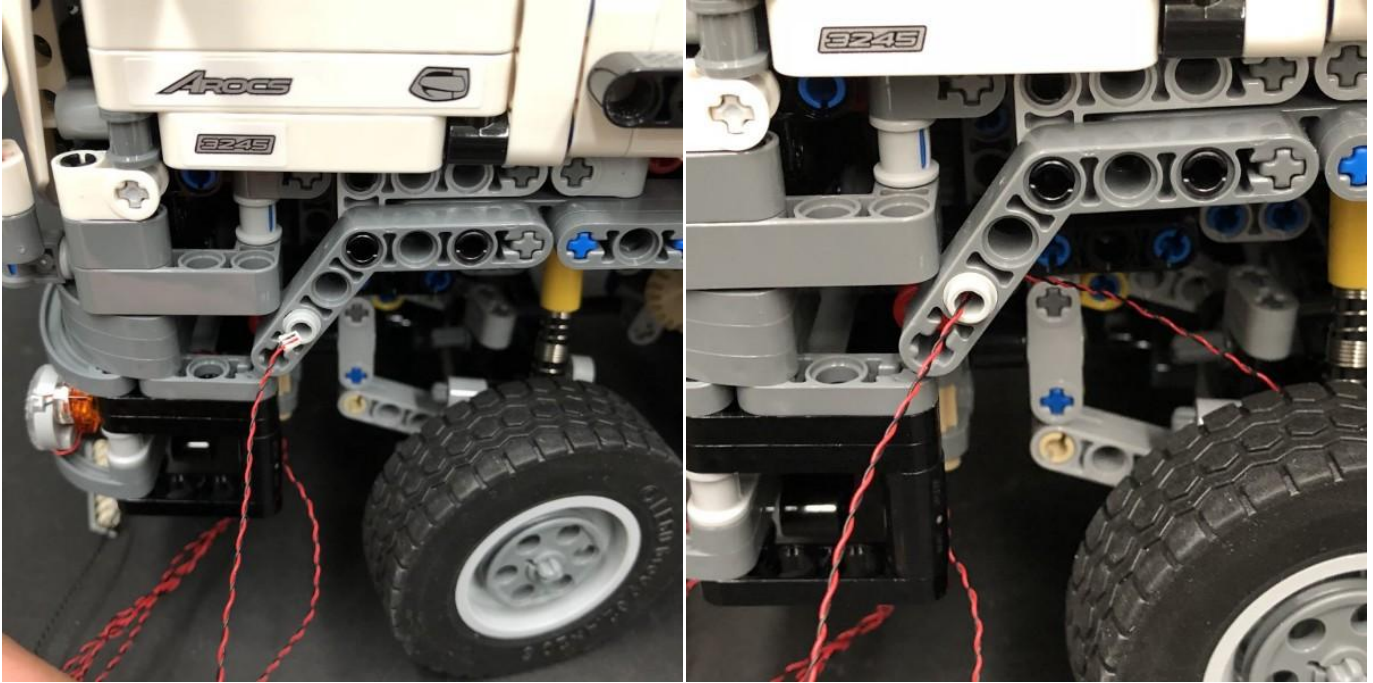
36. Disconnect the trans orange round tiles from both sides of the truck.



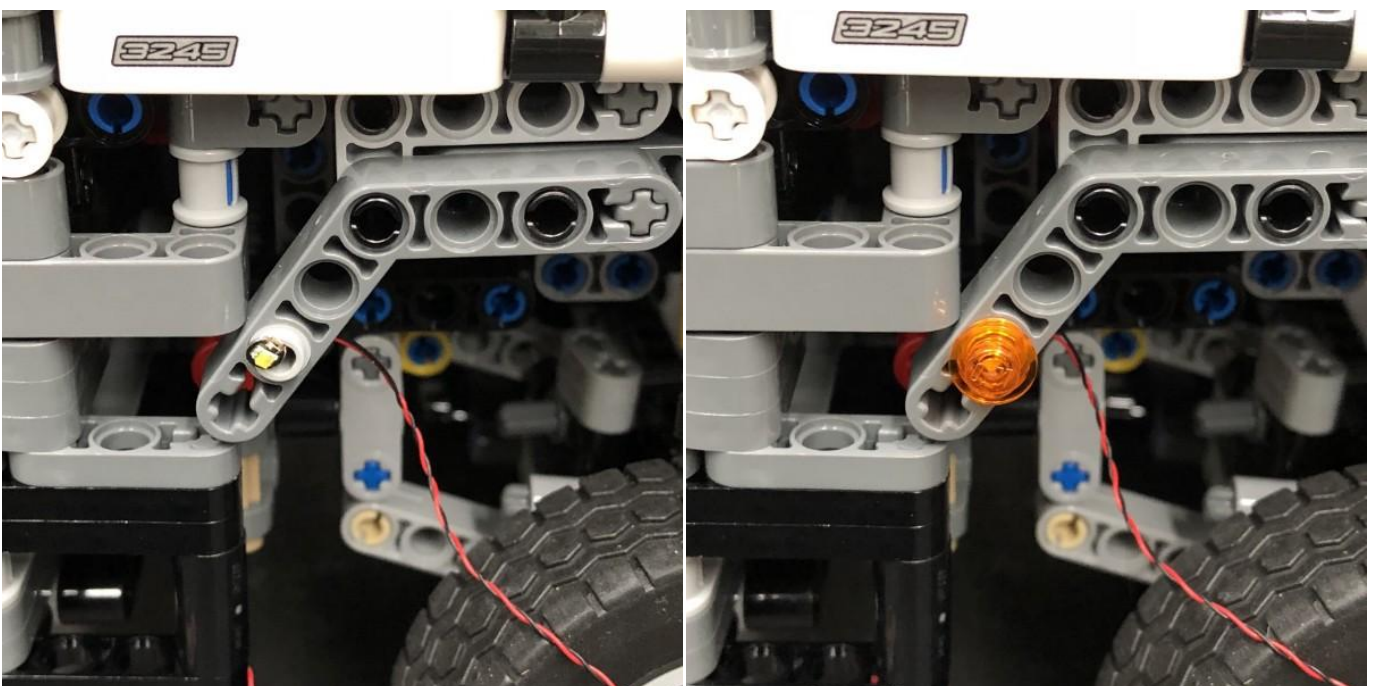
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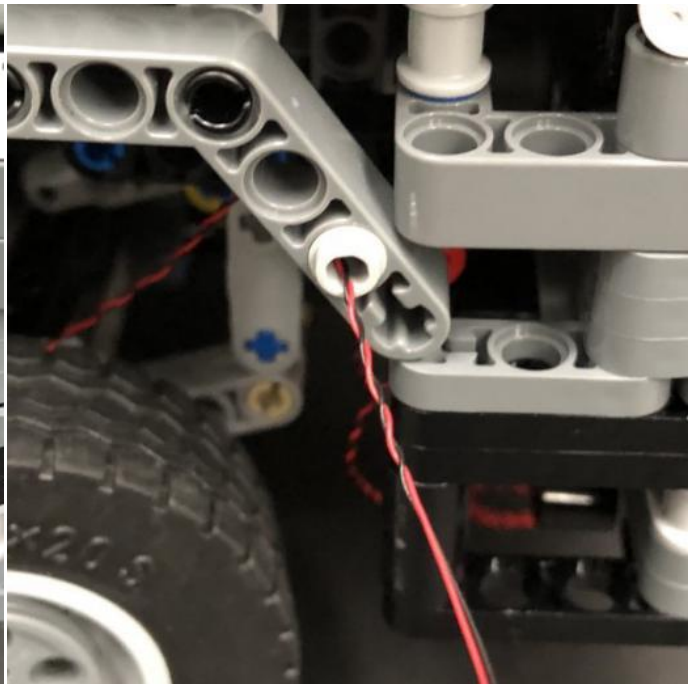
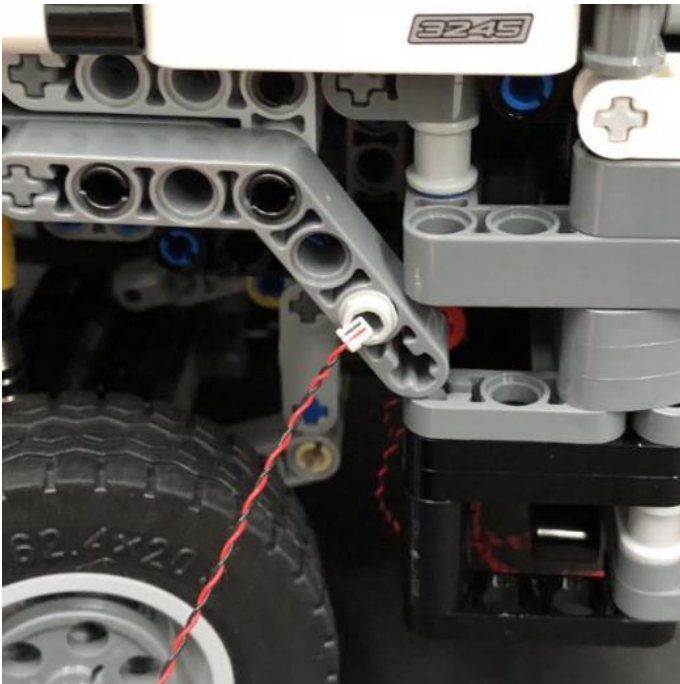
38. Take a Flashing White 15cm Dot Light and thread the connector side of the cable through the hole where you disconnected the trans orange round tile from. Thread the cable all the way through until the Dot Light is sitting right against the edge of the hole.



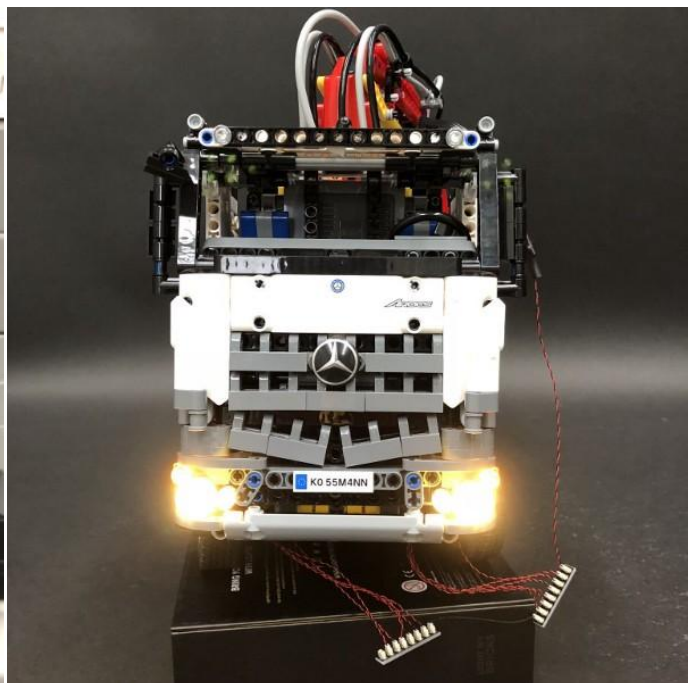
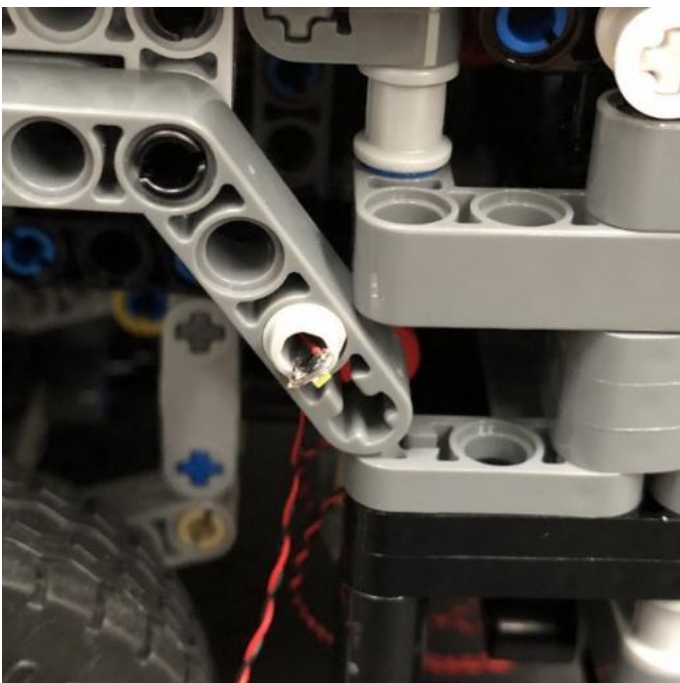
39. Press the Dot Light down so that it sits flat against the edge and then secure it in place by connecting a provided Trans Orange Round Plate 1x1 over the top.



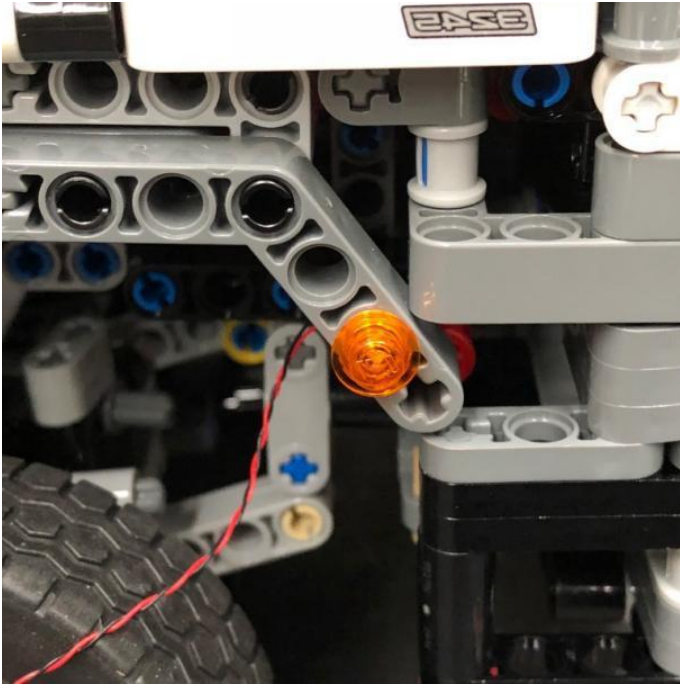
40. Repeat previous step to install another Flashing White 15cm Dot Light to the left side of the truck using another provided Trans Orange Round Plate 1x1



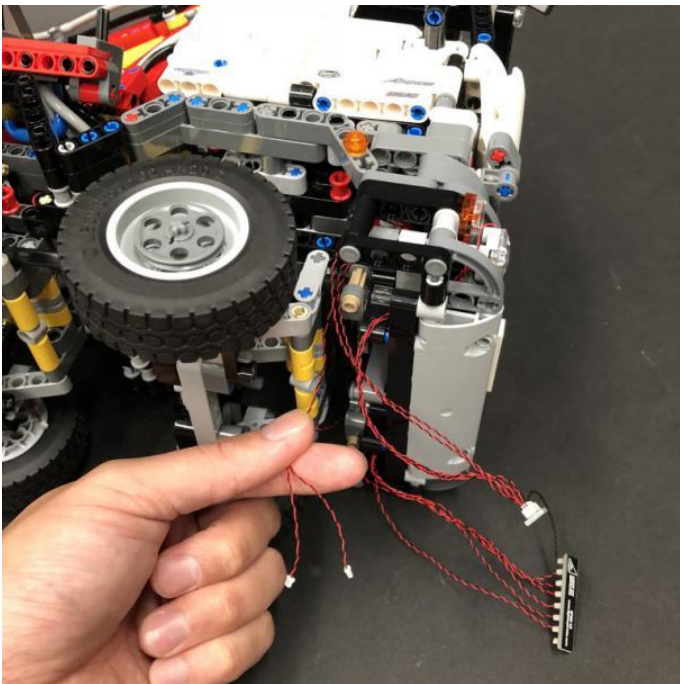
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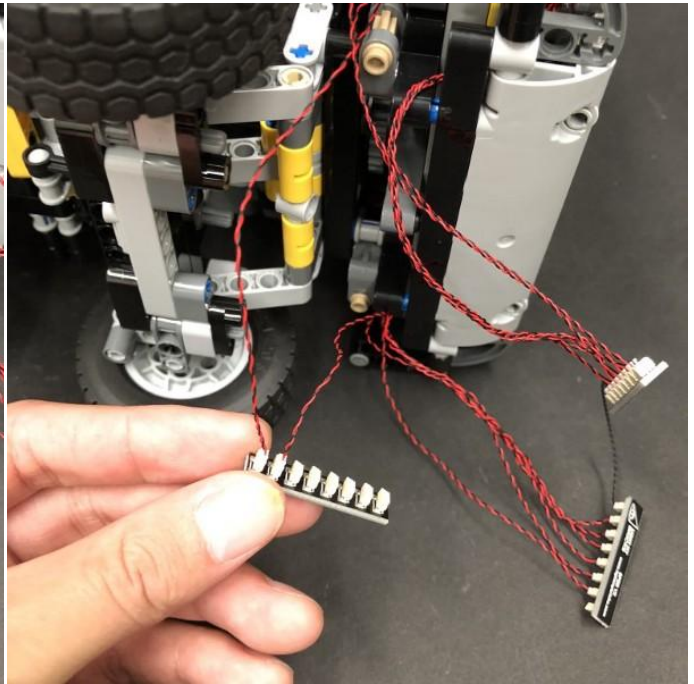
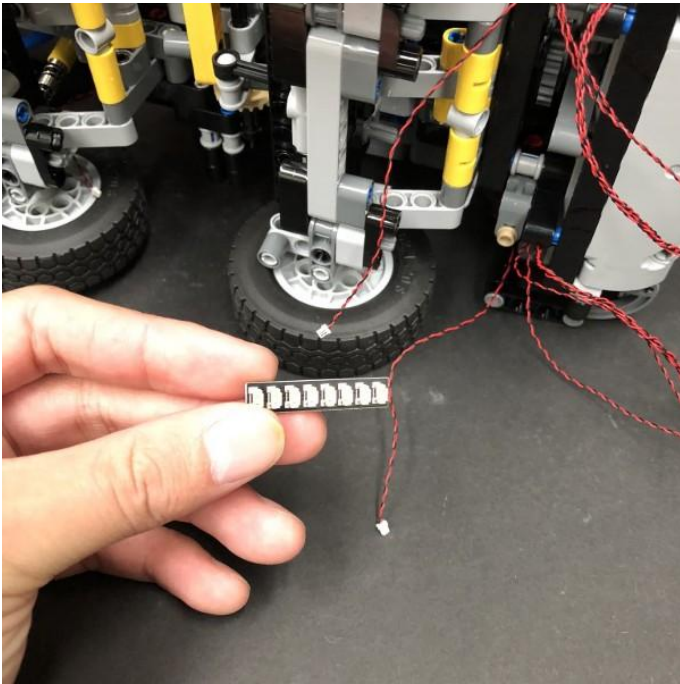
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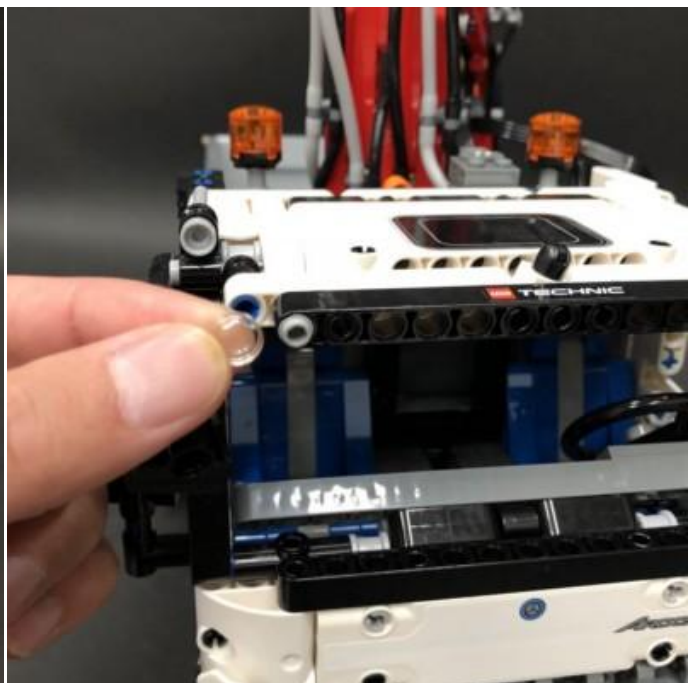
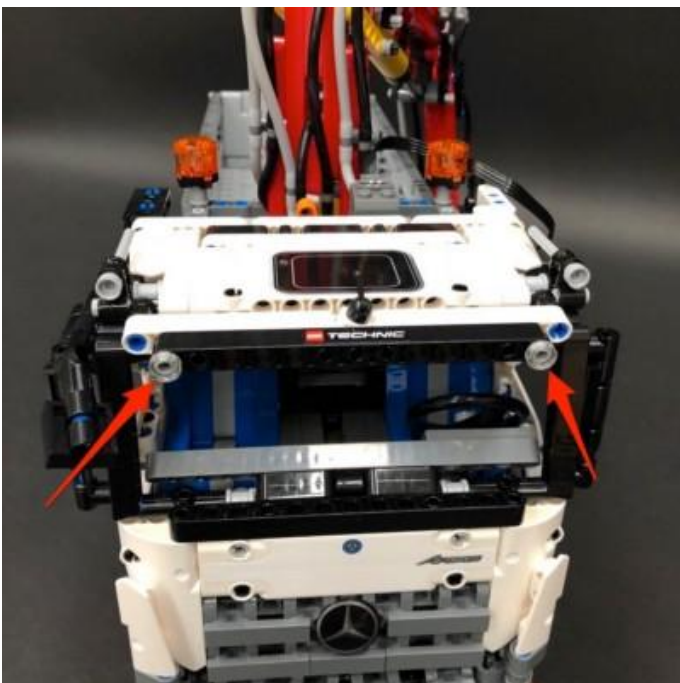
43. Turn the truck on it's side so we can access underneath of it and then pull down both cables from the two Dot Lights we just installed.



44. Take another 8-Port Expansion Board and connect both lights to the first two ports.



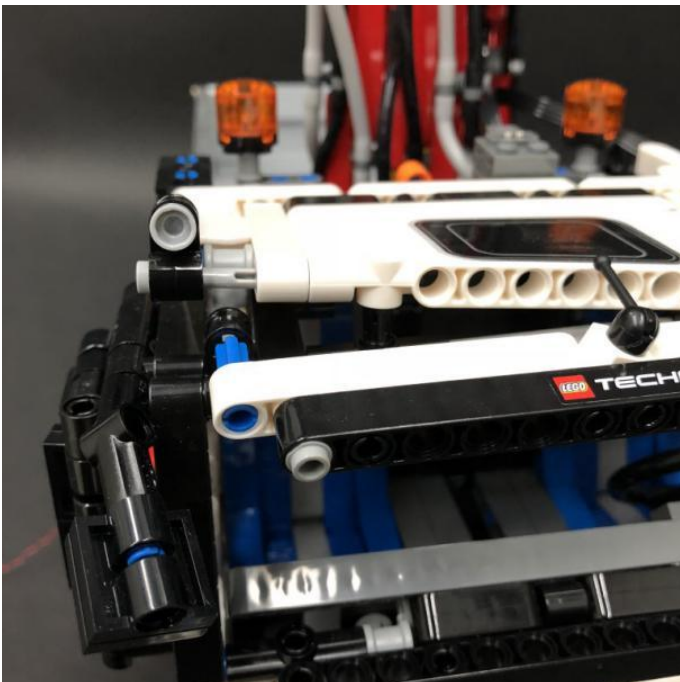
45. We will now install lights over the top front of the truck. First disconnect the trans clear round tiles from each side.



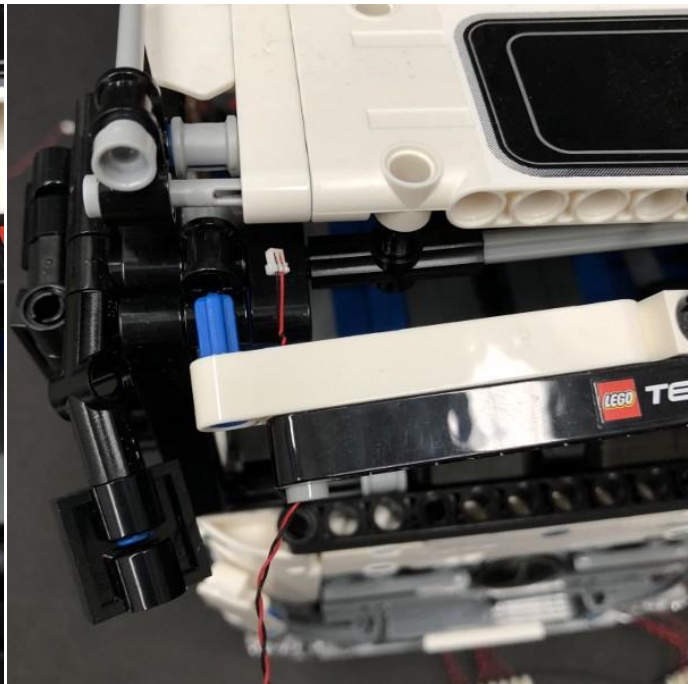
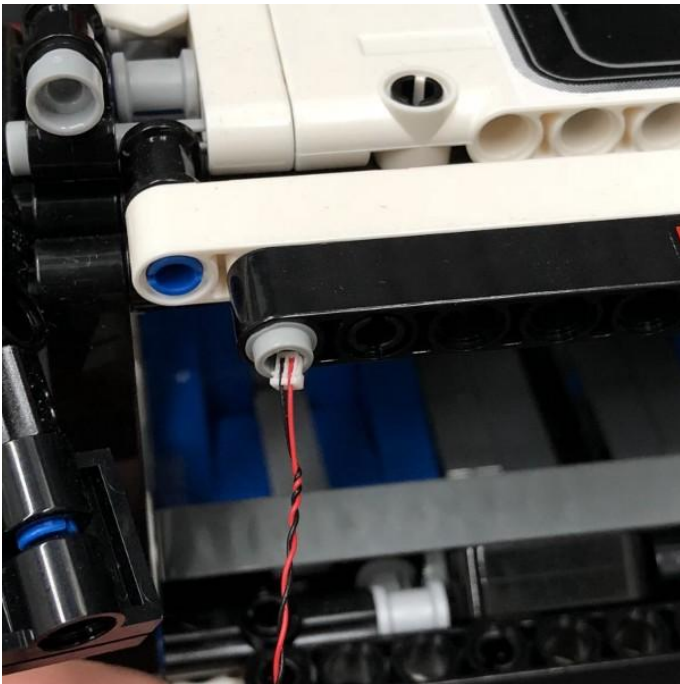
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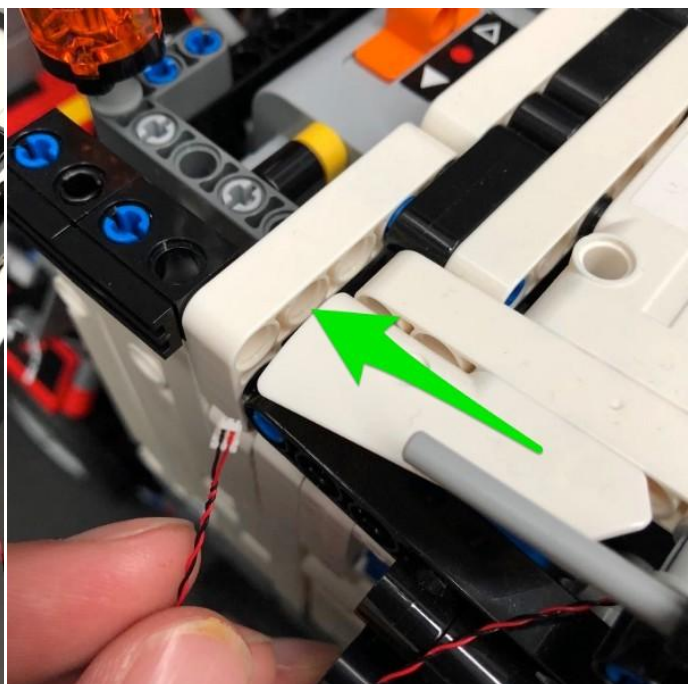
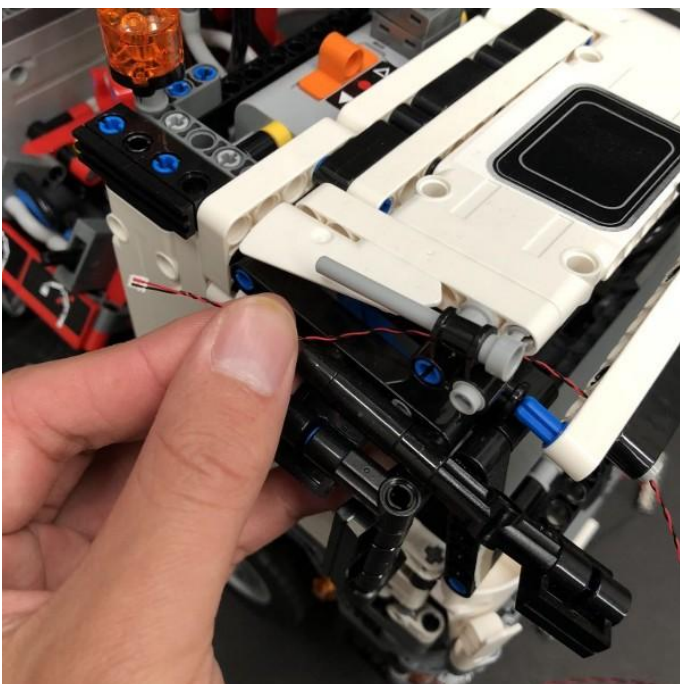
47. Starting with the left side, separate the following sections by pulling the front piece forward.



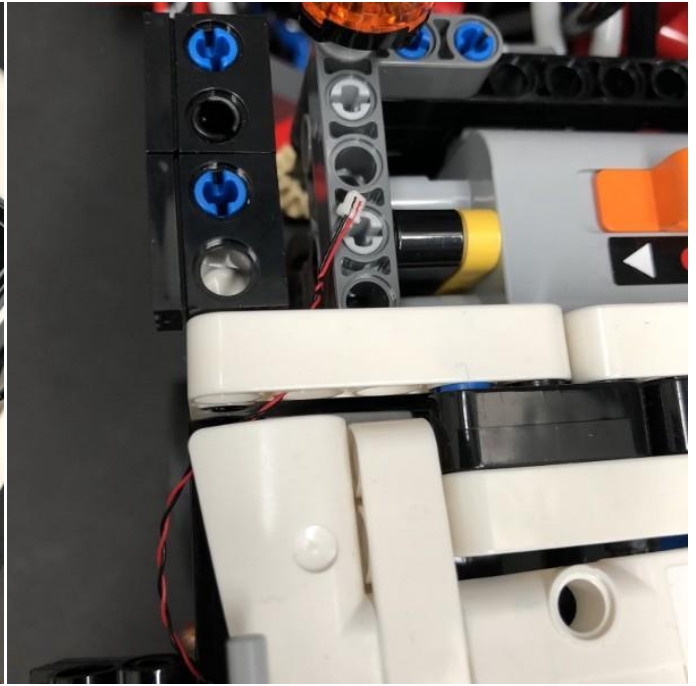
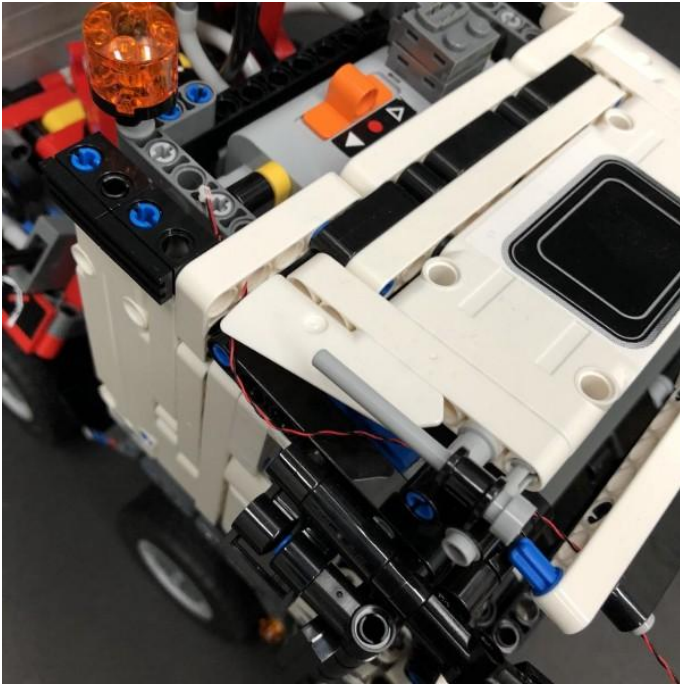
48. Take a White 30cm Dot Light and thread the connector side through the following hole and then in between white and black sections as per below:



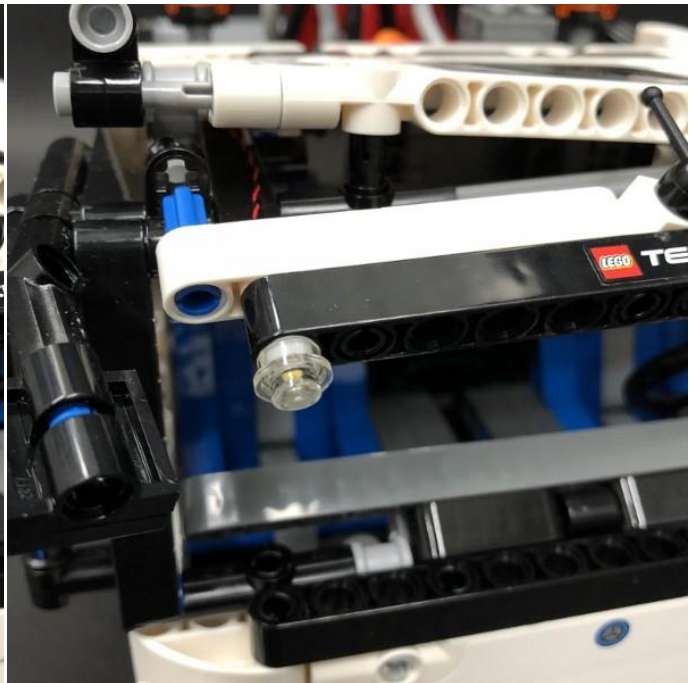
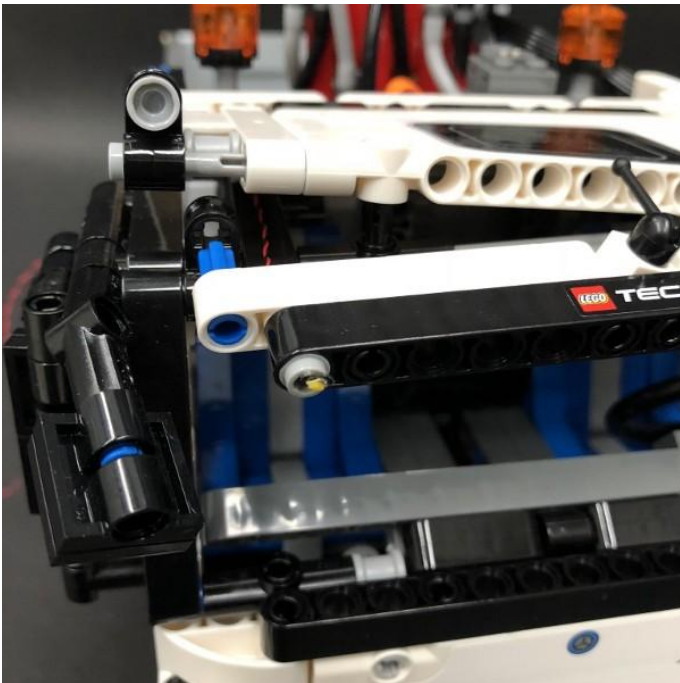
49. Pull the cable all the way back and then thread it through the second hole of the white piece as per below and then down in between black and grey sections:



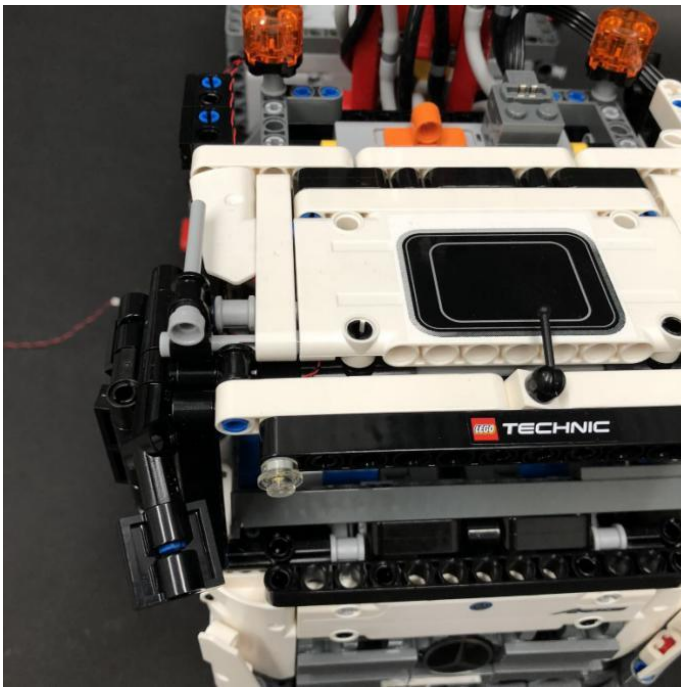
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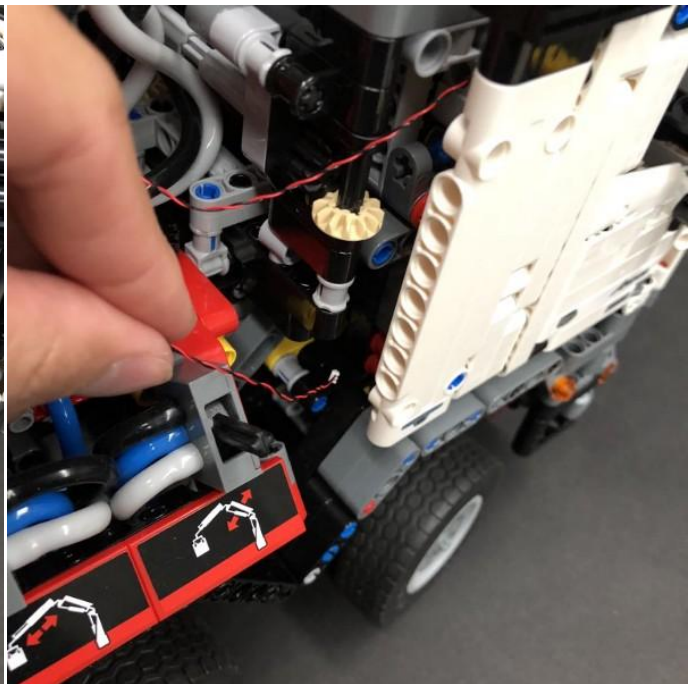
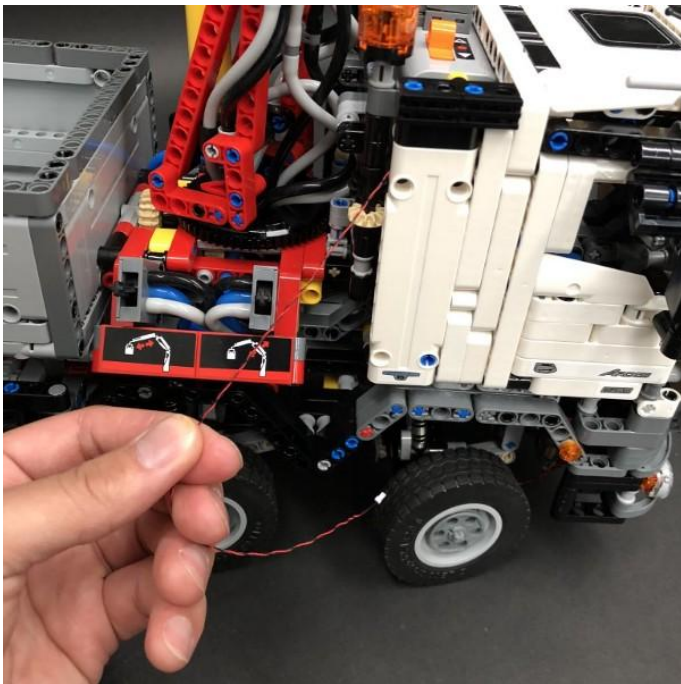
51. Press the Dot Light flat against the edge of the light grey piece and then secure it in place by connecting a provided Trans Clear Round Plate 1x1 over the top.



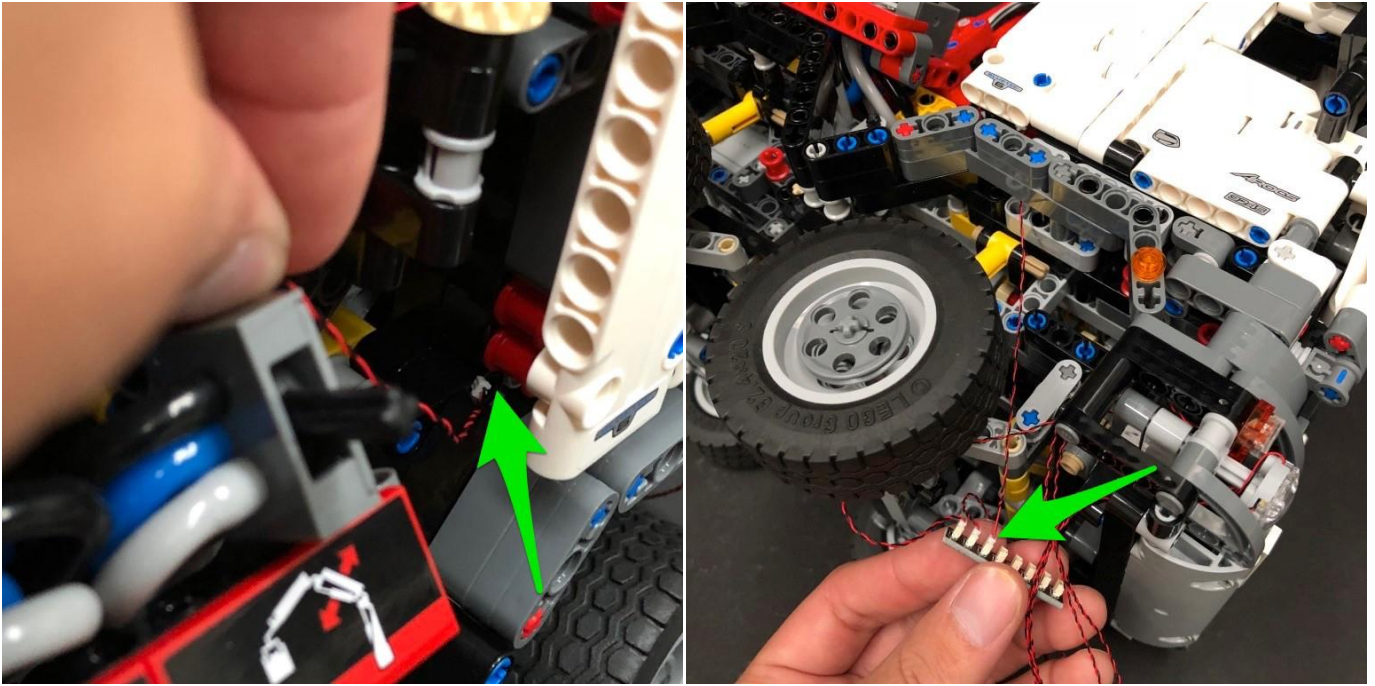
52.Close up all the sections we separated.



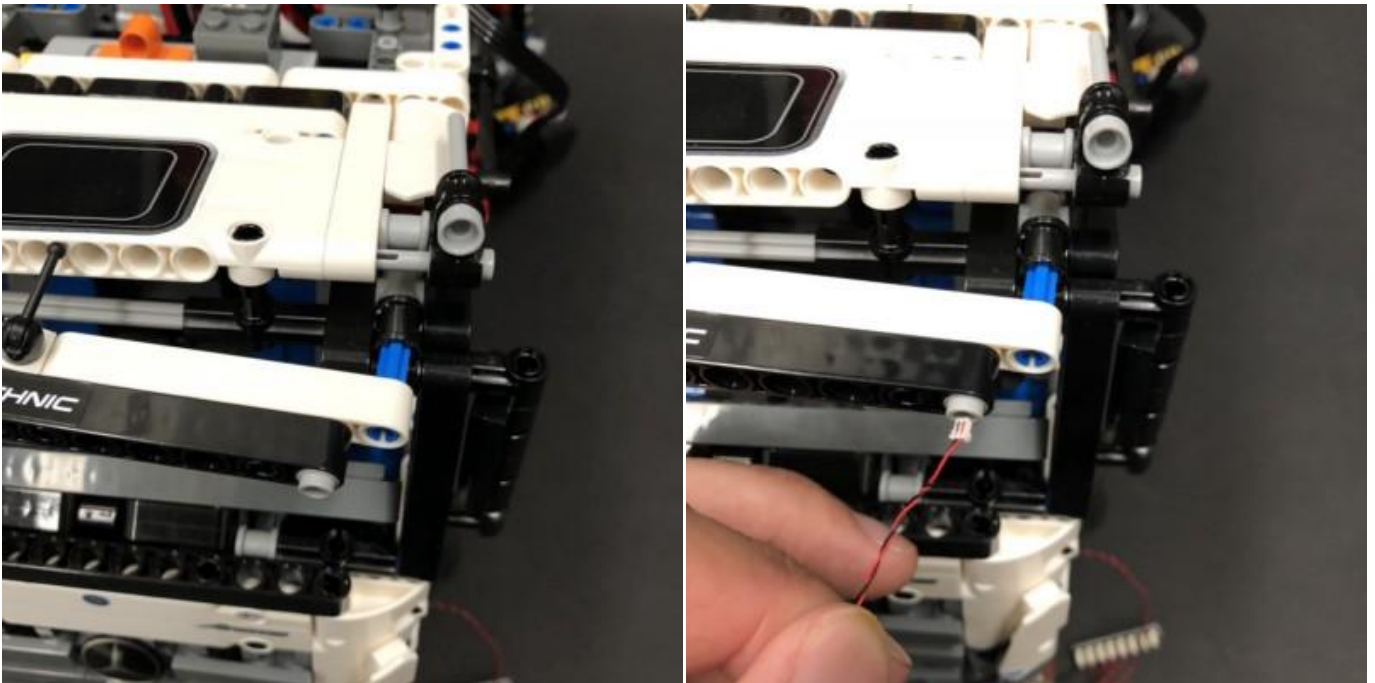
53.Pull the cable down the back and then thread down through the following space. Pull it down from underneath (above the wheel) and then connect it to the third port along the 8-port Expansion Board from step 12.



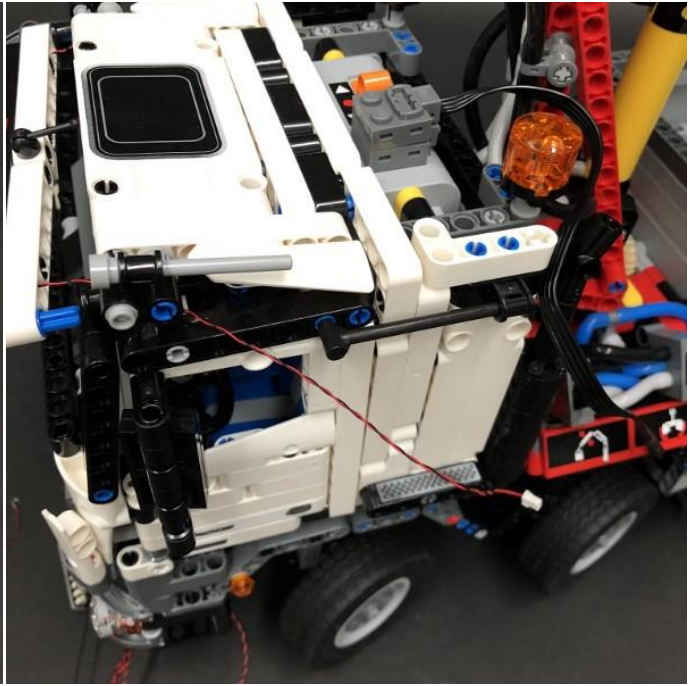
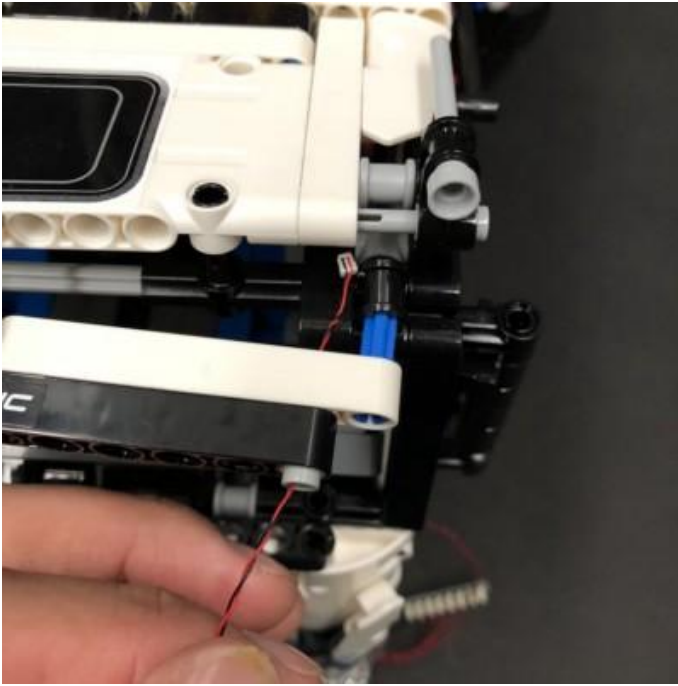
54



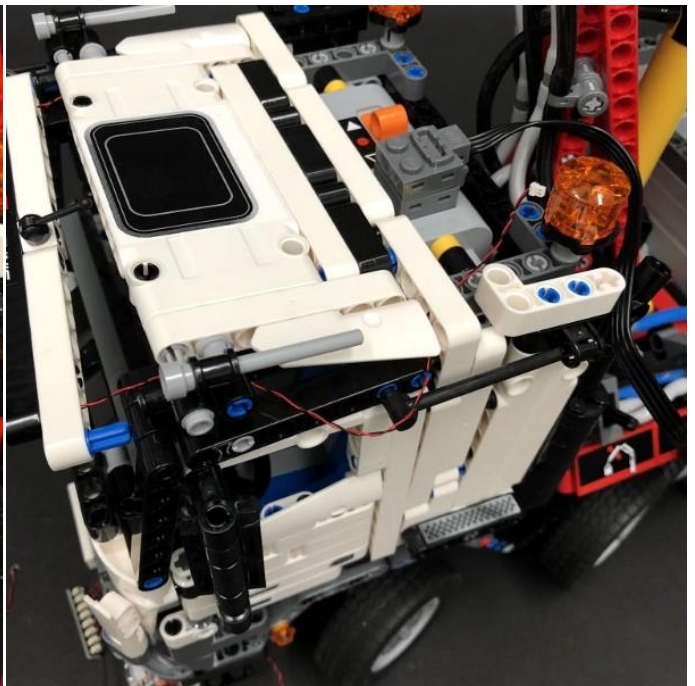
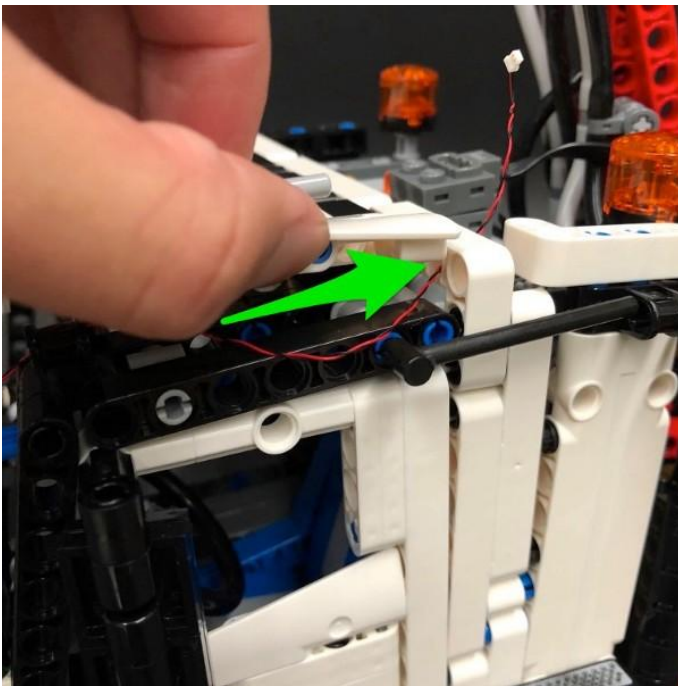
55. Repeat steps 13 to install another White 30cm Dot Light to the top right front of the truck using another Trans Clear Round Plate 1x1.



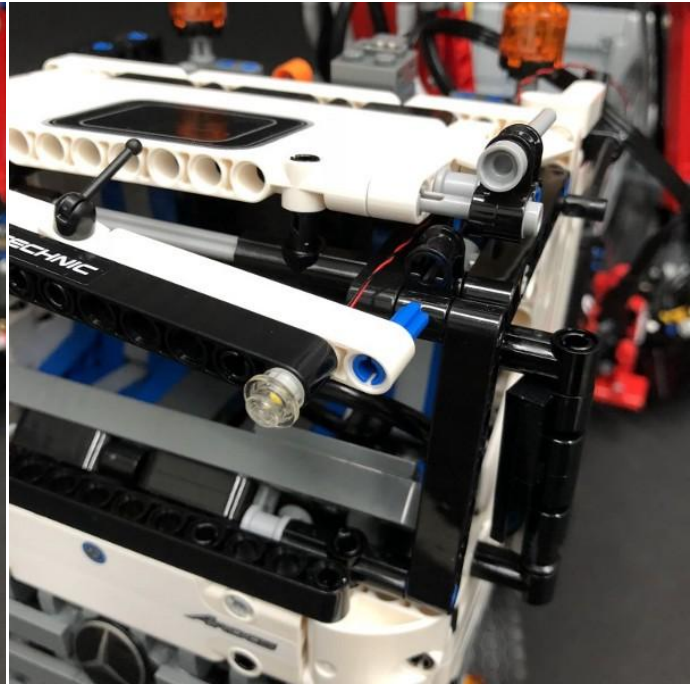
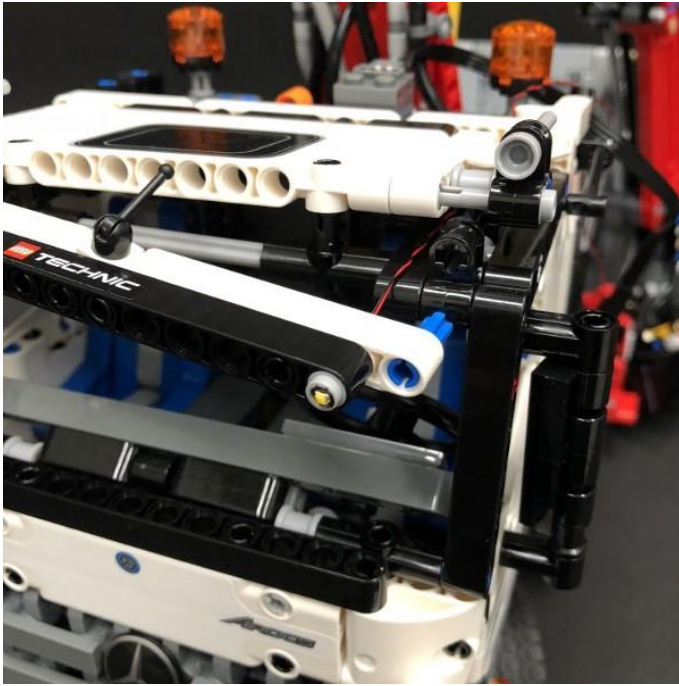
56



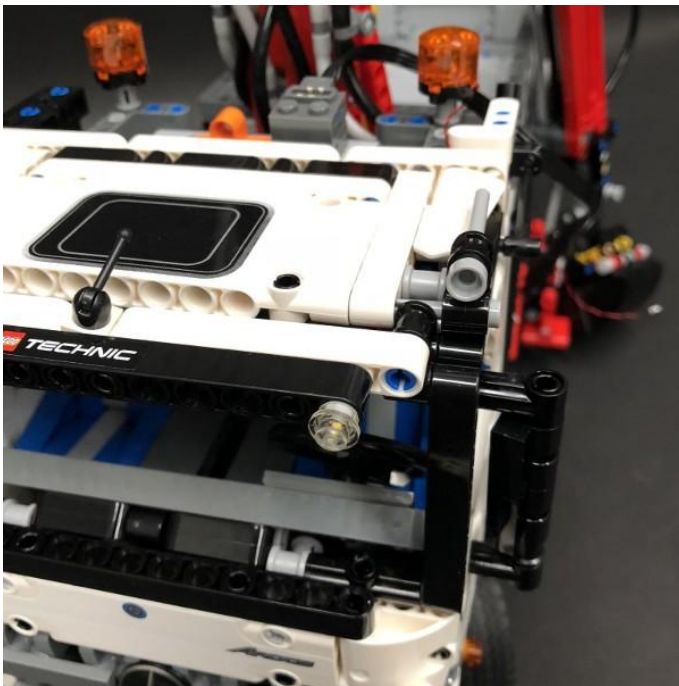
57



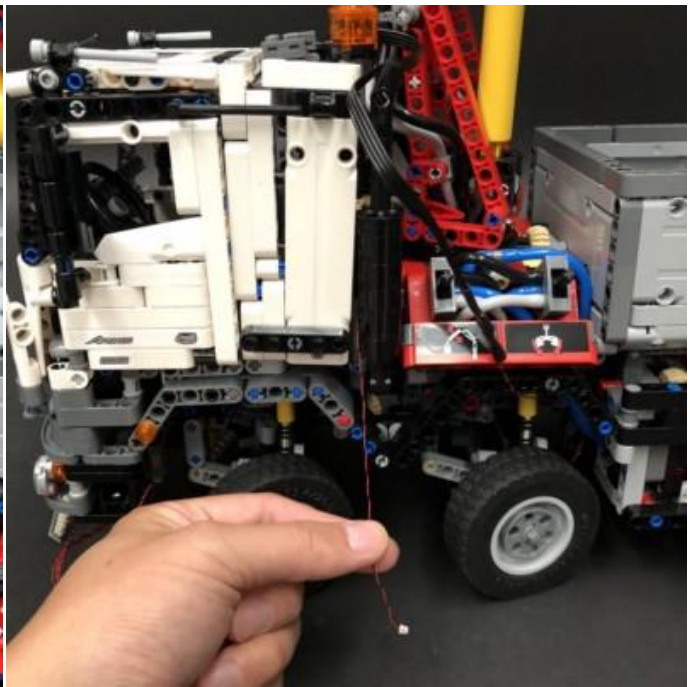
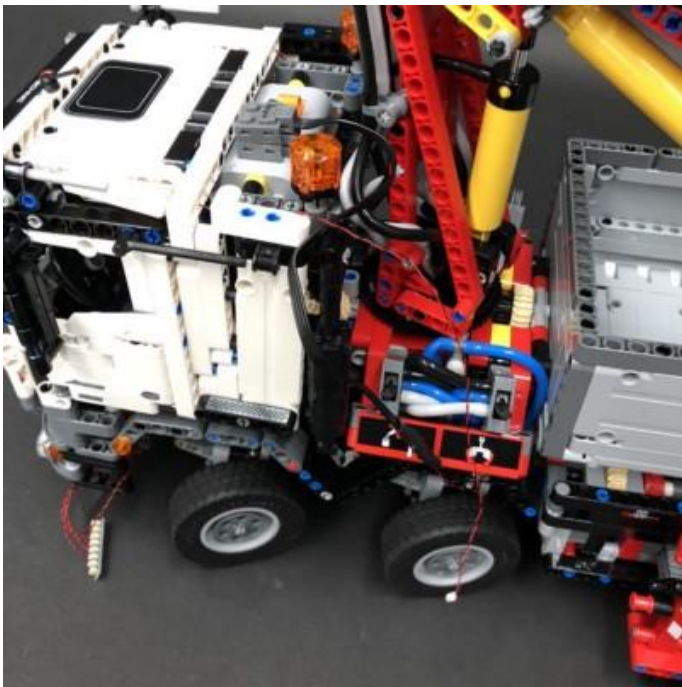
58



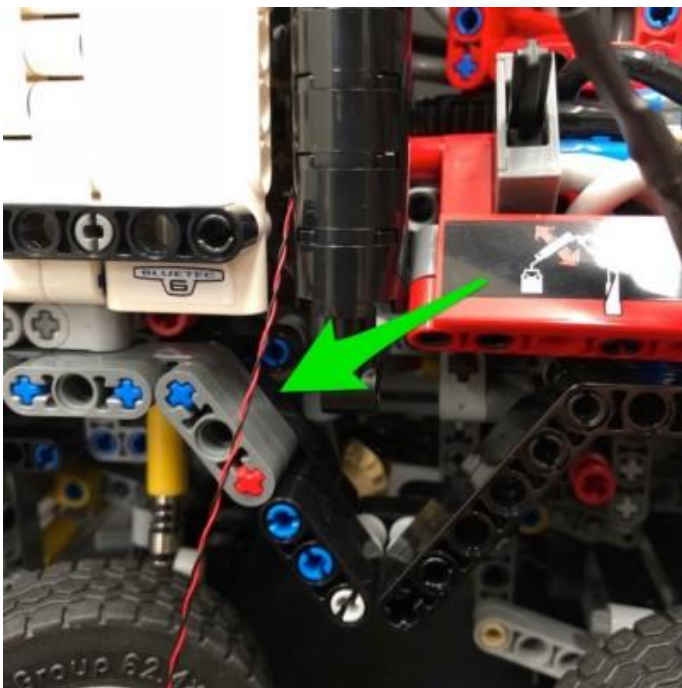
59



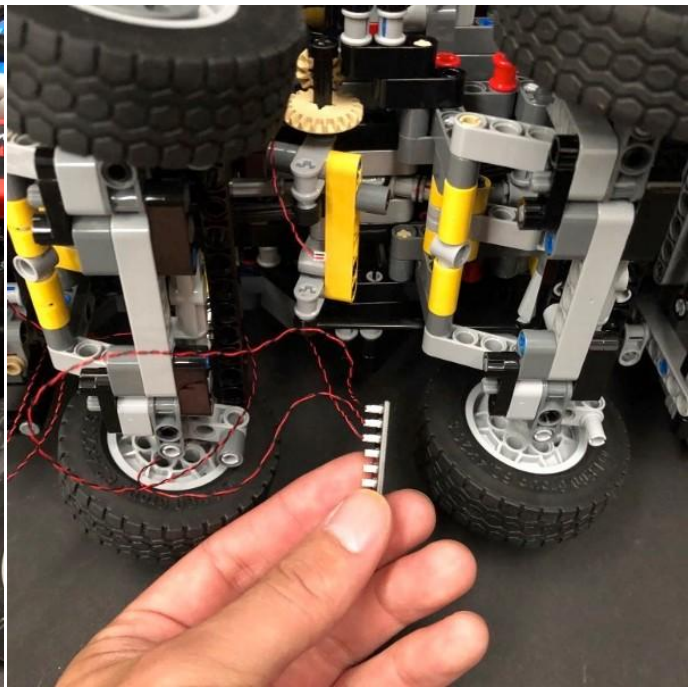
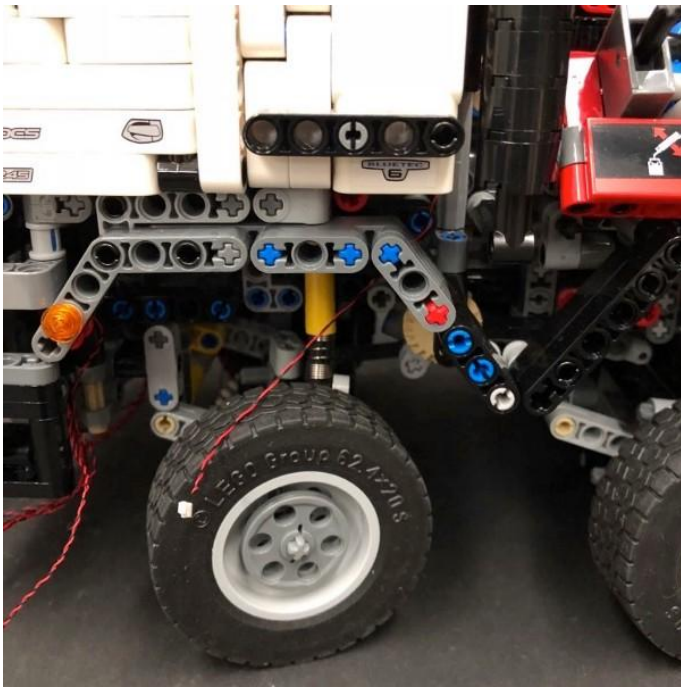
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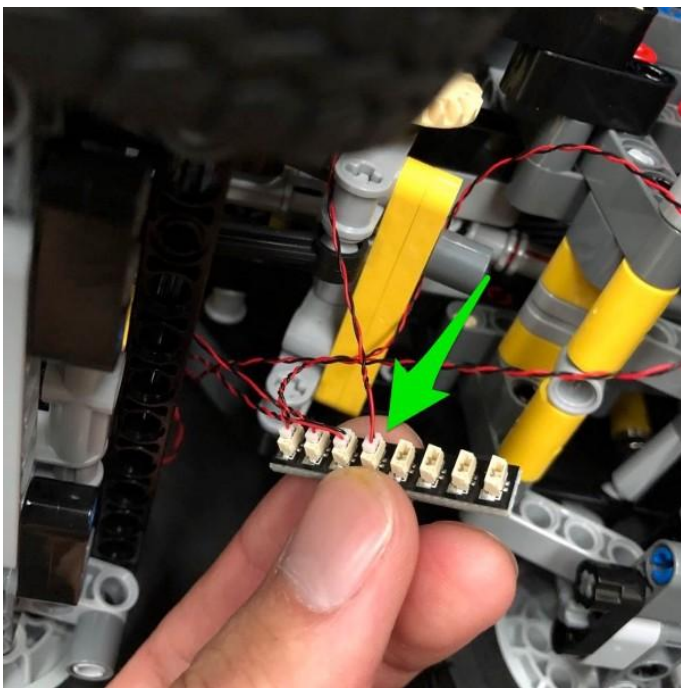
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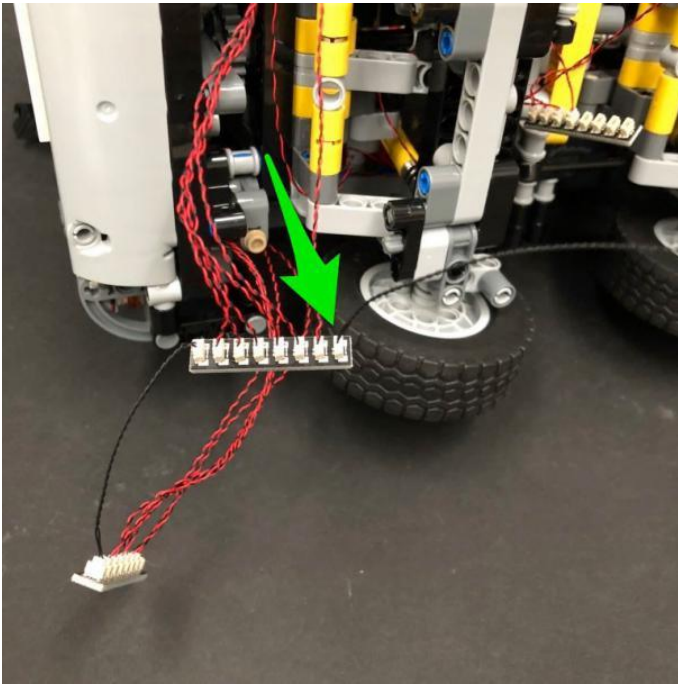
62



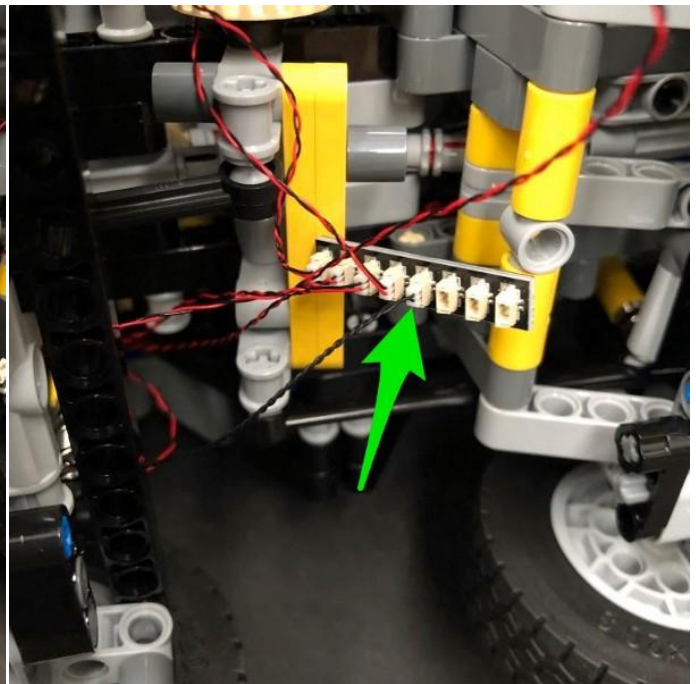
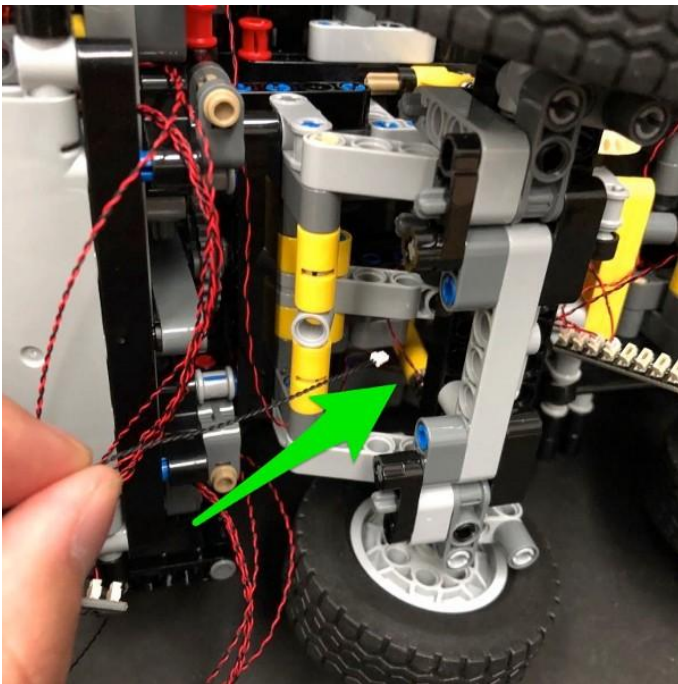
63



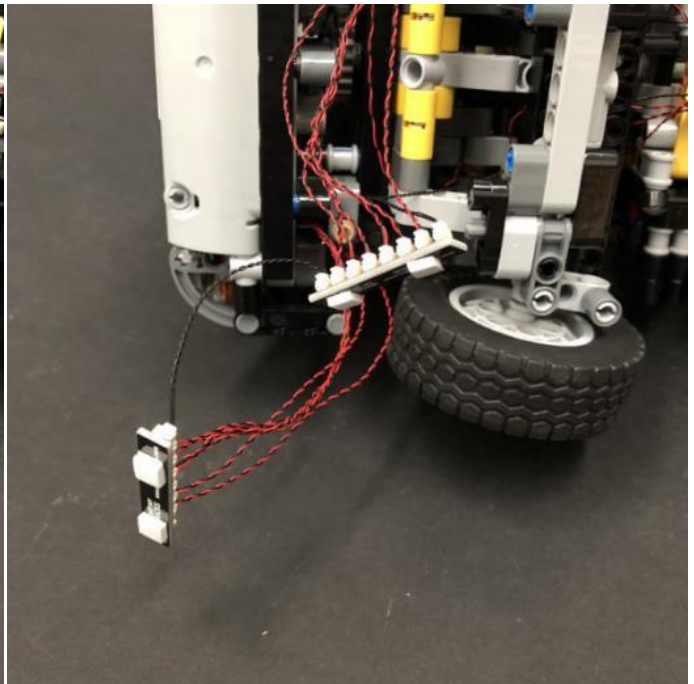
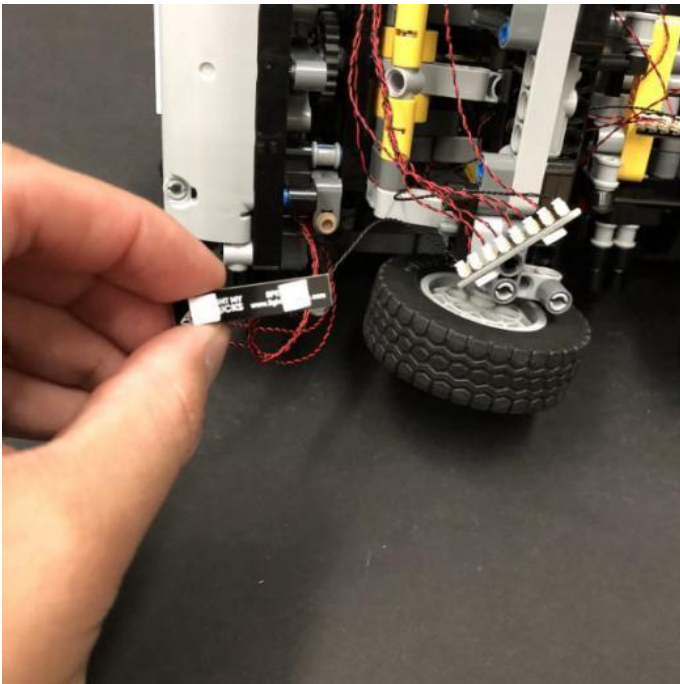
64. Take a 15cm Connecting Cable and connect it to the remaining port on one of the 8-port expansion boards from step 8.



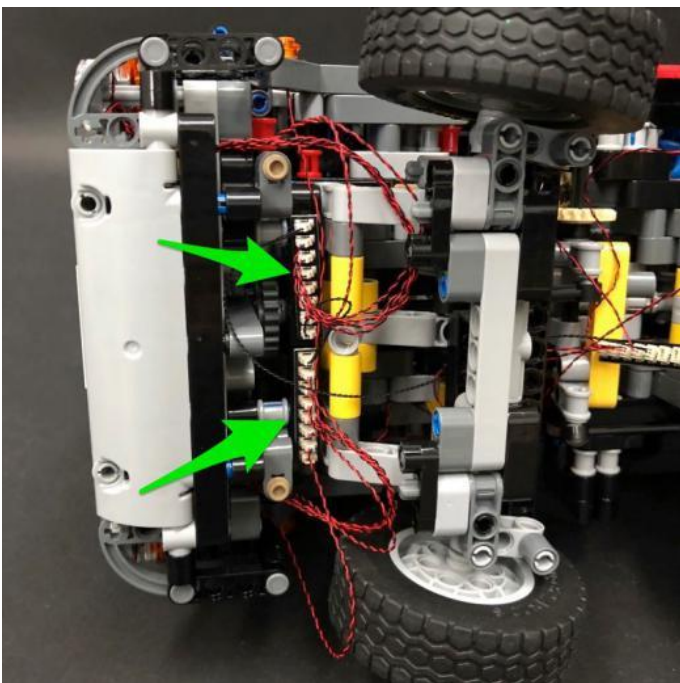
65. Thread the other end of the 15cm connecting cable through the following space (over the light grey piece) and then connect it to the next port along the 8-port expansion board (from step 12).



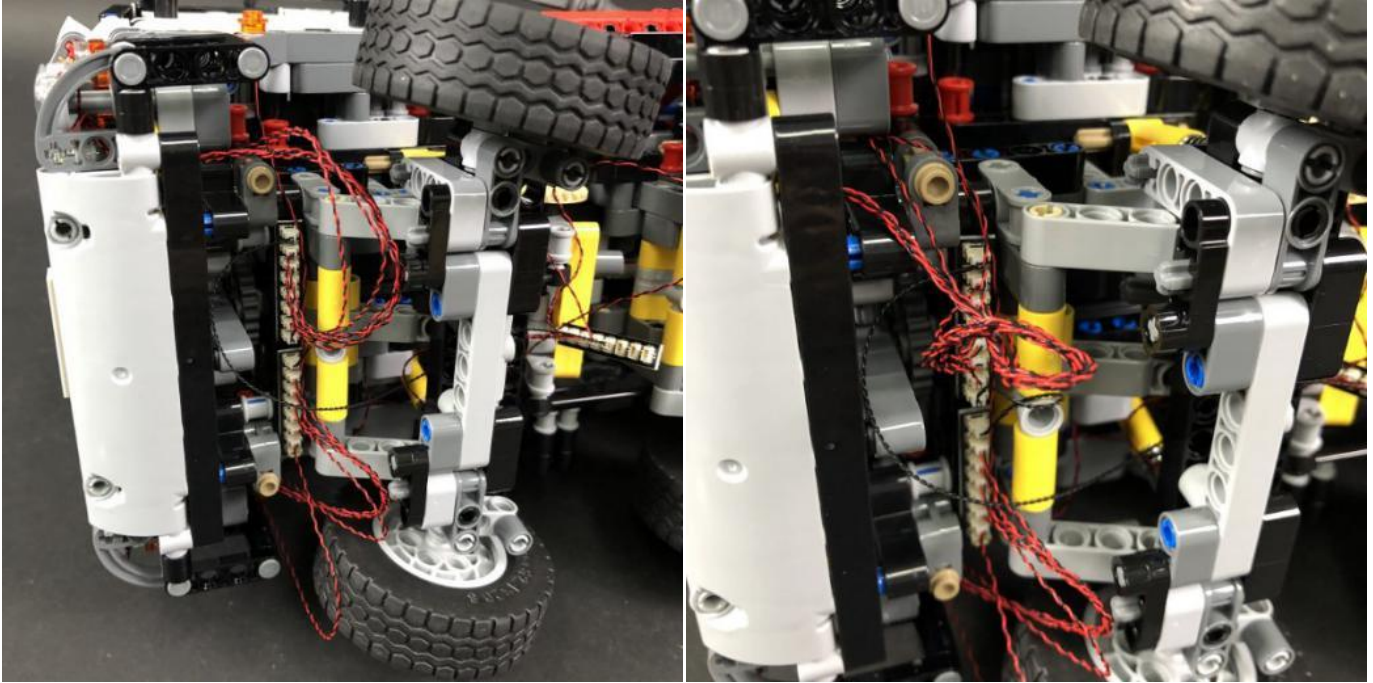
66. Take 4x Adhesive Squares and stick two on each 8-port expansion board at the front. Mount the two expansion boards underneath the truck in the below positions.



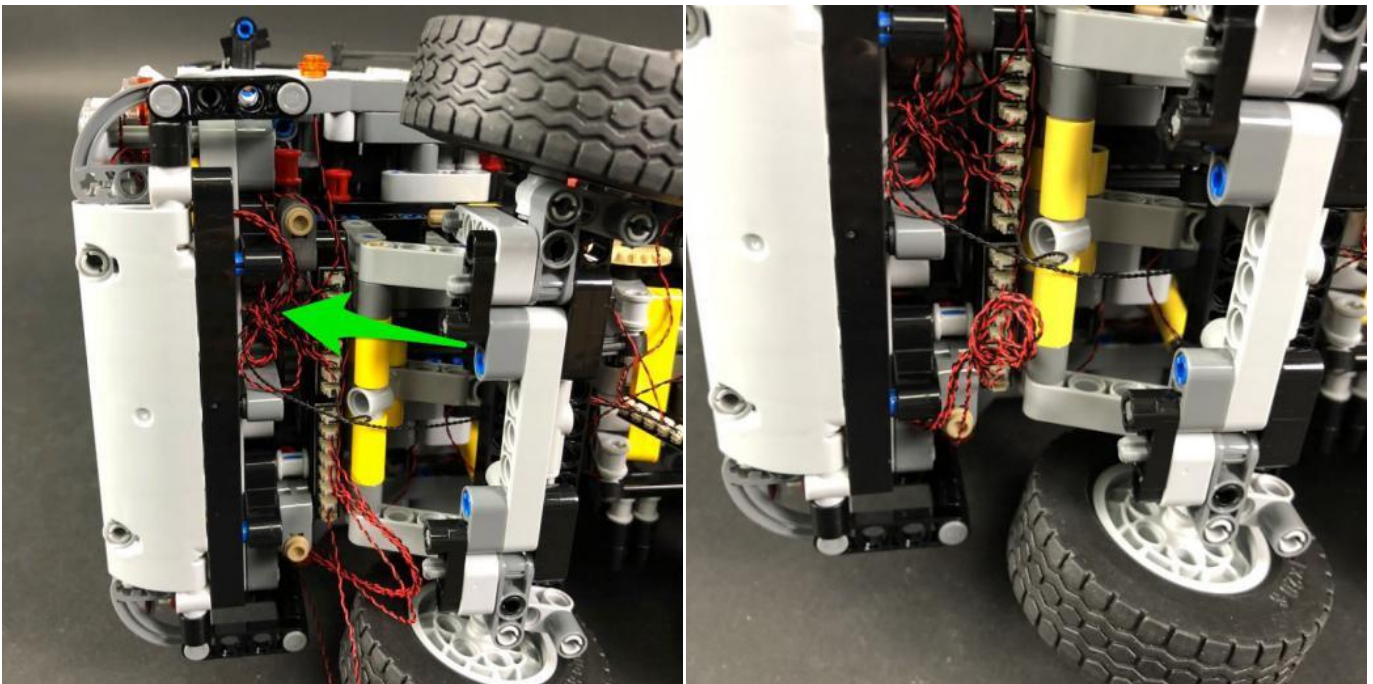
67



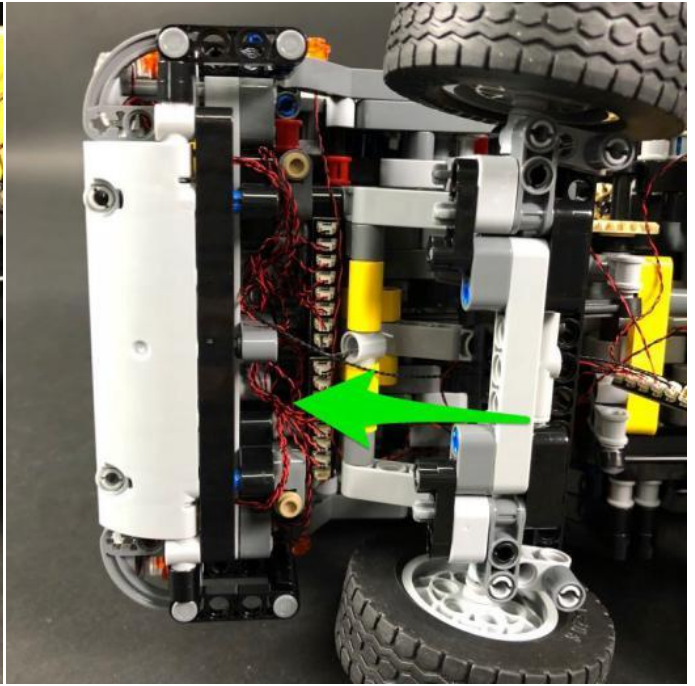
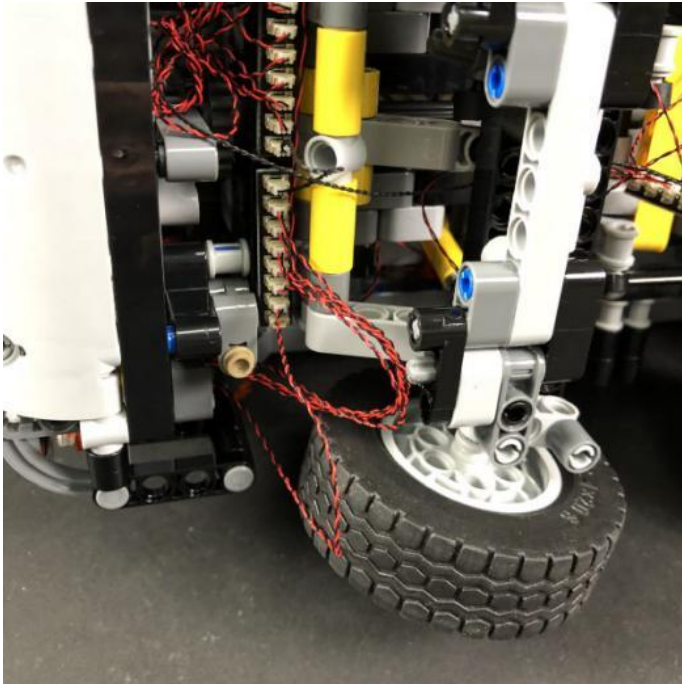
68. Neaten up excess cable from the Dot Lights at the front by pulling them all the way out and then twisting them around each other and then tucking them up the sections closest to each expansion board.



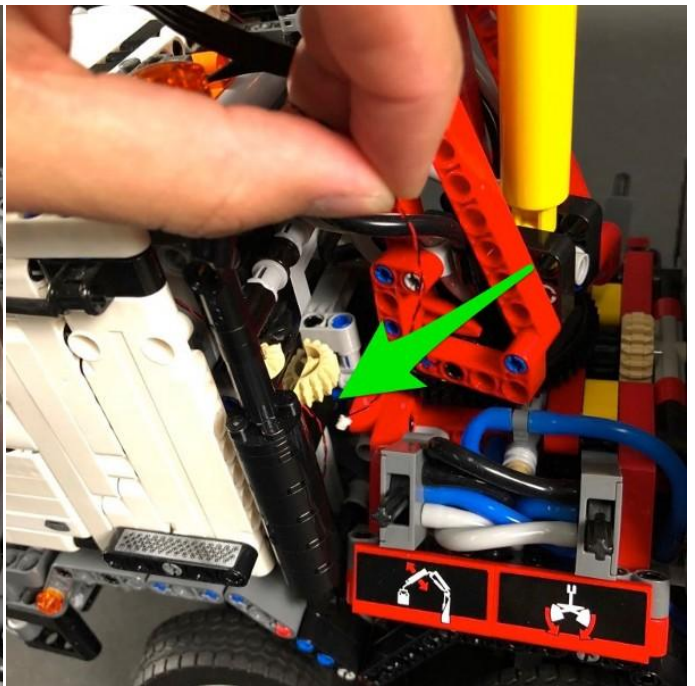
69



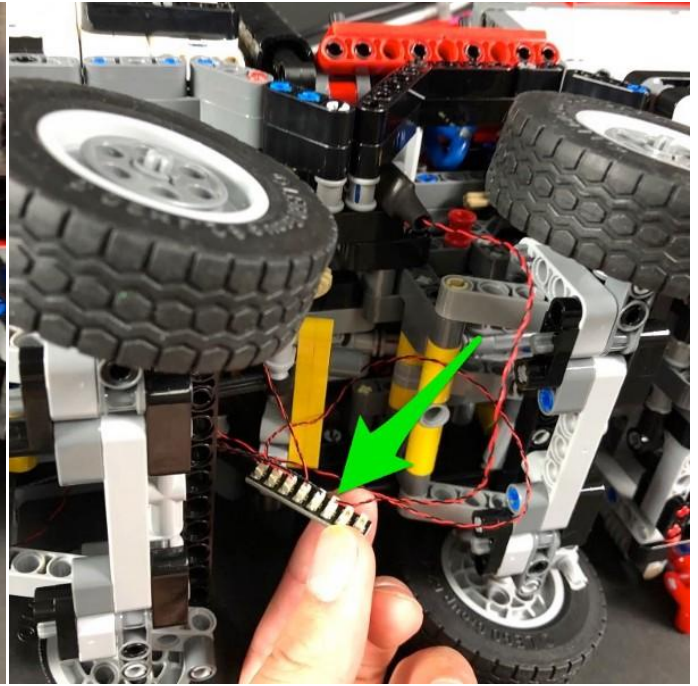
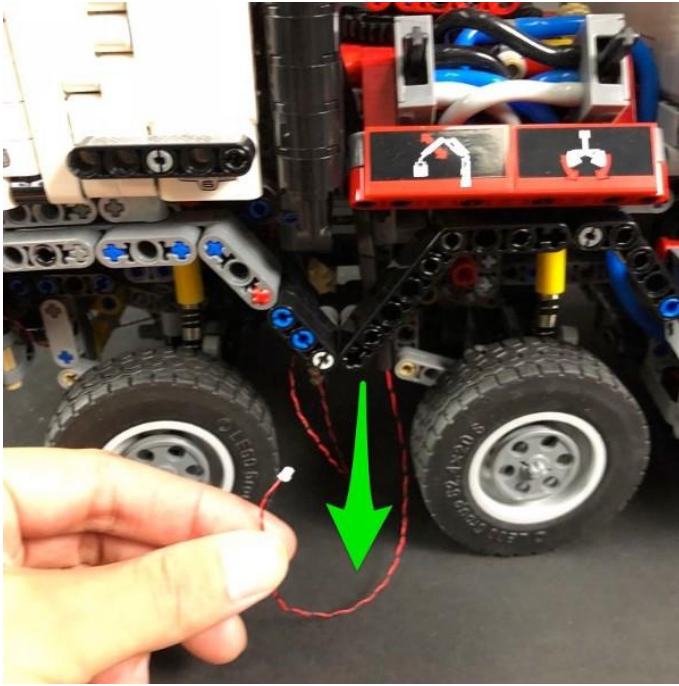
70



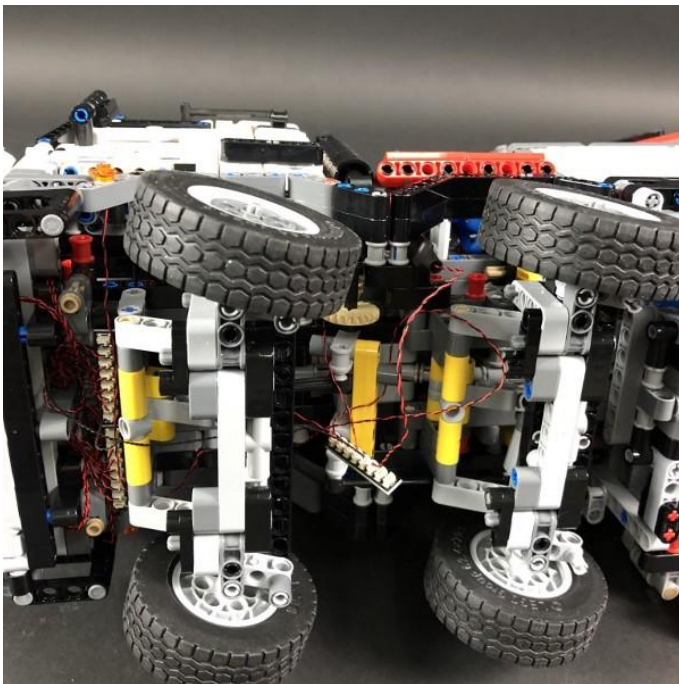
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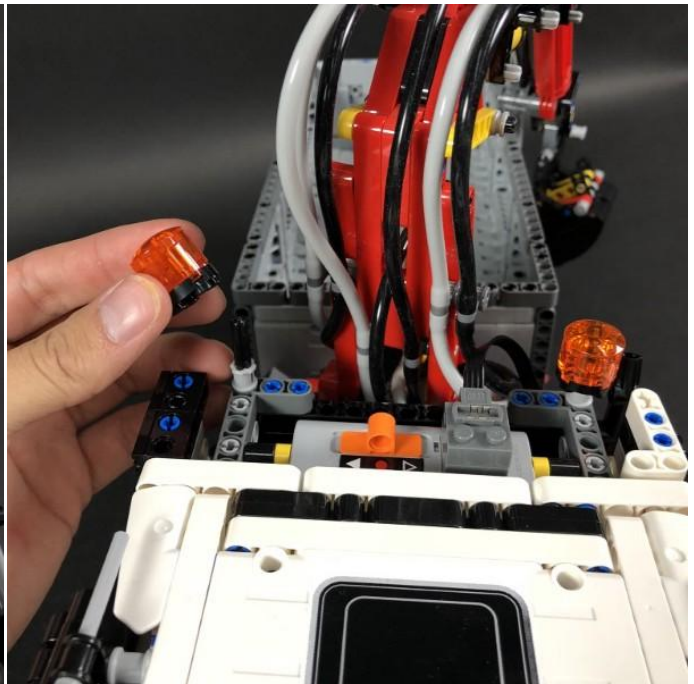
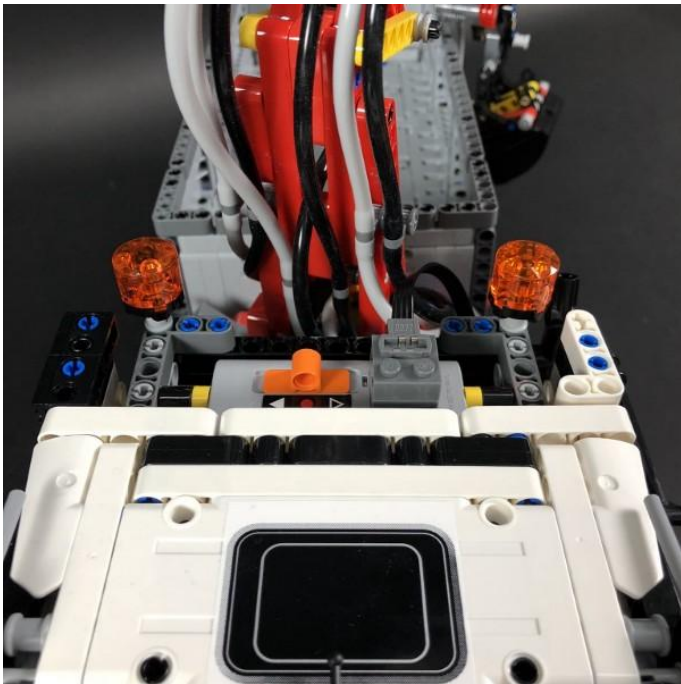
72



73. Turn on the power functions battery pack again to test all the lights are working OK.



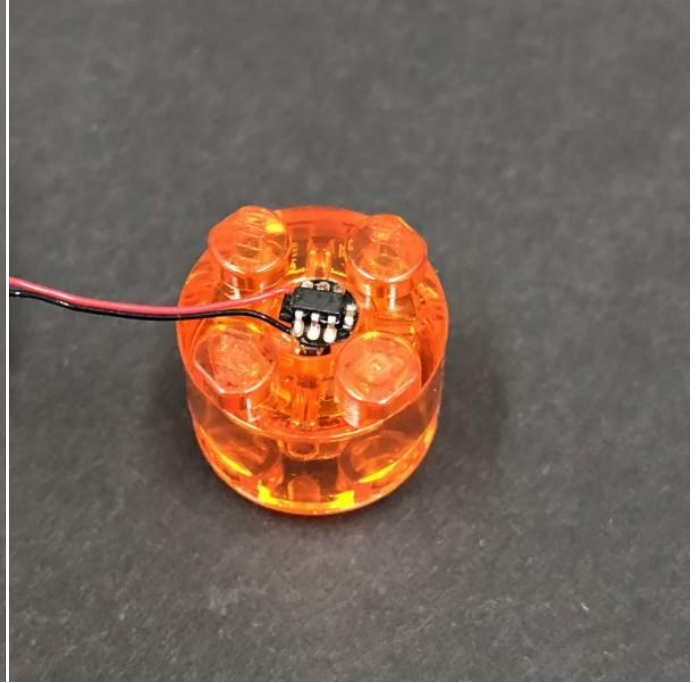
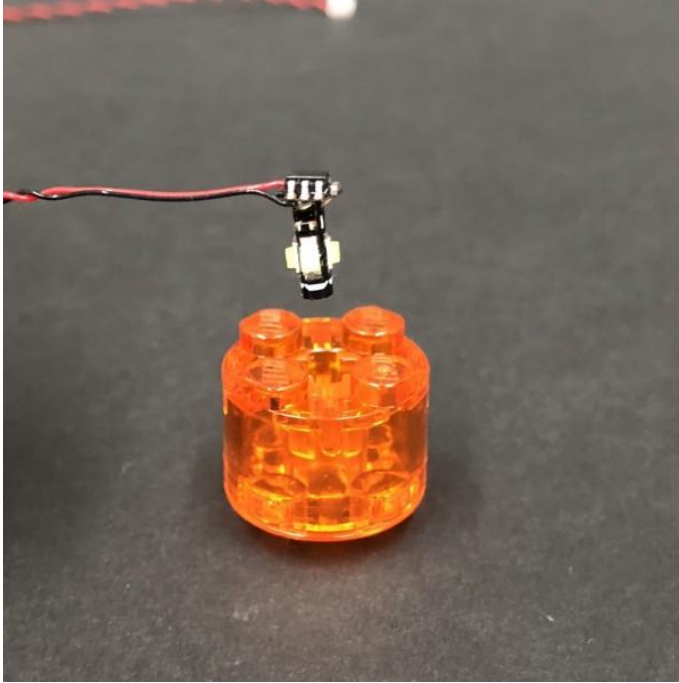
74. We will now install our Rotating Dot Lights inside the two beacons. First disconnect both beacon light sections and then disconnect the black round plates 2x2 from underneath each.



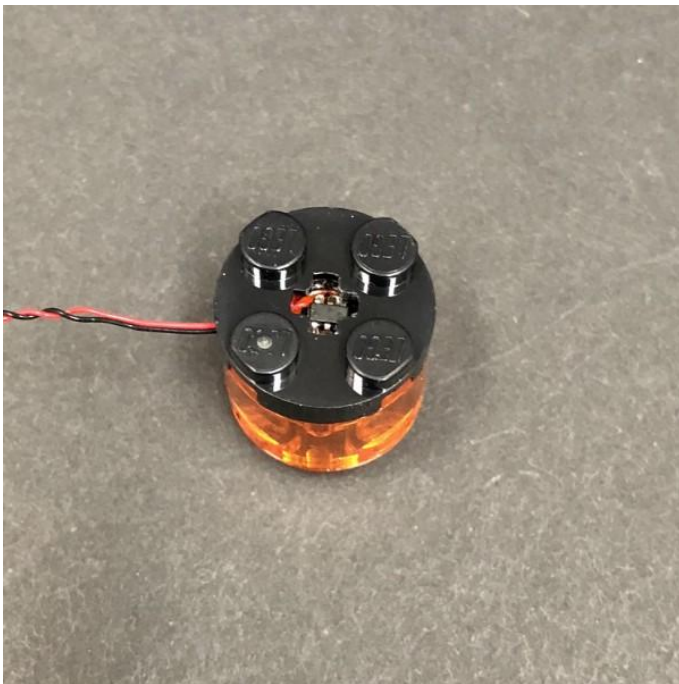
75



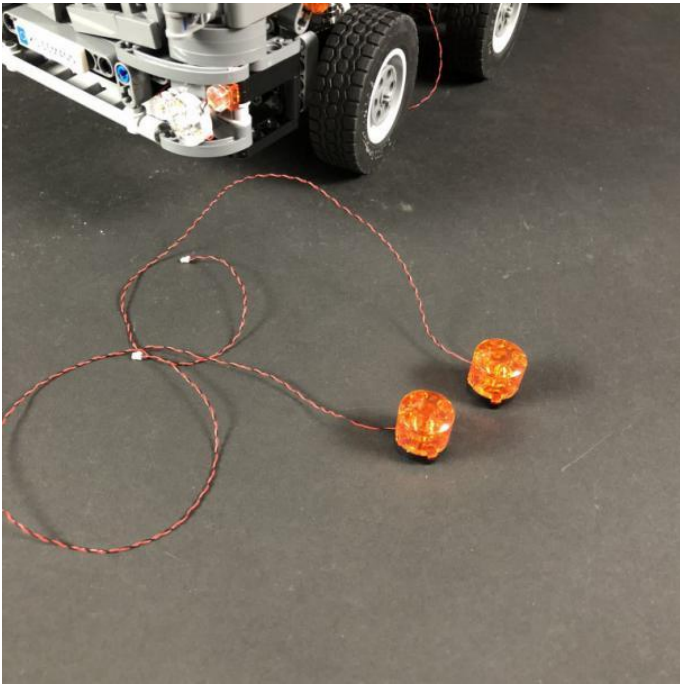
76. Take 1x Rotating 30cm Dot Light and place the component upside down (flat side up) over the top of the middle of the trans orange round brick 2x2. Reconnect the black round plate 2x2 directly over the top then flip the beacon over to the correct side.



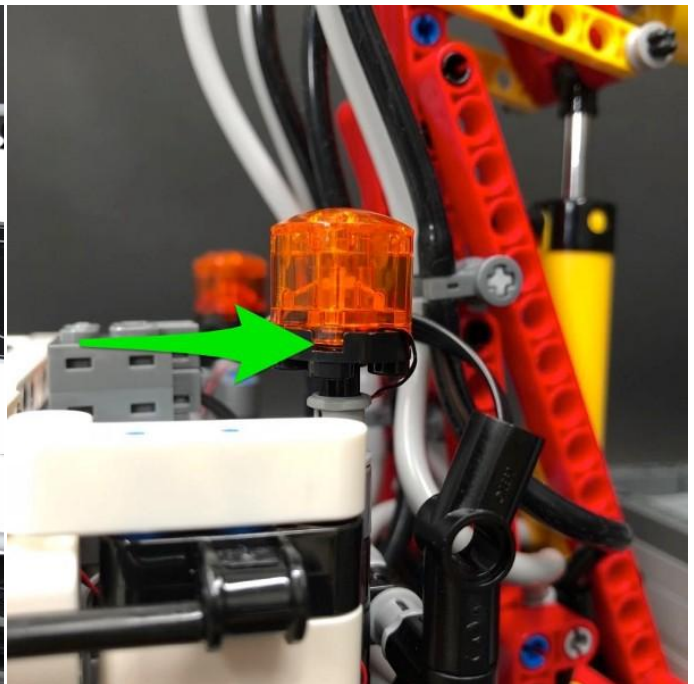
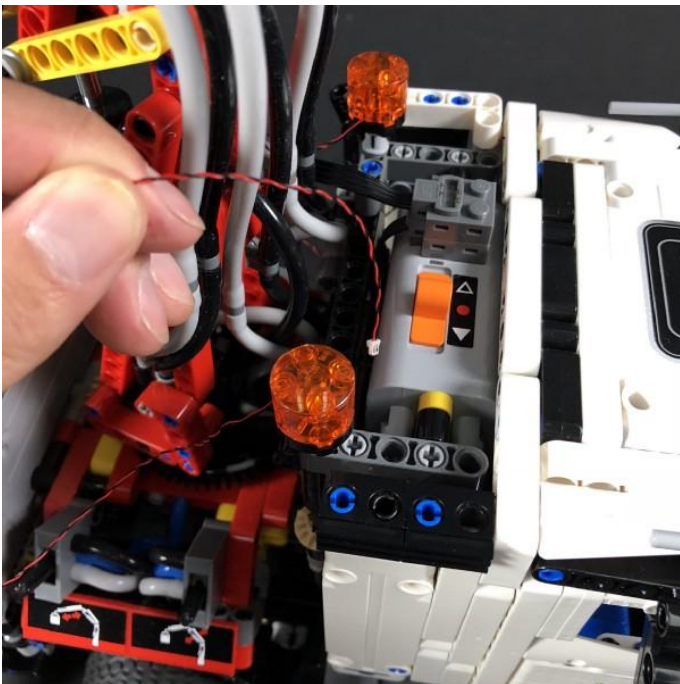
77



78. Repeat this process to install another Rotating 30cm Dot Light to the other beacon.

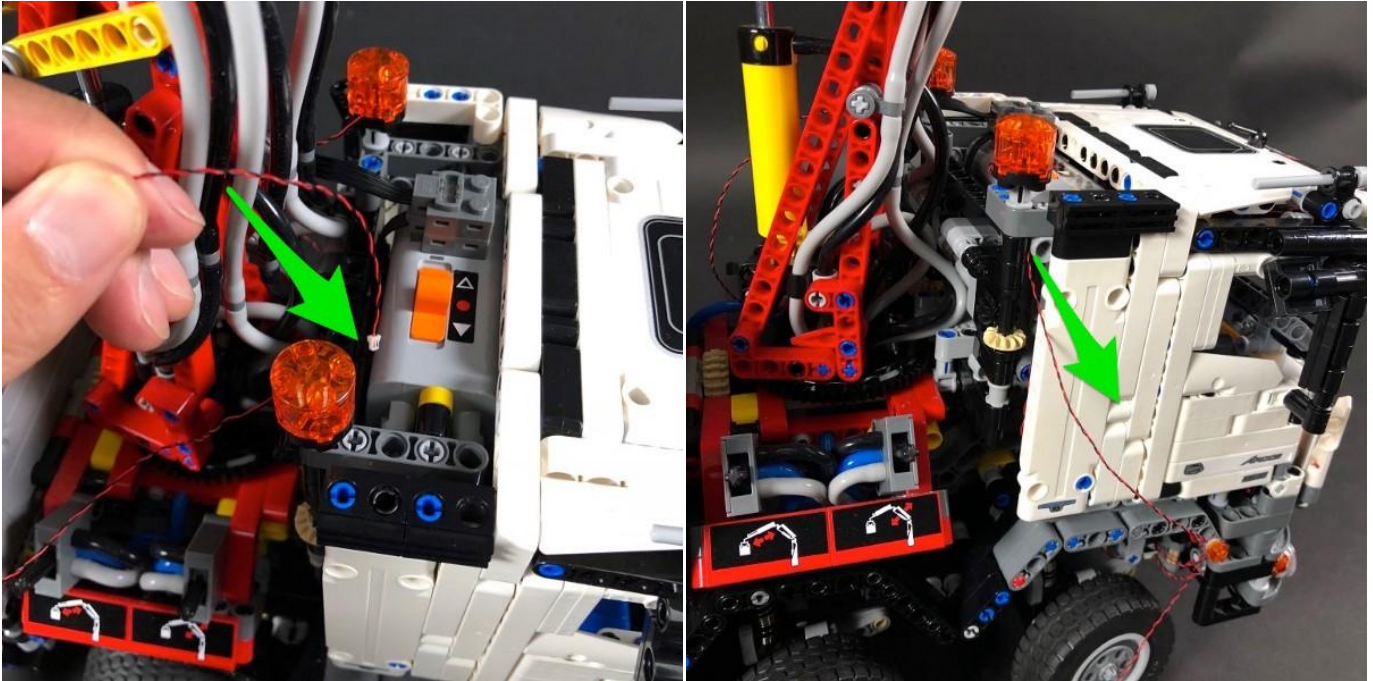


79

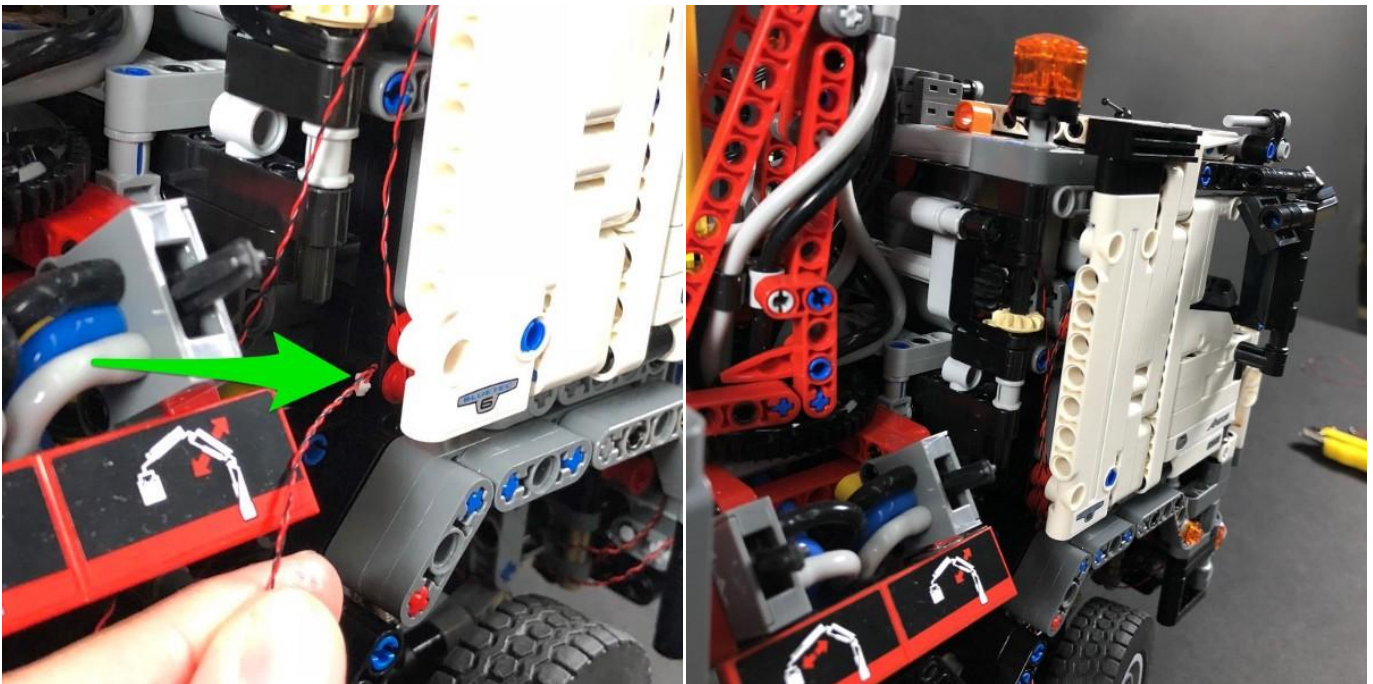


80.The base of the Rotating Dot Light should be sitting on top of the technic bar coming up from underneath

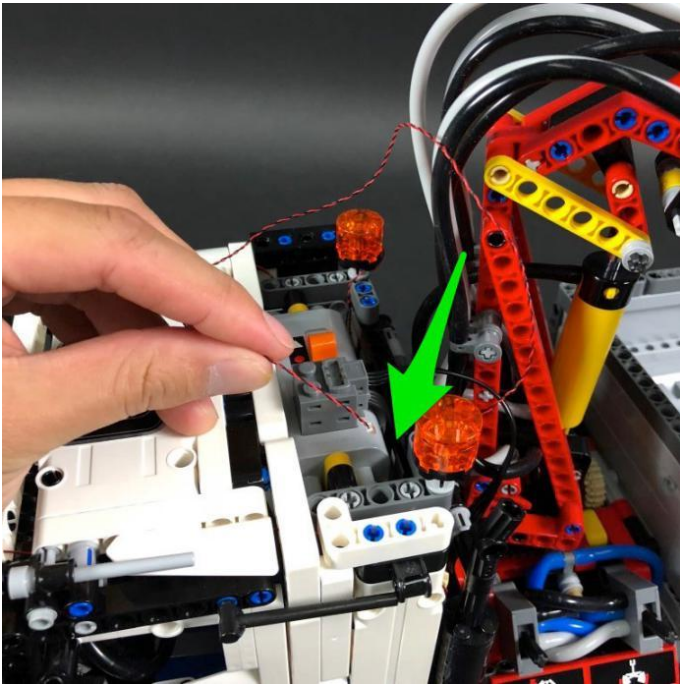
Take the left beacon cable and thread it down the following space:



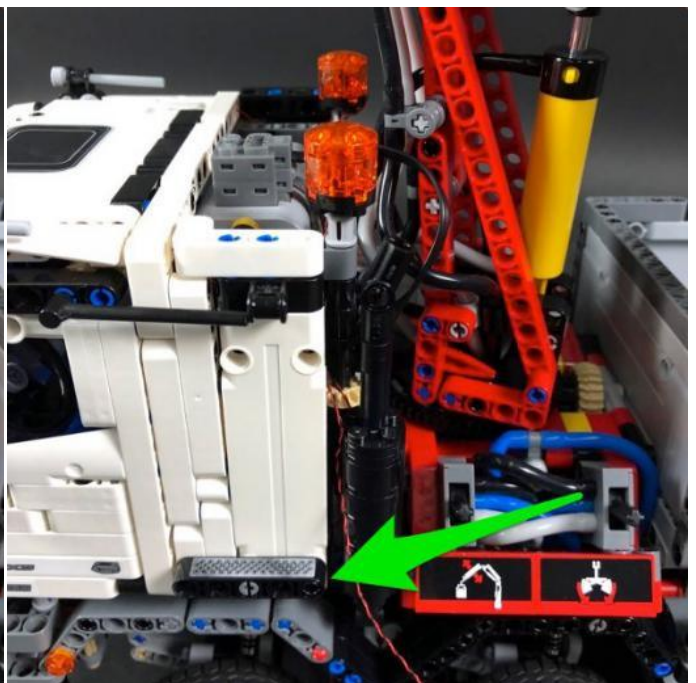
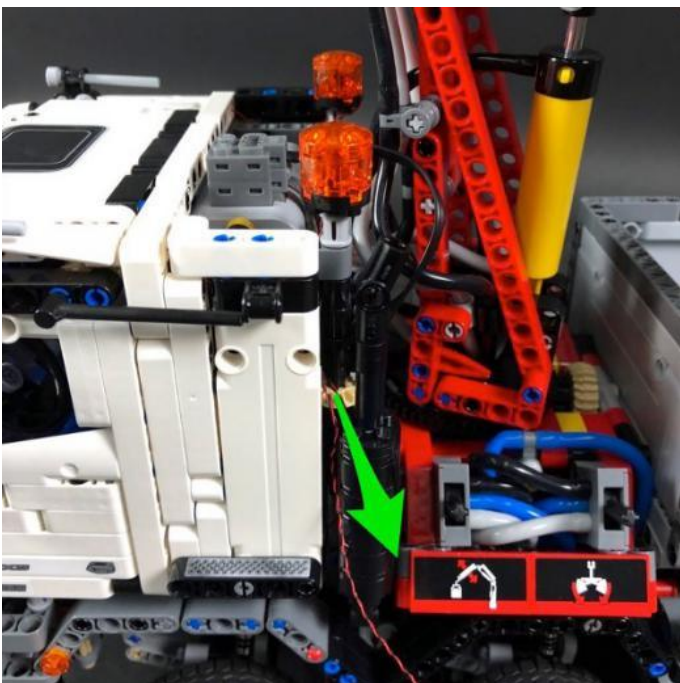
81.Pull it out from underneath and then thread it through the space below. Pull it out from underneath the truck.



82. Take the right beacon light and thread it down the following space:



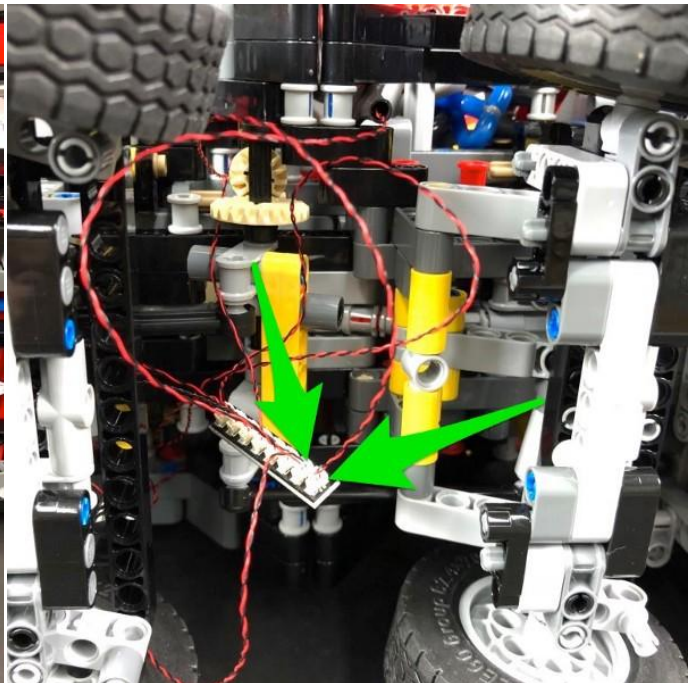
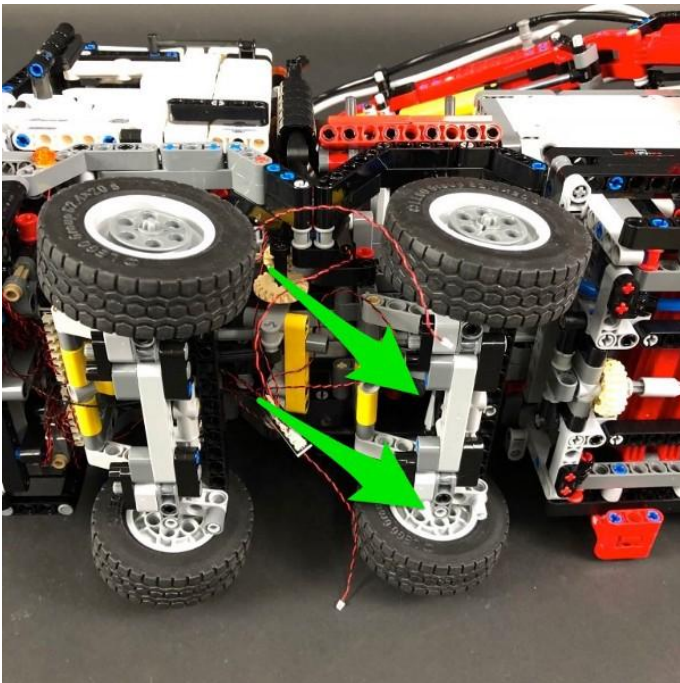
83. Pull it down from underneath and then thread it down through the next space below:

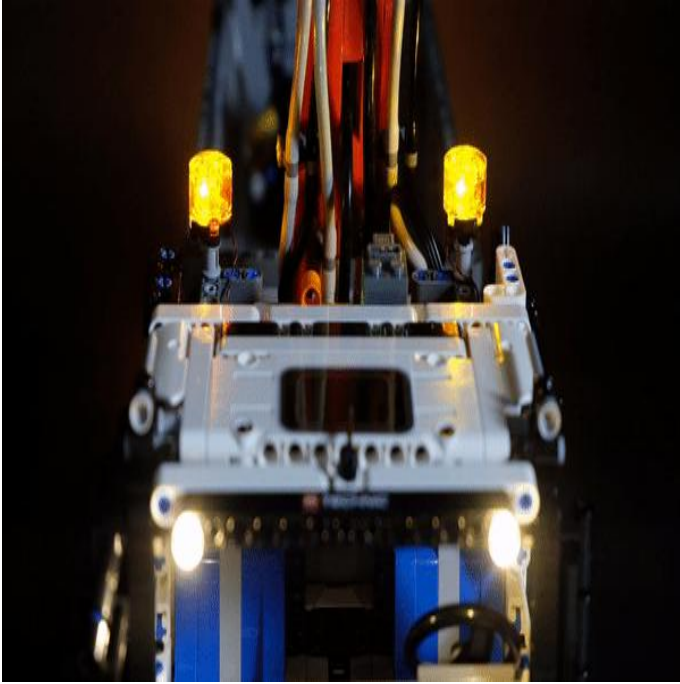


84

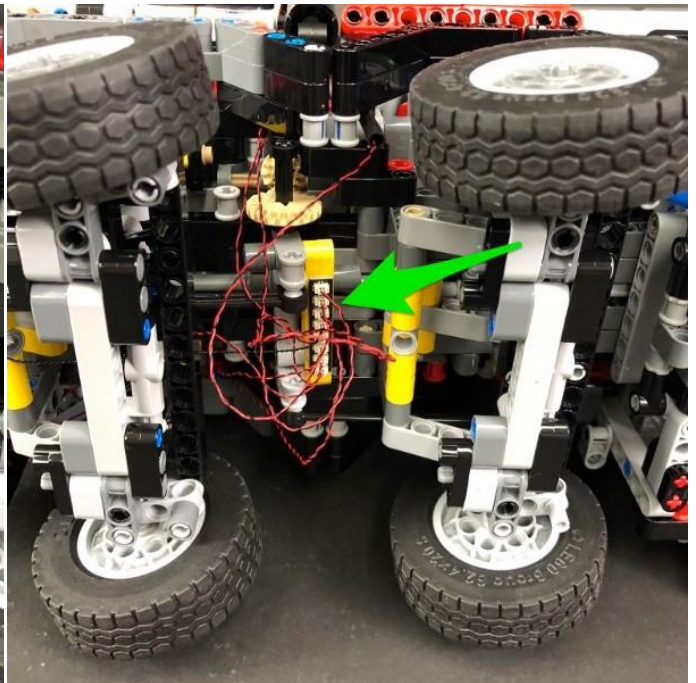
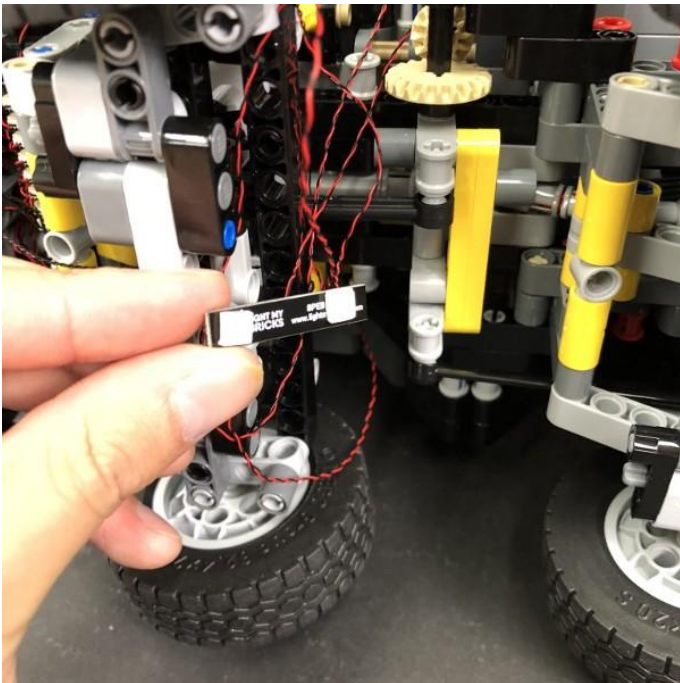


85. Turn the truck over and pull both beacon light cables out from underneath and connect them to the two remaining ports on the 8-port expansion board.

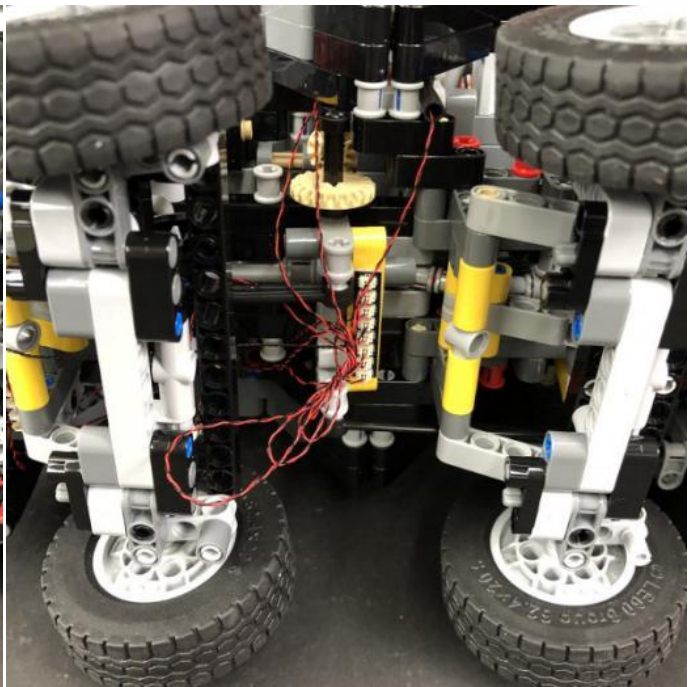
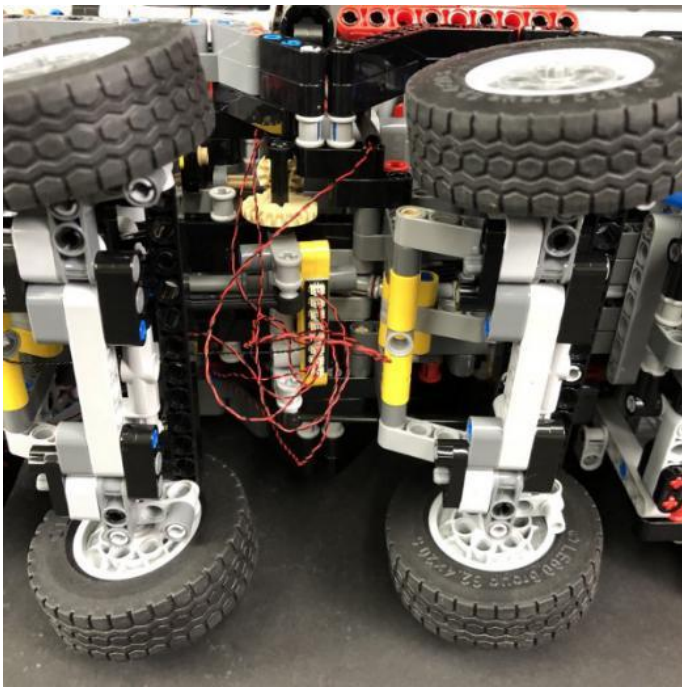




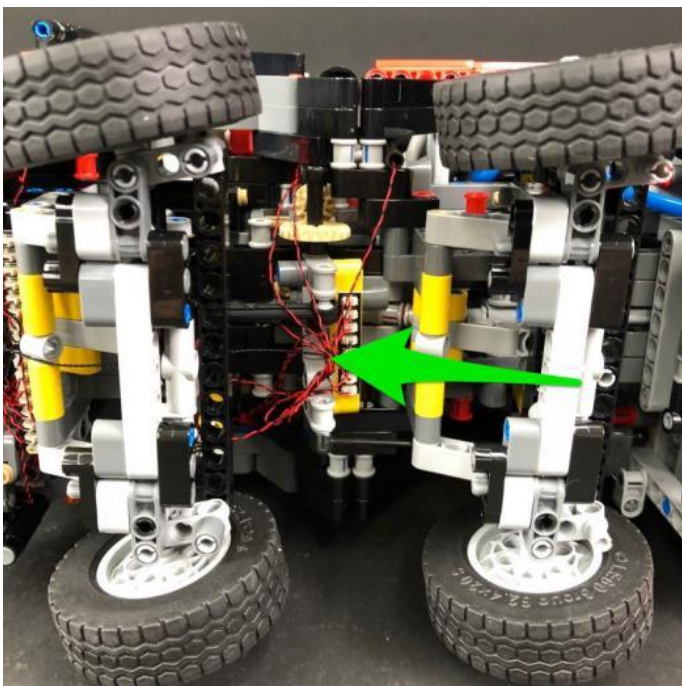
87. Turn the Truck back over and then mount the 8-port Expansion Board underneath in the following position using 2x Adhesive Squares.



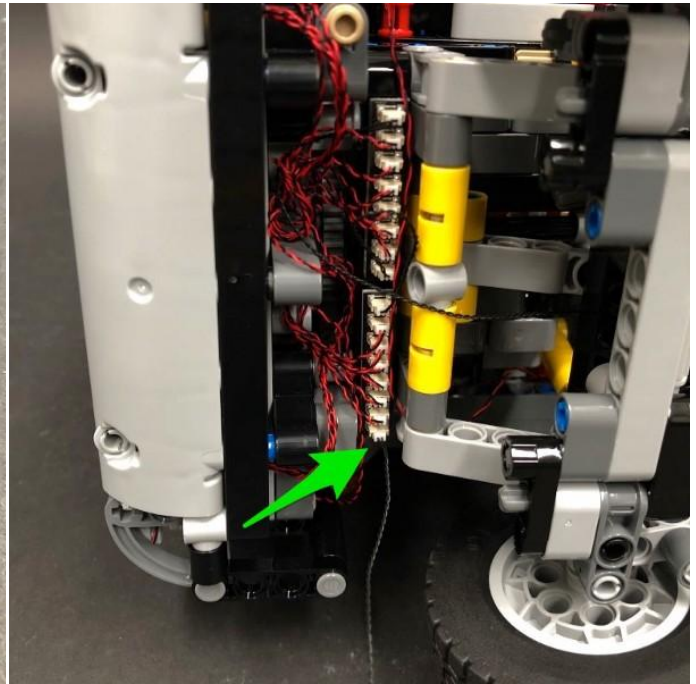
88



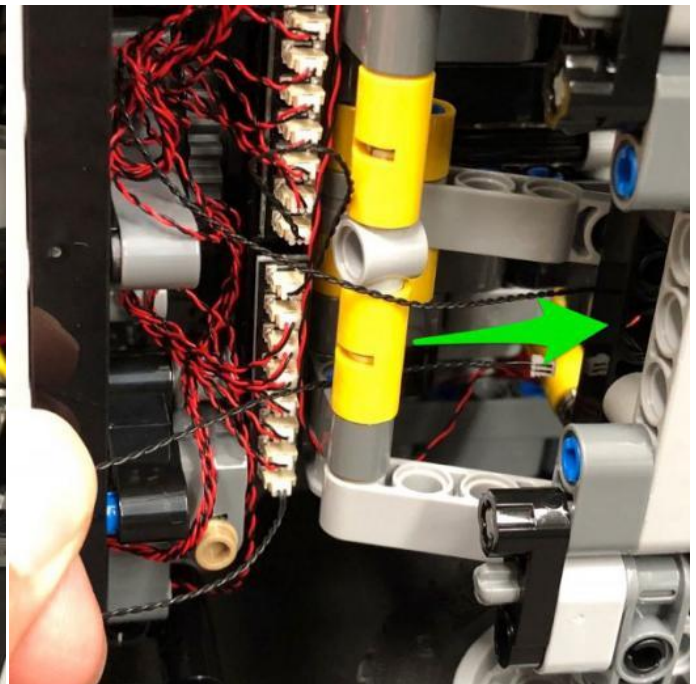
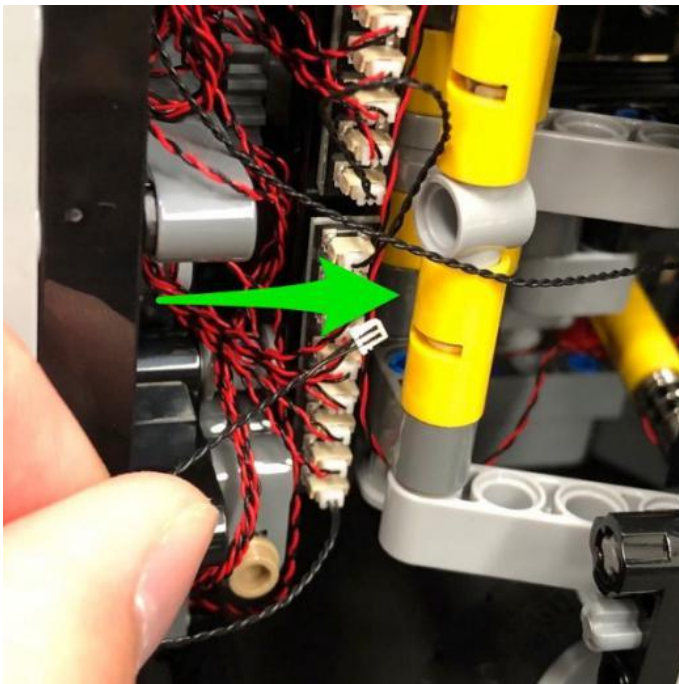
89



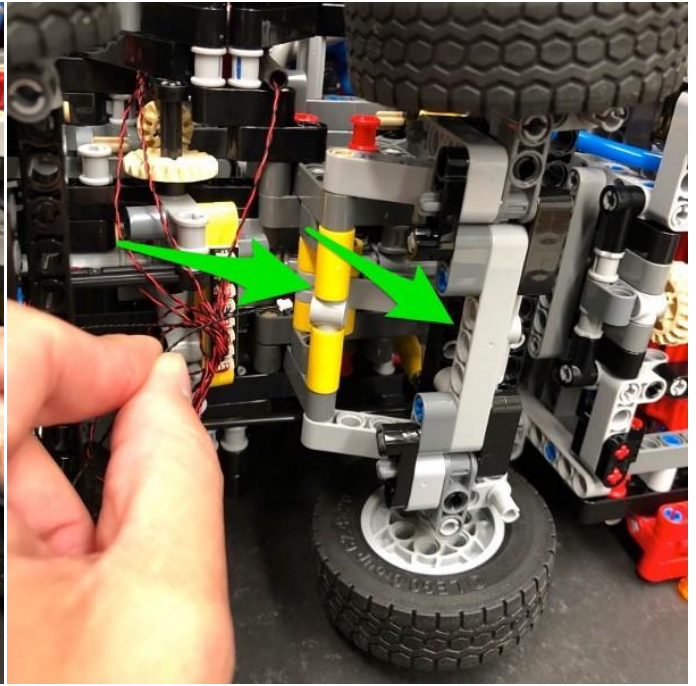
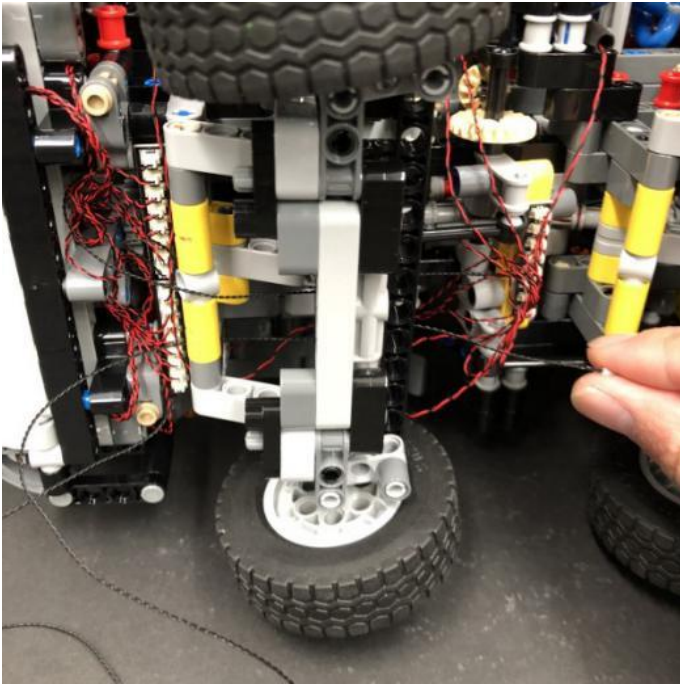
90. Take a 50cm Connecting Cable and connect it to the remaining port on the 8-port Expansion Board at the front of the truck.



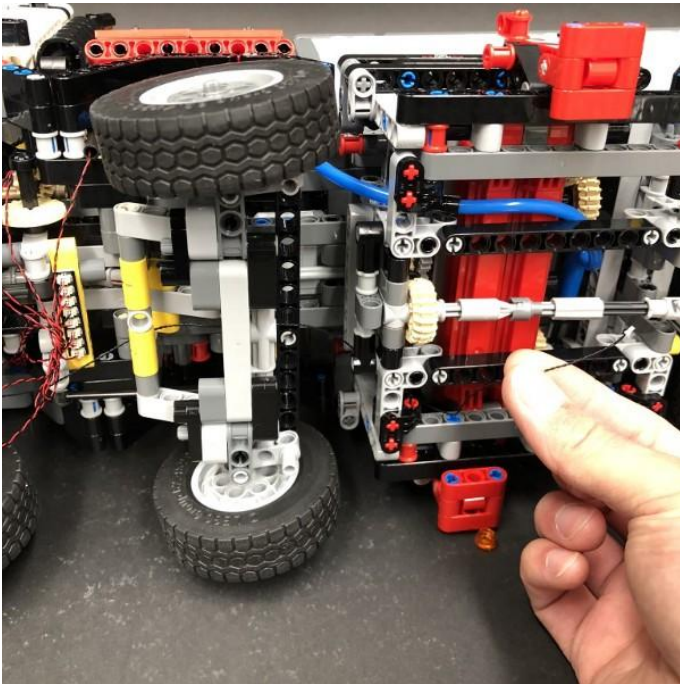
91. Follow the below images to thread the other end of the cable through towards the back underneath the truck through the following holes and gaps.



92



93



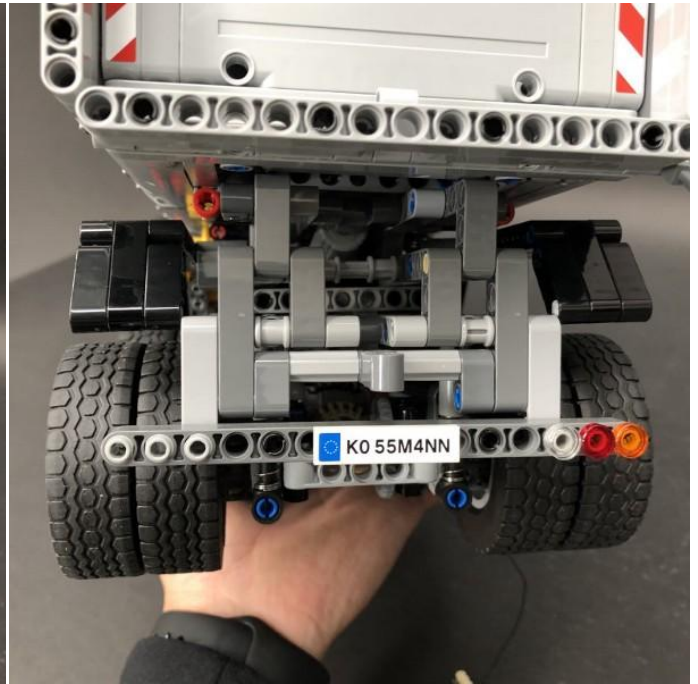
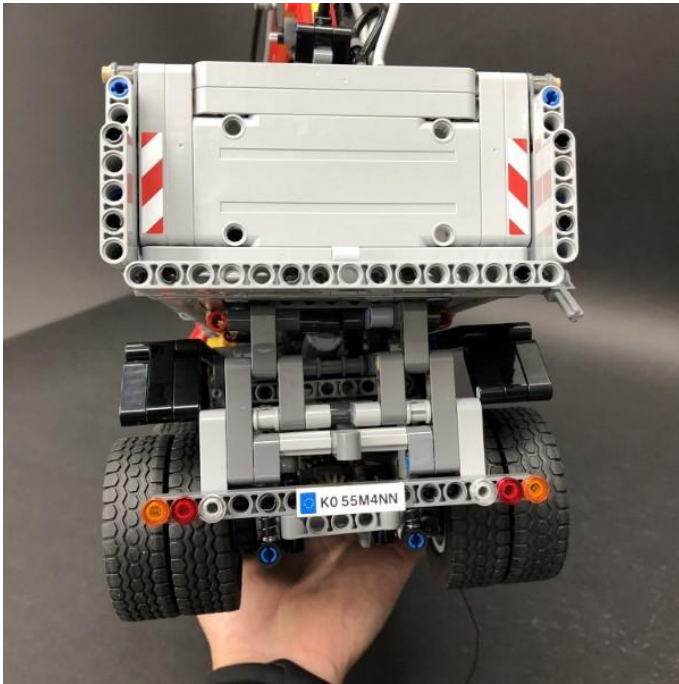
94



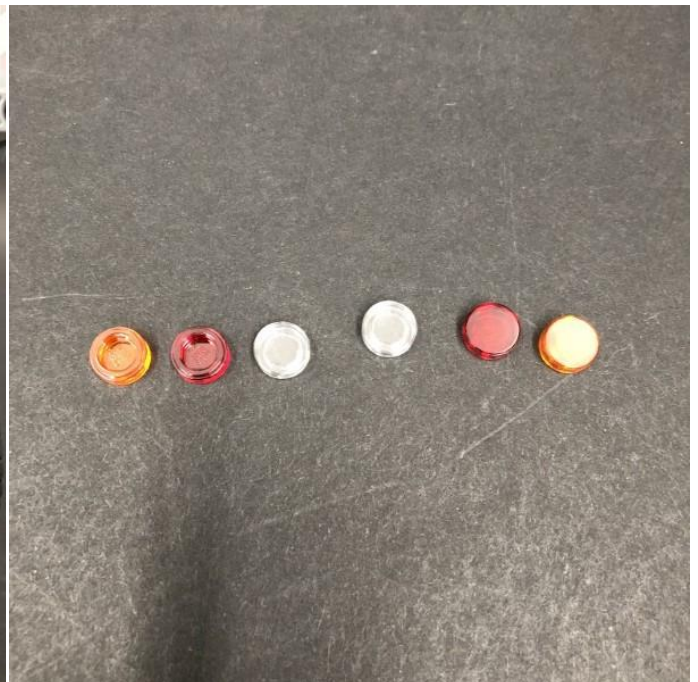
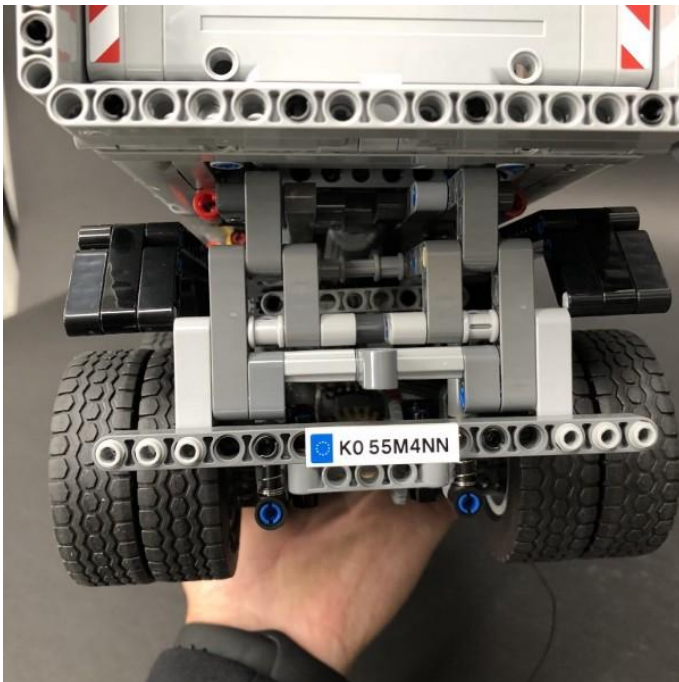
95. Connect the other end of the 50cm Connecting Cable to the first port on the remaining 8-Port Expansion Board.



96. Turn the truck over to the back and then remove the three trans coloured round tiles (orange, red, clear) from each side.



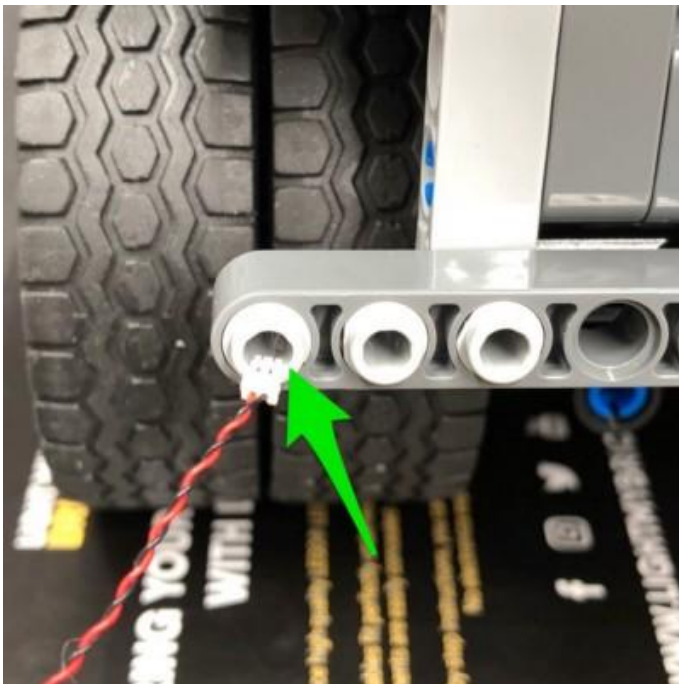
97



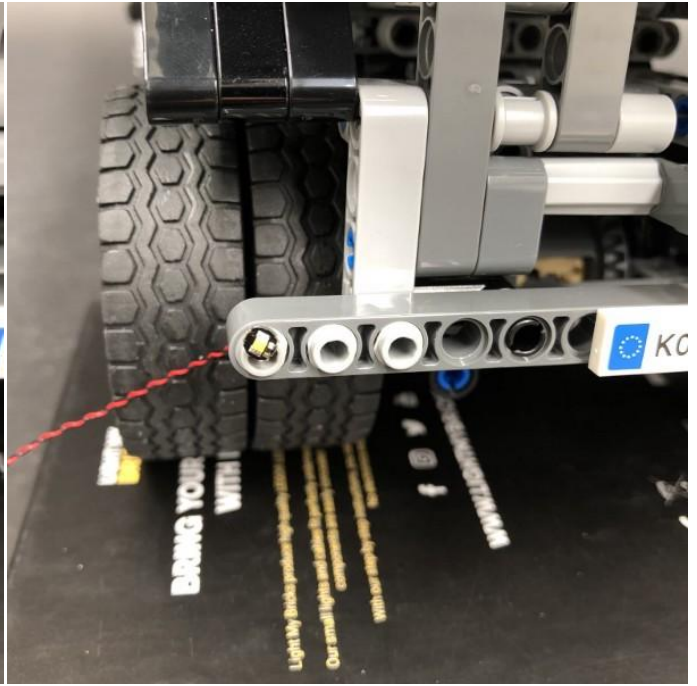
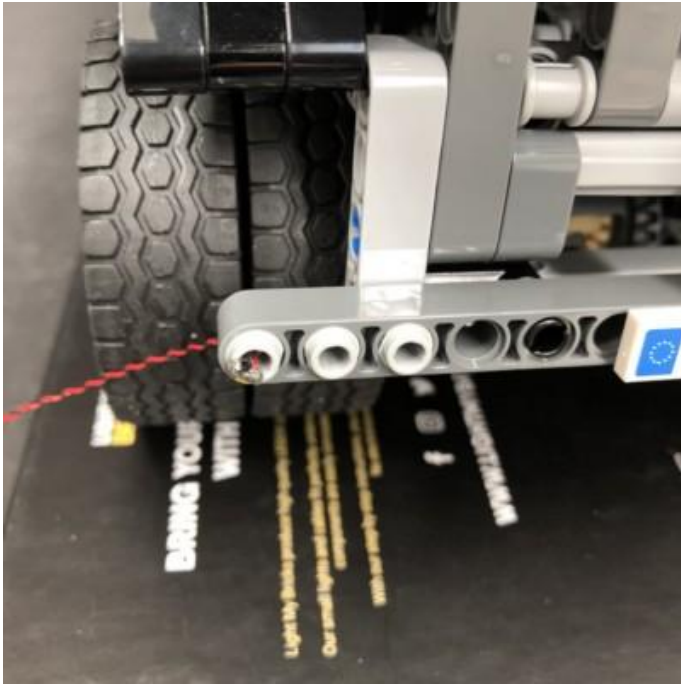
98. We will installing another 6x White 15cm Dot Lights and replacing the round tiles with the provided trans coloured plates.



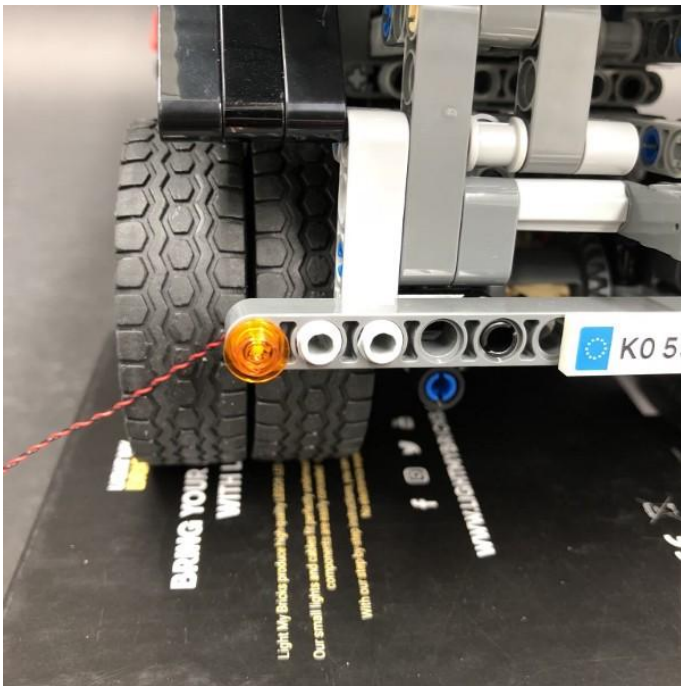
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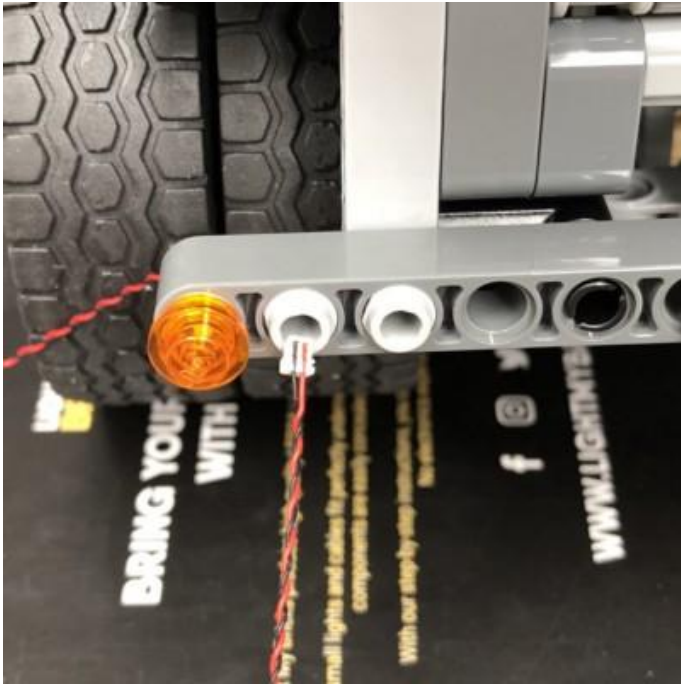
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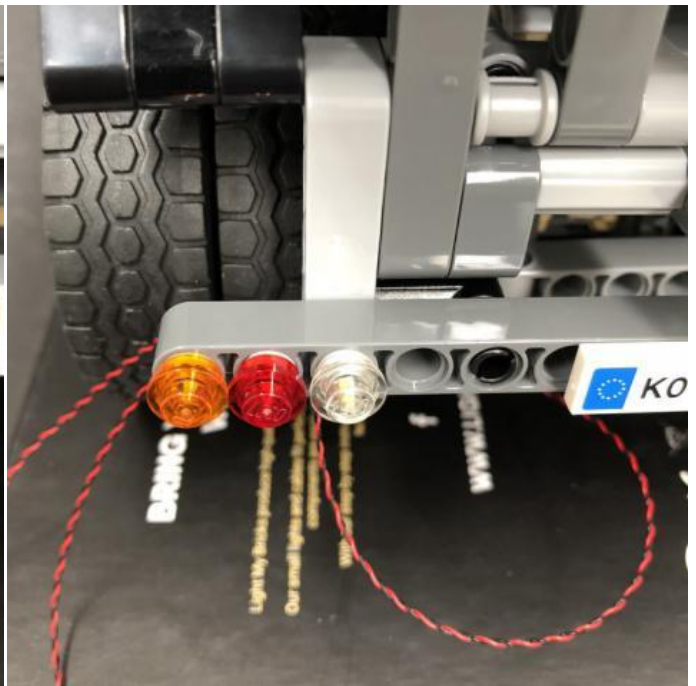
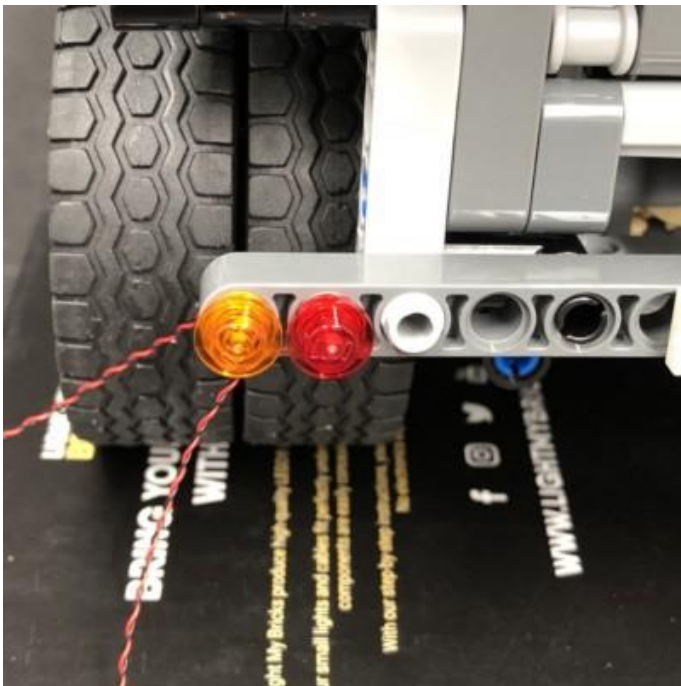
101



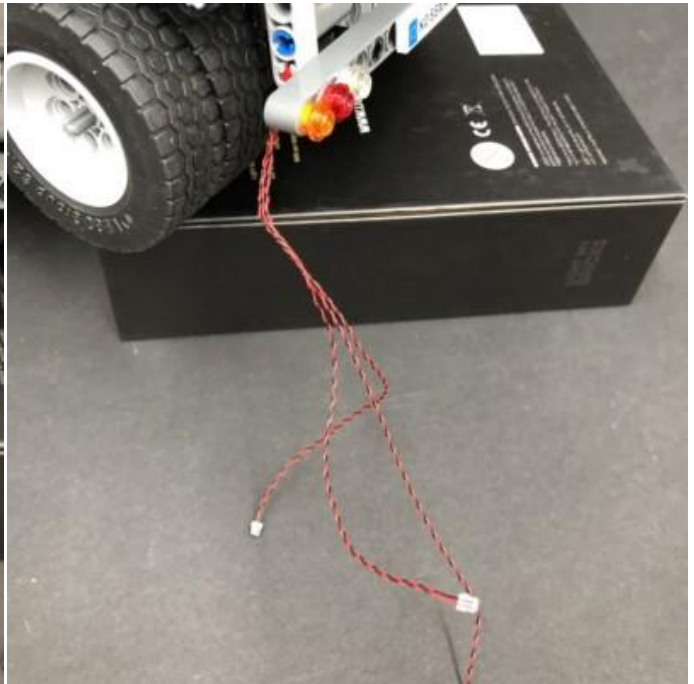
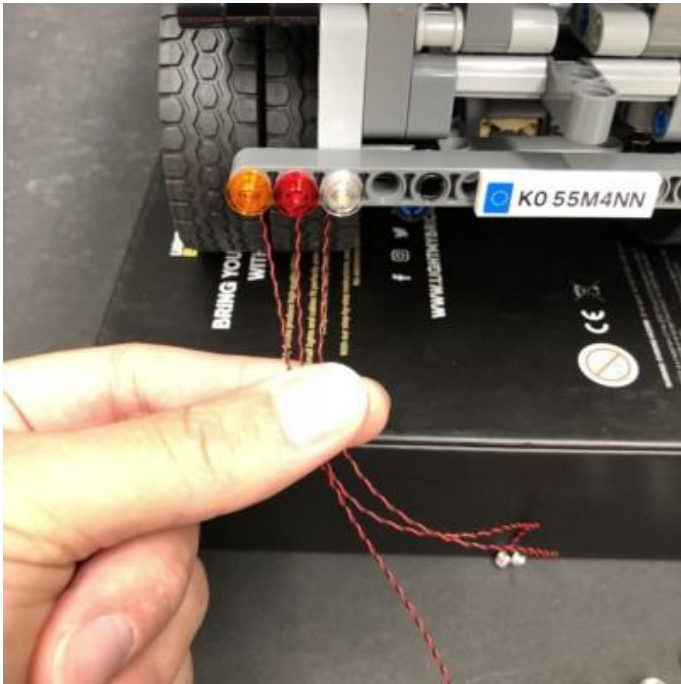
102



103



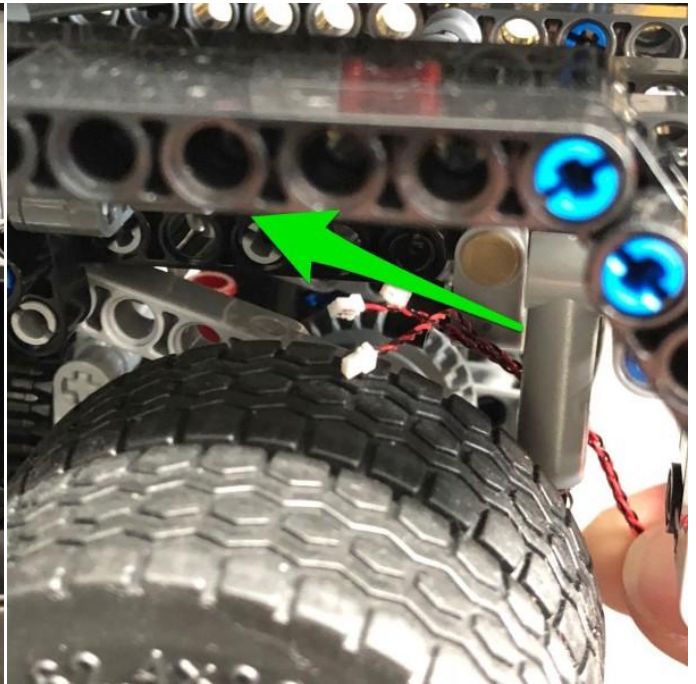
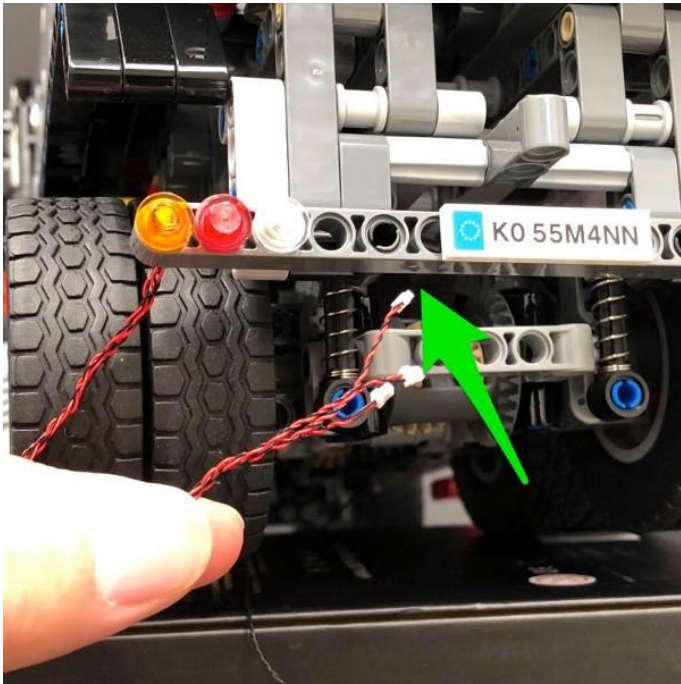
104. Take the three cables from the left side and then twist them around each other to form one large cable.



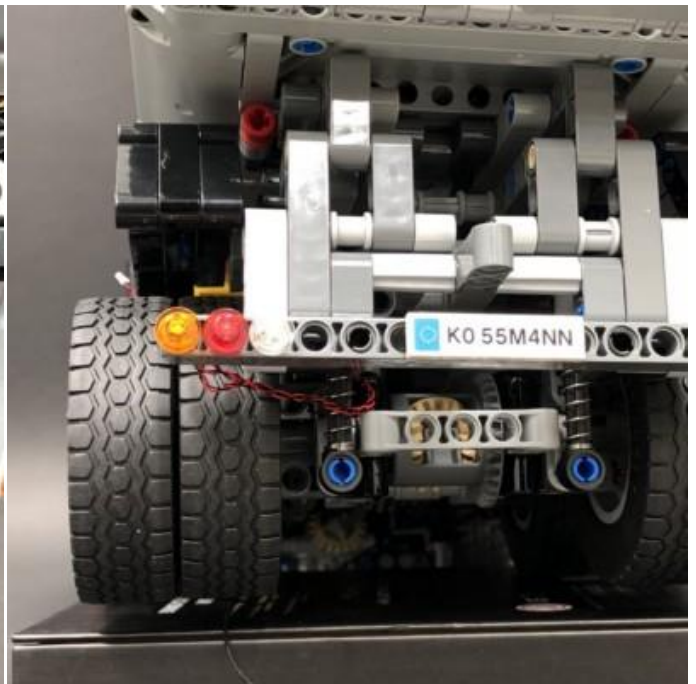
105



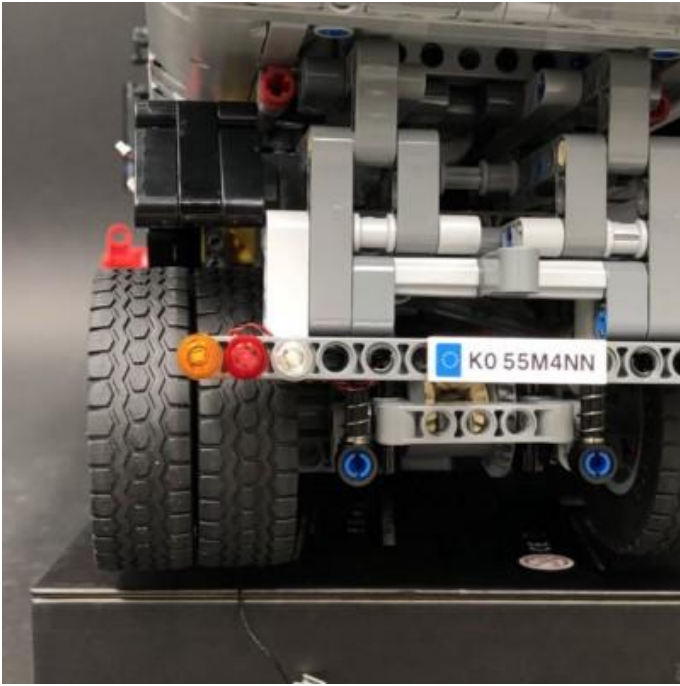
106. Thread the cable up through the following space underneath and then pull it all the way out from the back as per below.



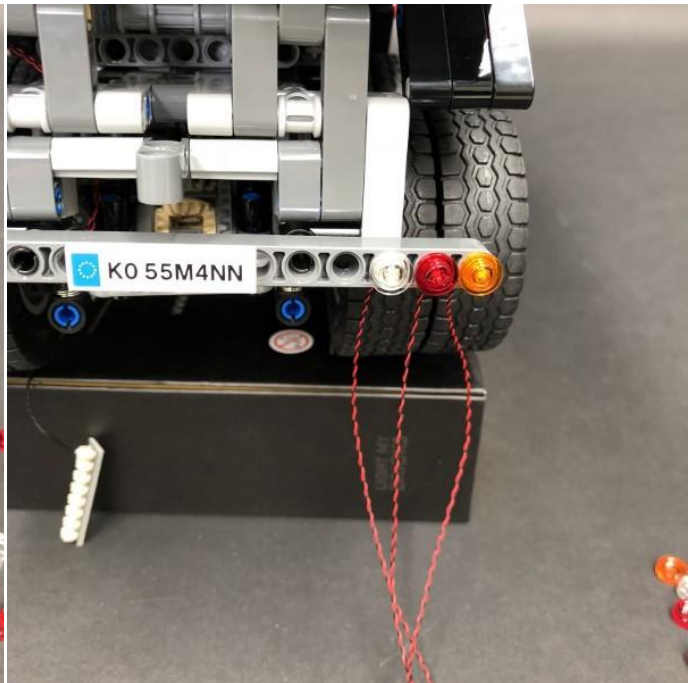
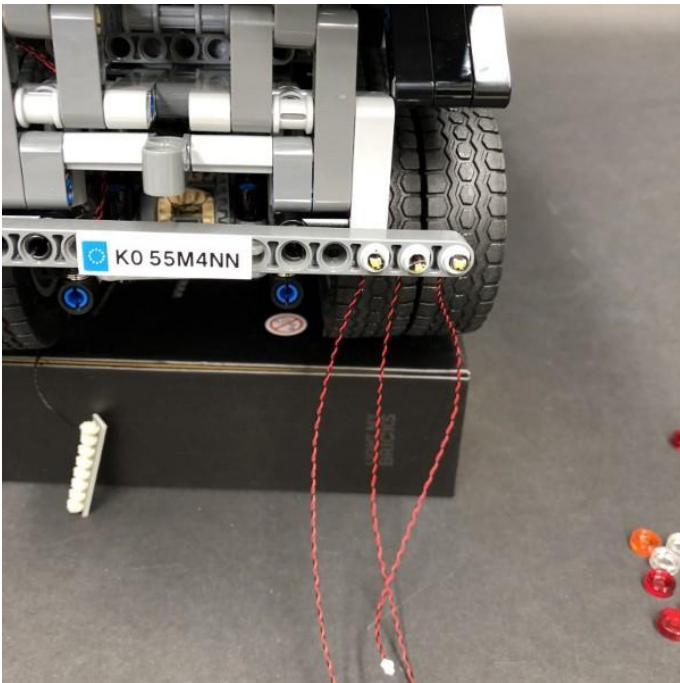
107



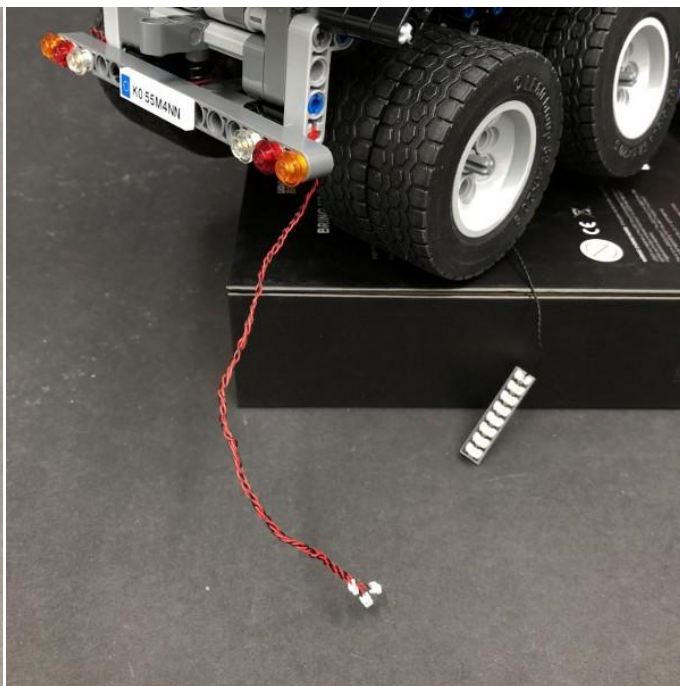
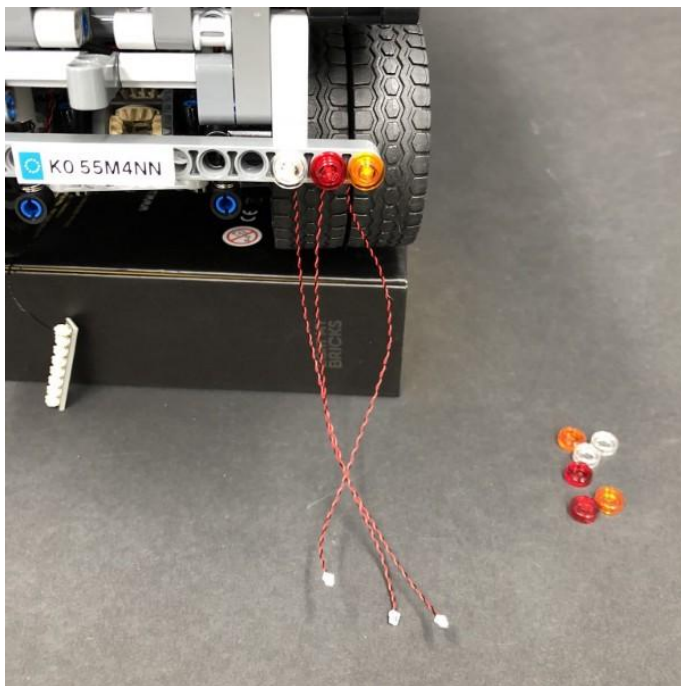
108



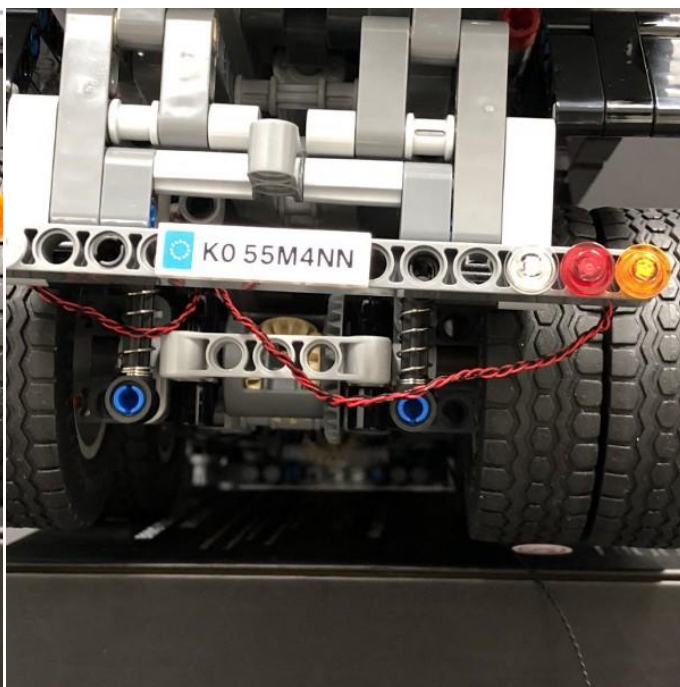
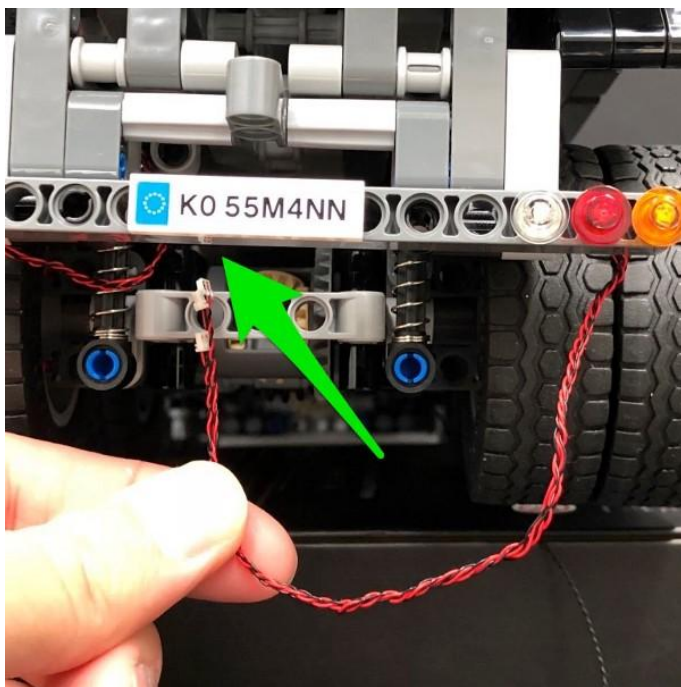
109. Repeat previous steps to install another 3x White 15cm Dot Lights to the right side of the truck using the remaining provided trans coloured round plates 1x1.



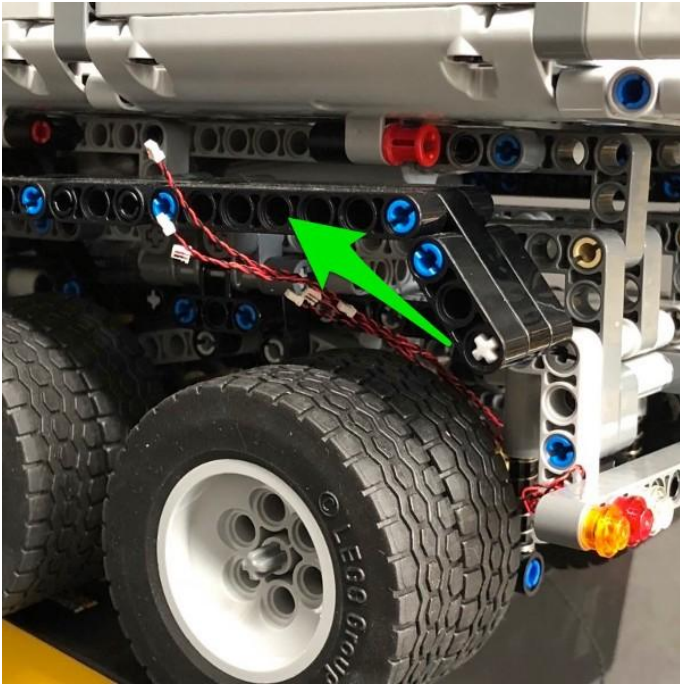
110



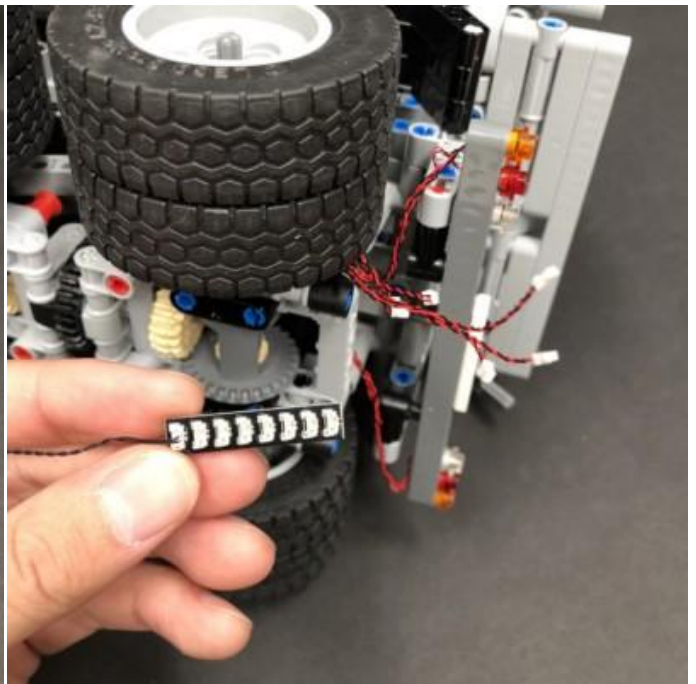
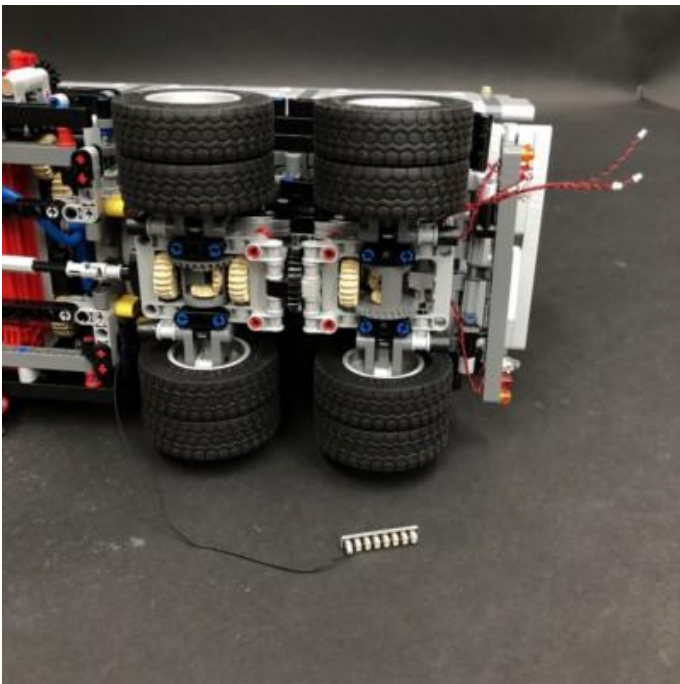
111. Thread the cable up through the following space underneath and then pull it all the way out the left side (same with the left side cable). Then bring all cables together and pull them down behind the wheel.



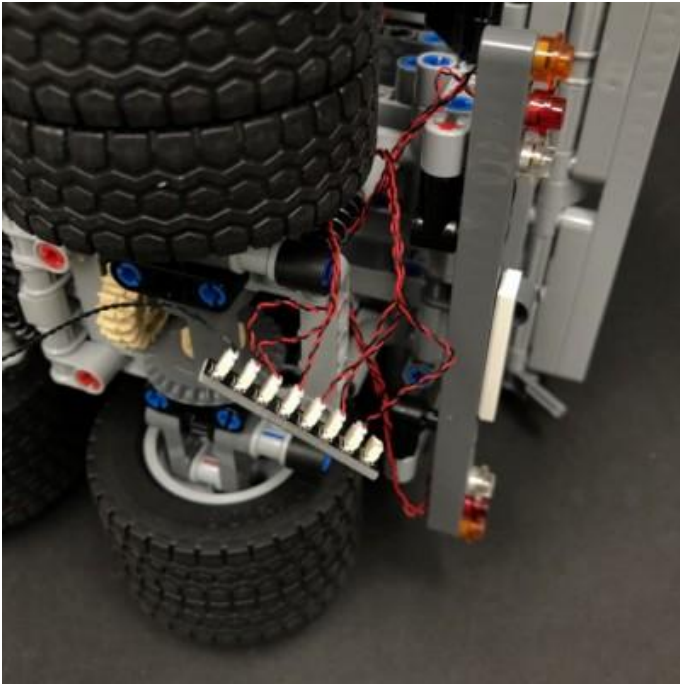
112



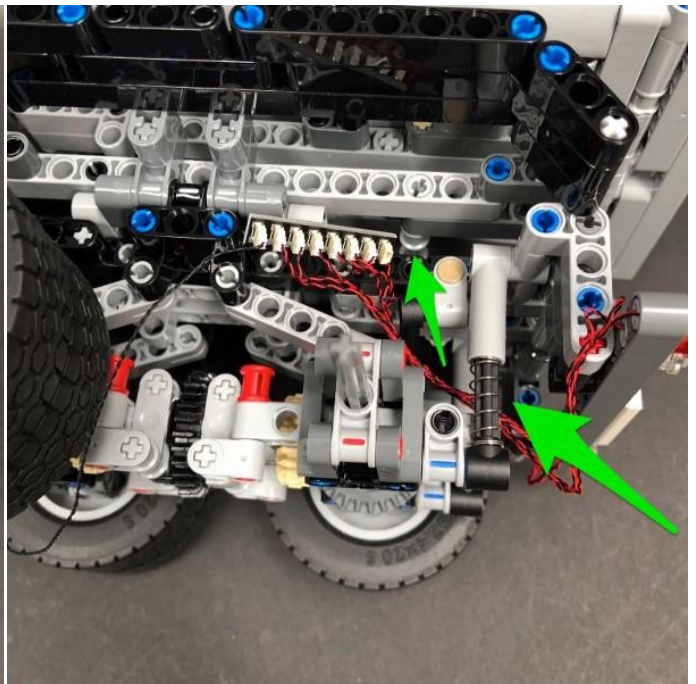
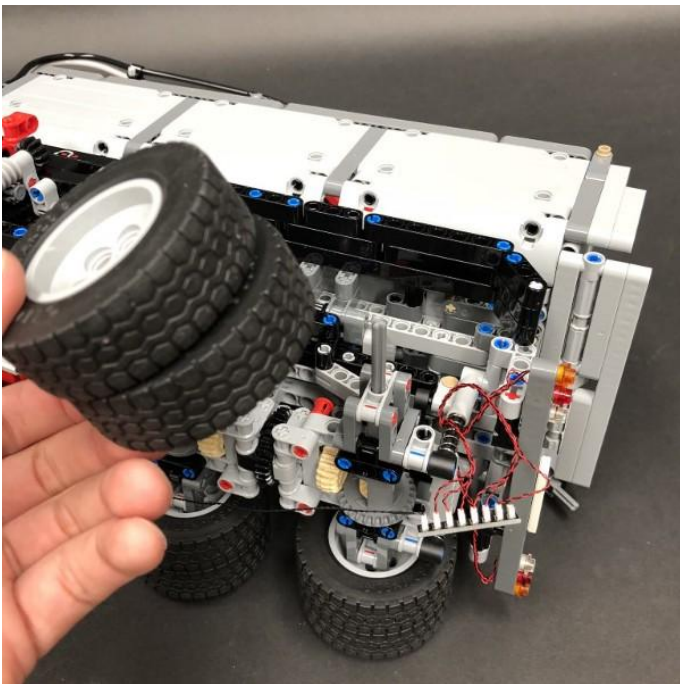
113. Turn the truck over and then connect all six lights to the 8-port Expansion Board.



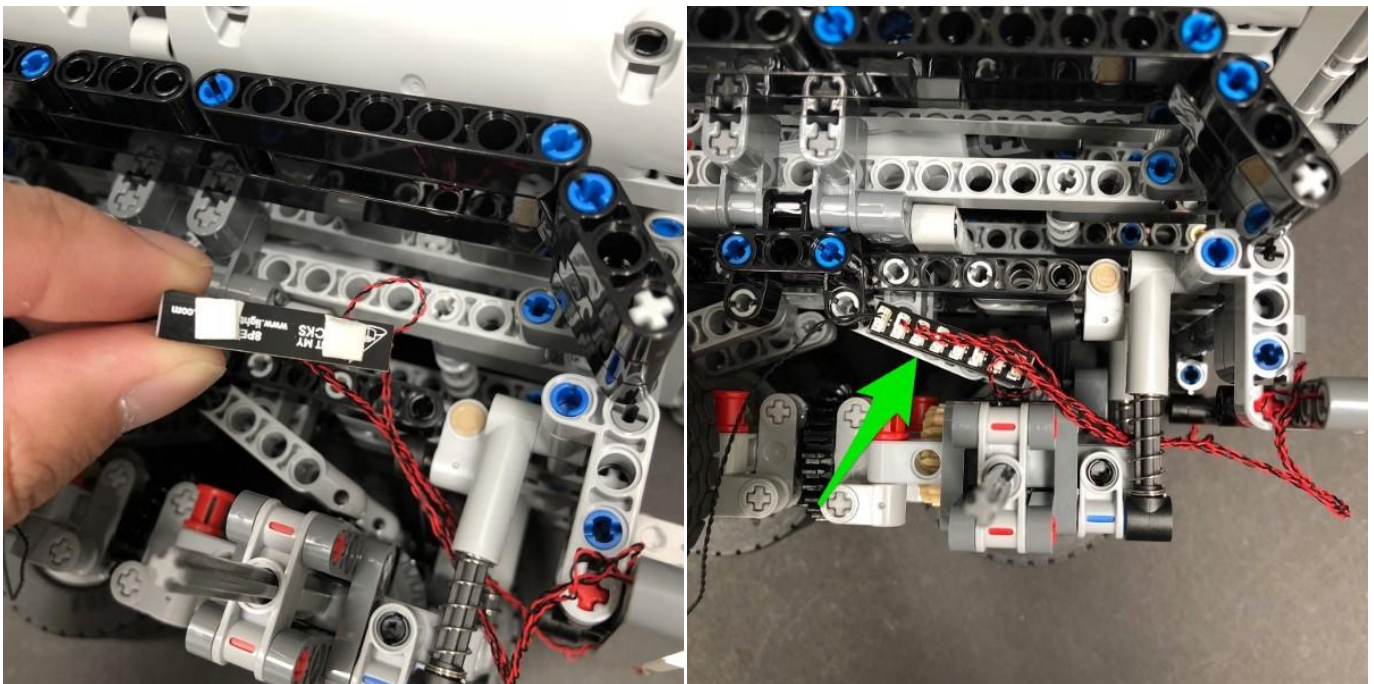
114



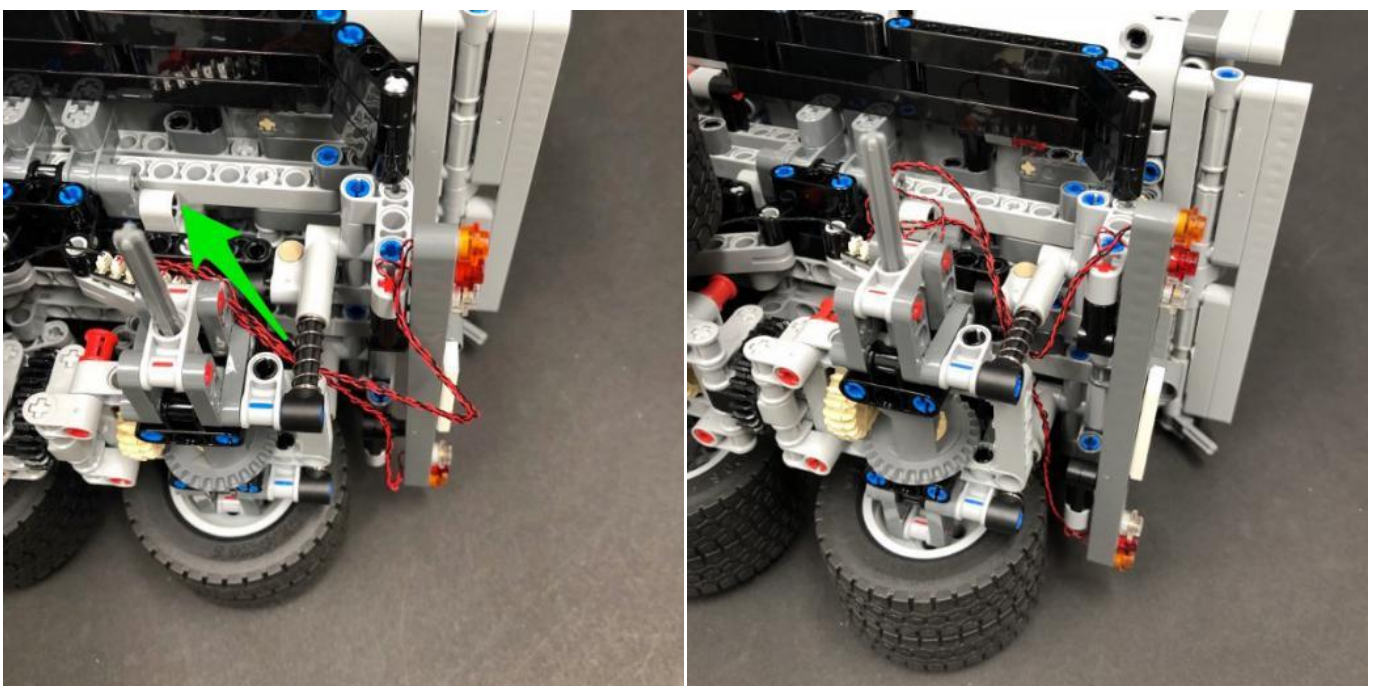
115



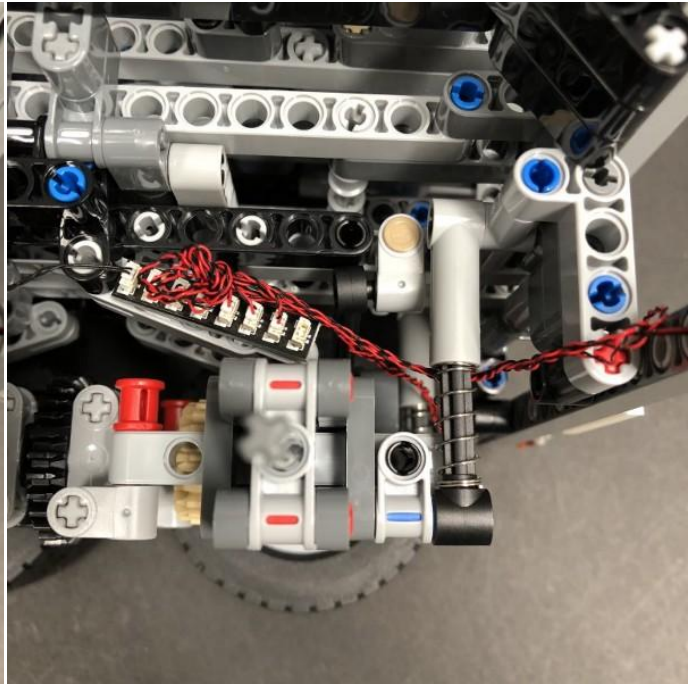
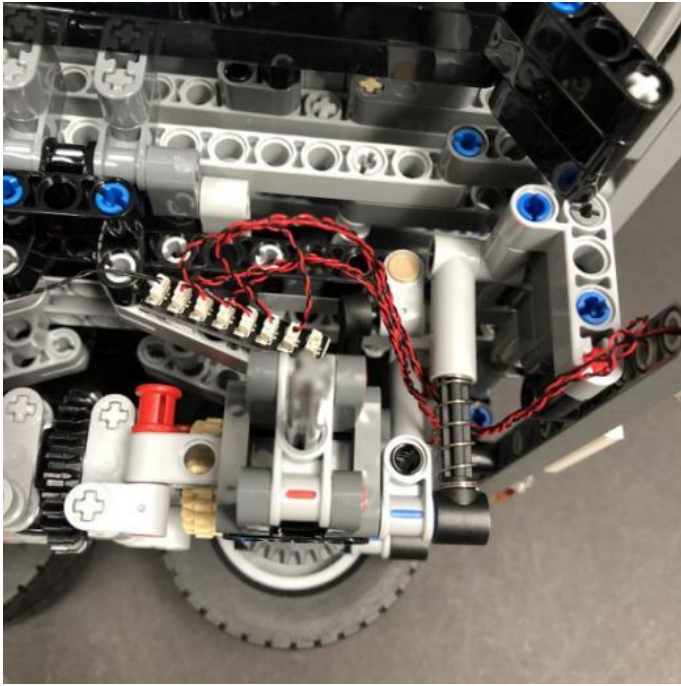
116.Mount the expansion board to the side frame in the following position using another 2x Adhesive Squares.



117.Pull the excess cable from the two sides back and then twist them around each other to secure them from dangling down and being seen from the back of the truck. Tuck them in close the expansion board.



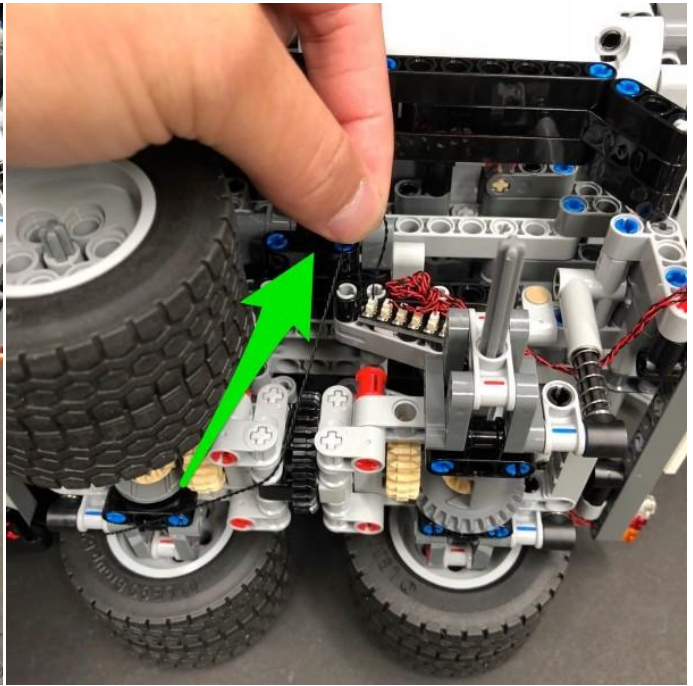
118



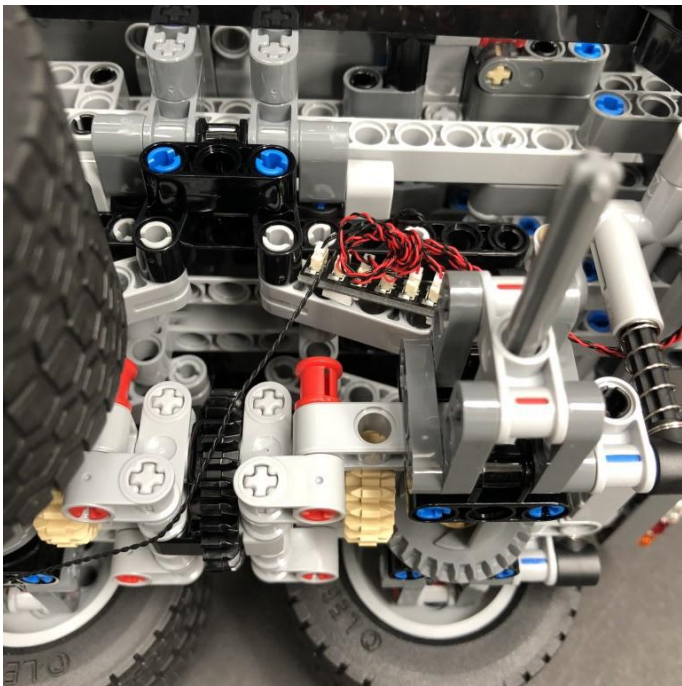
119



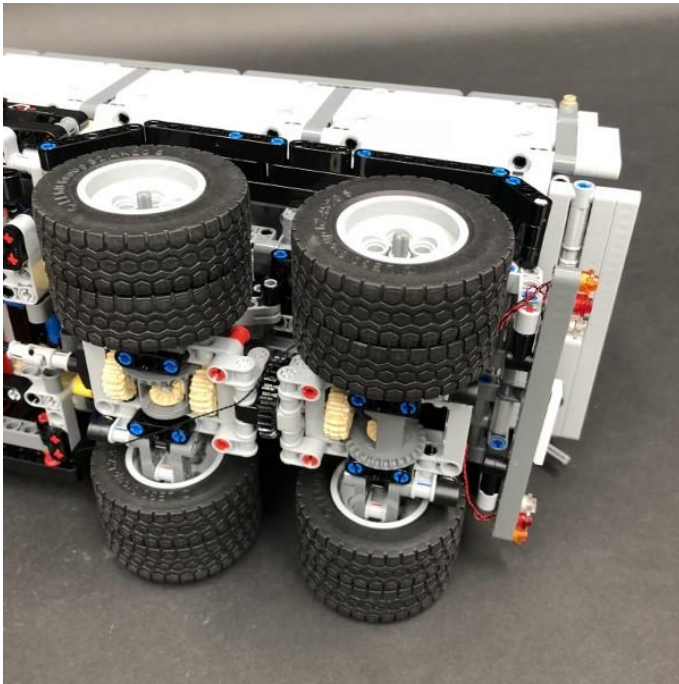
120. Eliminate excess cable from the 50cm connecting cable by pulling it back towards the back expansion board and then twisting any remaining cable around the the six Dot Light cables as per below.



121



122.Reconnect the back wheel and then turn ON the power pack to confirm the back lights are working OK.



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

