

Mercedes-Benz_Arocs_42043LED Lighting Kit

Package contents:

- 18x White 15cm Dot Lights
- 2x Flashing White 15cm Dot Lights
- 2x White 30cm Dot Lights
- 2x Rotating 30cm Dot Lights
- 4x 8-Port Expansion Boards
- 1x 5cm Connecting Cables
- 1x 15cm Connecting Cables
- 1x 50cm Connecting Cable
- 8x Adhesive Squares
- 1x Power Functions Cable

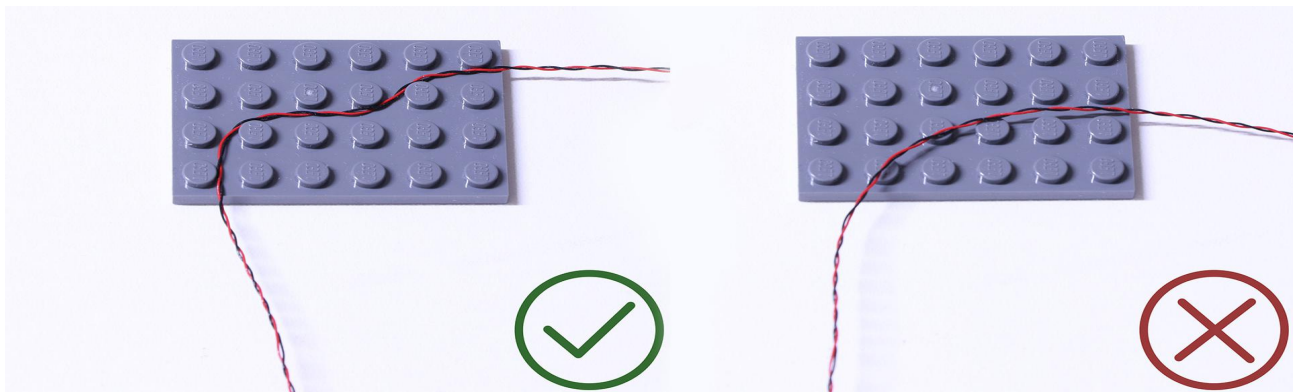
LEGO Pieces:

- 6x Trans Clear Round Plate 1x1
- 4x Trans Orange Round Plate 1x1
- 2x Trans Red Round Plate 1x1

Note:

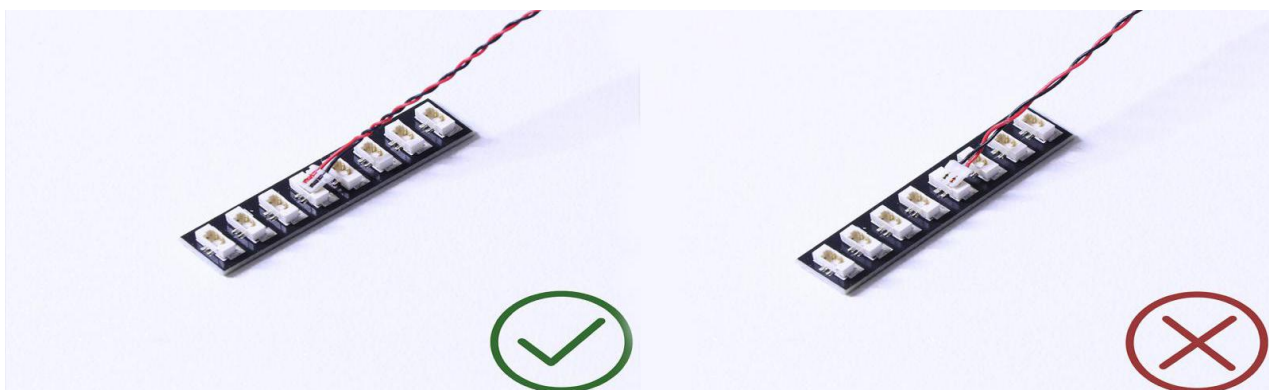
Place wires on the surface or under the LEGO building blocks.

The wire can be place between the building blocks or under the block, but they should be placed between the studs correctly.

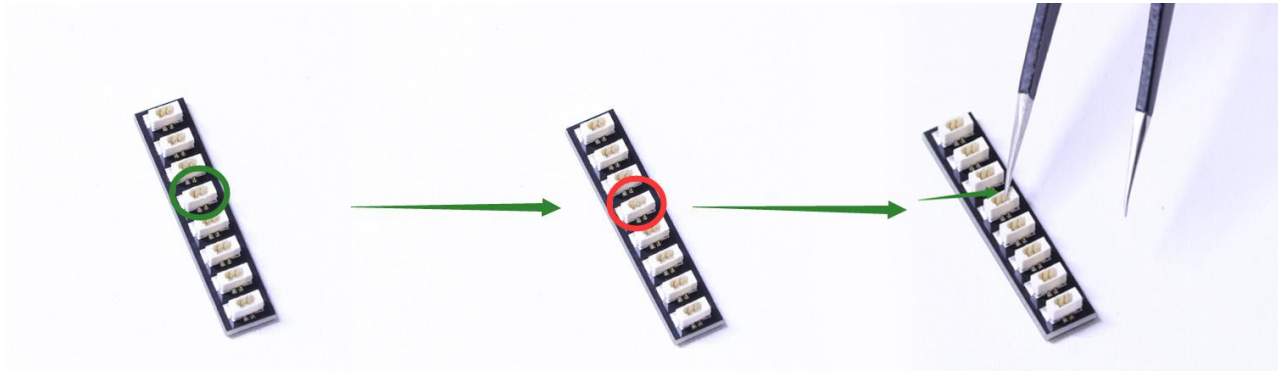


Insert the connectors to the ports.

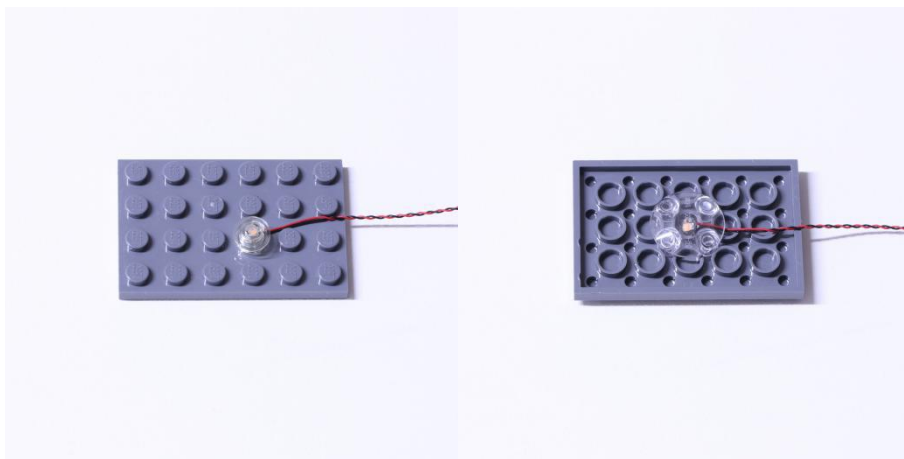
Be careful when you are operating, there's only one correct way to insert, make sure the expansion board is upward, find the soldered "=" sign on the left of the port. When you are inserting, the side which the wires can be seen should be faced to the "=" sign and if you feel hard to insert, please stop, and don't force it, for that may result in bent pins inside the port or overheating of the expansion board.



At this point, use the tweezers to straighten the bent pins.

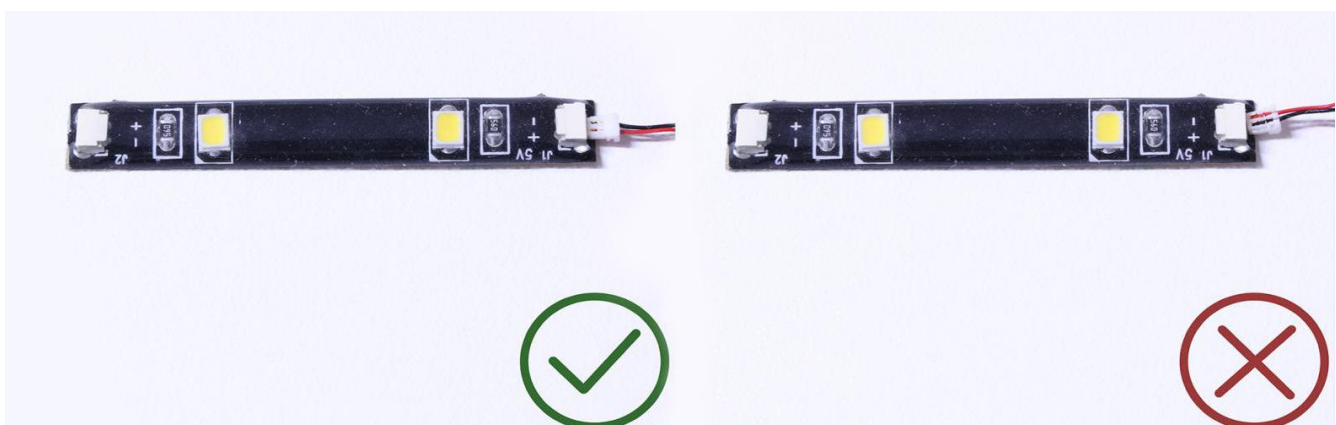


When installing dot lights, make sure they are correctly placed (Yellow LED package is exposed). You can put them either on the top of the studs or between studs.

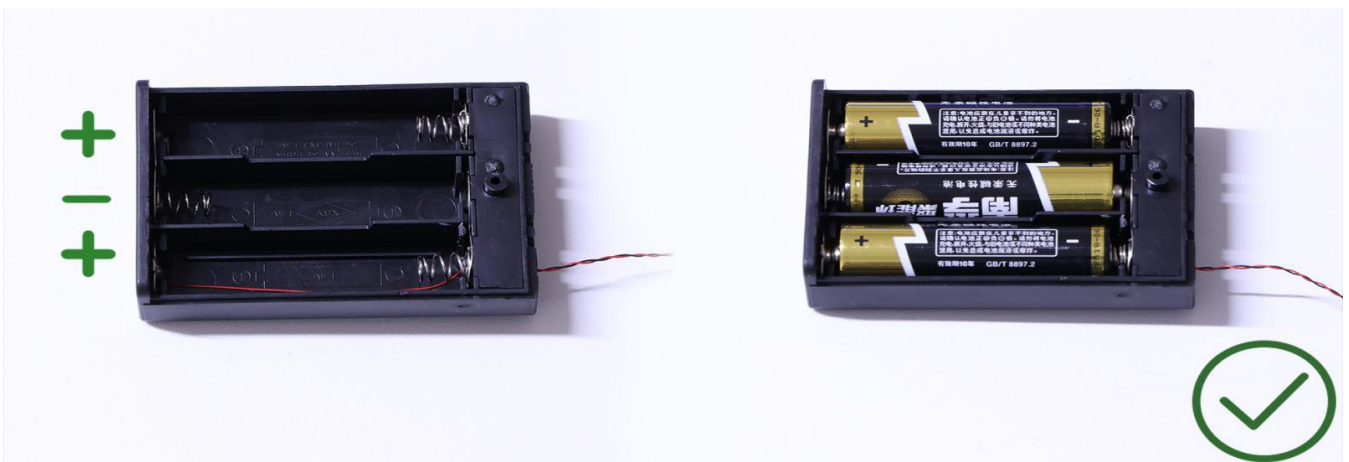


Connecting cable connectors to Strip Lights

Take extra care when inserting connectors to ports on the Strip Lights. Connectors can be inserted only one way. With the Strip Light facing up, ensure the side of the connector with the wires exposed is facing down. If a plug won't fit easily into a port connector, don't force it. Doing so will damage the plug and the connector.



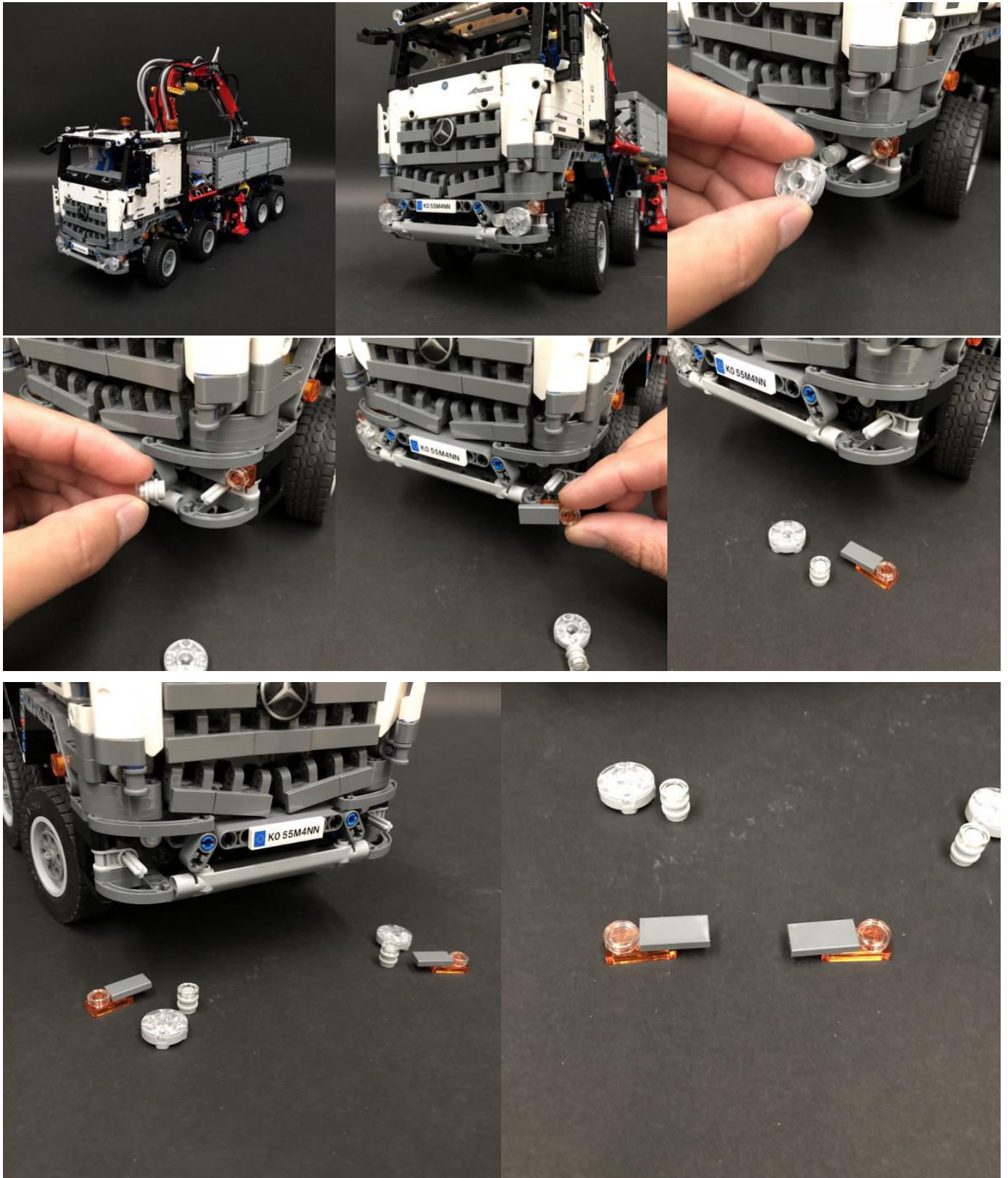
Finally, please pay attention to the positive and negative terminals of the battery when installing the battery case.



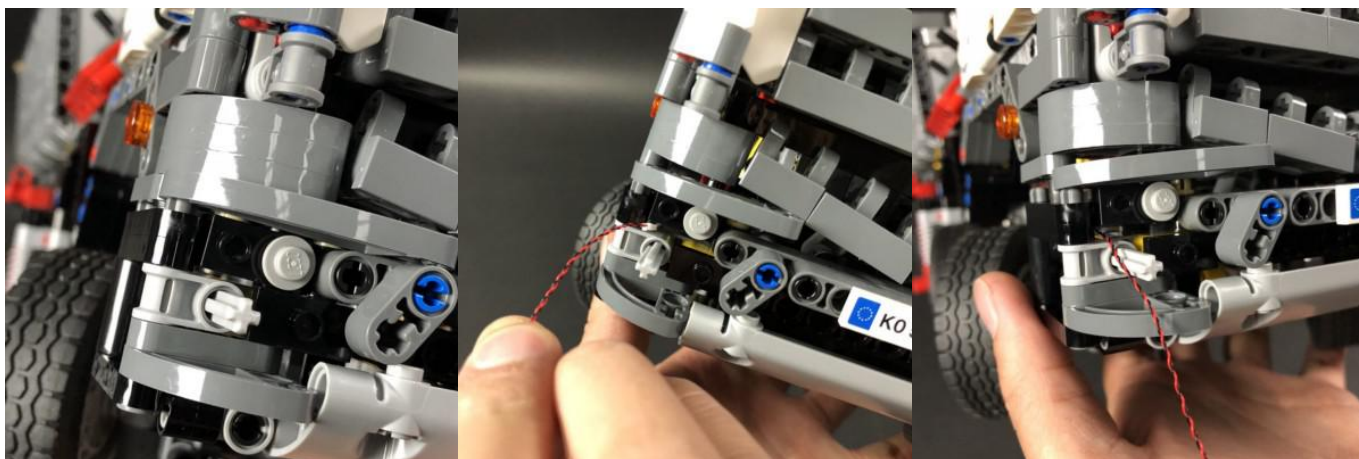
OK, Let's Begin!

Instructions for installing this kit

1.) Start by disconnecting the head light pieces as well as surrounding pieces as per below.



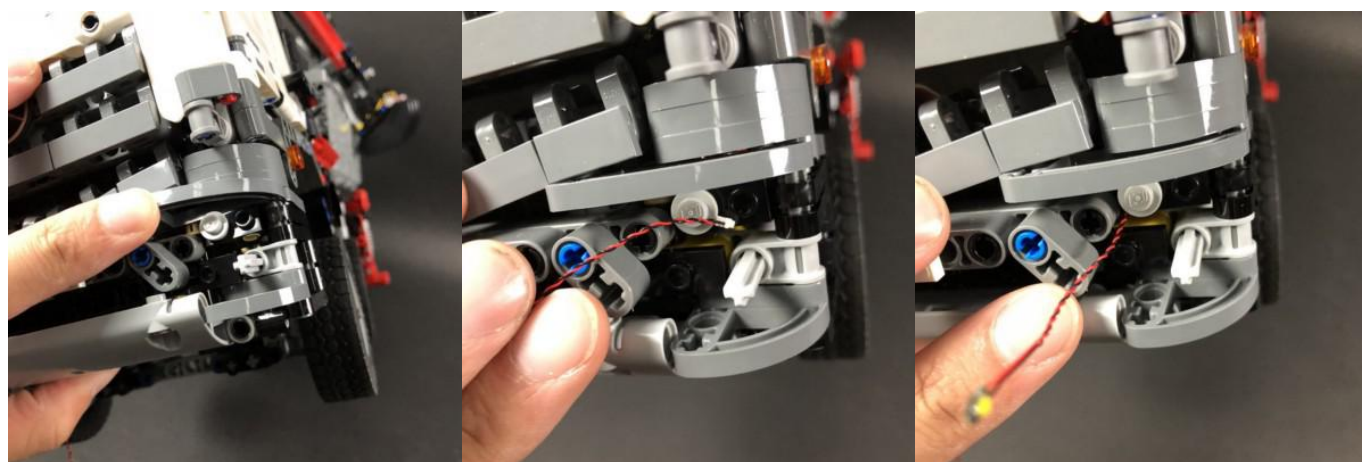
2.) Starting with the left side of the truck, carefully split the section as per below by creating a gap in between sections, then take a **White 15cm Dot Light** and thread the connector side of the cable through the gap we have created.

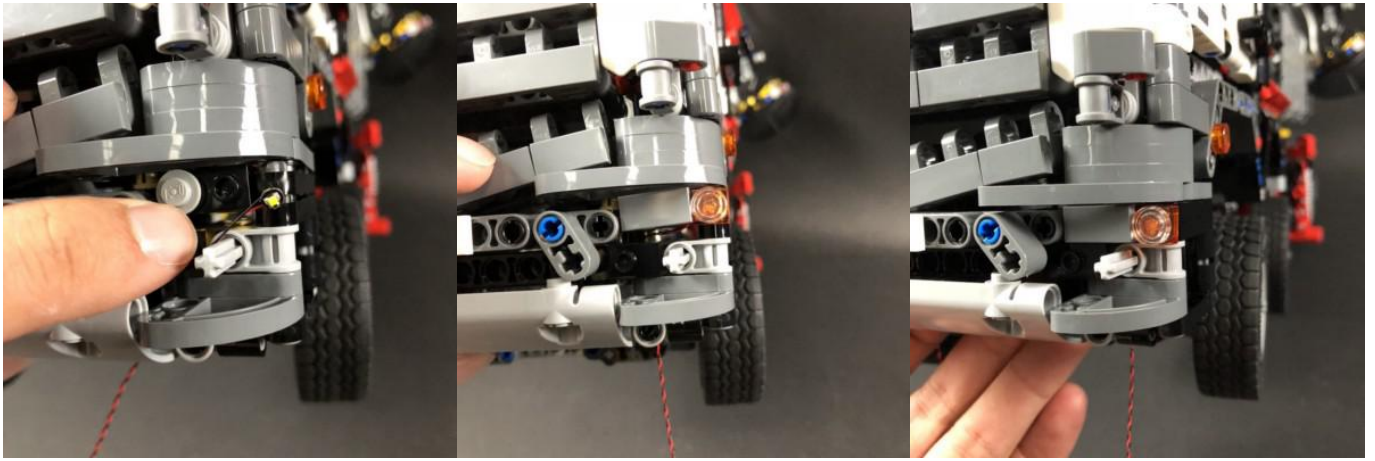


Thread the cable all the way through until the LED component is up against the edge on the left of the black stud. Reconnect the following LEGO section ensuring the Dot Light is right up against Trans Orange Plate, then reconnect sections to close up the gap and secure the light in place.

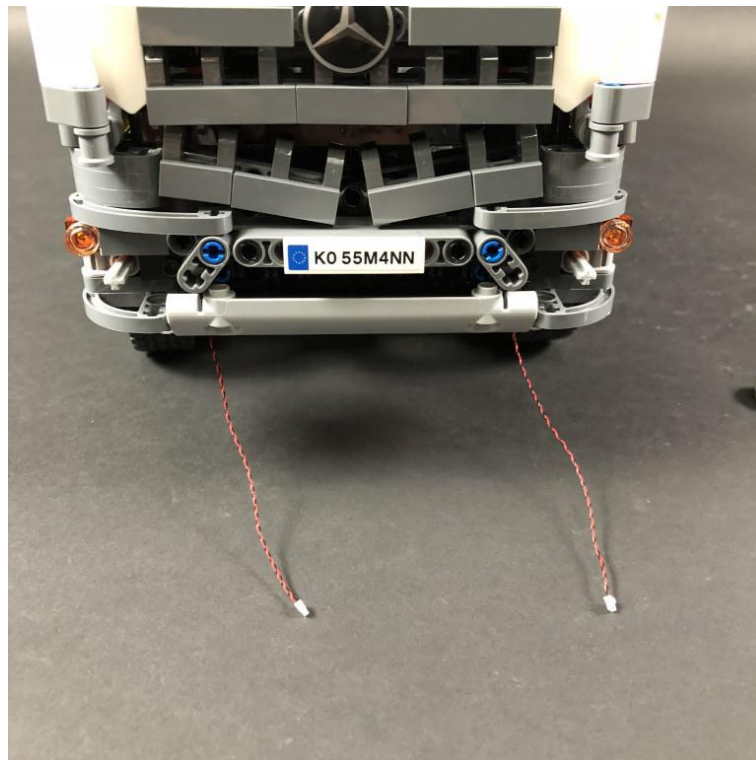


3.) Repeat previous step to install another **White 15cm Dot Light** to the right side

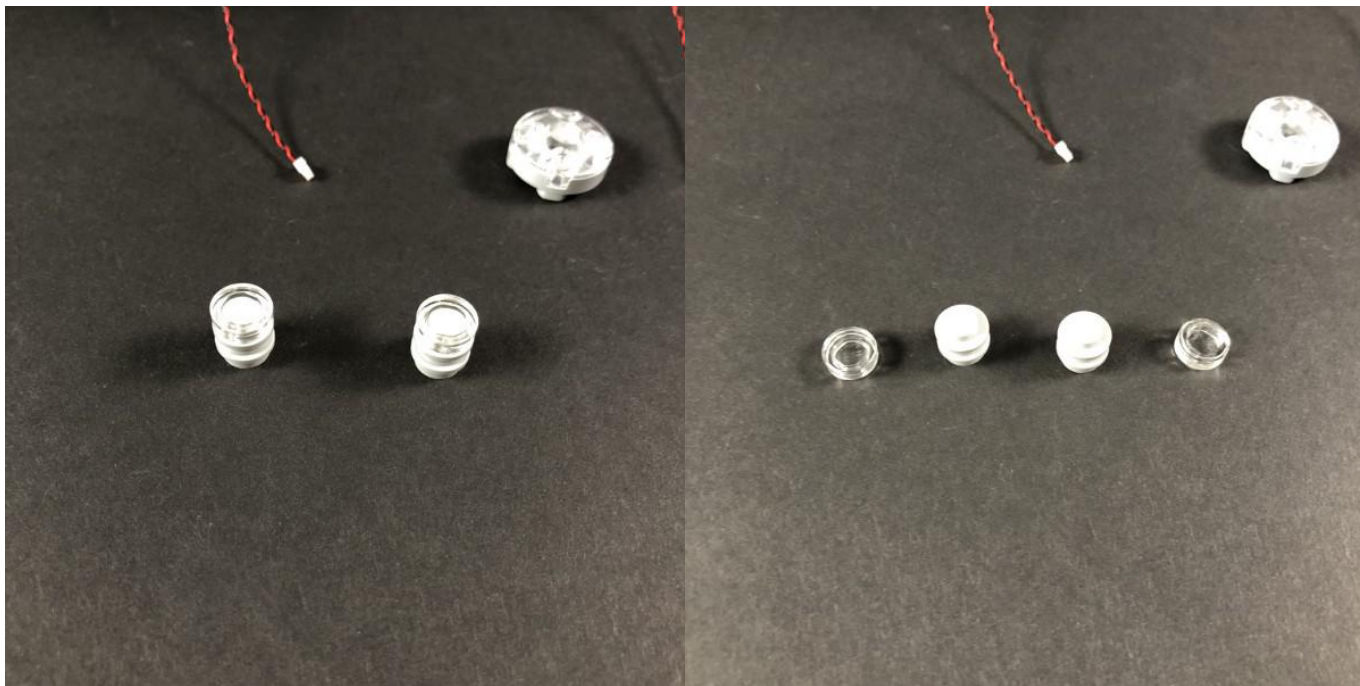




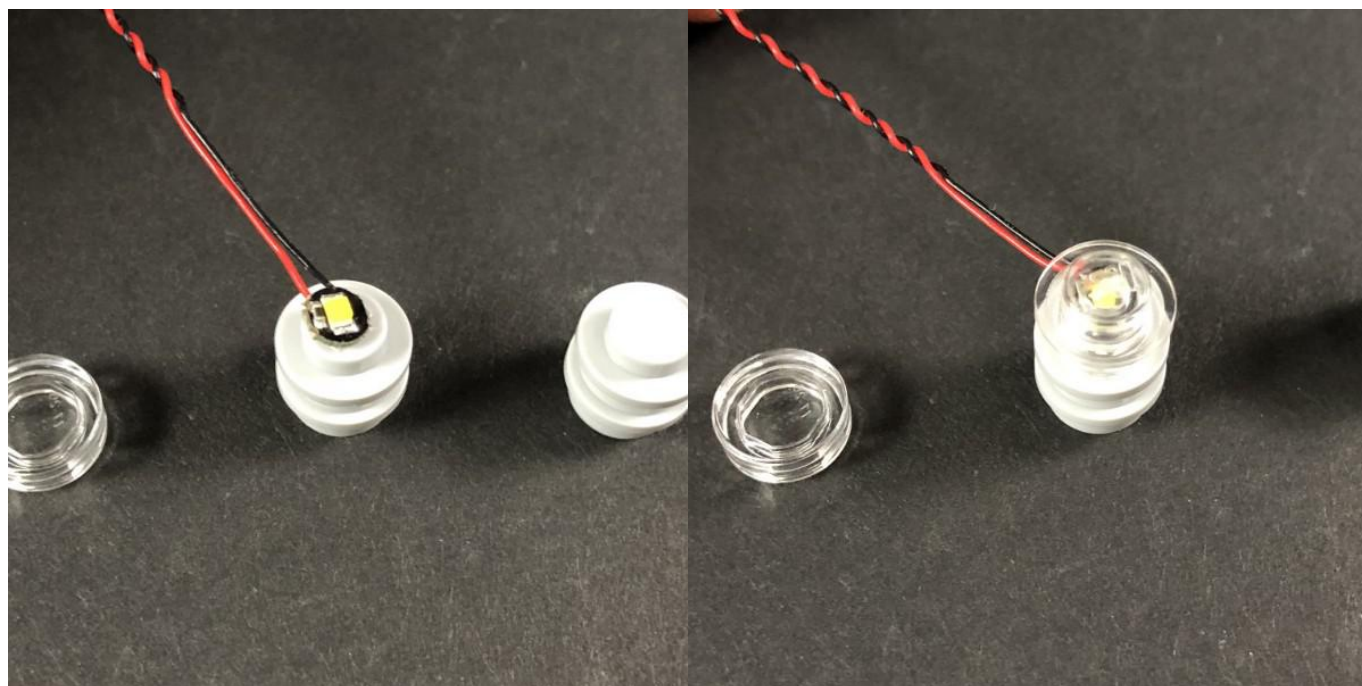
Pull both cables out from underneath



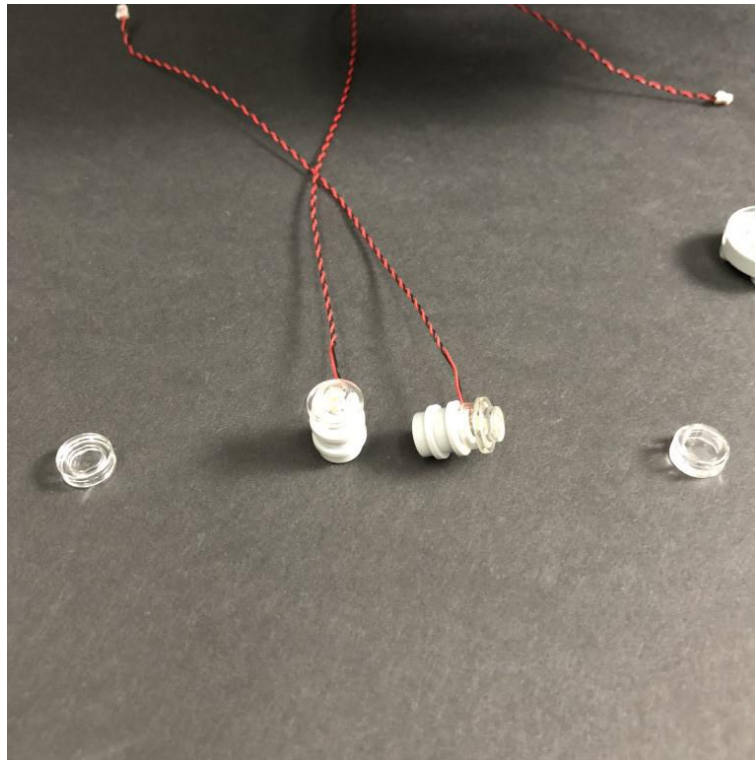
4.) Take the following two pieces and remove the trans clear tiles from each side.



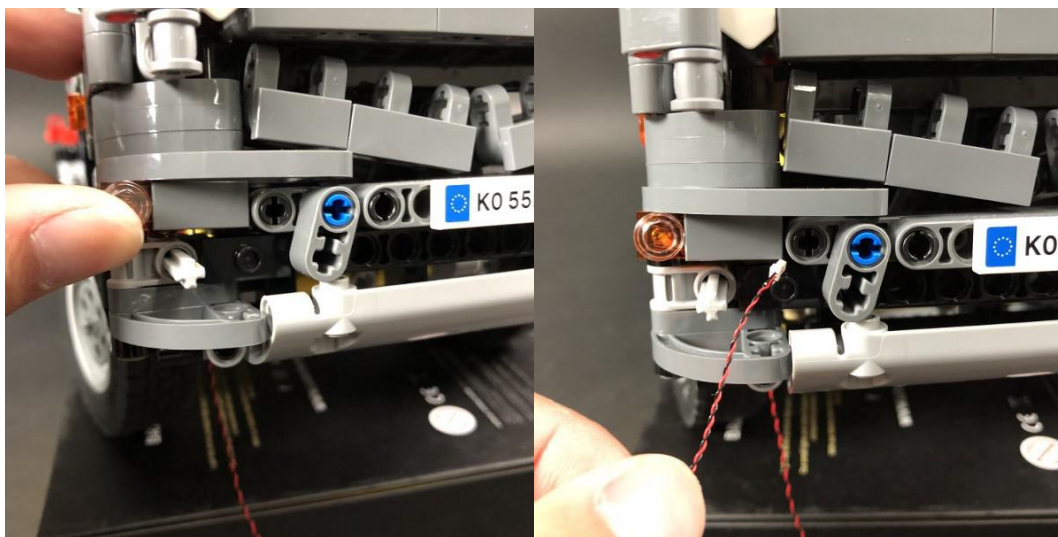
Take a **White 15cm Dot Light** and place it over one of the pieces over the light grey stud. Secure the Dot Light in place by connecting a provided **Trans Clear Round Plate 1x1**.

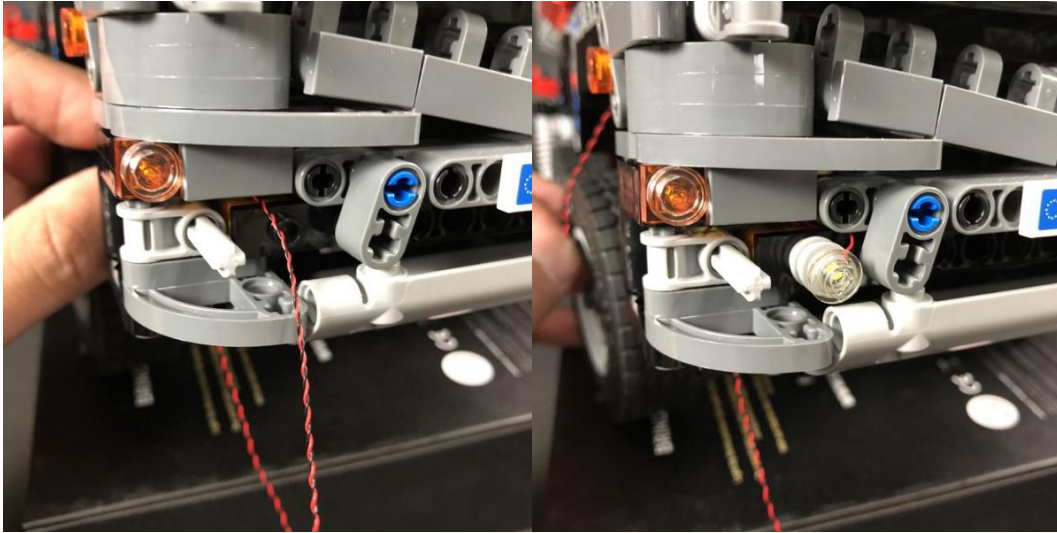


Repeat this process to install another **White 15cm Dot Light** to the other piece using another provided **Trans Clear Round Plate 1x1**

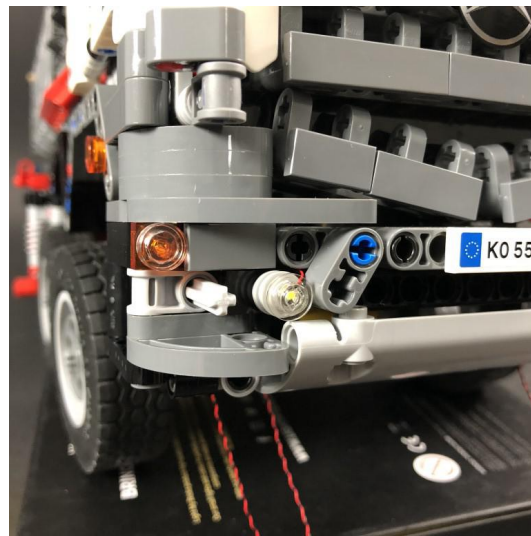


4.) Take one of the pieces and then recreate the same gap we created in step 2 to allow us to thread the cable through the left side of the truck. Thread it all the way through and then reconnect this section over the black stud as per below:

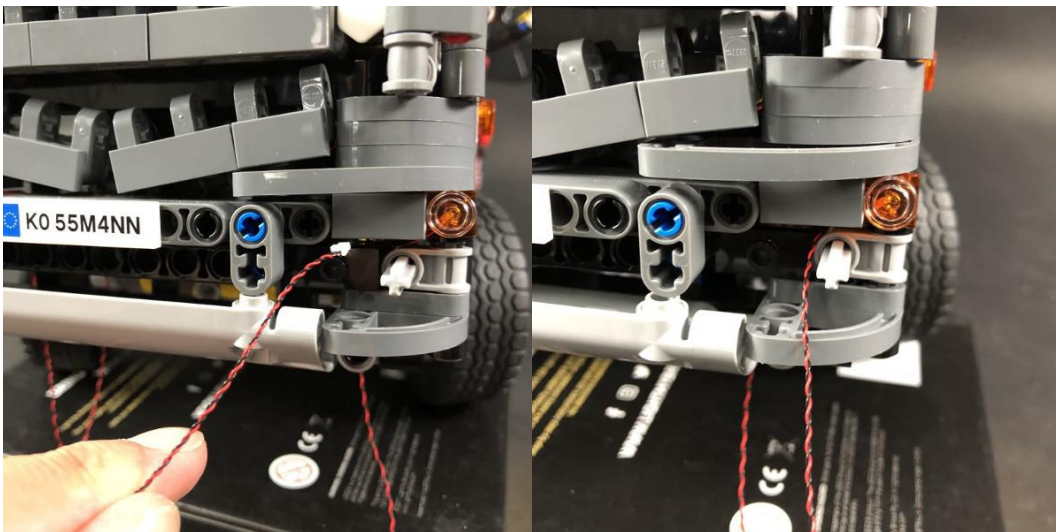


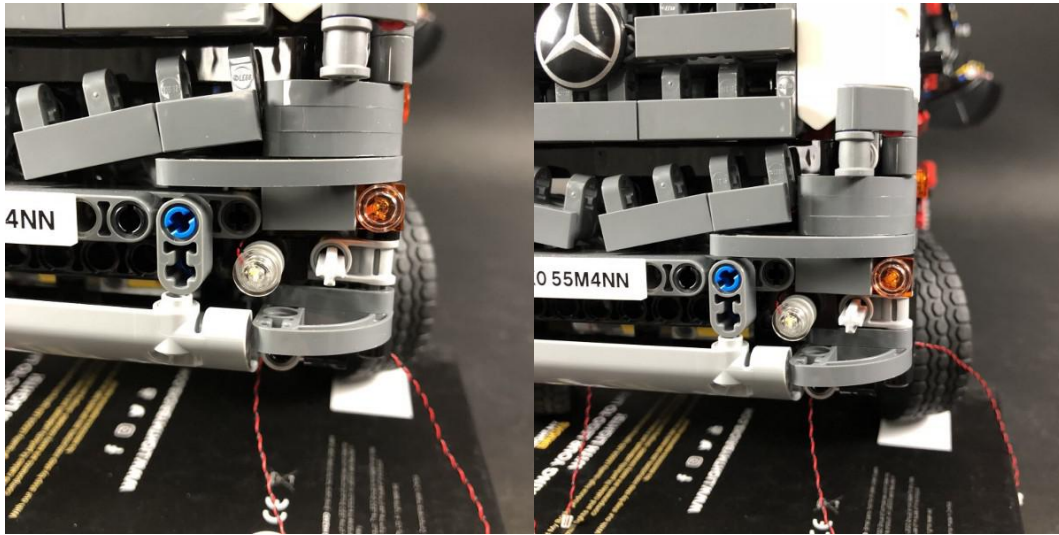


Close up the gap.



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

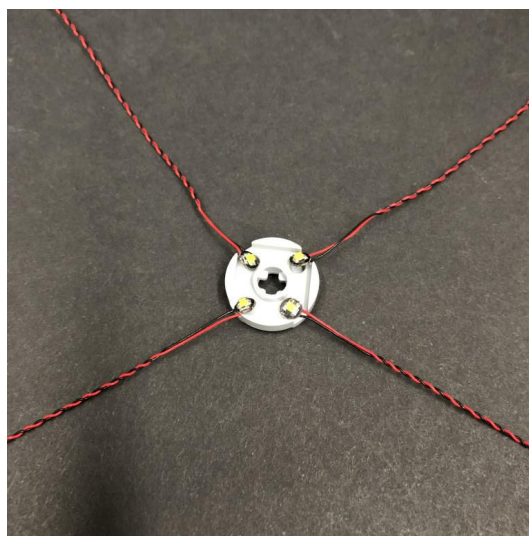




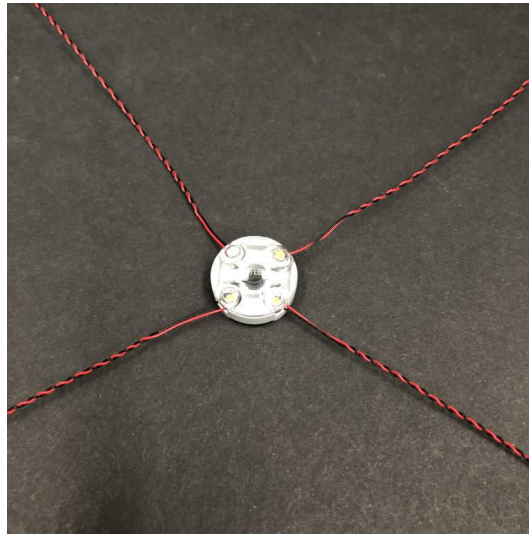
6.) Take the two headlight pieces and then disconnect the trans clear 2x2 plates.



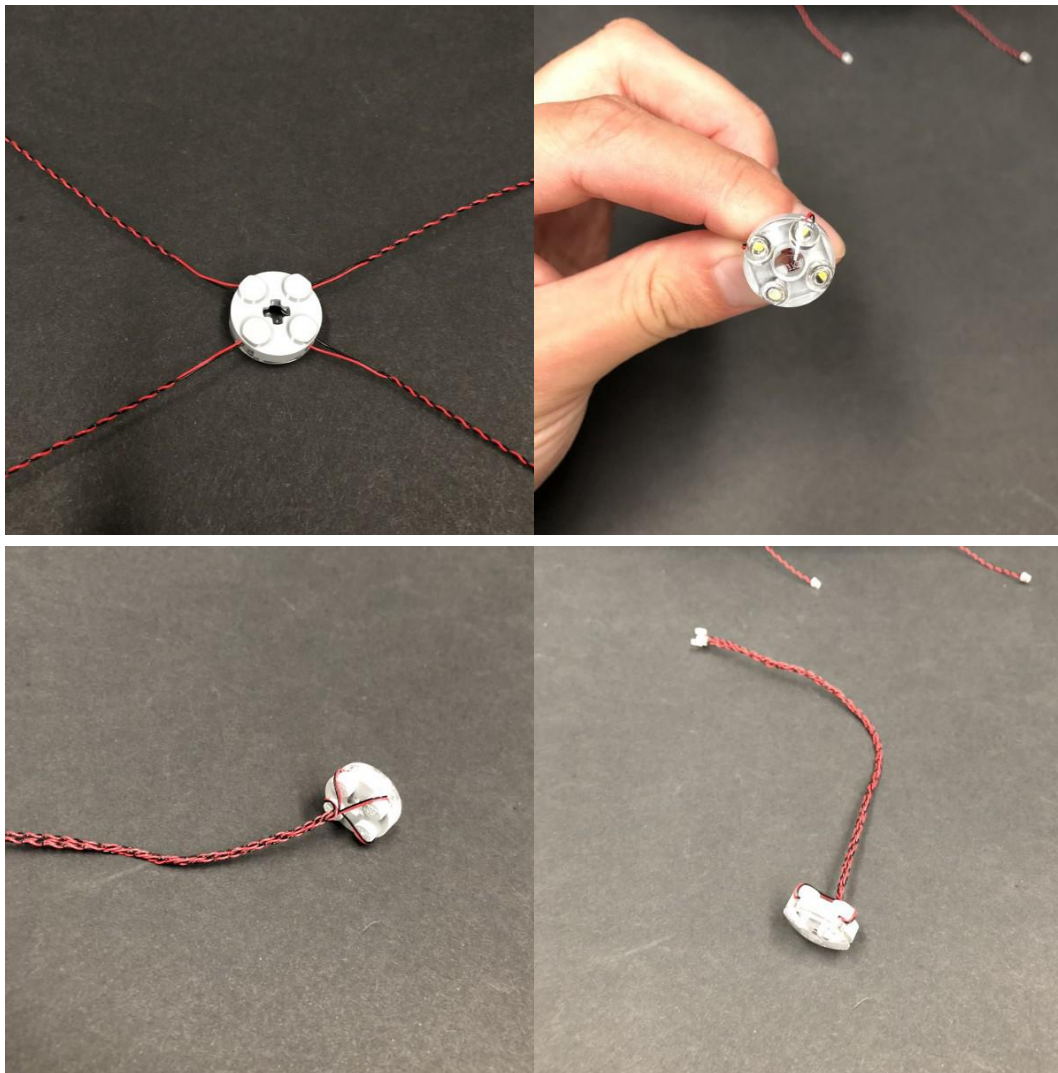
Take **4x White 15cm Dot Lights** and then place each one over each hole of the light grey round 2x2 plate as per below:



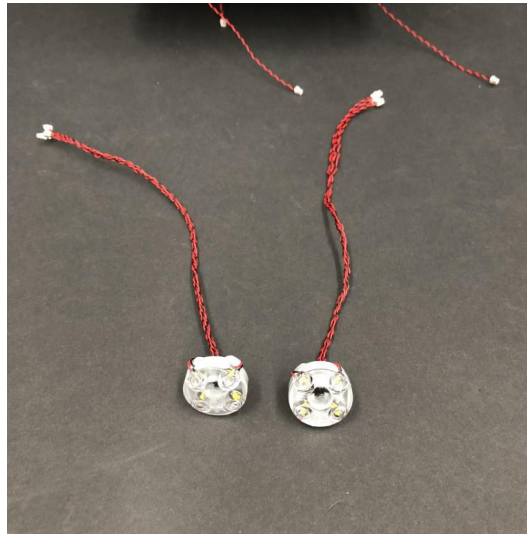
Reconnect the trans clear 2x2 plate over the top to secure the Dot Lights in place.



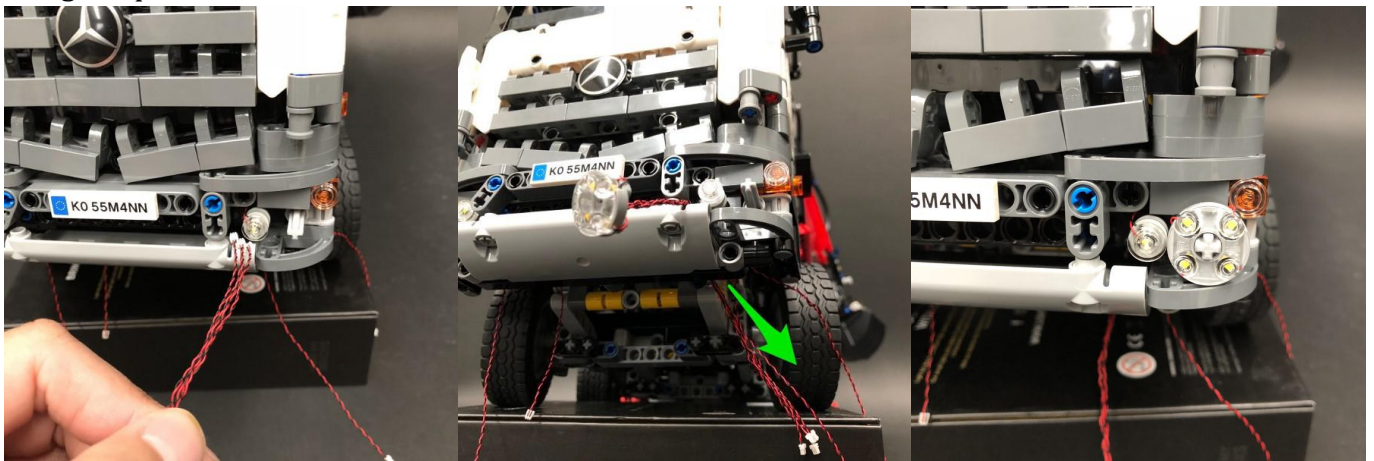
Turn the headlight section over and then group the four cables together and then twist them around each other to form one large cable.



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



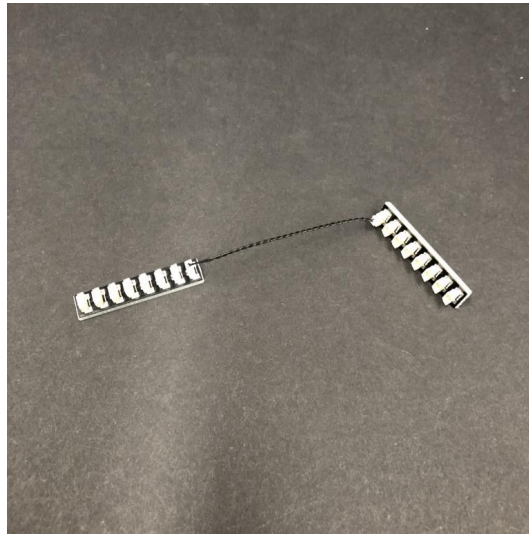
7.) Take one of the headlight cables and then thread it through the following gap on the right side of the truck. Thread it all the way through and then pull it out from underneath. Reconnect the headlight to original position.



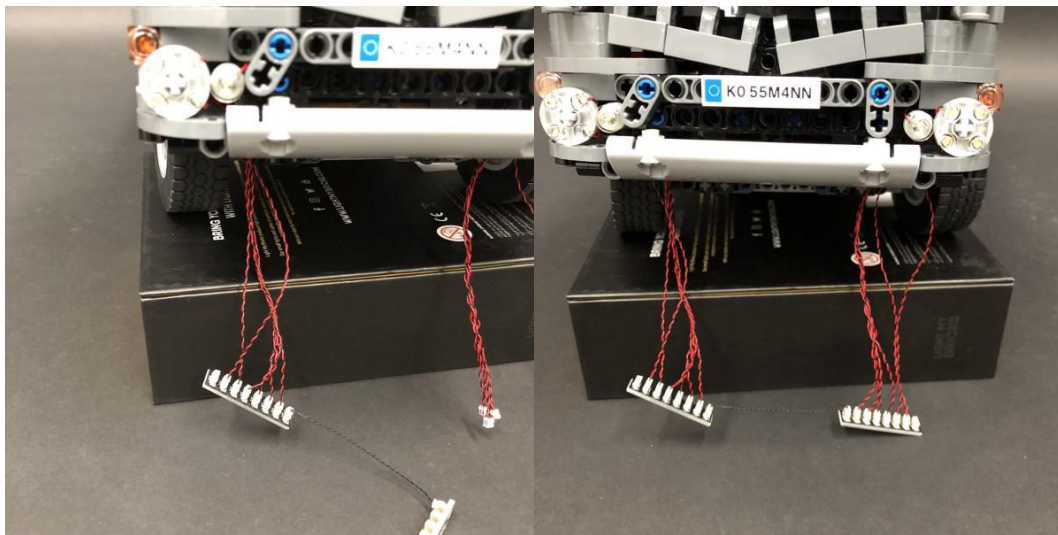
Repeat this process to reconnect the headlight on the left side of the truck.



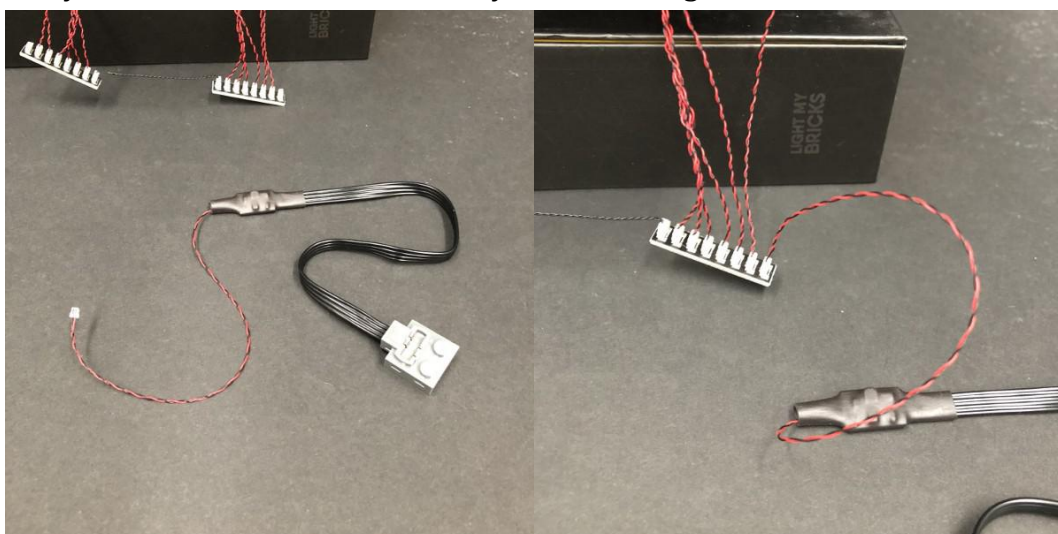
8.) Take **2x 8-Port Expansion Boards** and connect them together using a **5cm Connecting Cable**. Connect the cable to the end ports.

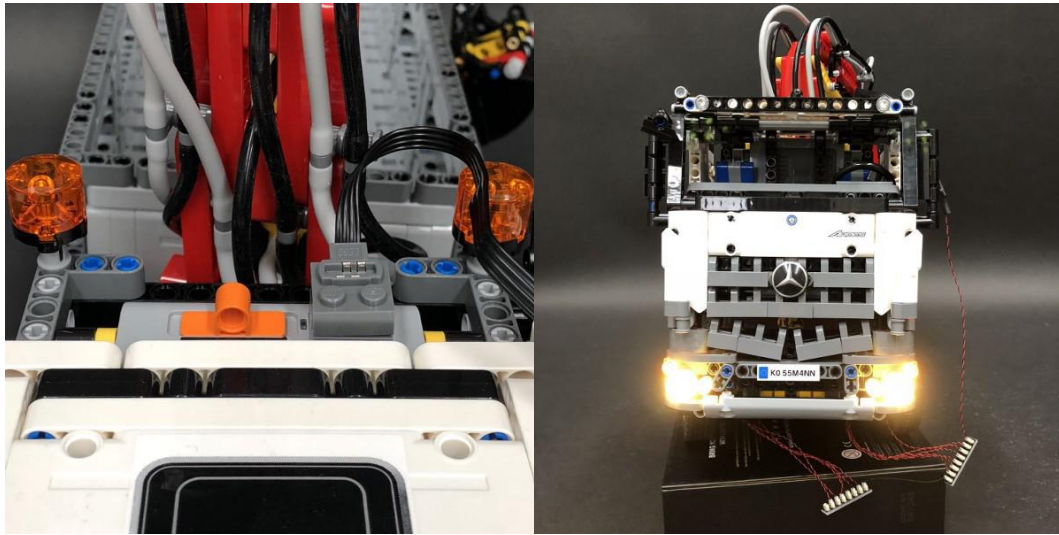


Connect all six Dot Light cables from the left side of the truck to one of the expansion boards and then connect all six Dot Light cables from the right side of the truck to the other expansion board.

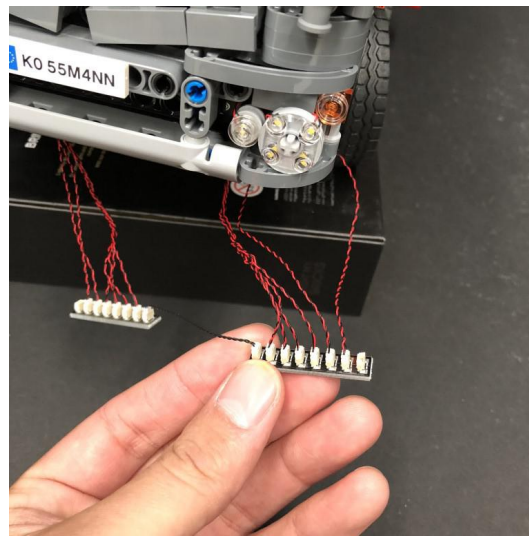


9.) Test the lights we have installed so far are working OK by taking out the **LEGO Power Functions Cable** and connecting it to a spare port on the expansion board. Connect the other side to your Power Functions Battery Pack and then turn on to verify all is working OK.





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



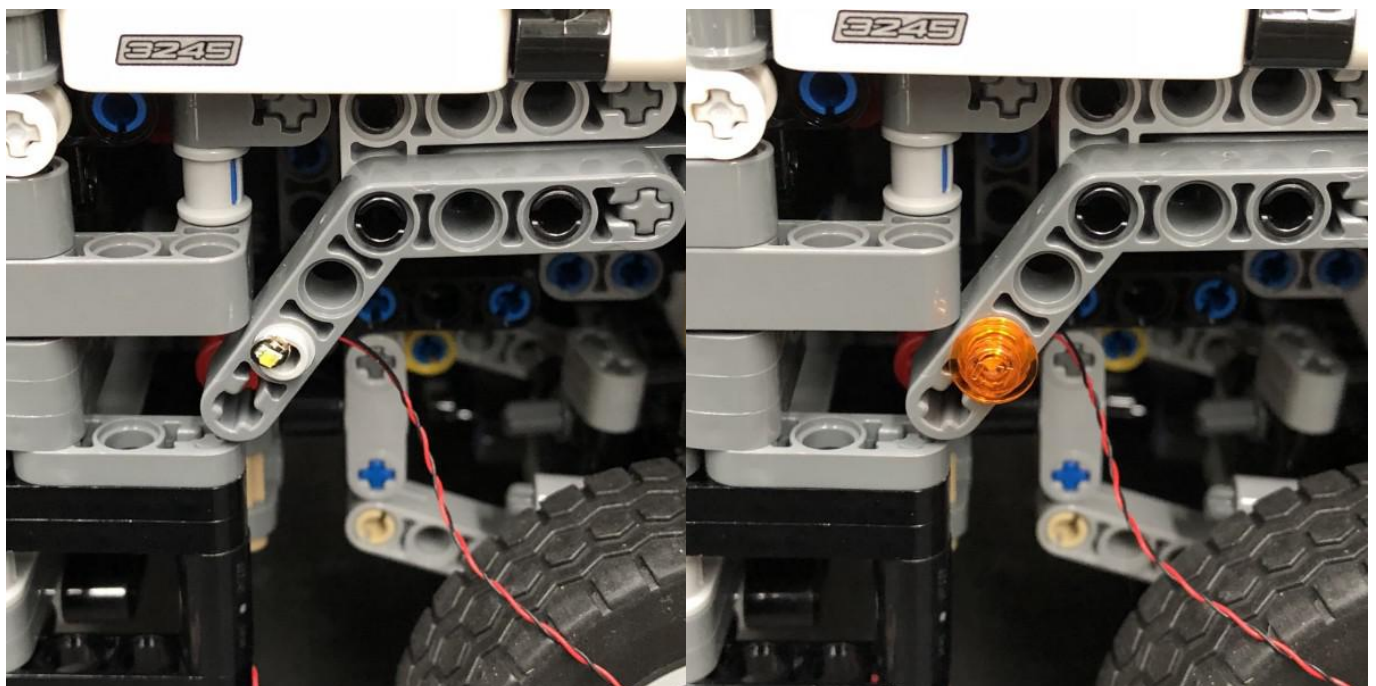
10.) Disconnect the trans orange round tiles from both sides of the truck.



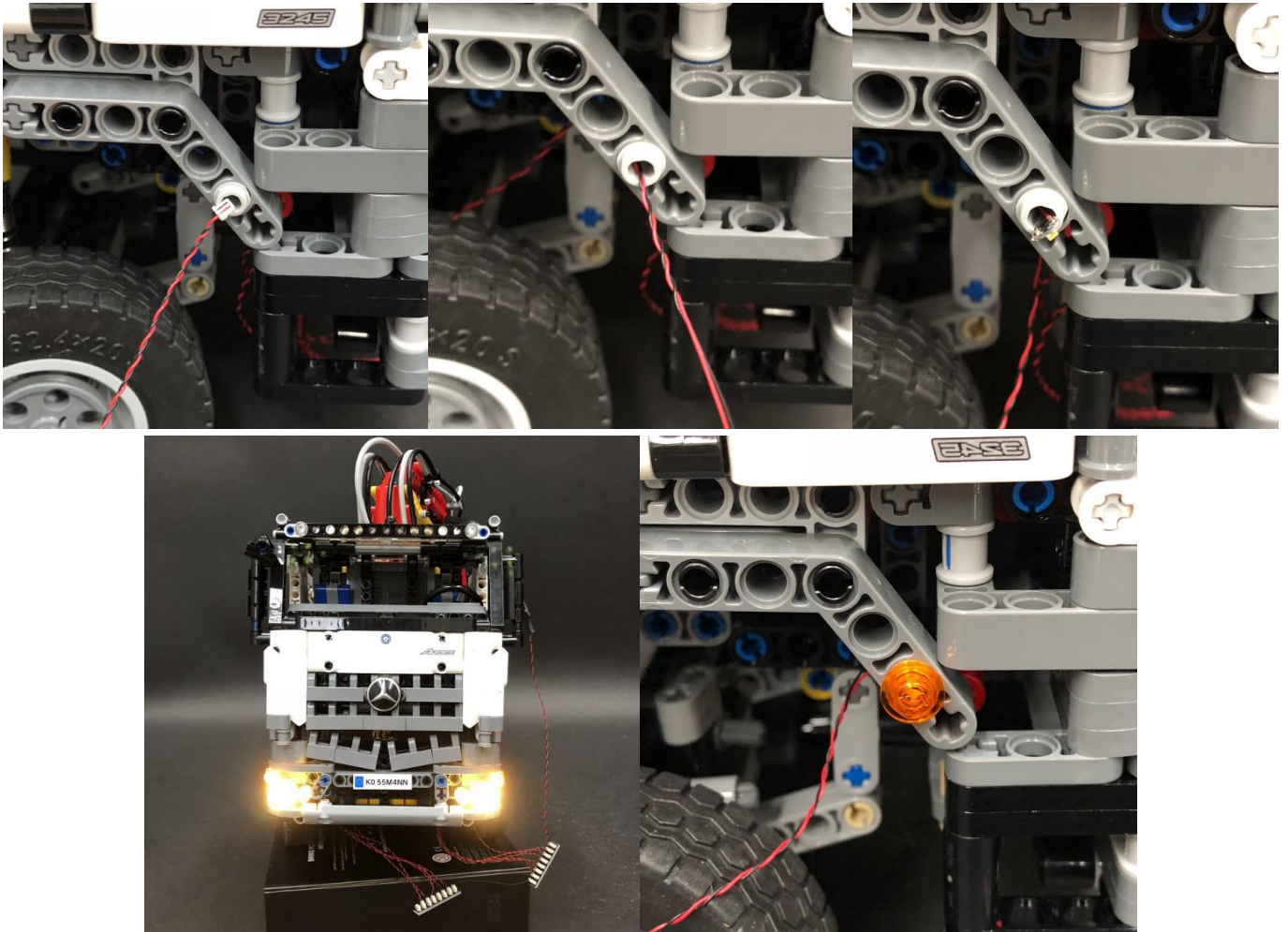
Take a **Flashing White 15cm Dot Light** and thread the connector side of the cable through the hole where you disconnected the trans orange round tile from. Thread the cable all the way through until the Dot Light is sitting right against the edge of the hole.



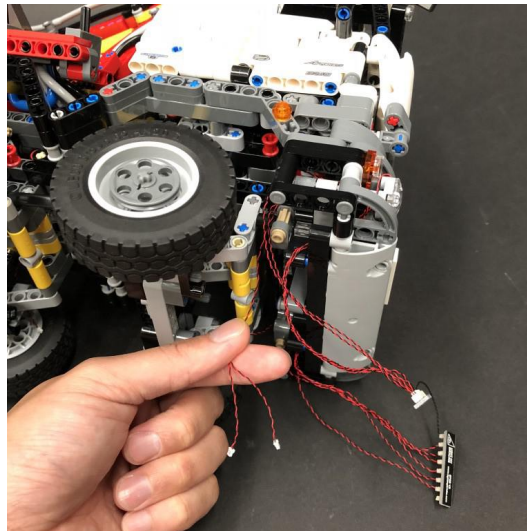
Press the Dot Light down so that it sits flat against the edge and then secure it in place by connecting a provided **Trans Orange Round Plate 1x1** over the top.



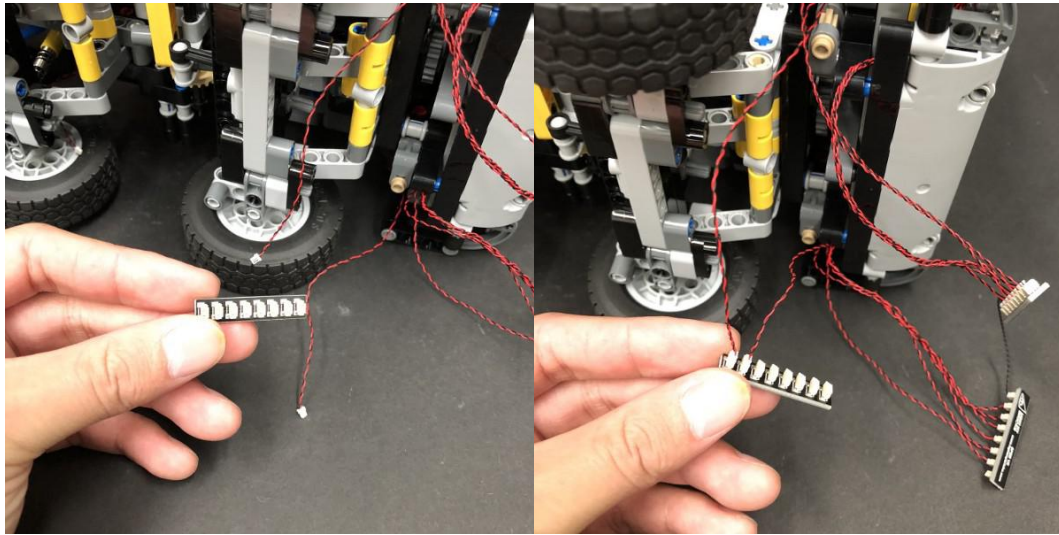
11.) Repeat previous step to install another **Flashing White 15cm Dot Light** to the left side of the truck using another provided **Trans Orange Round Plate 1x1**



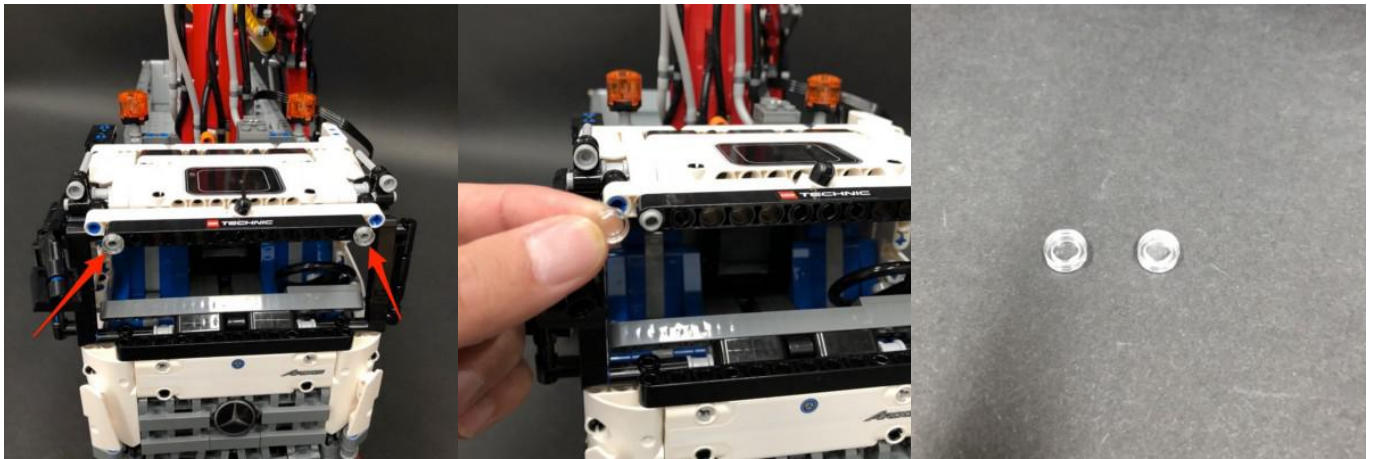
12.) Turn the truck on it's side so we can access underneath of it and then pull down both cables from the two Dot Lights we just installed.



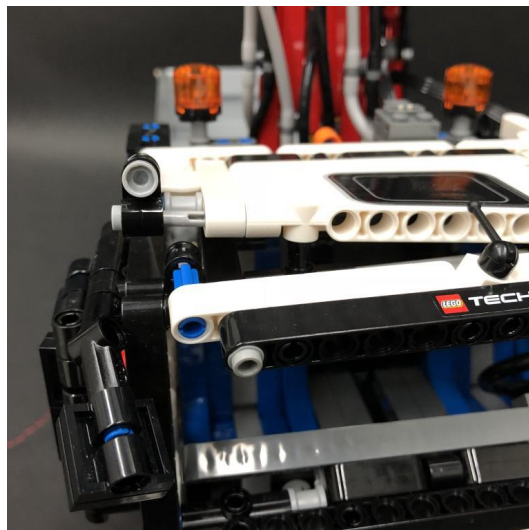
Take another **8-Port Expansion Board** and connect both lights to the first two ports.



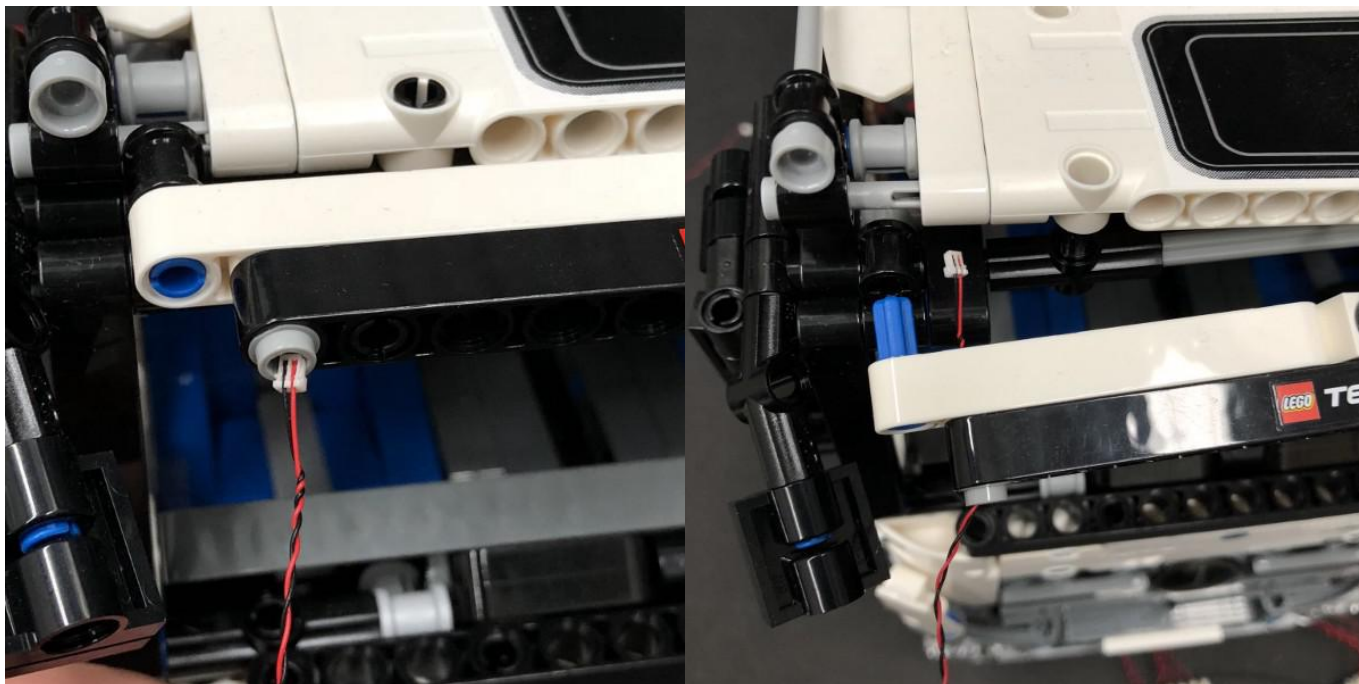
13.) We will now install lights over the top front of the truck. First disconnect the trans clear round tiles from each side.



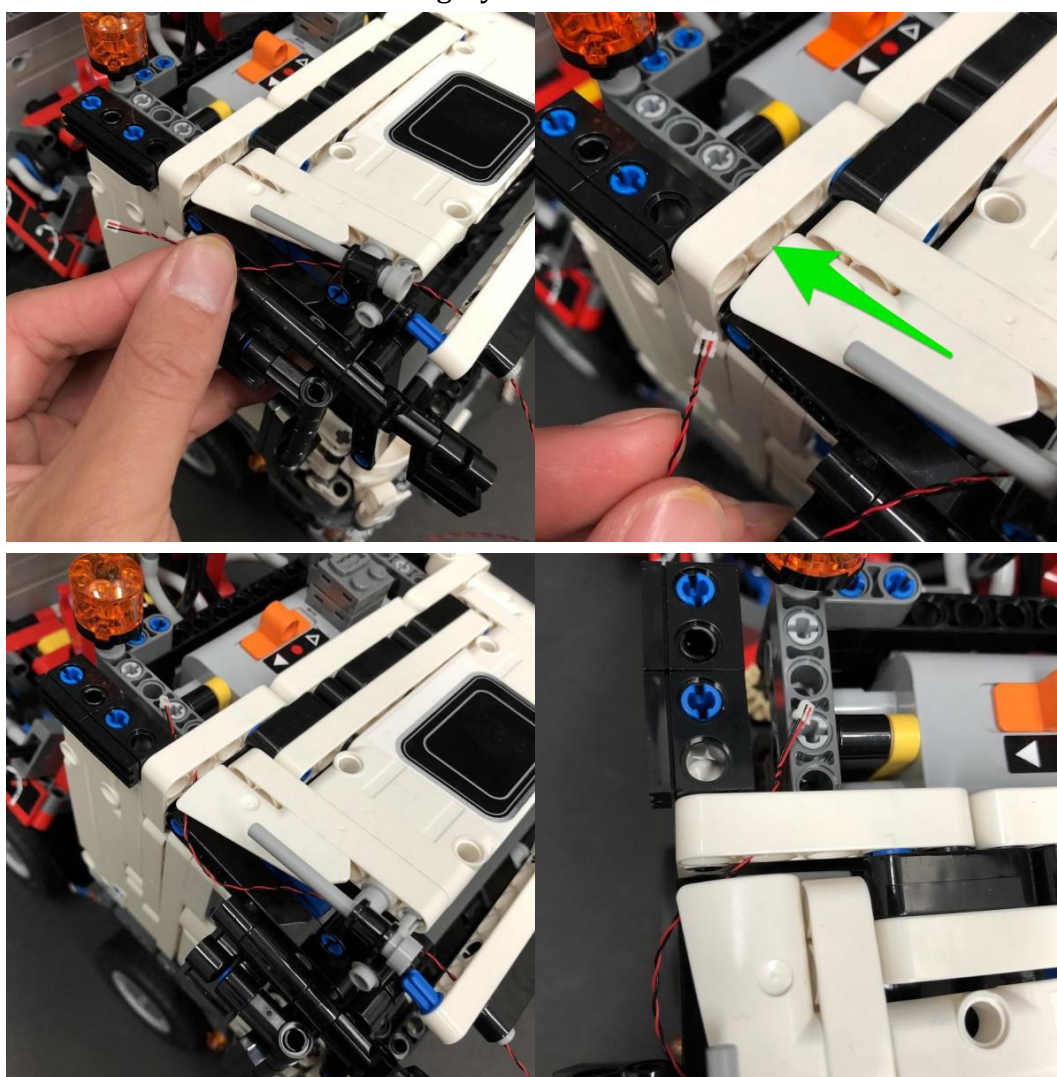
Starting with the left side, separate the following sections by pulling the front piece forward.



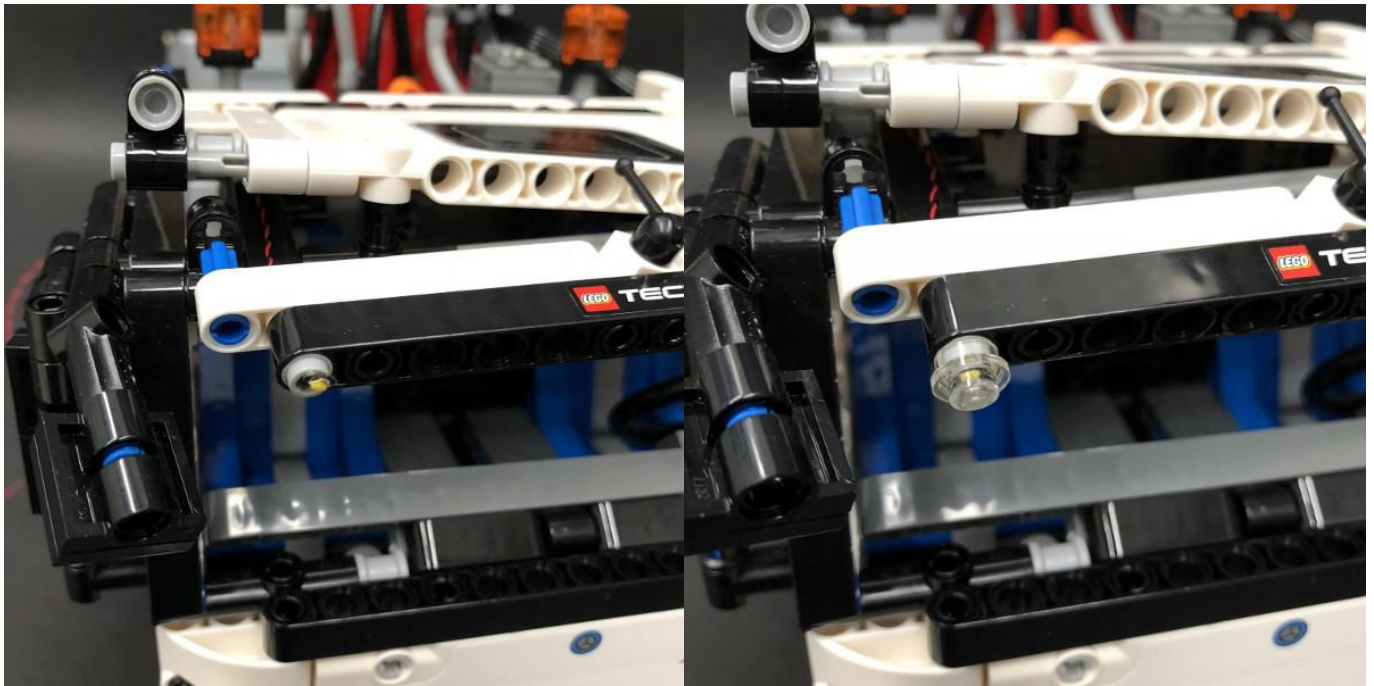
Take a **White 30cm Dot Light** and thread the connector side through the following hole and then in between white and black sections as per below:



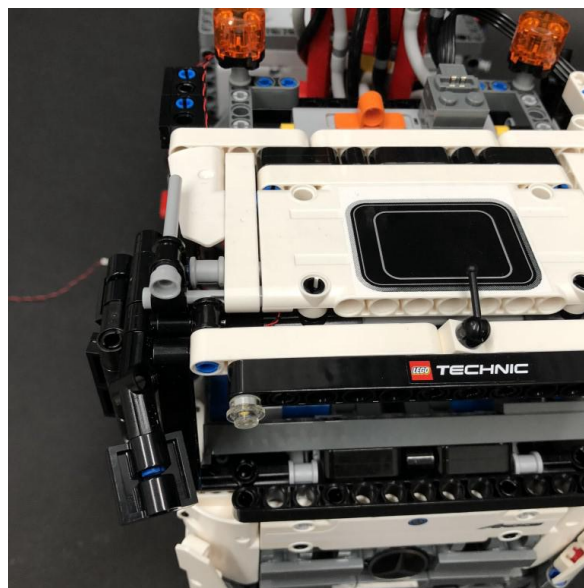
Pull the cable all the way back and then thread it through the second hole of the white piece as per below and then down in between black and grey sections:



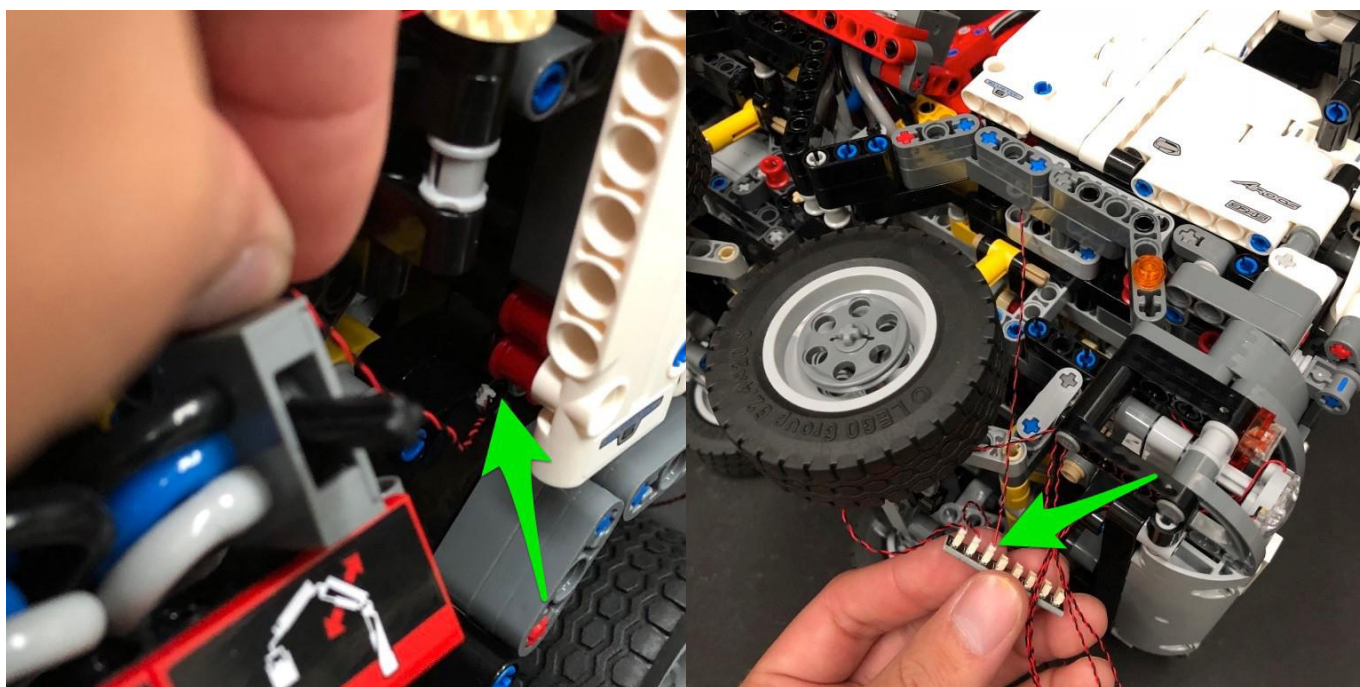
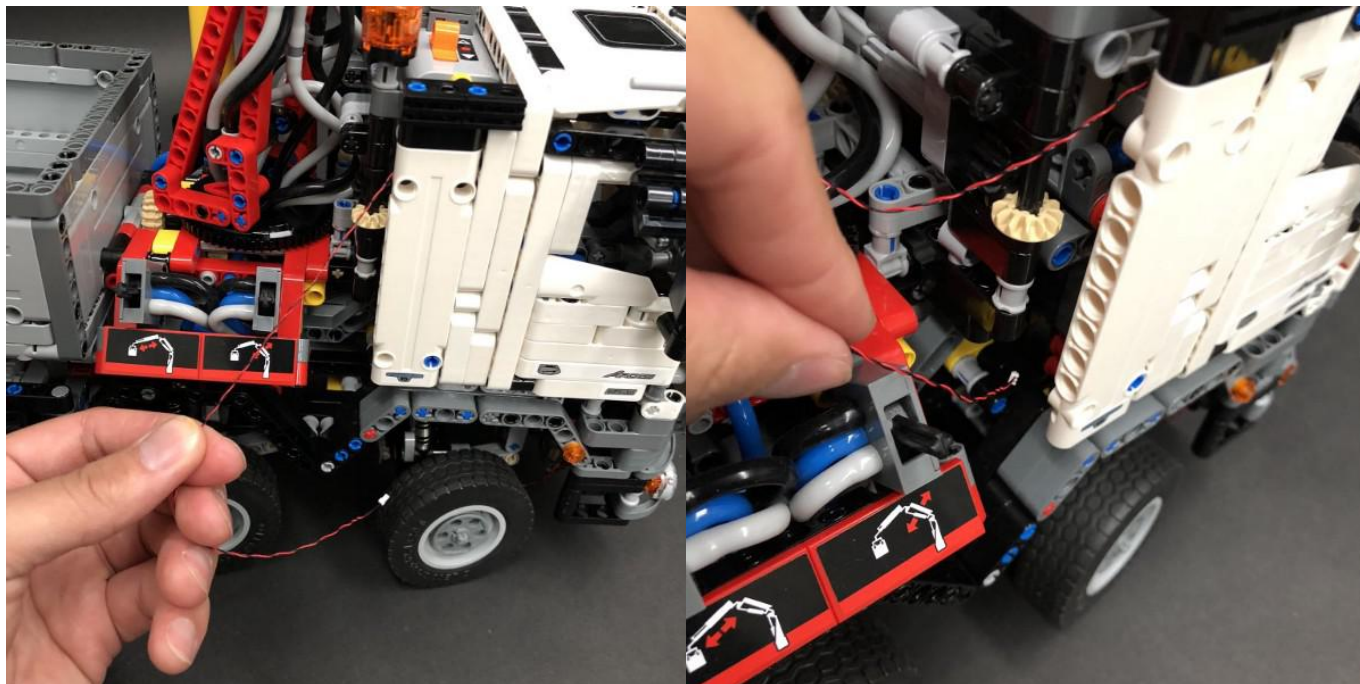
Press the Dot Light flat against the edge of the light grey piece and then secure it in place by connecting a provided **Trans Clear Round Plate 1x1** over the top.



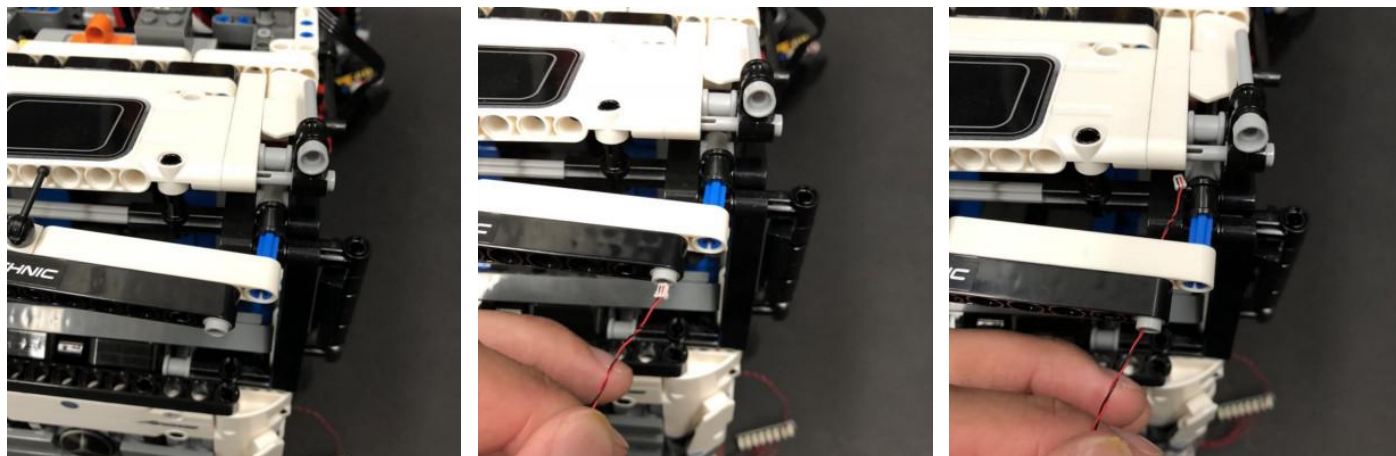
Close up all the sections we separated.

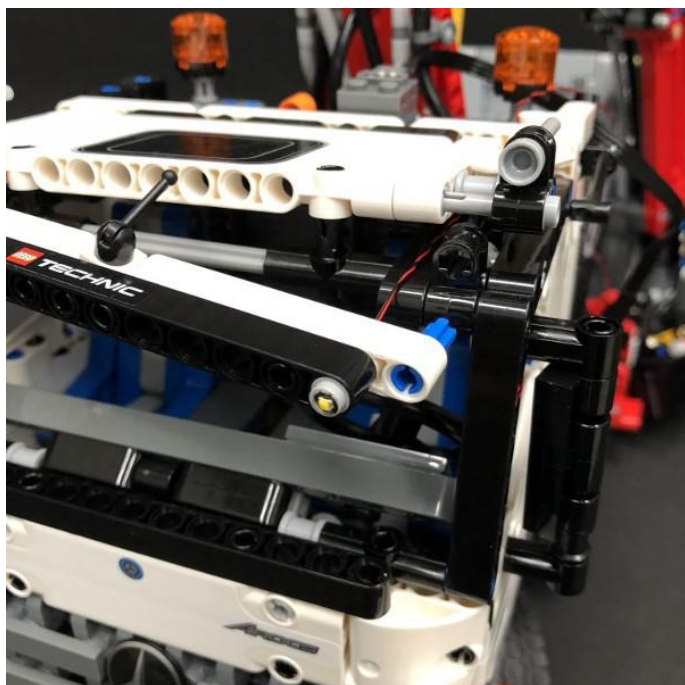
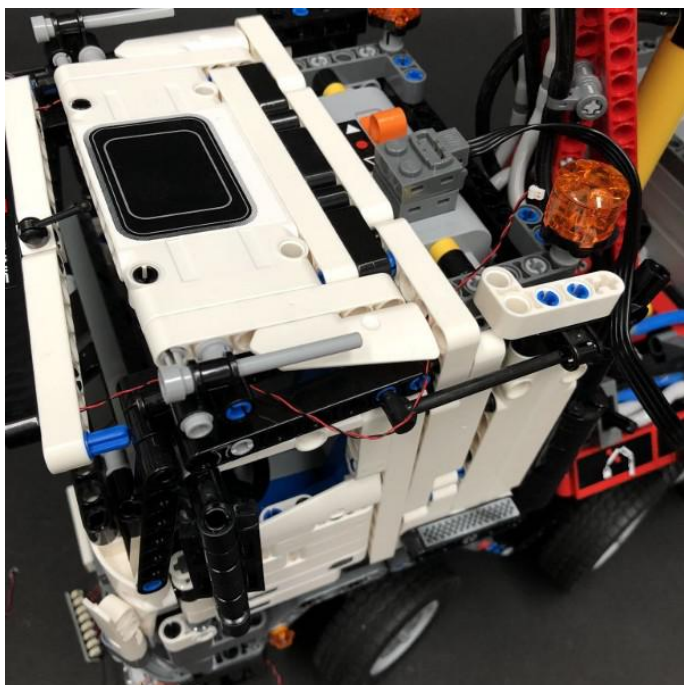
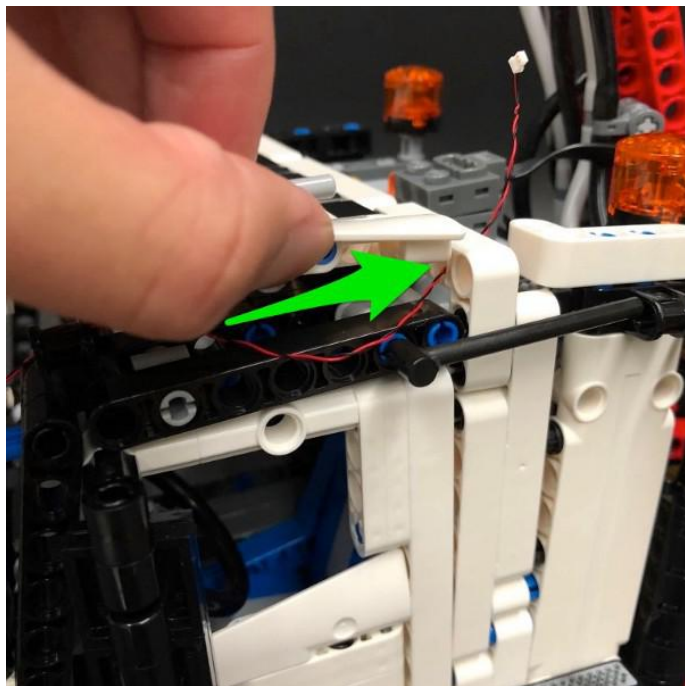
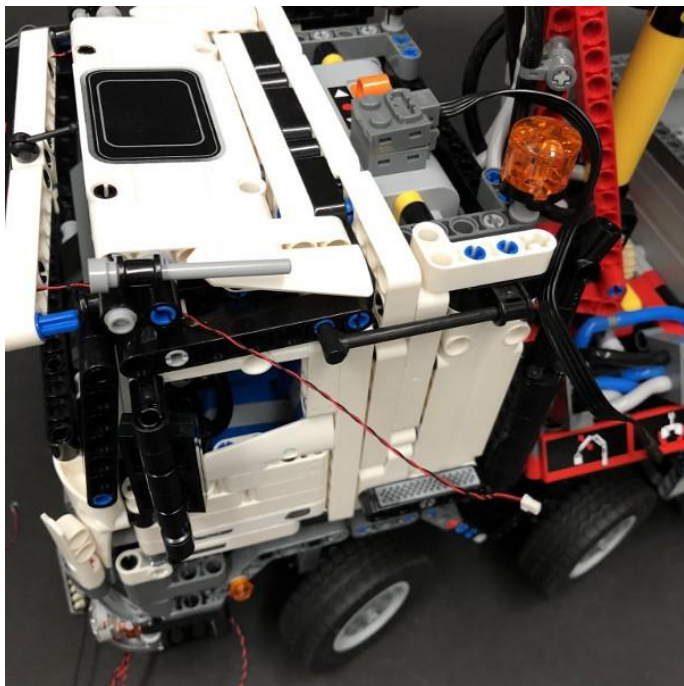


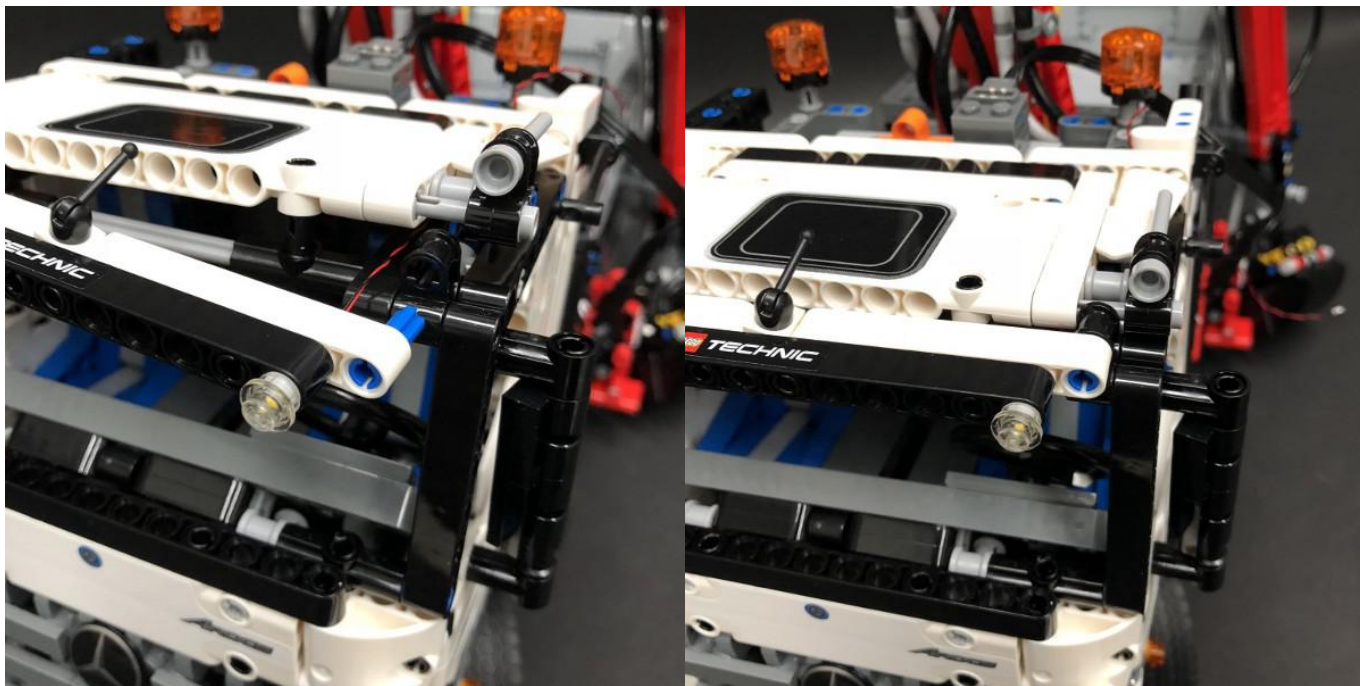
14.) Pull the cable down the back and then thread down through the following space. Pull it down from underneath (above the wheel) and then connect it to the third port along the 8-port Expansion Board from step 12.



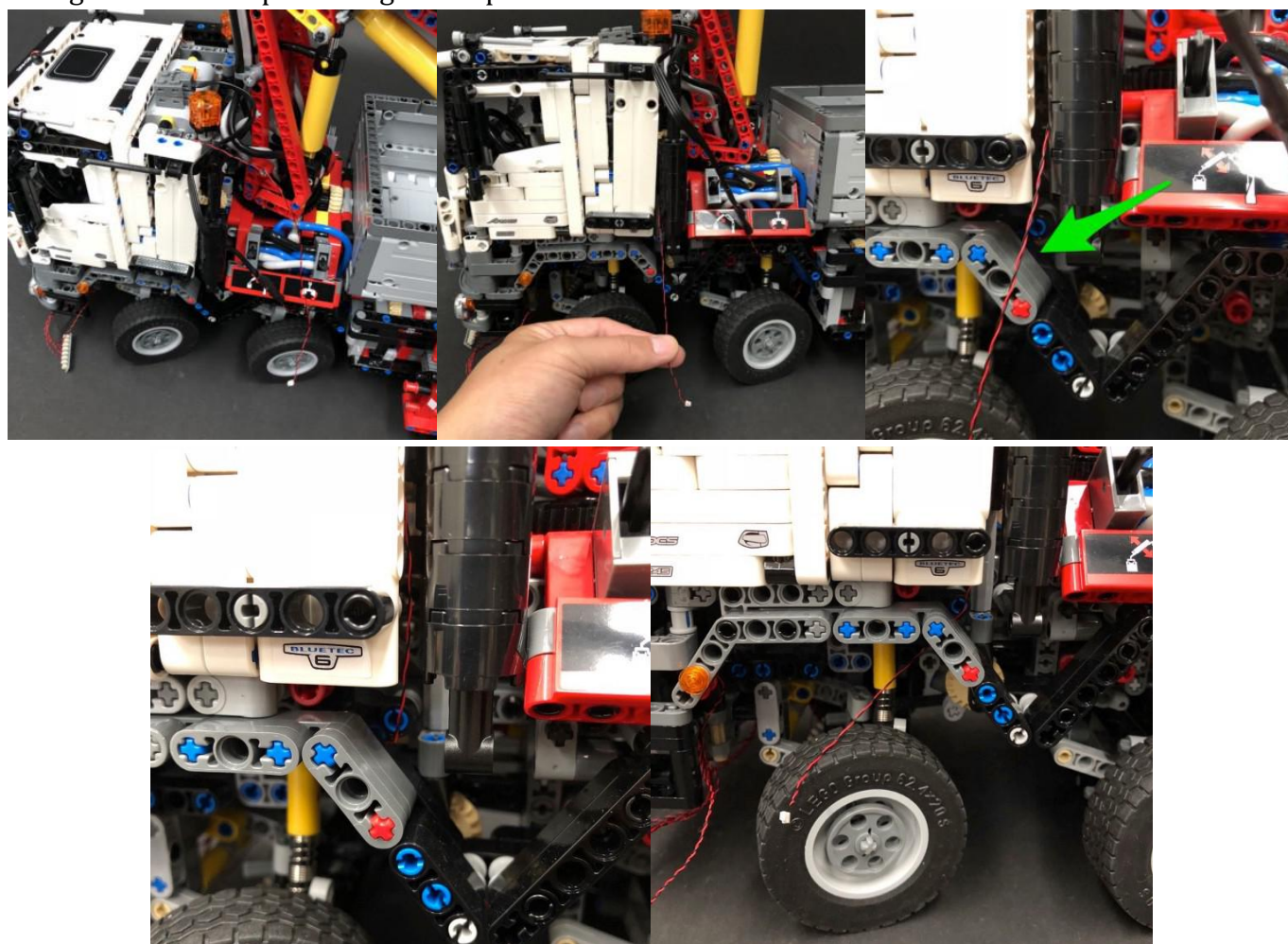
15.) Repeat steps 13 to install another White 30cm Dot Light to the top right front of the truck using another Trans Clear Round Plate 1x1.

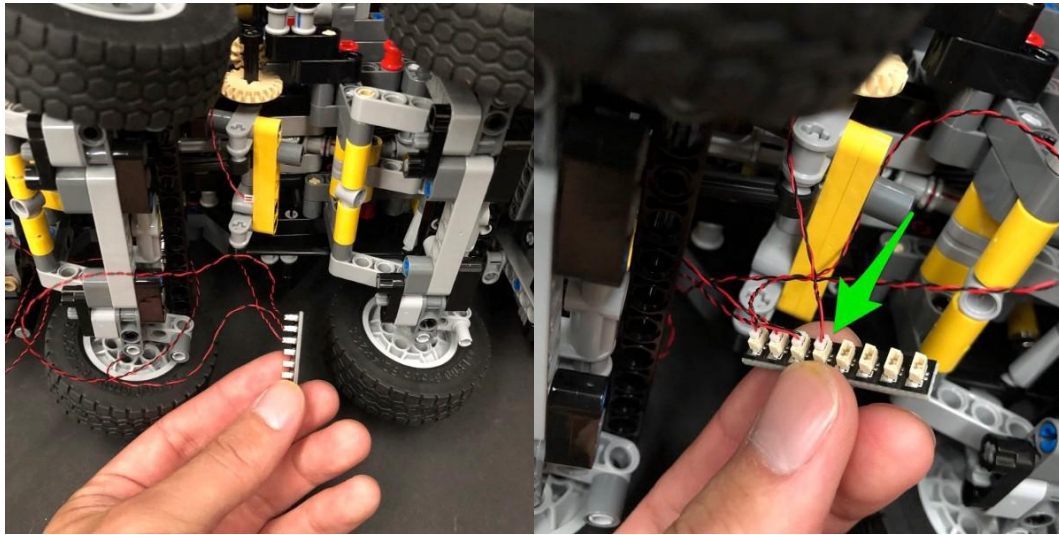




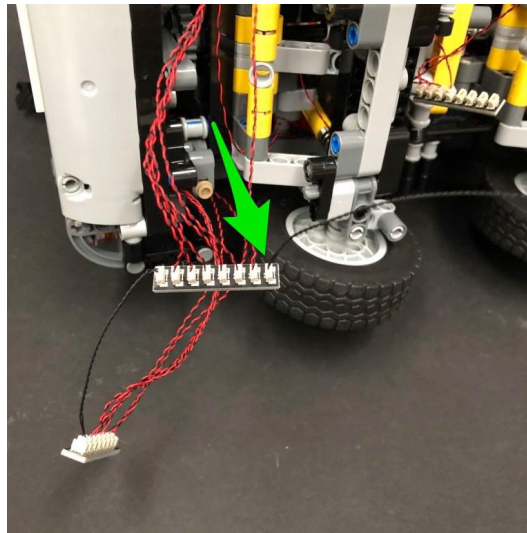


16.) Pull the cable back and then pull it down over the back white section as per below then thread the cable down through the following space. Pull it down from underneath (above the wheel) and then turn the truck over so that we can bring the 8-port Expansion Board from step 12 across. Connect the Dot Light to the next port along this expansion board.

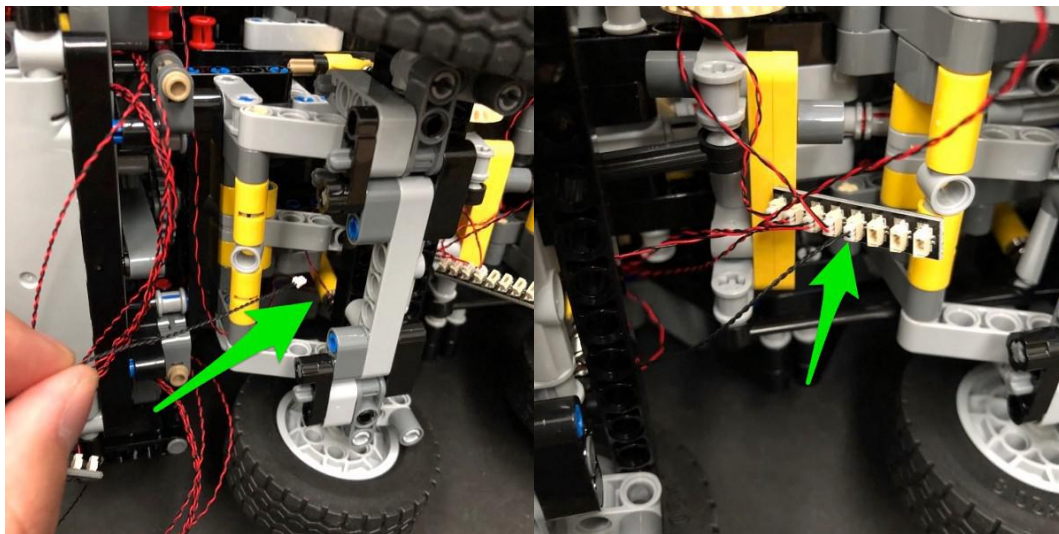




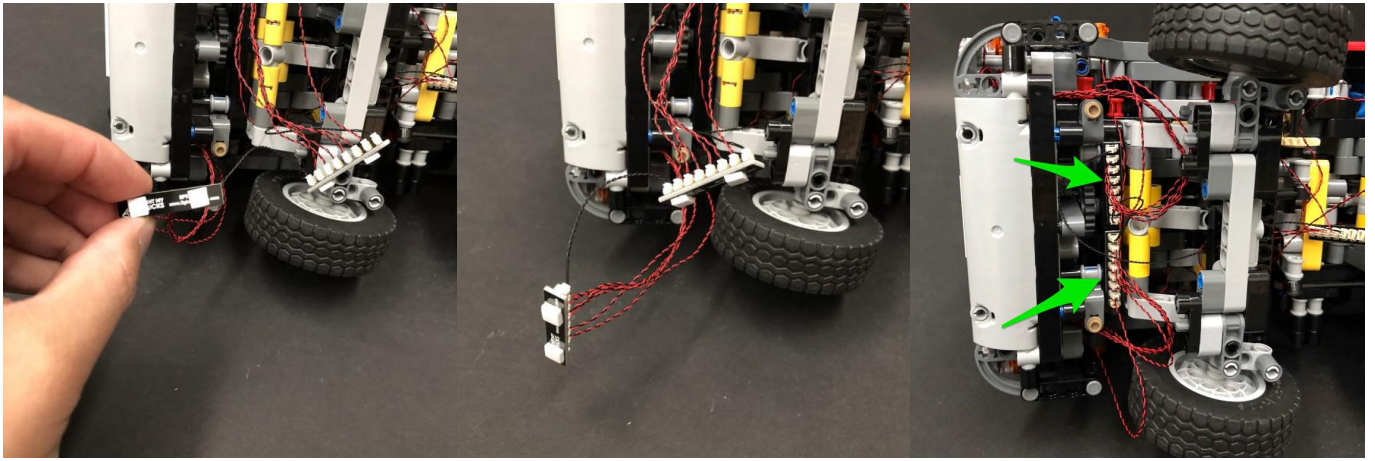
17.) Take a **15cm Connecting Cable** and connect it to the remaining port on **one of the 8-port expansion boards** from step 8.



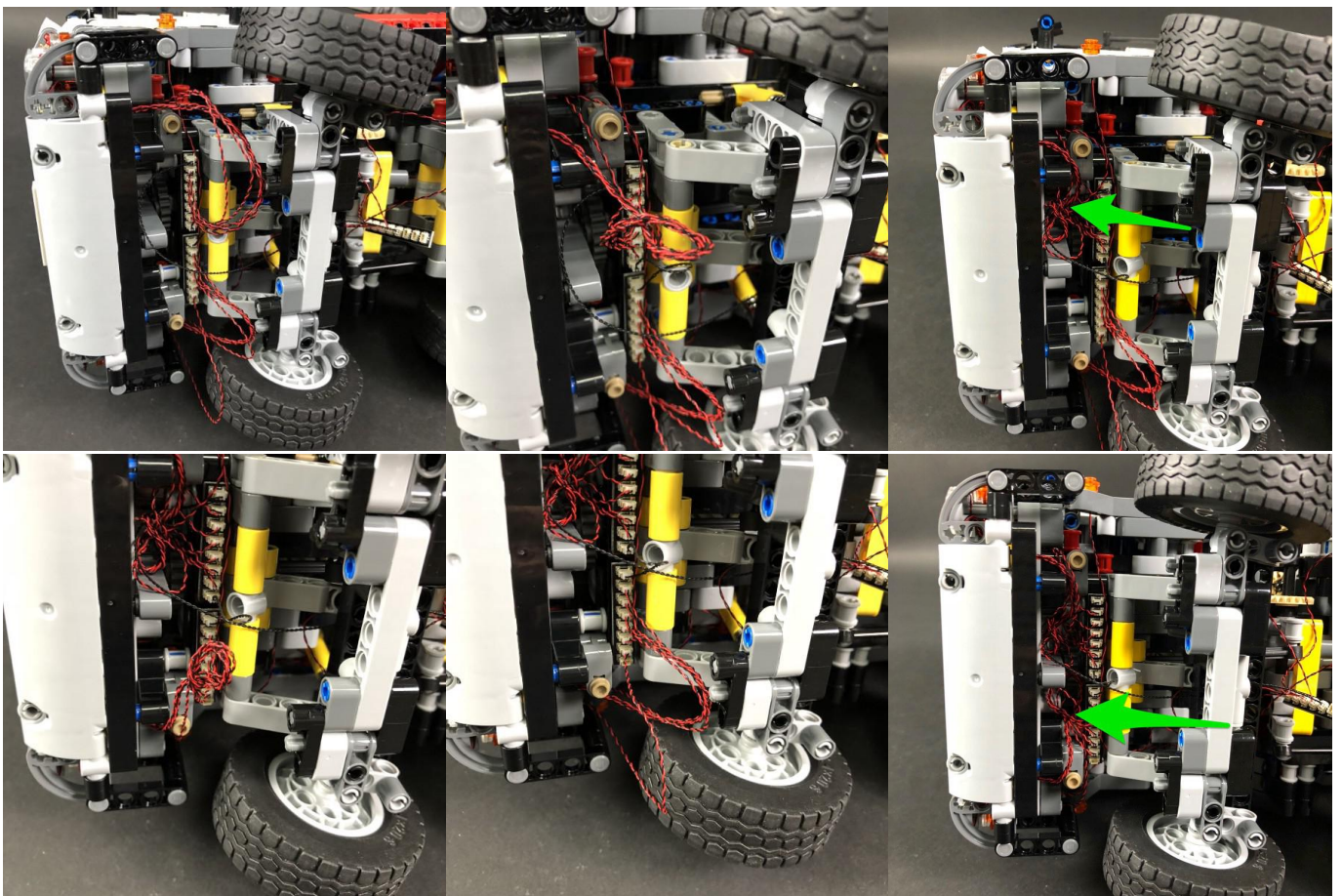
Thread the other end of the 15cm connecting cable through the following space (over the light grey piece) and then connect it to the next port along the 8-port expansion board (from step 12)



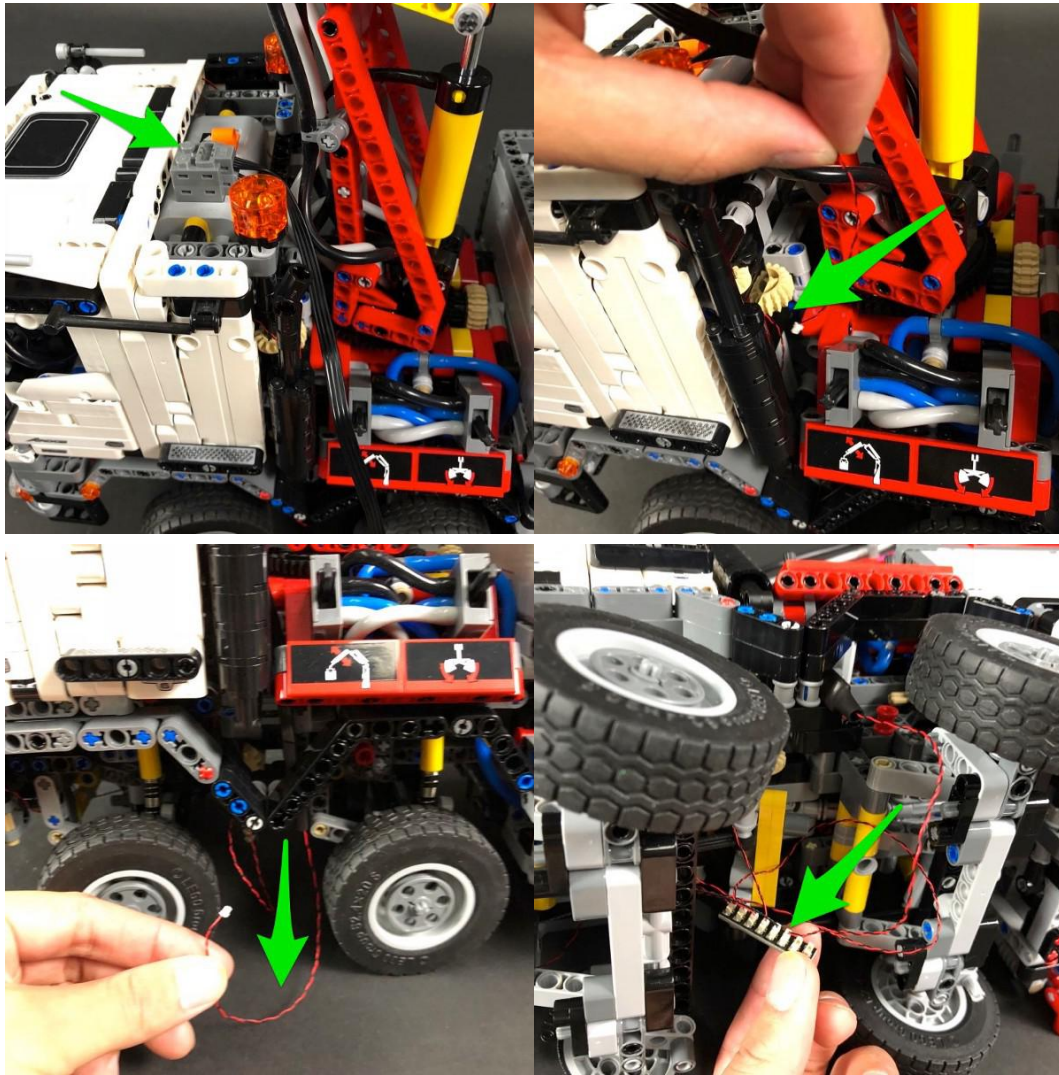
18.) Take **4x Adhesive Squares** and stick two on each 8-port expansion board at the front. Mount the two expansion boards underneath the truck in the below positions.



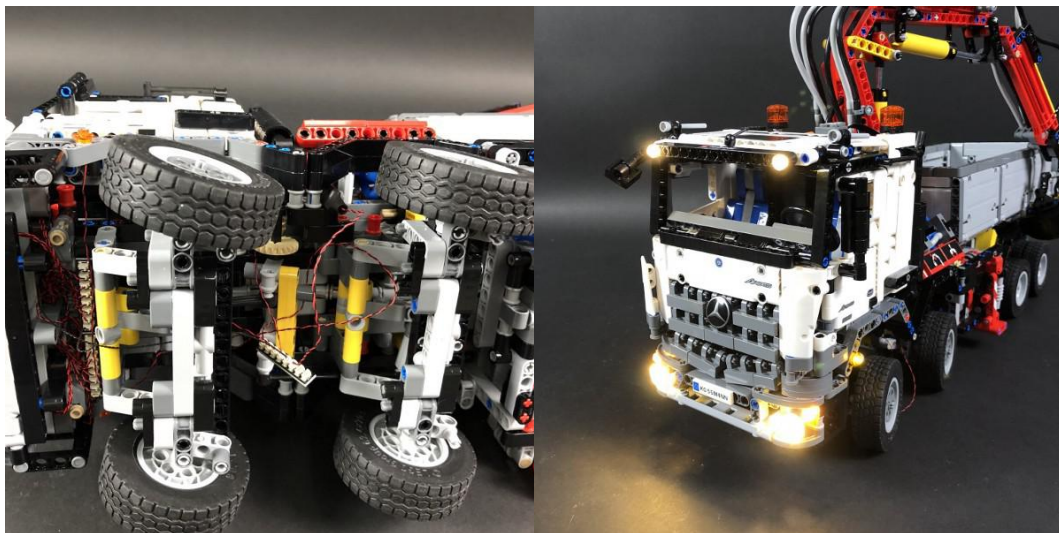
19.) Neaten up excess cable from the Dot Lights at the front by pulling them all the way out and then twisting them around each other and then tucking them up the sections closest to each expansion board.



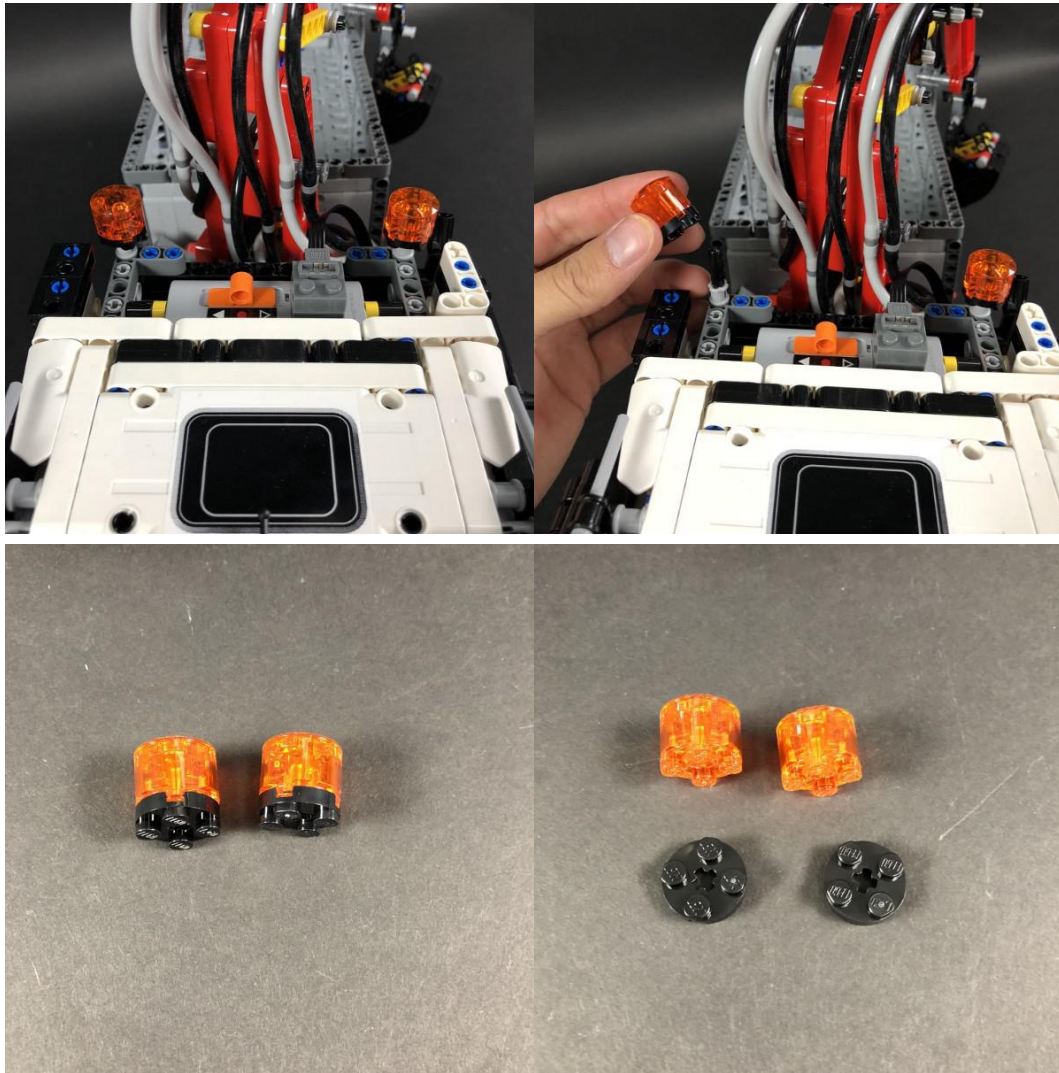
20.) Connect the Power Functions Cable to the Power Functions Battery pack and then pull the cable over the back and then thread it down the space below the cream coloured cog wheel. Pull it down from underneath the truck and then turn the truck on it's side to allow you to connect the power functions cable to a spare port on the 8-port expansion board.



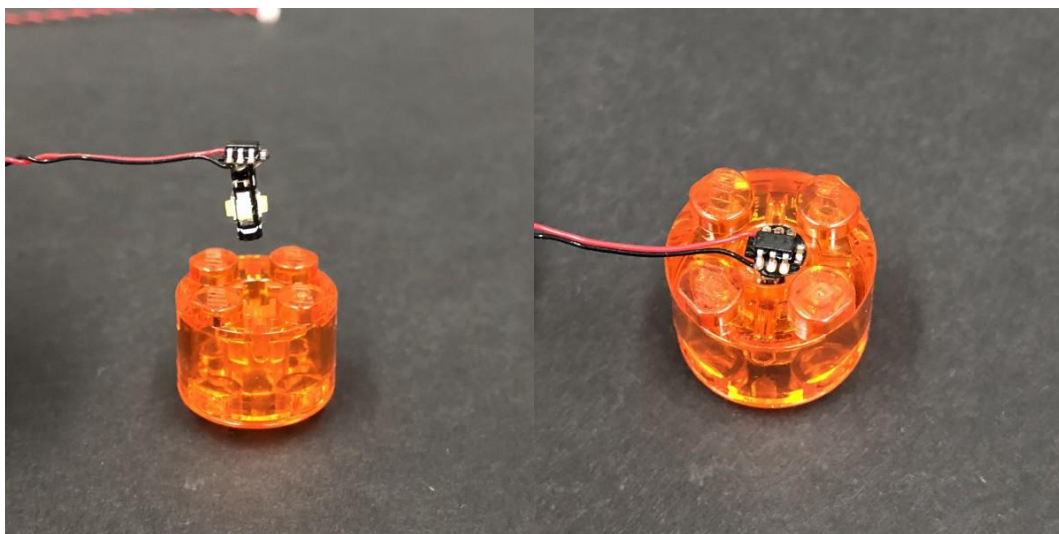
Turn on the power functions battery pack again to test all the lights are working OK.

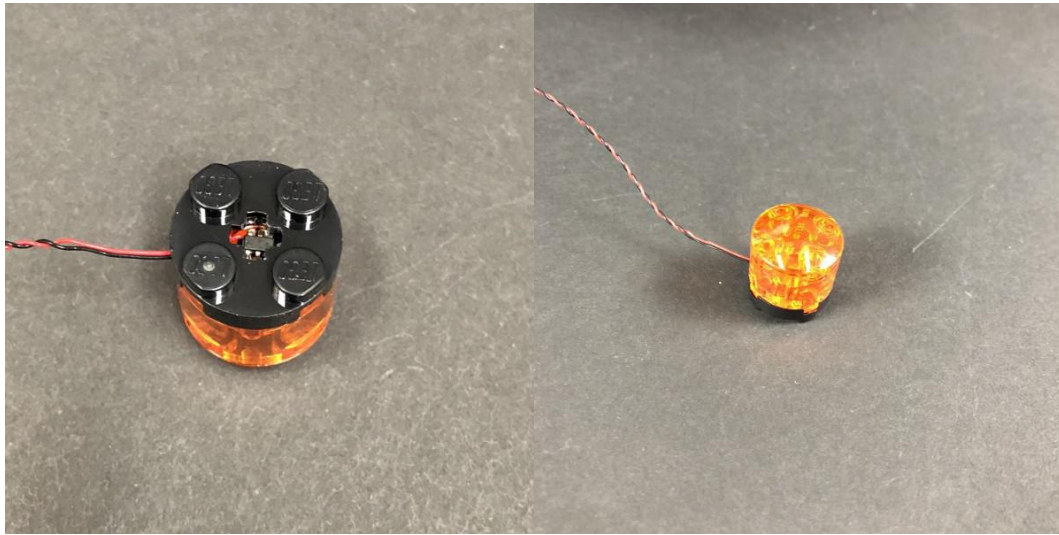


21.) We will now install our Rotating Dot Lights inside the two beacons. First disconnect both beacon light sections and then disconnect the black round plates 2x2 from underneath each.

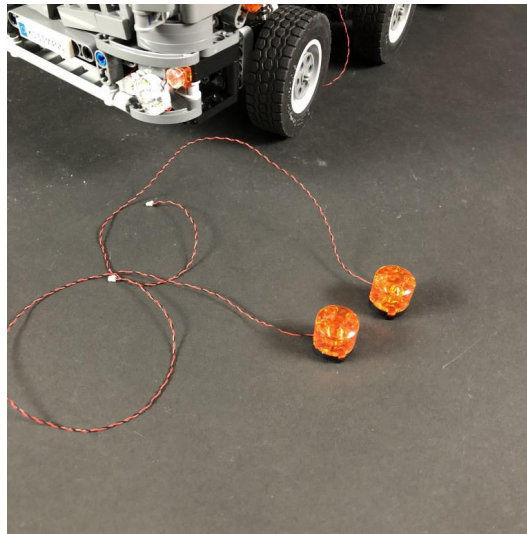


22.) Take **1x Rotating 30cm Dot Light** and place the component upside down (flat side up) over the top of the middle of the trans orange round brick 2x2. Reconnect the black round plate 2x2 directly over the top then flip the beacon over to the correct side.



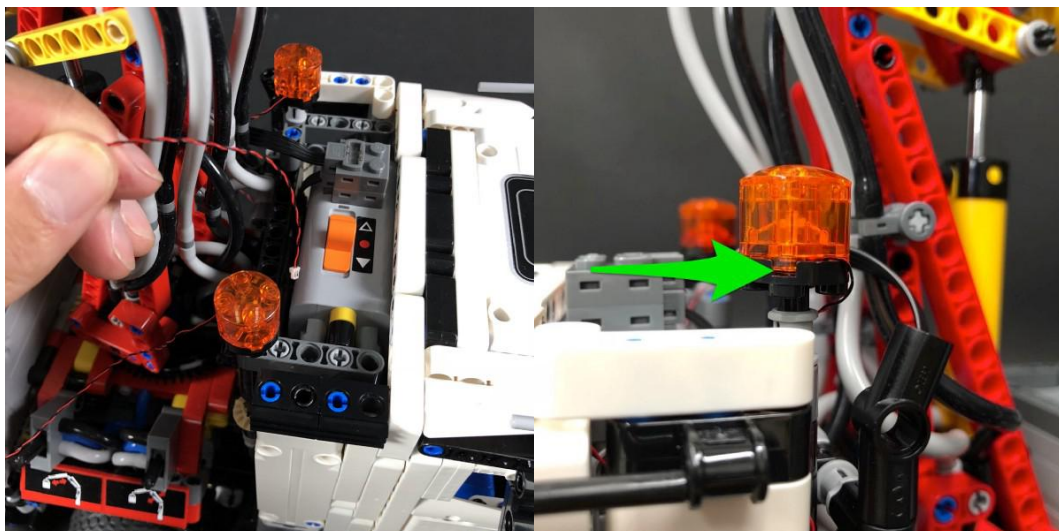


Repeat this process to install another **Rotating 30cm Dot Light** to the other beacon.



23.) Reconnect both beacons to the top of the truck ensuring the cables are facing toward the back. Because we have installed Rotating Dot Lights inside trans orange round brick, we will not be able to push this brick all the way down the technic pin.

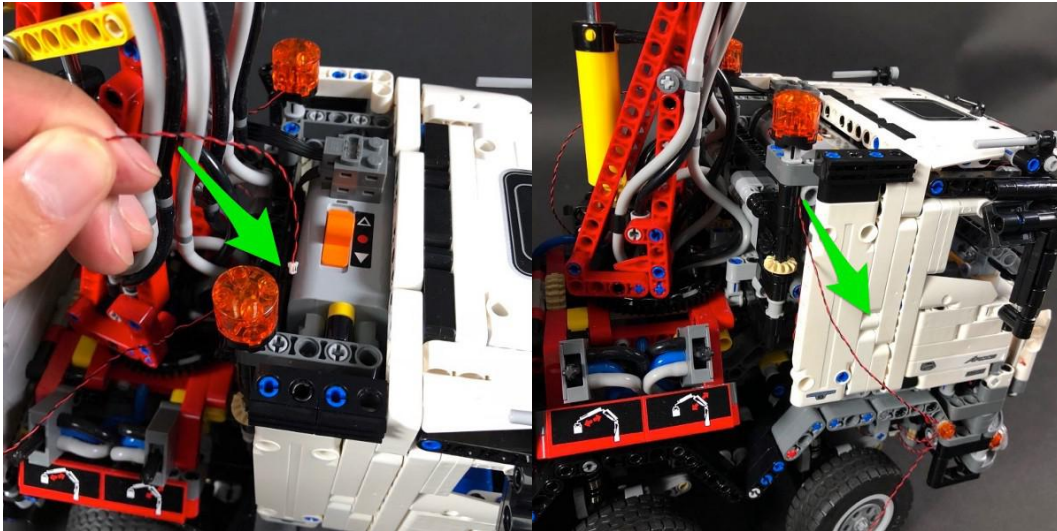
Ensure that you do NOT forcefully push the Beacon all the way down otherwise this may damage the Rotating Bit Light



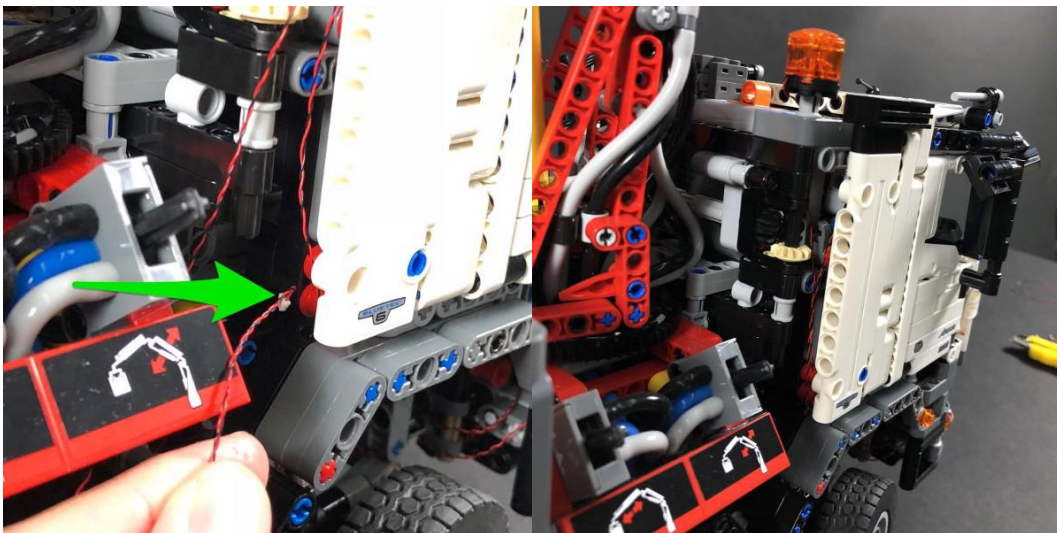
The base of the Rotating Dot Light should be sitting on top of the technic bar coming up from

underneath

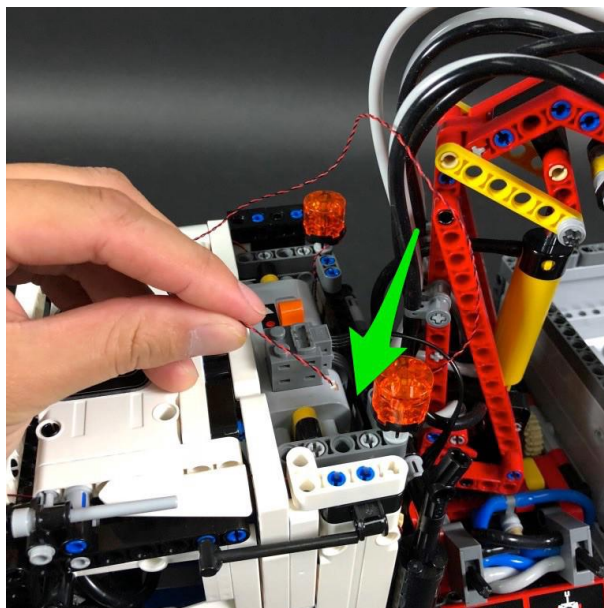
Take the left beacon cable and thread it down the following space:



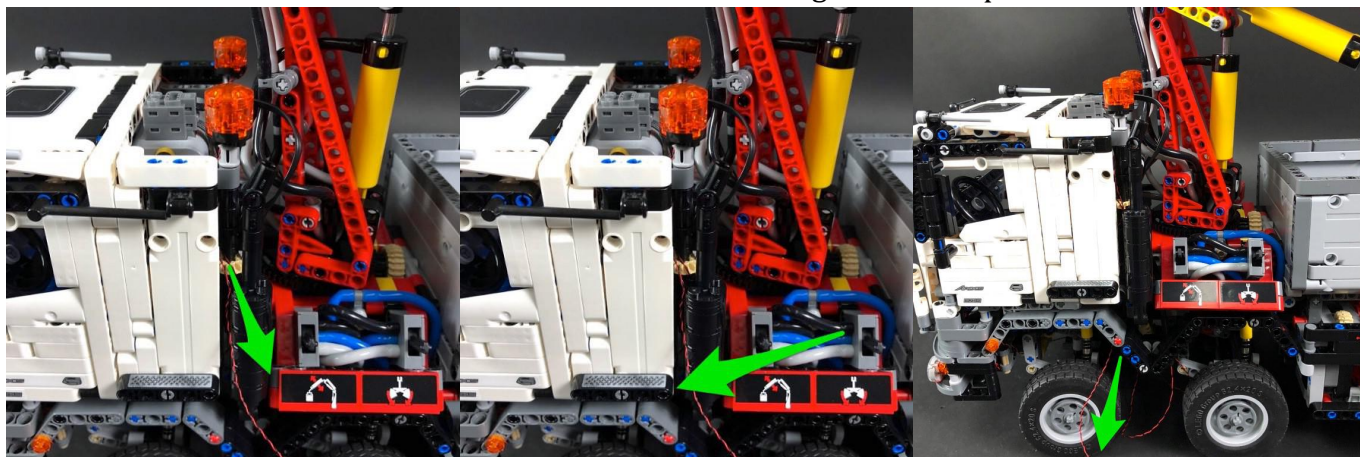
Pull it out from underneath and then thread it through the space below. Pull it out from underneath the truck.



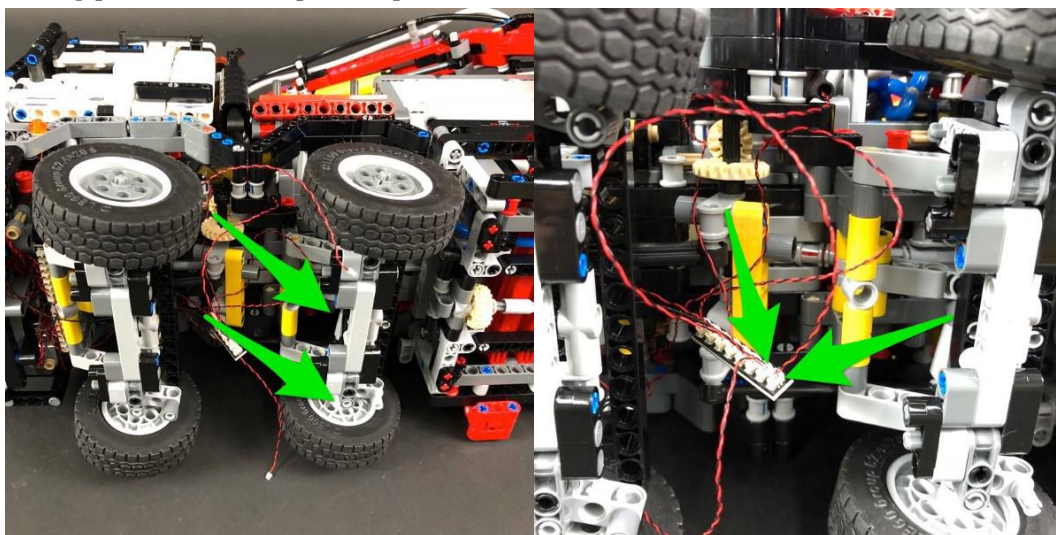
Take the right beacon light and thread it down the following space:



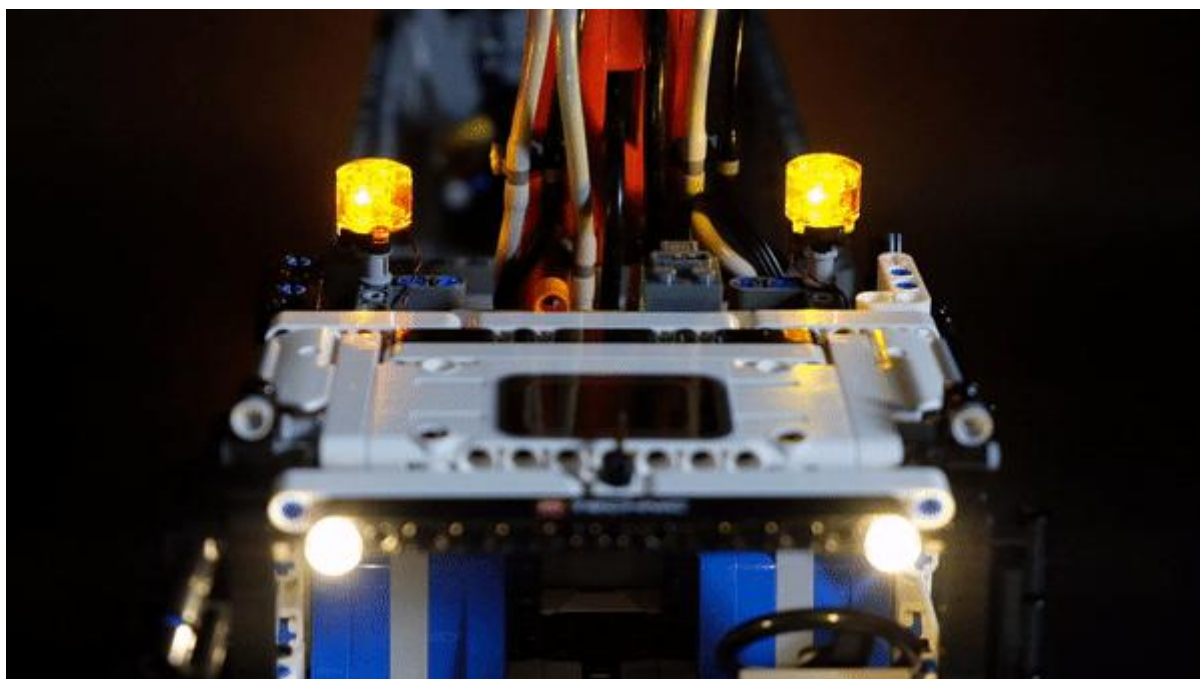
Pull it down from underneath and then thread it down through the next space below:



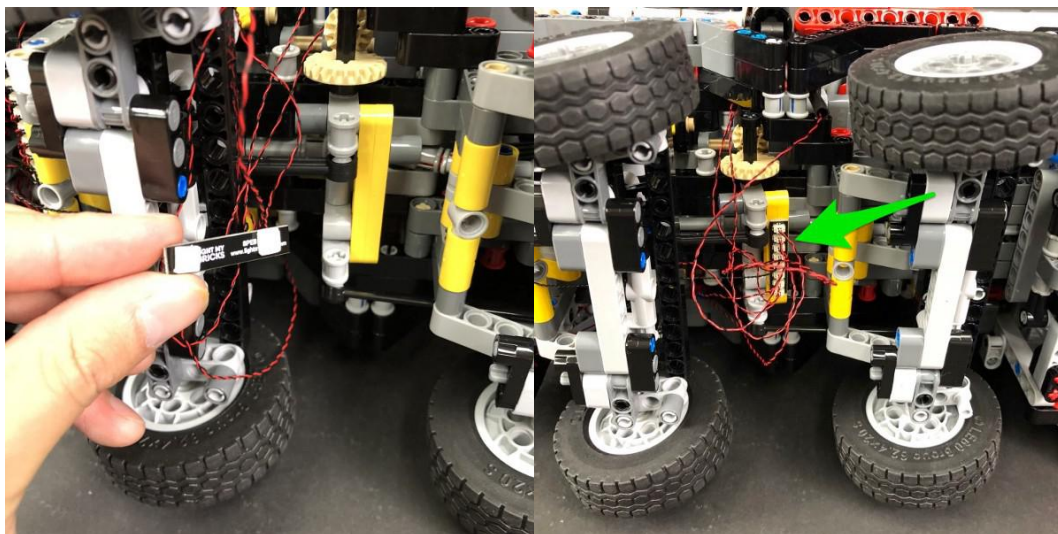
24.) Turn the truck over and pull both beacon light cables out from underneath and connect them to the two remaining ports on the 8-port expansion board.



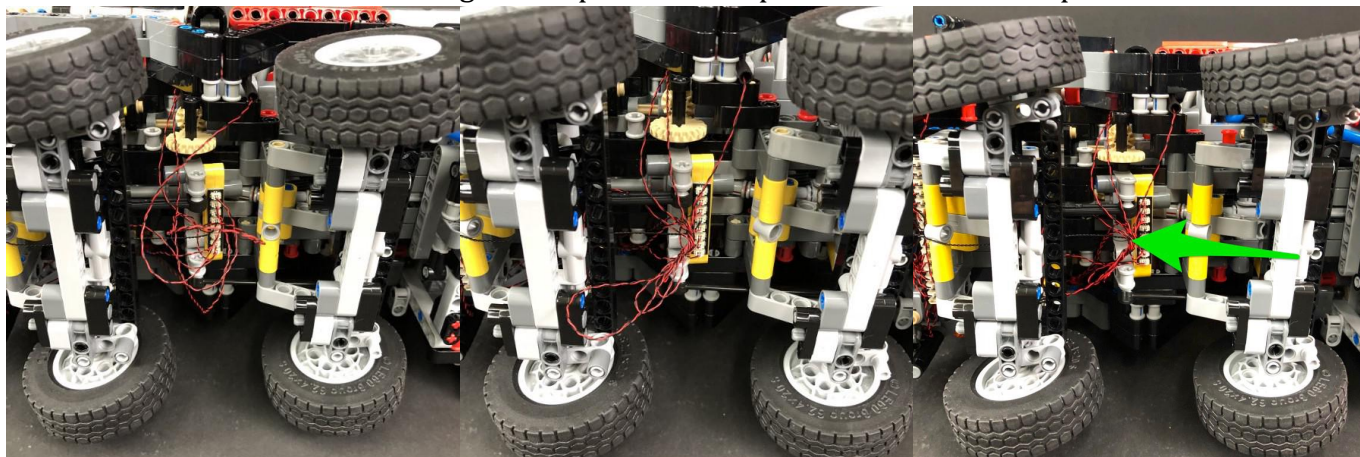
Turn the truck back to its correct side up and then Turn 'ON' the Power Functions Battery Pack to test the Rotating Dot Lights are working OK



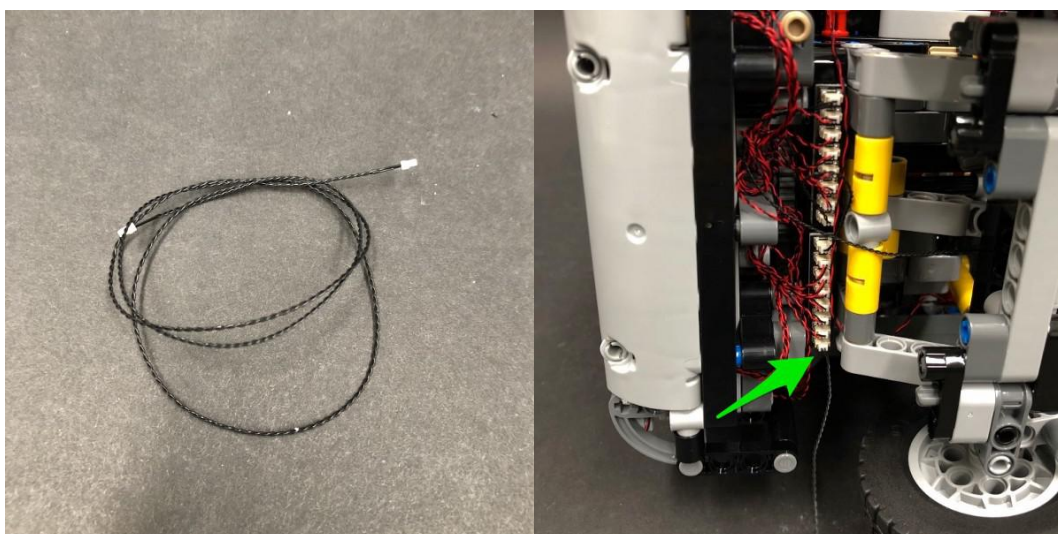
25.) Turn the Truck back over and then mount the 8-port Expansion Board underneath in the following position using **2x Adhesive Squares**.



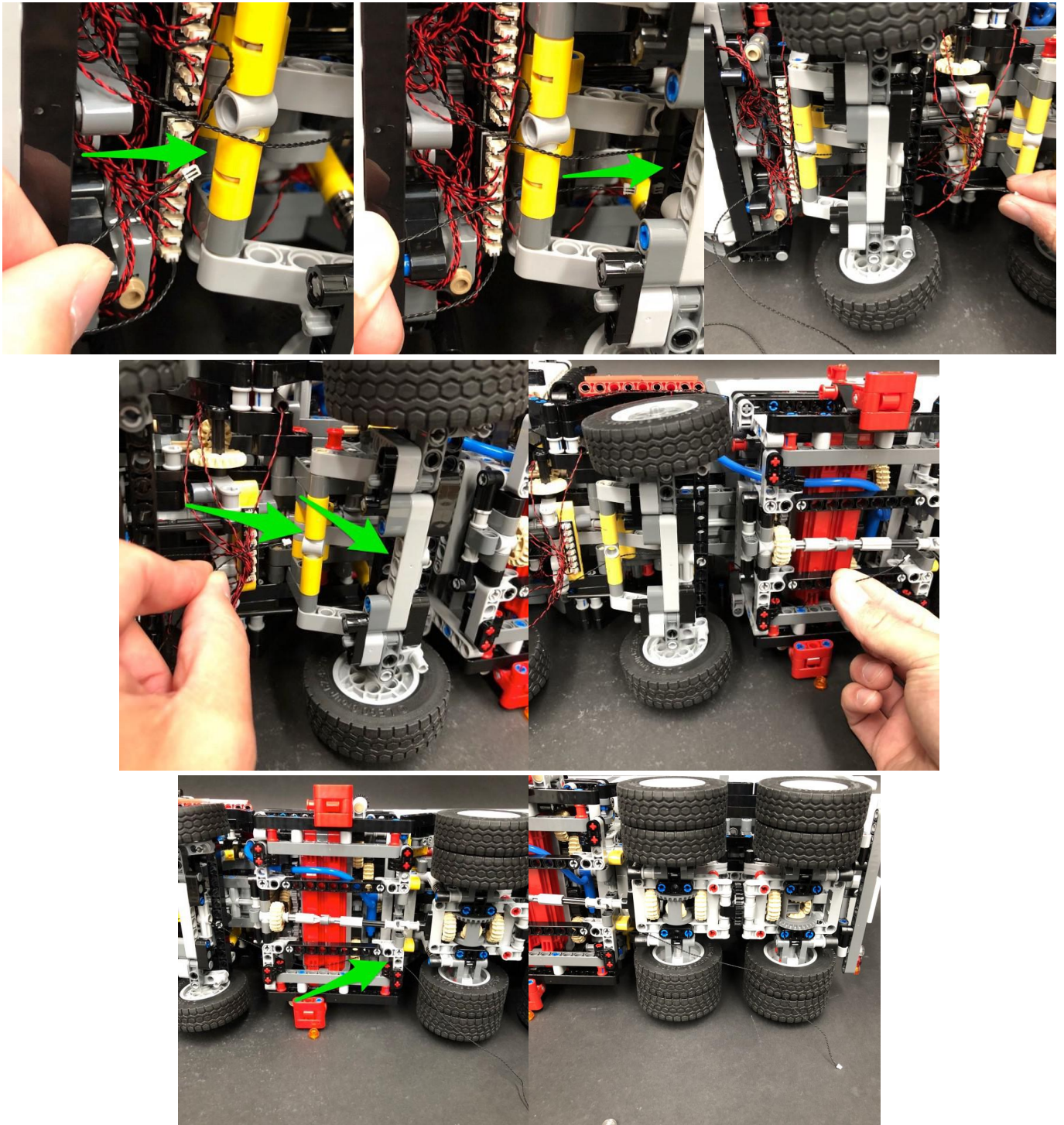
Neaten up excess cable from all the Dot Lights by pulling them all the way out and then twisting them around each other and then tucking them up one of the spaces closest to the expansion board.



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



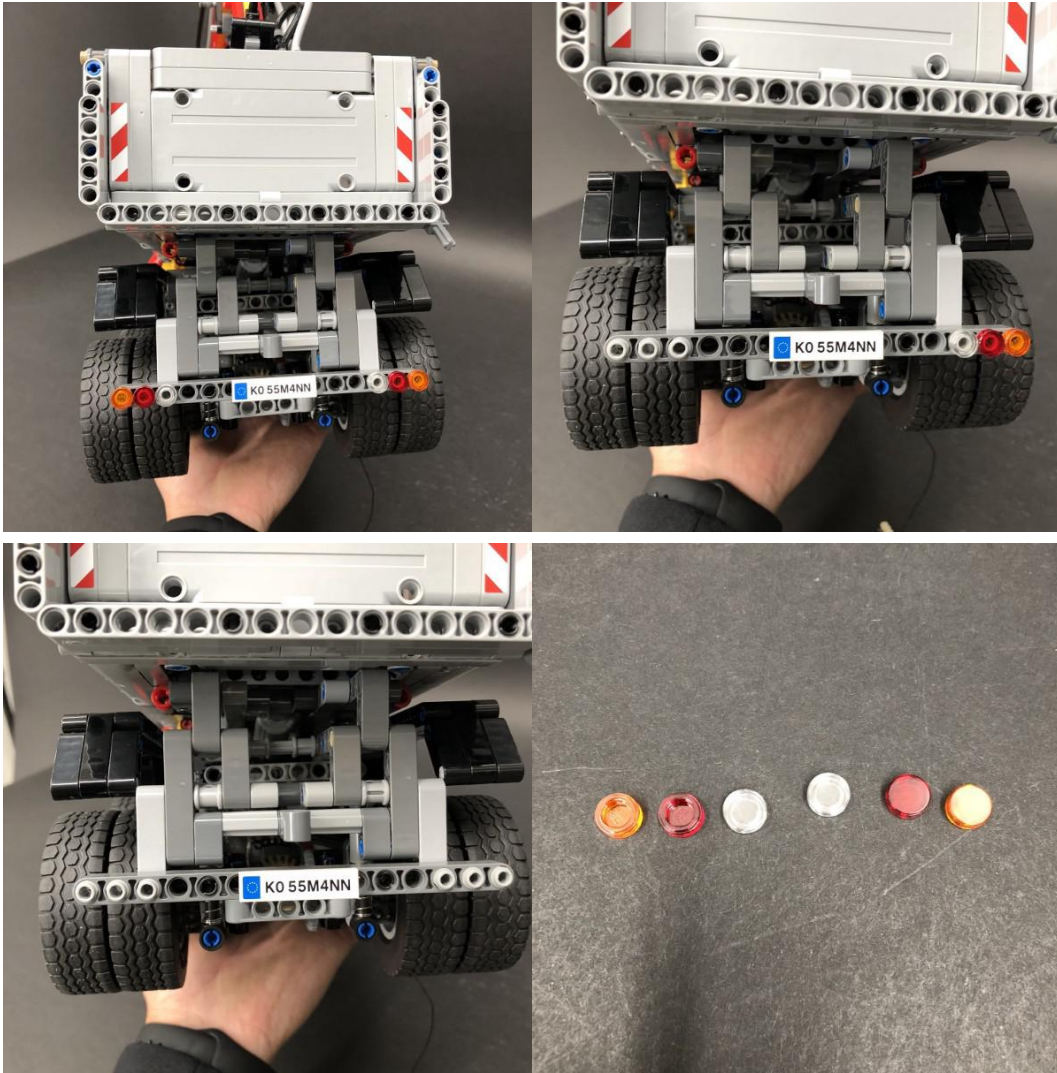
Follow the below images to thread the other end of the cable through towards the back underneath the truck through the following holes and gaps.



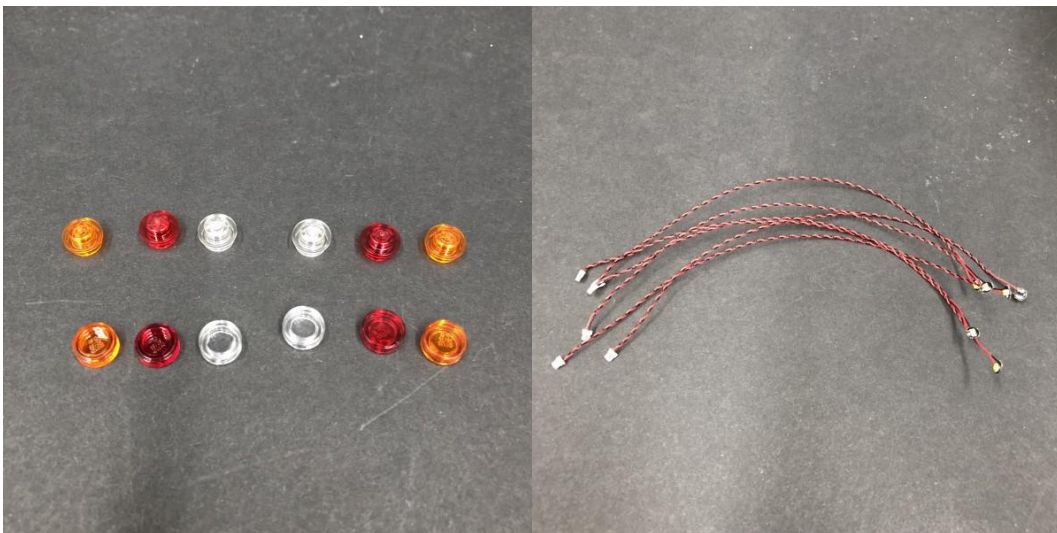
27.) Connect the other end of the 50cm Connecting Cable to the first port on the remaining **8-Port Expansion Board**.



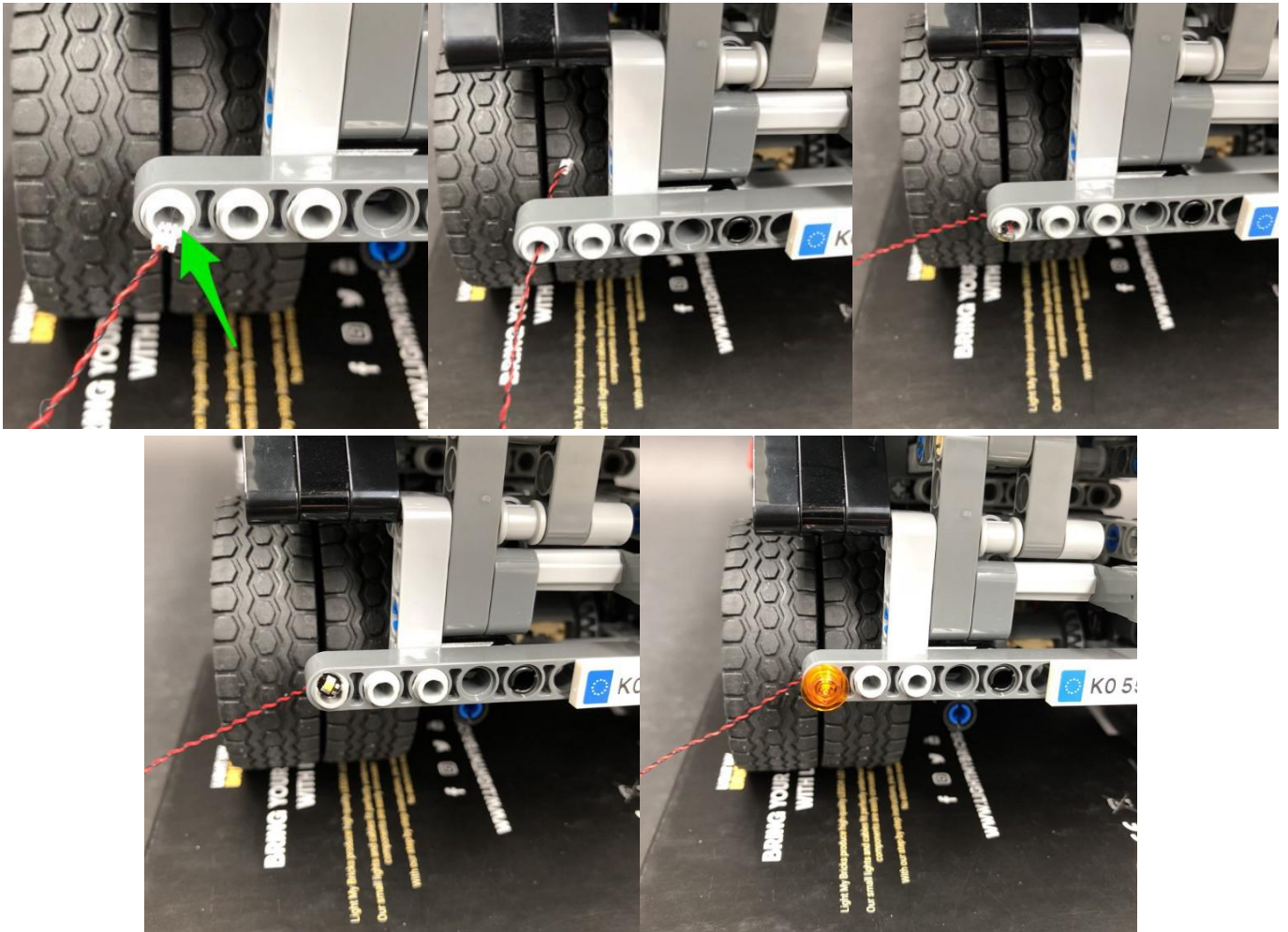
28.) Turn the truck over to the back and then remove the three trans coloured round tiles (orange, red, clear) from each side.



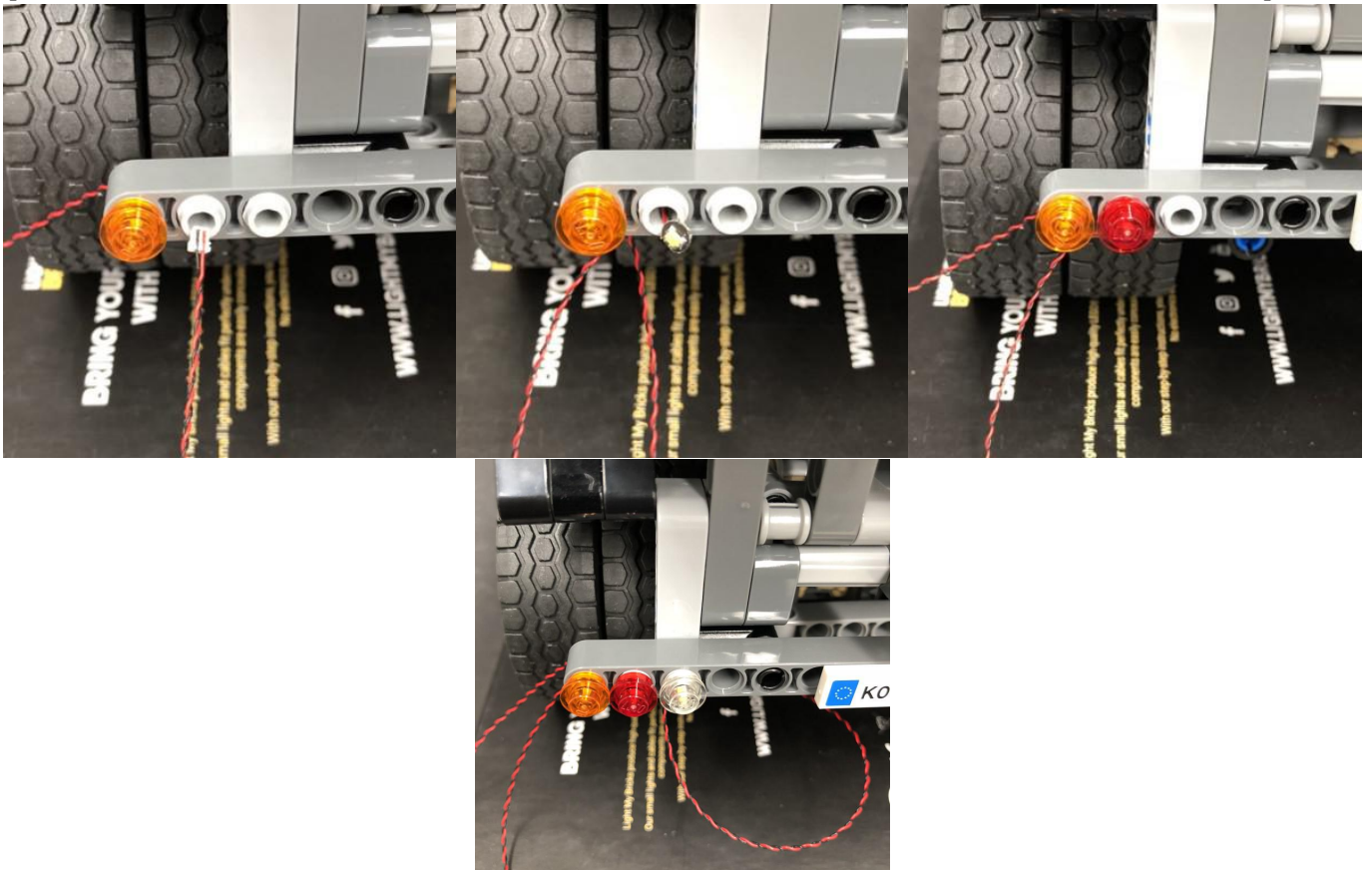
We will installing another 6x White 15cm Dot Lights and replacing the round tiles with the provided trans coloured plates.



29.) Take the first **White 15cm Dot Light** and thread it through the first hole on the left side. Thread it all the way through and then push the Dot Light flat down against the edge of the technic pin before securing it in place with one **Trans Orange Round Plate 1x1**.

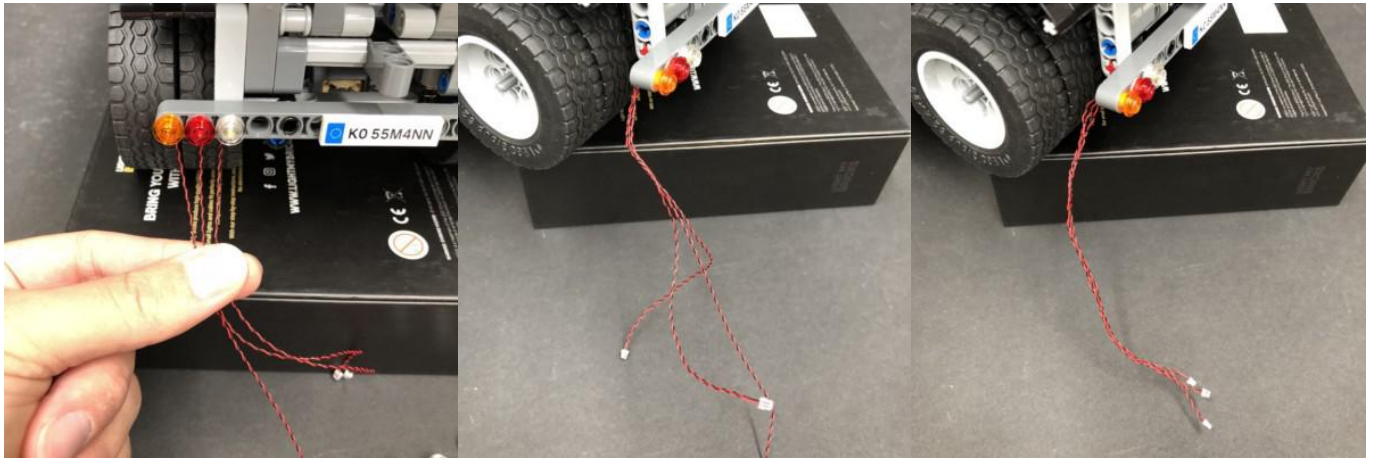


Using the same method, install another **2x White 15cm Dot Lights** for the left side of the truck using a provided **Trans Red Round Plate 1x1** and **Trans Clear Round Plate 1x1** to secure them in place.

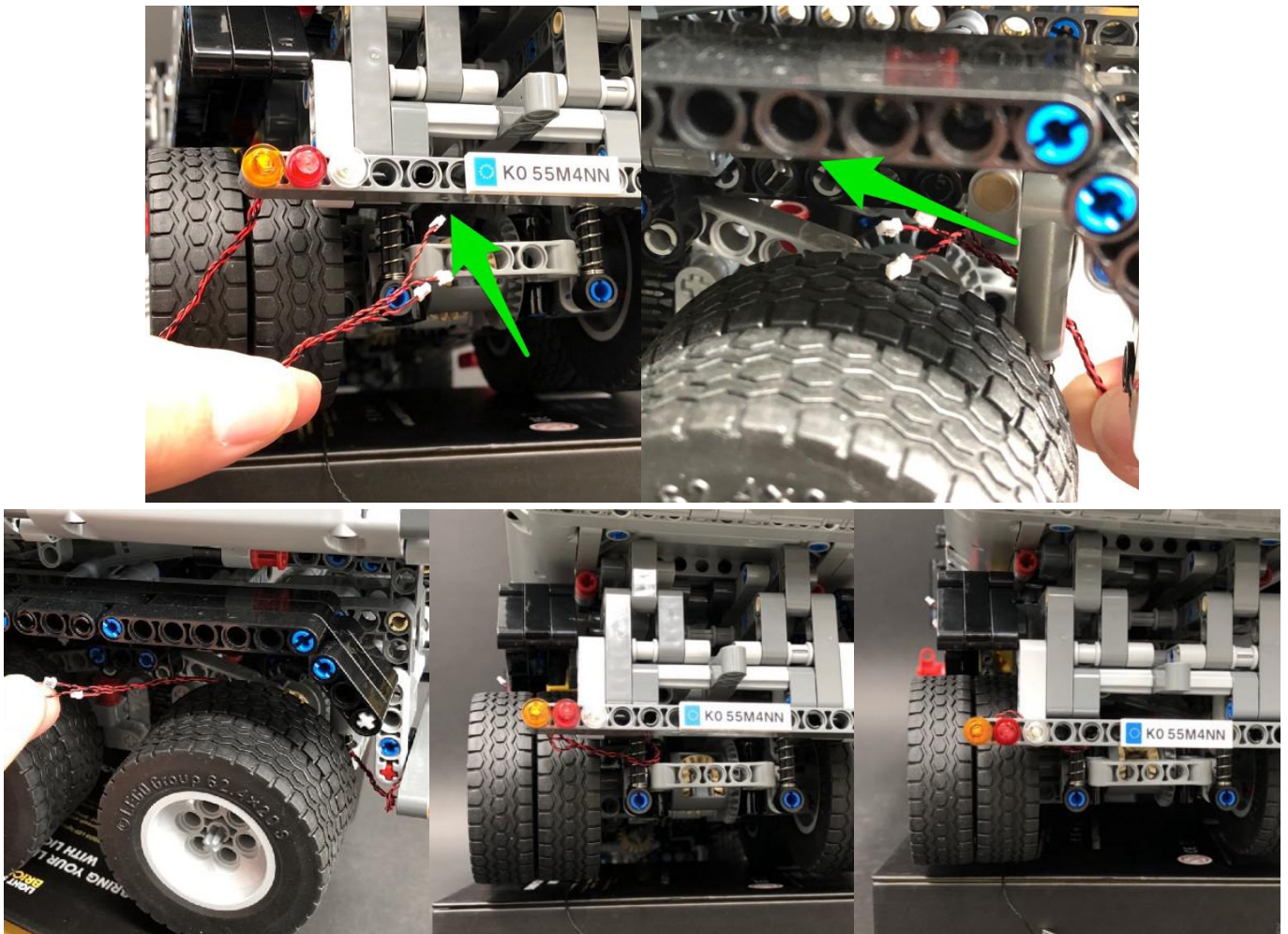


30.) Take the three cables from the left side and then twist them around each other to form one large

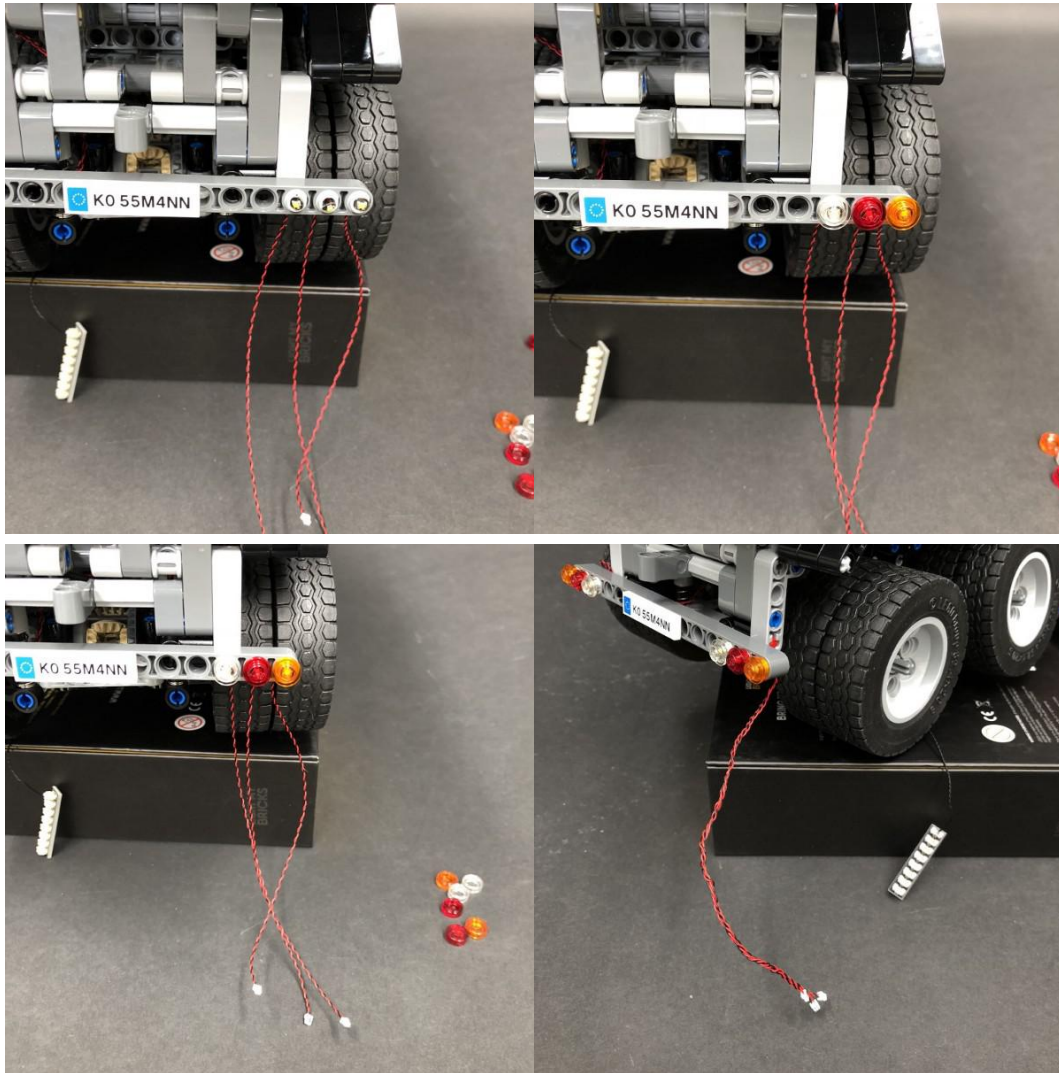
cable.



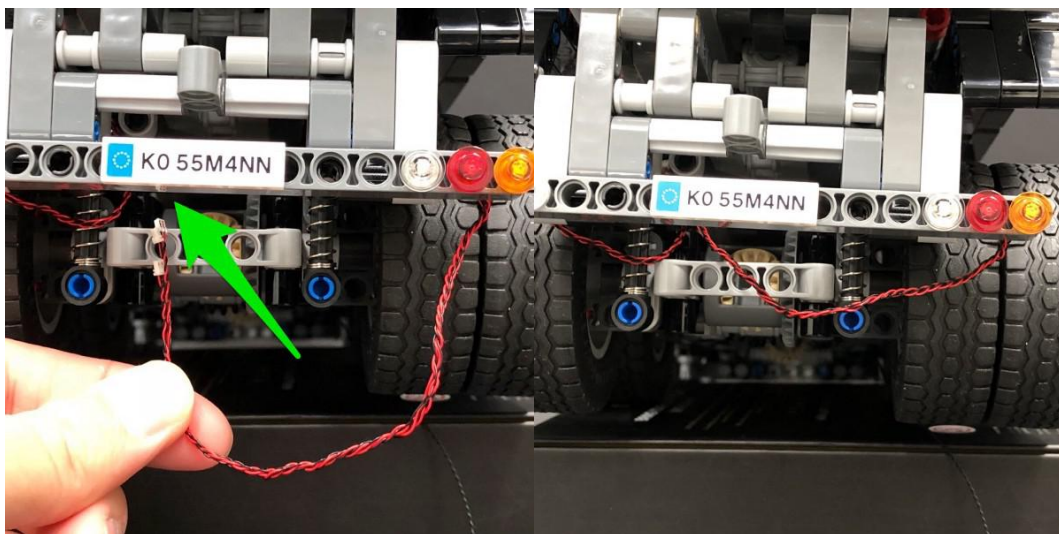
Thread the cable up through the following space underneath and then pull it all the way out from the back as per below



31.) 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**

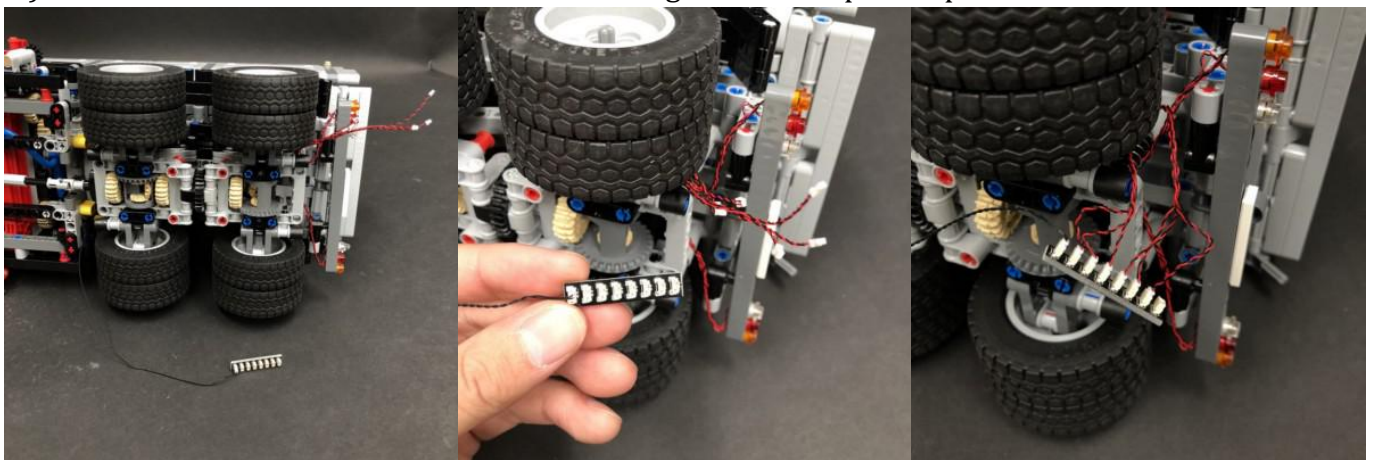


32.) Thread the cable up through the following space underneath and then pull it all the way out the left side (same with the left side cable). Then bring all cables together and pull them down behind the wheel.

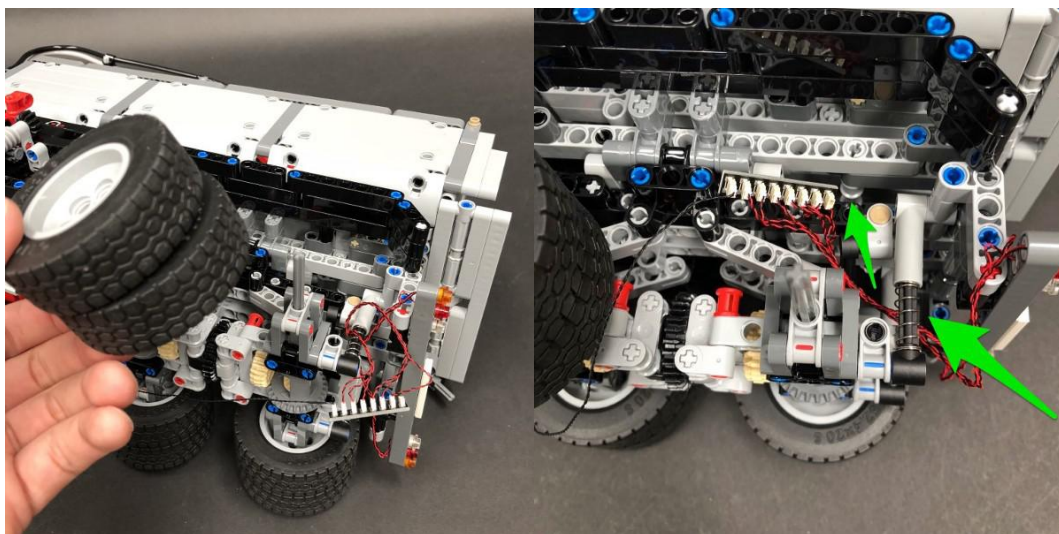




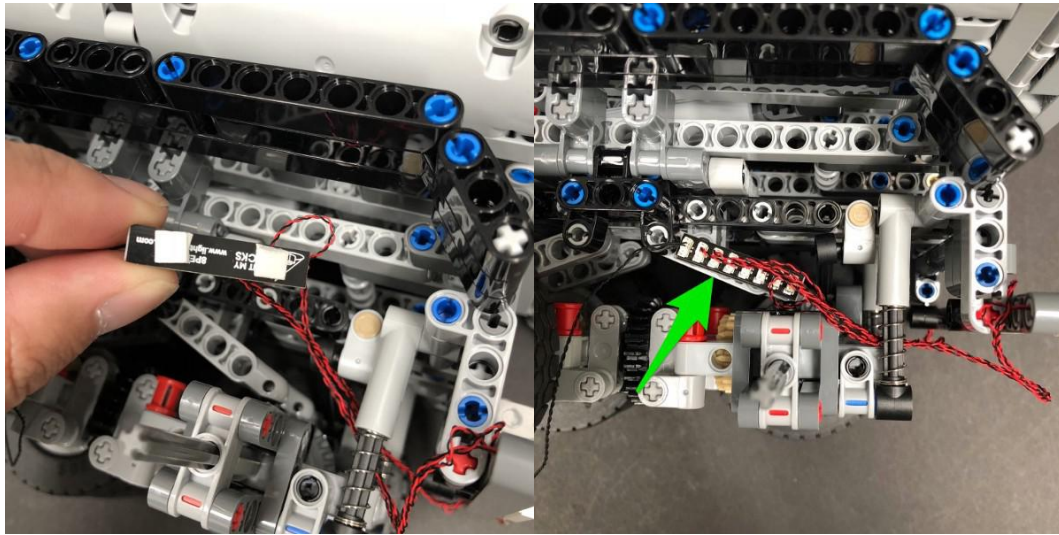
33.) Turn the truck over and then connect all six lights to the 8-port Expansion Board.



34.) Remove the back left wheel and then disconnect the 50cm connecting cable from the expansion board and thread the expansion board through the following space. Then pull it over the wheel axle and reconnect the 50cm connecting cable



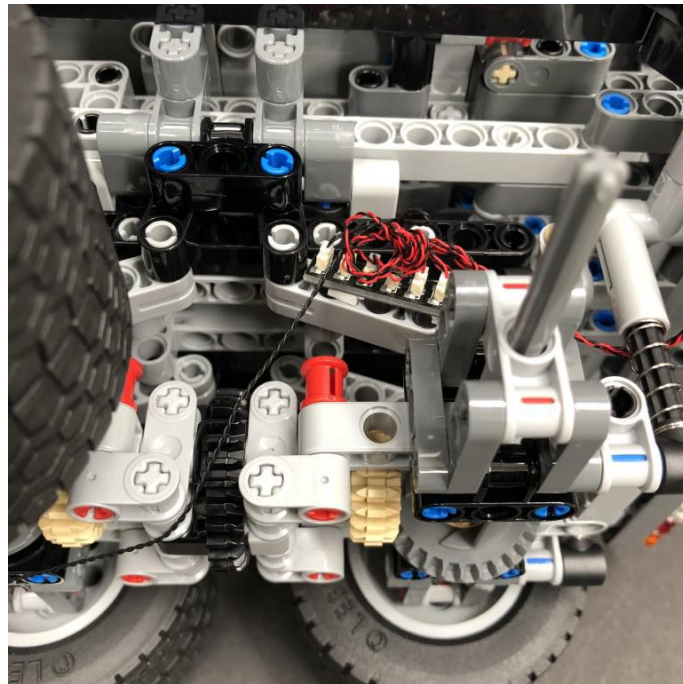
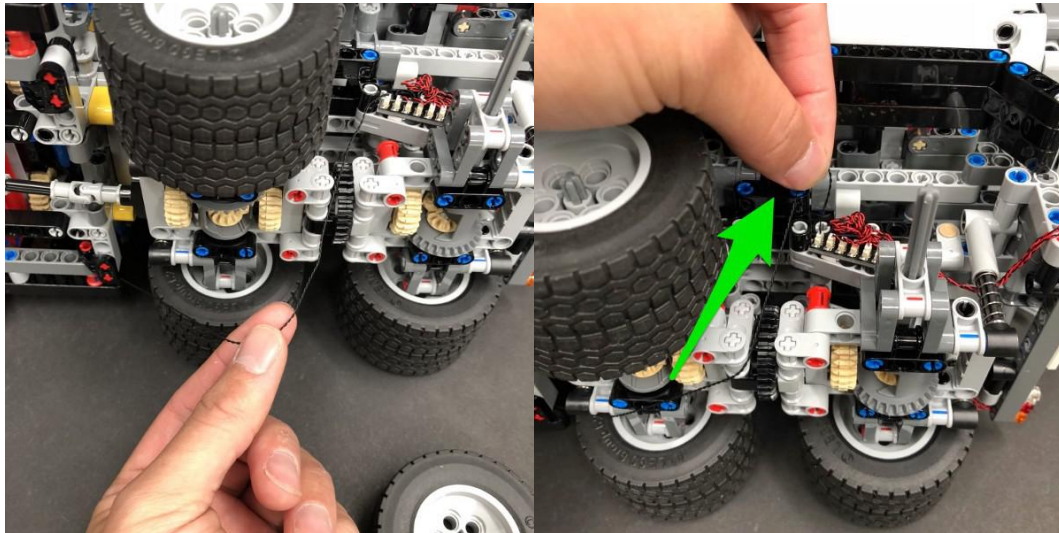
Mount the expansion board to the side frame in the following position using another **2x Adhesive Squares**.



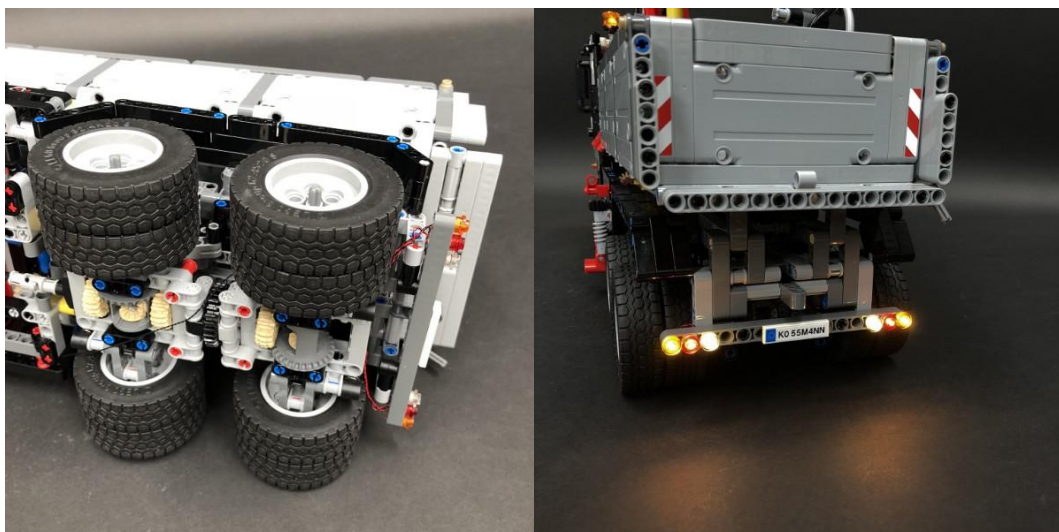
Pull the excess cable from the two sides back and then twist them around each other to secure them from dangling down and being seen from the back of the truck. Tuck them in close the expansion board.



35.) 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.



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



This finally completes installation of the Mercedes Benz Arocs Light Kit. We hope you enjoy your light kit.