

Light My Bricks: LEGO Hogwarts Express 75955 Lighting Kit



The following page is the instructions for the **Light My Bricks LEGO Hogwarts Express (75955) LED light kit**.

If you run into any issues, please refer to the **online troubleshooting guide**.

To ensure a trouble-free installation of your light kit, please read and follow each step carefully. These instructions can be downloaded in PDF format **here**

Please note: This page lists instructions for the LED light kit only. If you are wishing to purchase the Light My Bricks LEGO Hogwarts Express (75955) LED light kit, please click [here](#) to view the product page

Package Contents:

- 7x White 15cm Bit Lights
- 2x White 30cm Bit Lights
- 3x White Strip Lights
- 1x Flicker Effects Board
- 3x 6-Port Expansion Boards
- 1x 5cm Connecting Cables
- 3x 15cm Connecting Cables
- 1x 30cm Connecting Cables
- 1x AA Battery Pack
- 1x Round Battery Pack (requires 2x CR2032 Batteries)

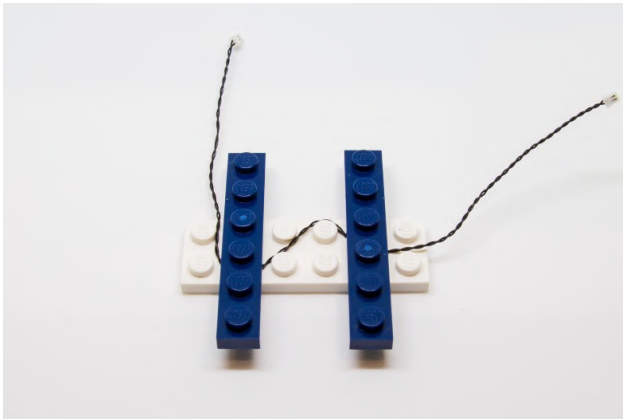
LEGO Pieces:

- 3x Plate 1×6 (any colour)
- 1x Trans Clear Plate 2×2 with Rounded Bottom
- 3x Trans Clear Round Plate 1×1

Important things to note:

Laying cables in between and underneath bricks

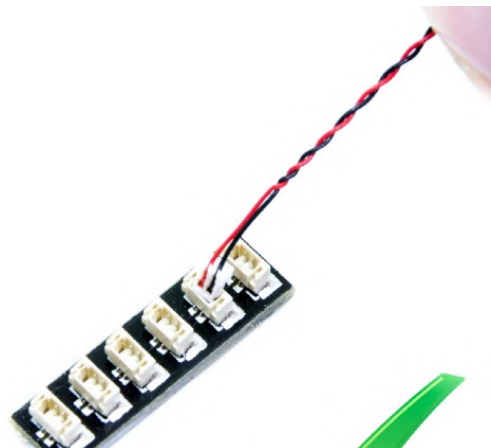
Cables can fit in between and underneath LEGO® bricks, plates, and tiles providing they are laid correctly between the LEGO® studs. Do NOT forcefully join LEGO® together around cables; instead ensure they are laying comfortably in between each stud.



CAUTION: Forcing LEGO® to connect over a cable can result in damaging the cable and light.

Connecting cable connectors to Expansion Boards

Take extra care when inserting connectors to ports of Expansion Boards. Connectors can be inserted only one way. With the expansion board facing up, look for the soldered “=” symbol on the left side of the port. The connector side with the wires exposed should be facing toward the soldered “=” symbol as you insert into the port. If a plug won’t fit easily into a port connector, do not force it.





Incorrectly inserting the connector can result in bent pins inside the port or possible overheating of the expansion board when connected.

Connecting cable connectors to Strip Lights

Take extra care when inserting connectors to ports on the Strip Lights.

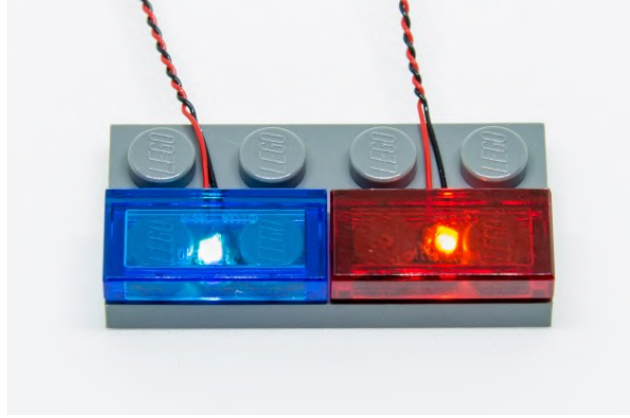
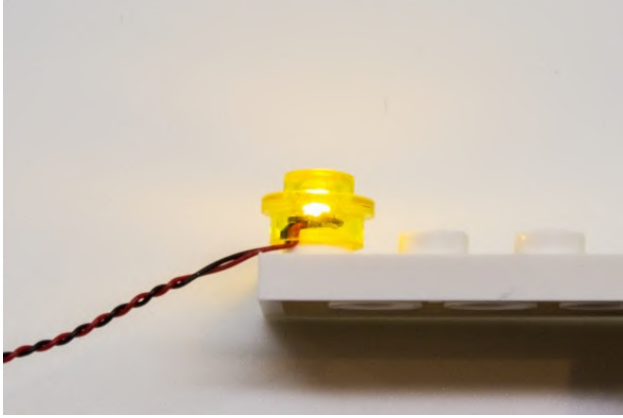
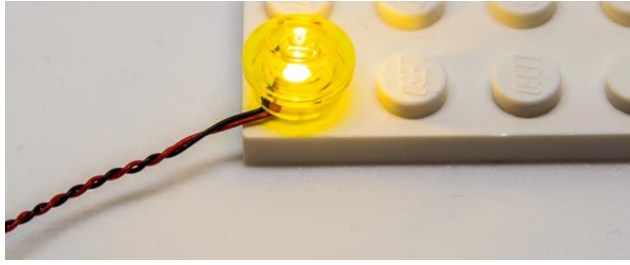
Connectors can be inserted only one way. With the Strip Light facing up, ensure the side of the connector with the wires exposed is facing down. If a plug won't fit easily into a port connector, don't force it. Doing so will damage the plug and the connector.



Installing Bit Lights under LEGO® bricks and plates.

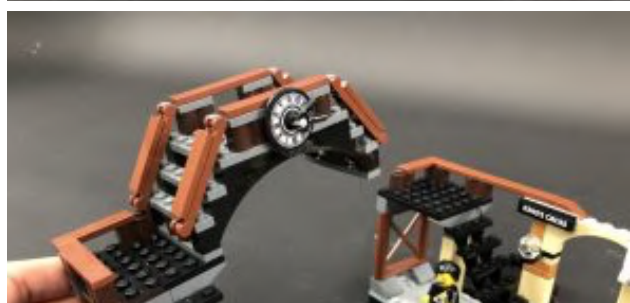
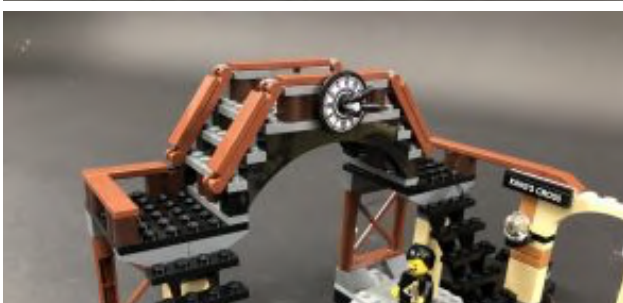
When installing Bit Lights under LEGO® pieces, ensure they are placed the correct way up (Yellow LED component exposed). You can either place them directly on top of LEGO® studs or in between.

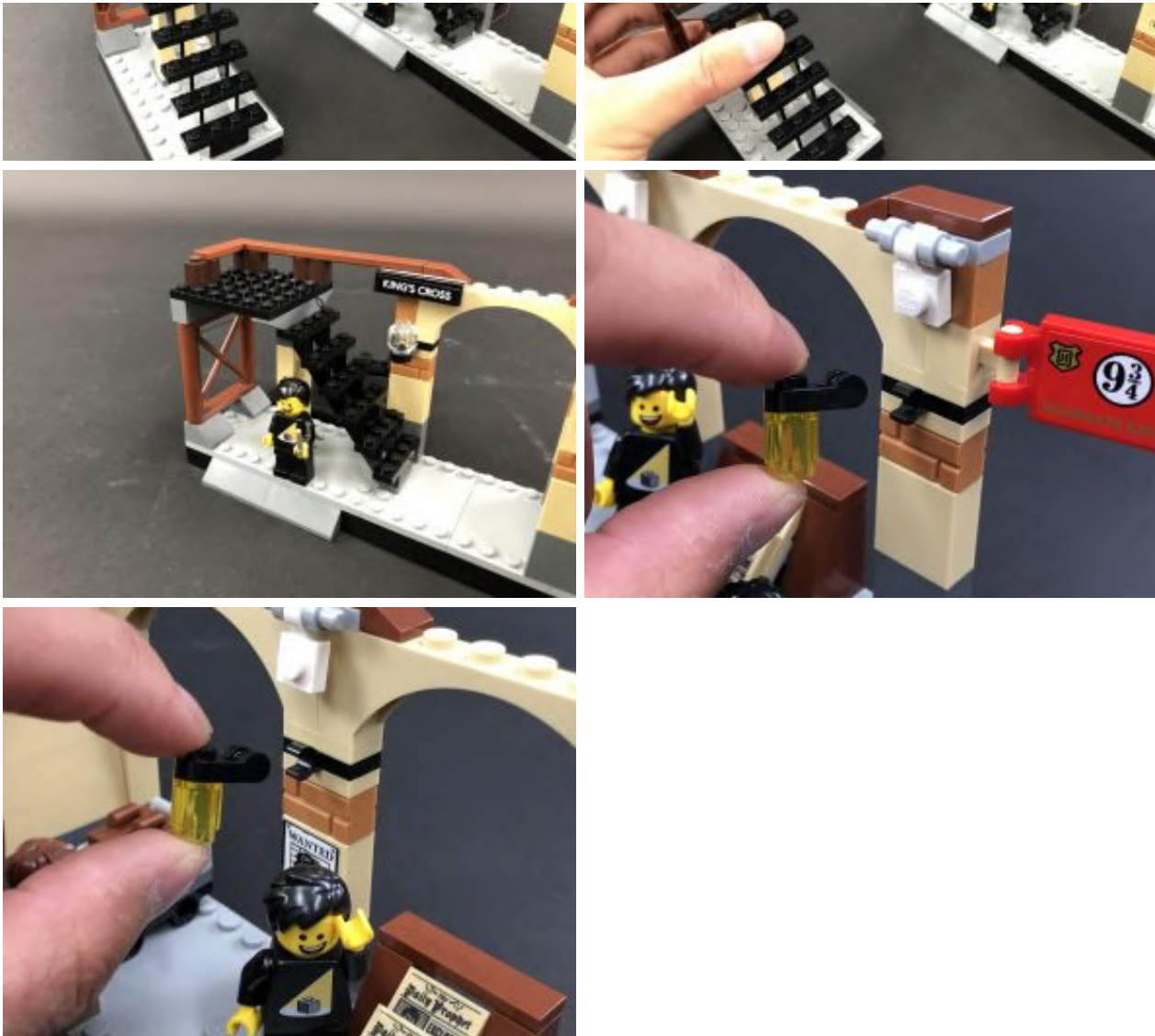




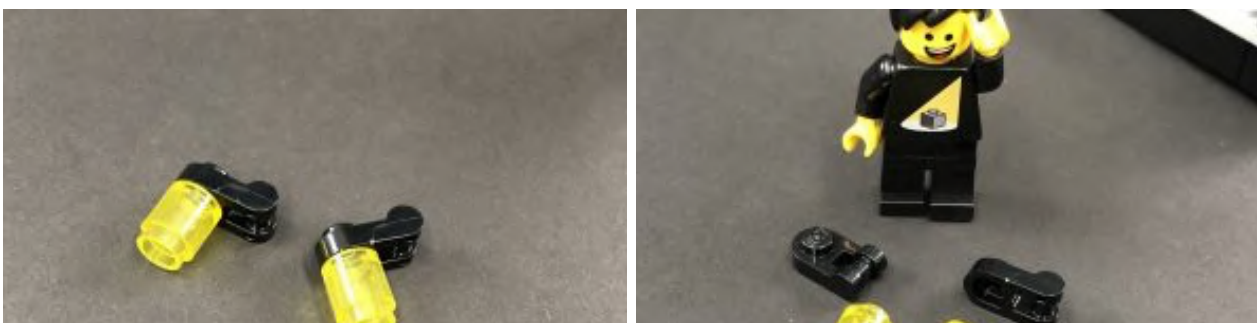
OK, Let's Begin!

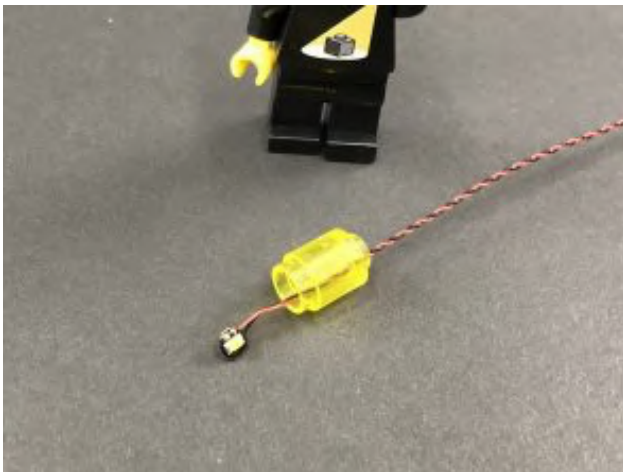
1.) We will first light up the train station. First remove the train, then disconnect the bridge section and the following lamp sections by unclipping them from the wall.



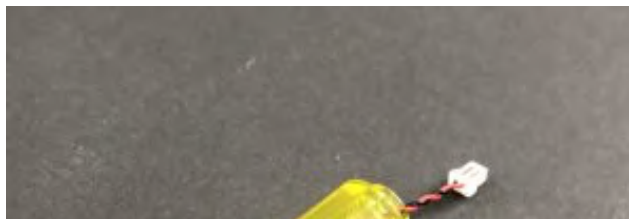
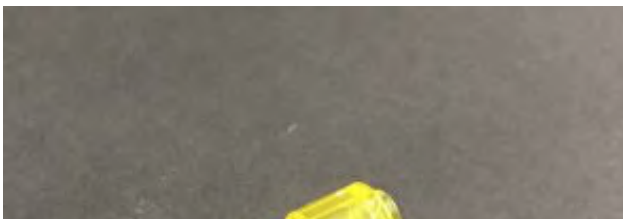


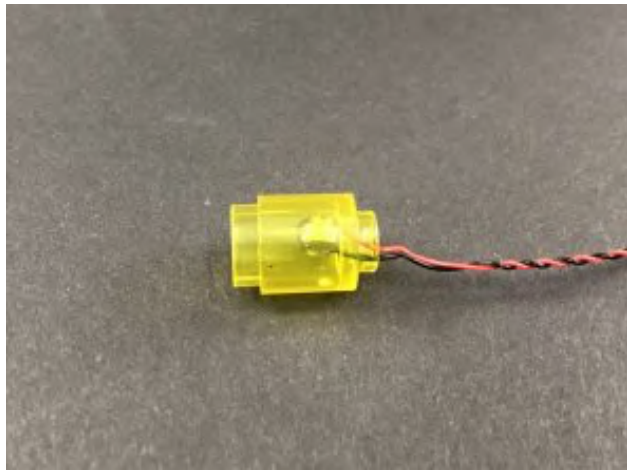
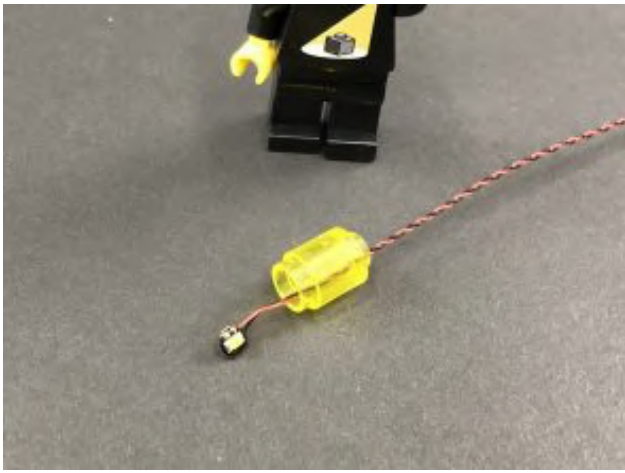
2.) Disassemble the lamps as shown below, then take a **White 30cm Bit Light** and thread the connector end of the cable through the base (larger hole) of the trans yellow round brick. Thread it all the way in, then secure it in place by reconnecting the black clip on top. Ensure the LED on the bit light is facing the front of the brick.





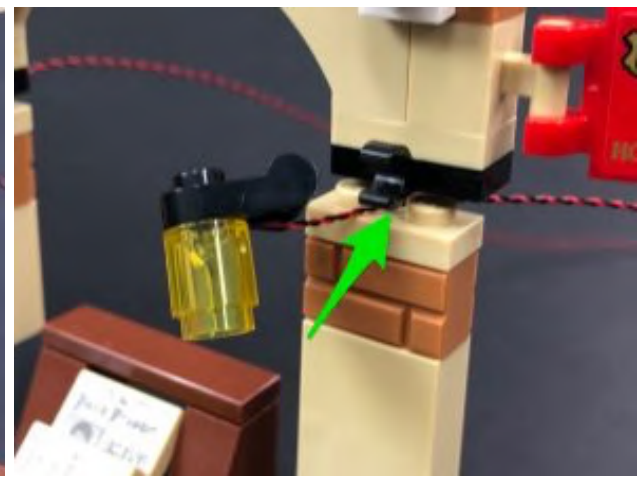
Repeat this process to install another **White 30cm Bit Light** to the other lamp.





3.) Carefully disconnect the upper part of the wall so that it creates a gap where the lamps were connected to. Thread each lamp cable all the way through this space, then reconnect the lamp to the clip. Ensure the cables are laid neatly in between the studs as shown below:





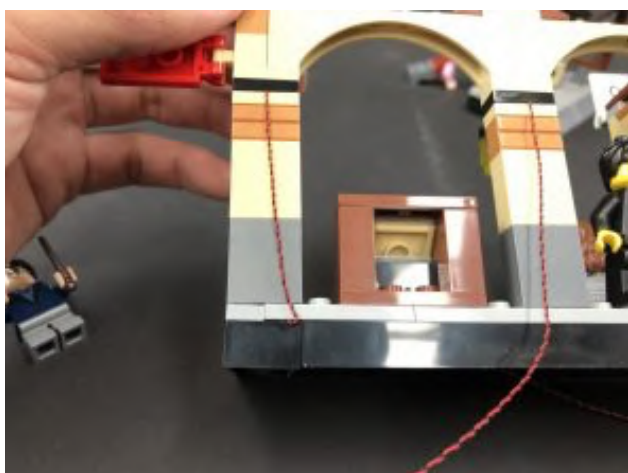
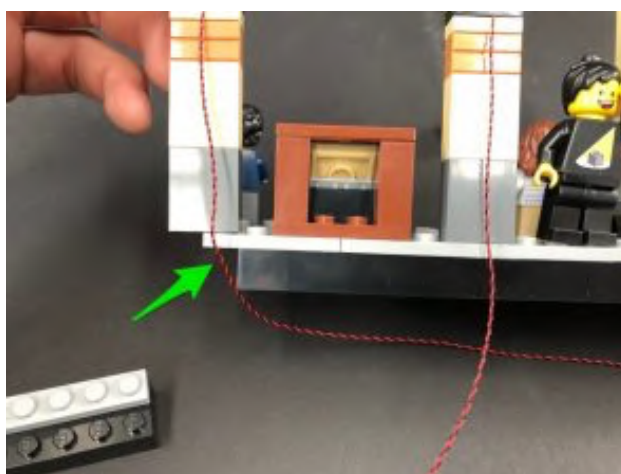
Once the lamps are reconnected, carefully reconnect the upper wall section to close up the gap while ensuring the cables are laid neatly in between studs.

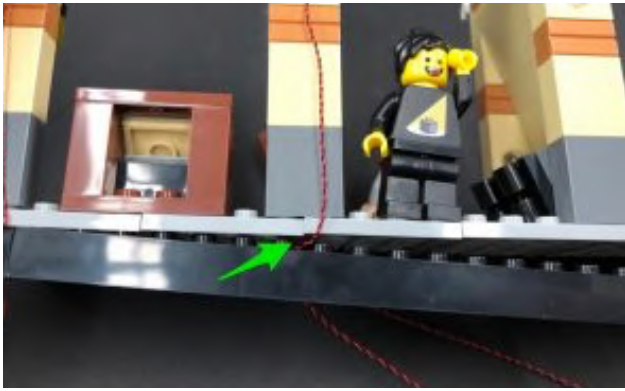


4.) Turn the station around to the back and fold down the cables against the wall so they run flat down the wall.

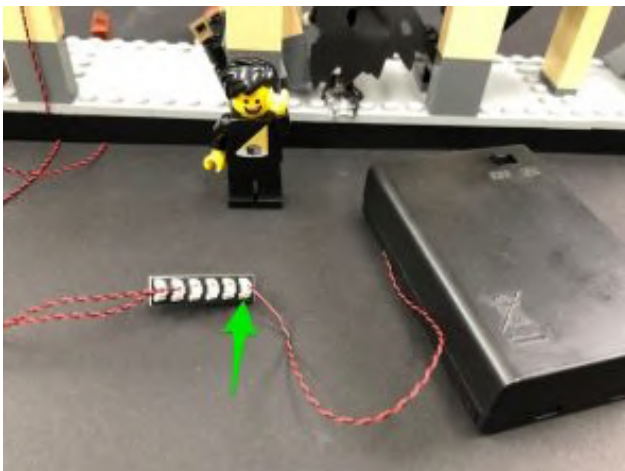


Secure the cables underneath the following bricks. First disconnect each brick, bring the cable inside, then reconnect the brick while ensuring the cable is laid in between studs. This will also eliminate unwanted cable from behind the set.





5.) Take a **6-Port Expansion Board** and connect the two bit light cables to it. Take your **AA Battery Pack** and insert 3x AA Batteries to it. Connect the battery pack to the expansion board and turn it ON to test the lights we have installed so far are working OK.



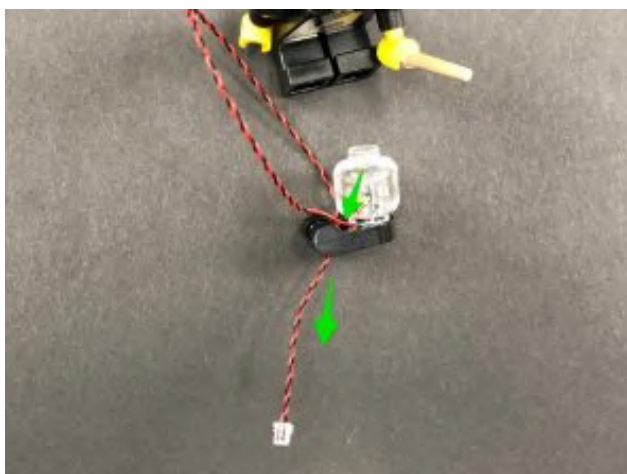
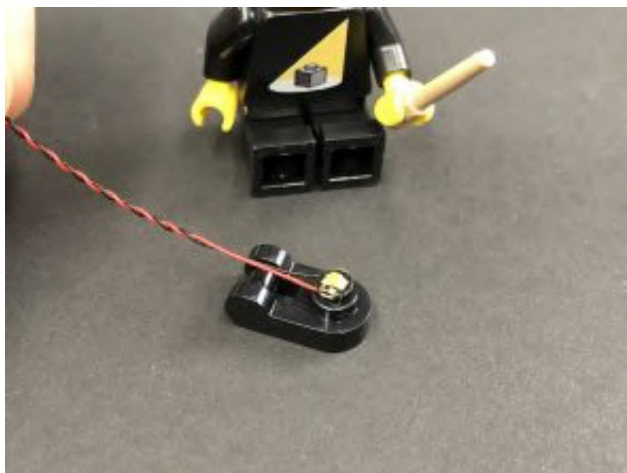
*Note: If you experience any issues with the lights not working and suspect an issue with a component, please try a different port on the expansion board to verify where the fault lies (with the light or expansion board). To correct any issues with expansion board ports, please view the section addressing expansion board issues on our **online troubleshooting guide**.*

6.) We will now light up the remaining wall lamp. First disconnect it then remove the black plate with clip from underneath.

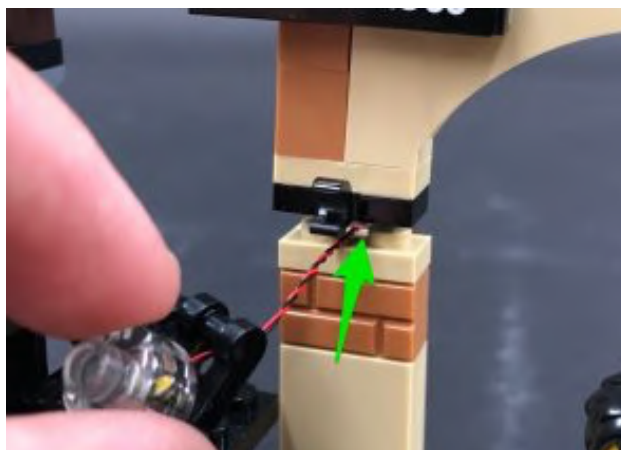


Take a **White 15cm Bit Light** and with the cable facing the clip, lay it over the stud. Secure it in place by reconnecting the lamp piece over the top. Thread the cable through the top of the black plate's clip, then pull it all the way out from

underneath as shown below:

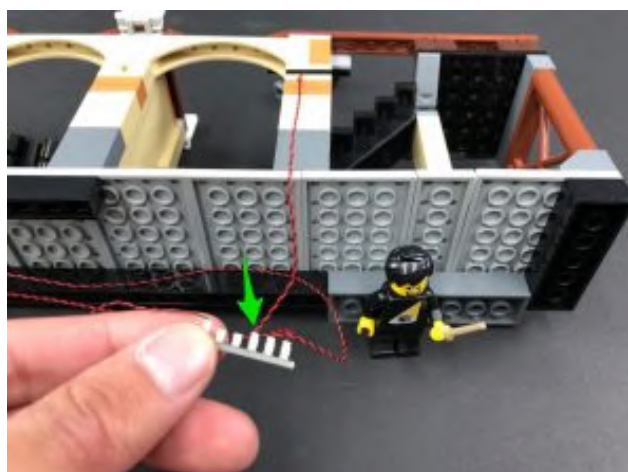
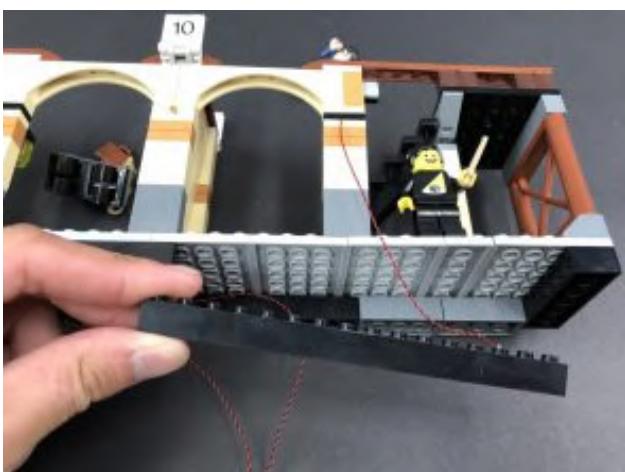
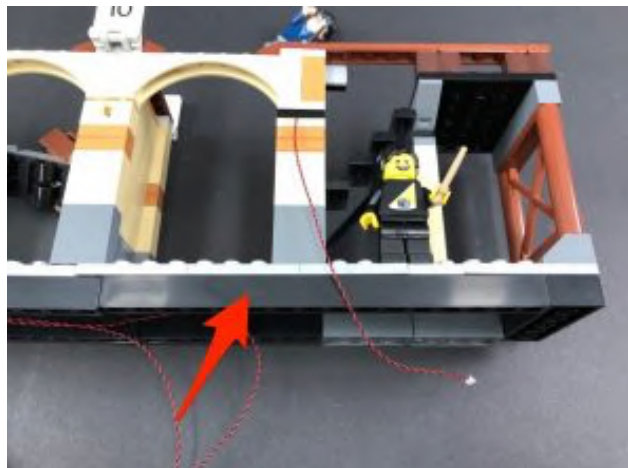
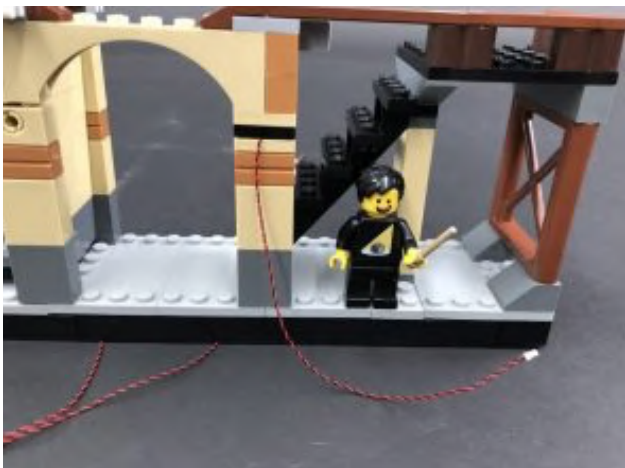


7.) Carefully disconnect the upper section of the wall to create another gap, then thread the bit light cable through the gap in between studs. Reconnect the lamp back to the wall, then close up the gap ensuring the cable is neatly laid in between studs.





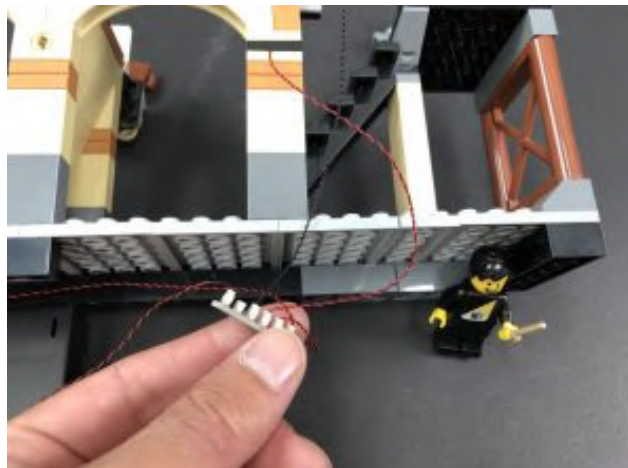
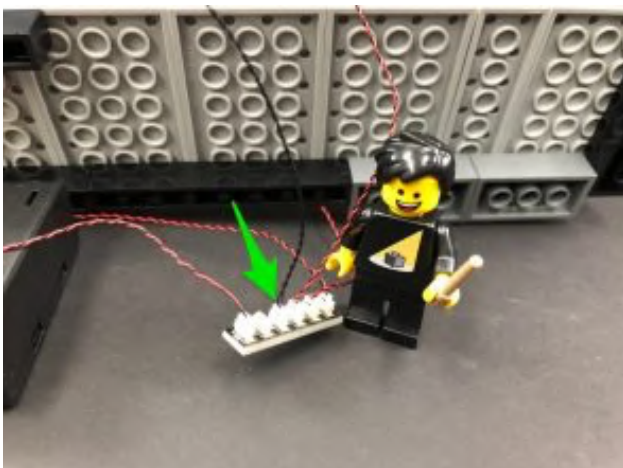
Turn the set around to the back again and fold the cable down along the back of the wall. Turn the set onto it's front so we can access underneath, then disconnect the long black brick. Connect the bit light cable to the next spare port on the 6-port Expansion Board below, then turn ON the battery pack to test the light is working OK.

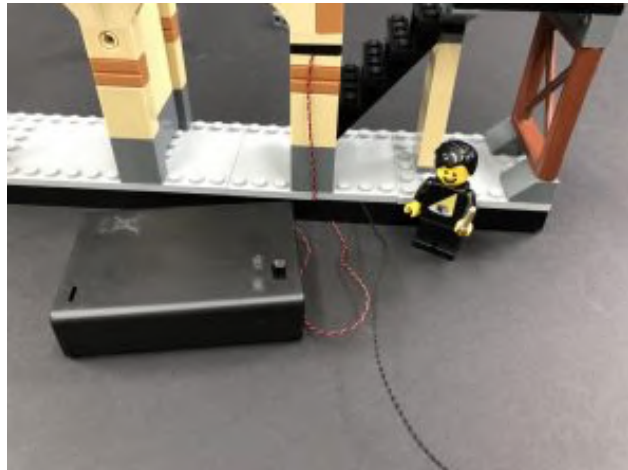
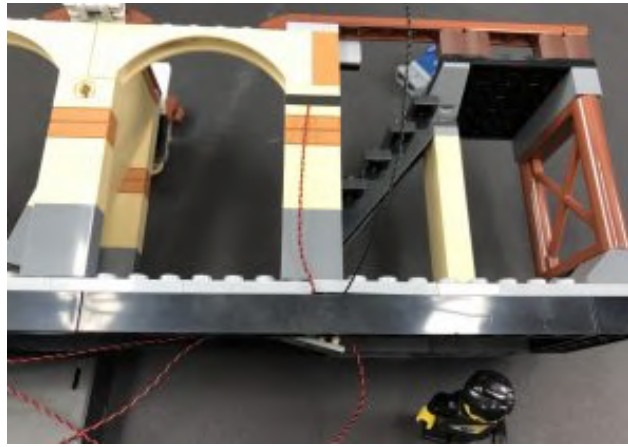
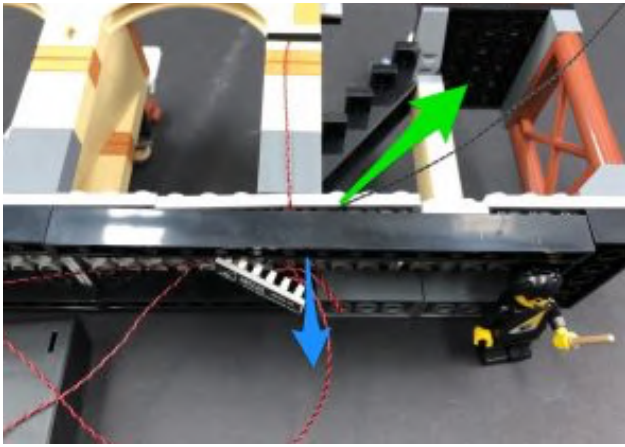




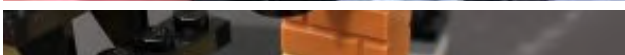
*Note: If you experience any issues with the lights not working and suspect an issue with a component, please try a different port on the expansion board to verify where the fault lies (with the light or expansion board). To correct any issues with expansion board ports, please view the section addressing expansion board issues on our **online troubleshooting guide**.*

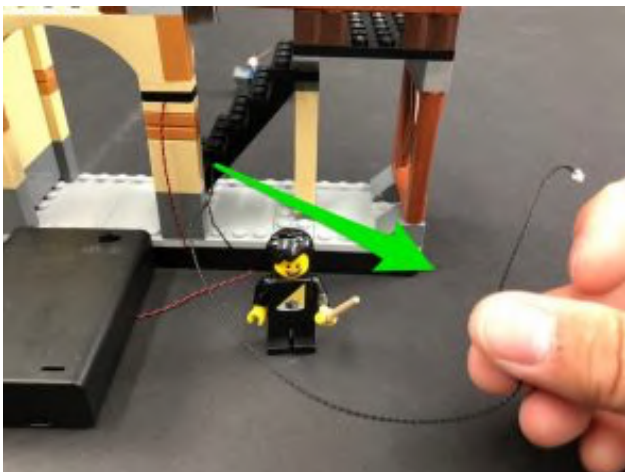
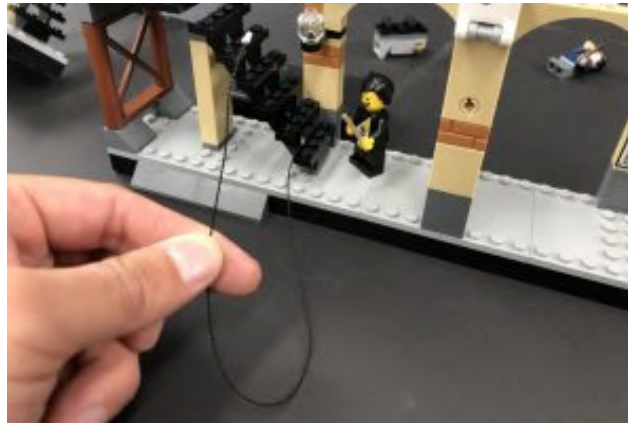
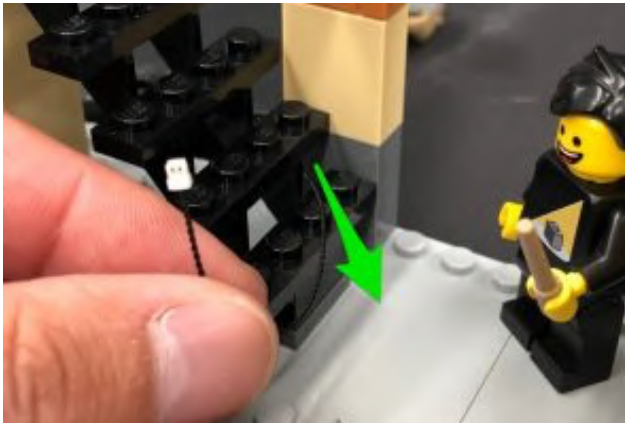
8.) Take a **30cm Connecting Cable** and connect it to a spare port on the expansion board, then reconnect the long black brick ensuring you first pull the 30cm cable all the way out, and pull the White 15cm Bit Light cable all the way inside. Also make sure each cable is laid in between studs before completely closing up the gaps.





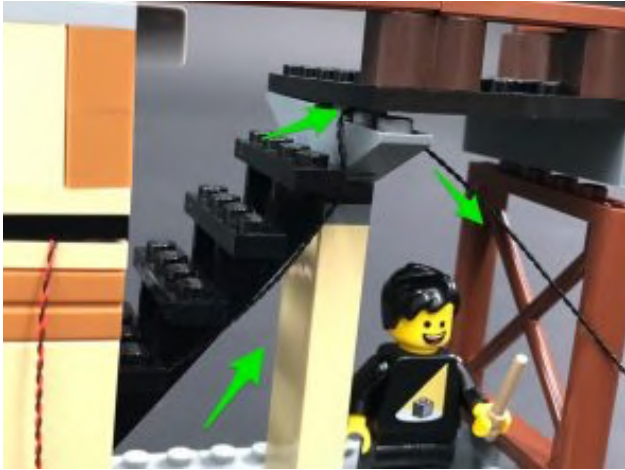
9.) From the back of the set, take the other end of the 30cm Connecting Cable and thread it through the first gap on the bottom of the steps, then pull the cable all the way out from the front. From the front of the set, thread the cable back through the next gap up the steps and pull it all the way out from the back of the set.



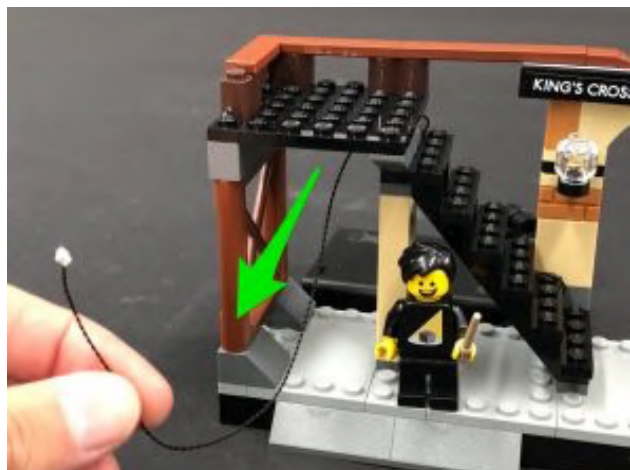


10.) Partially disconnect the top section above the steps to create a gap, then bring the cable all the way up and thread it in between studs through this gap we created. Pull the cable all the way out from the other side, then close up the gap ensuring the cable is laid in between the studs.

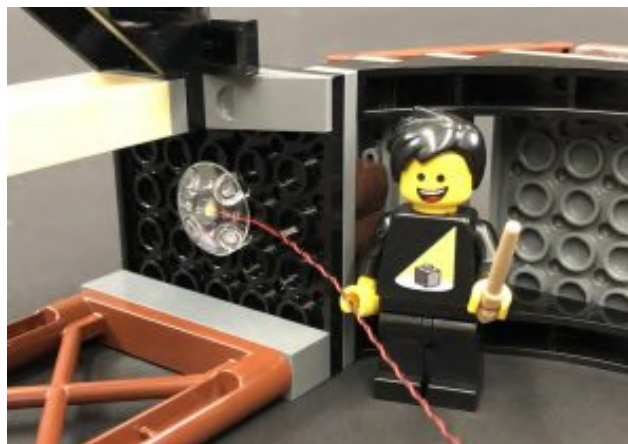
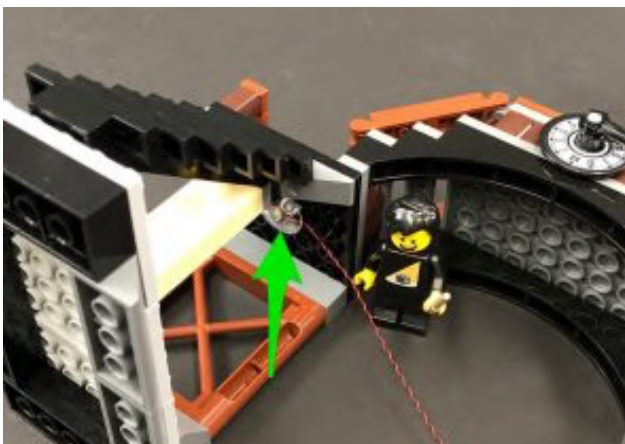


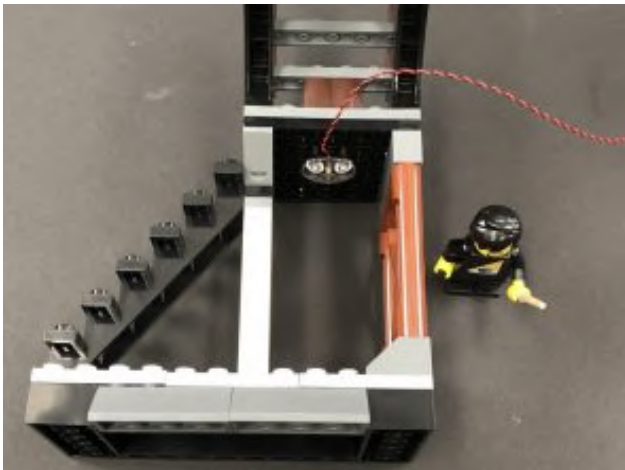
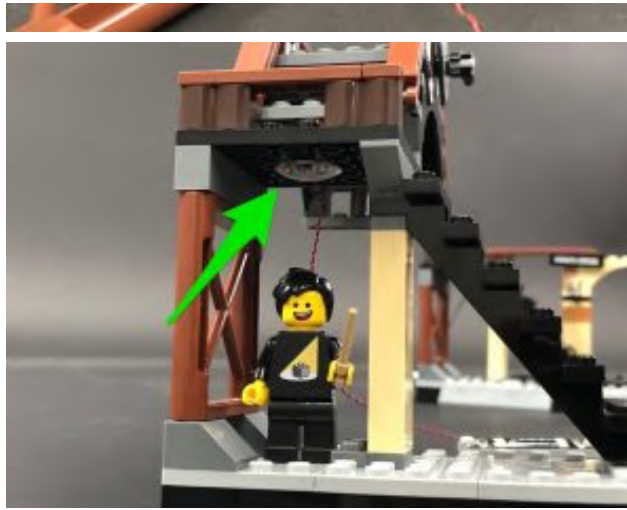
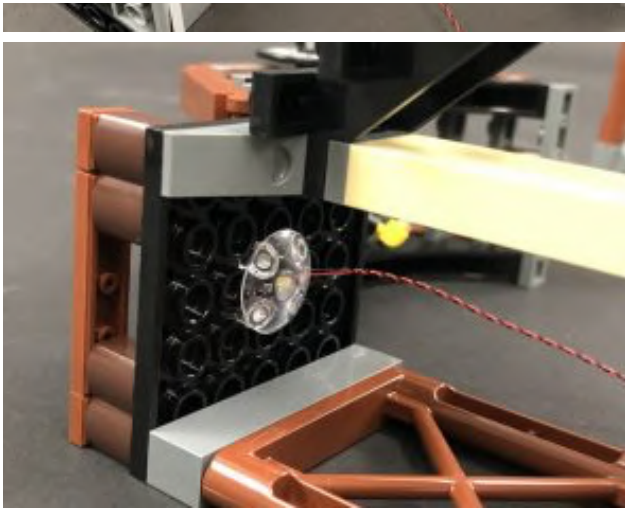


Thread the cable underneath to bring the cable around to the front side

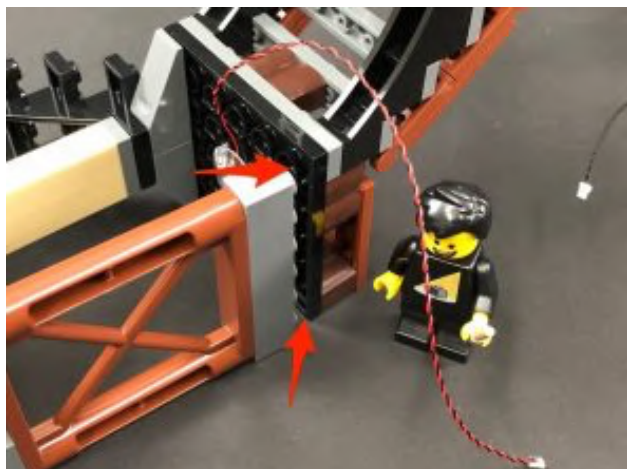
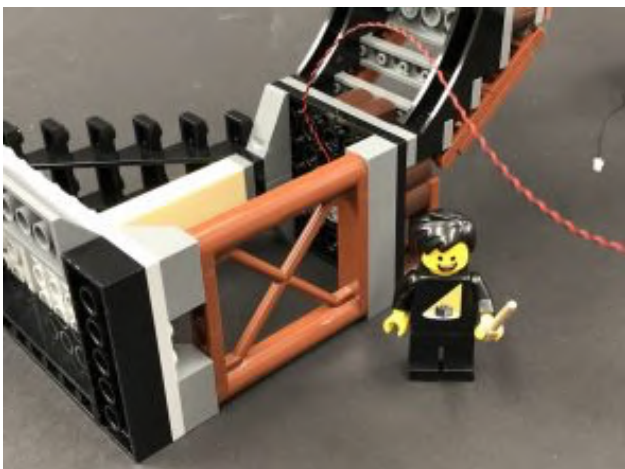


11.) Take the bridge section we removed earlier and turn it onto it's back so we can access underneath. Take a **White 15cm Bit Light** and a provided LEGO **Trans Clear Plate 2x2 with rounded bottom**. Use this LEGO piece to install the Bit Light underneath the front platform of the bridge by connecting it to the roof with Bit Light LED facing down the centre of the trans clear piece. Ensure the other end of the cable is facing the bridge.



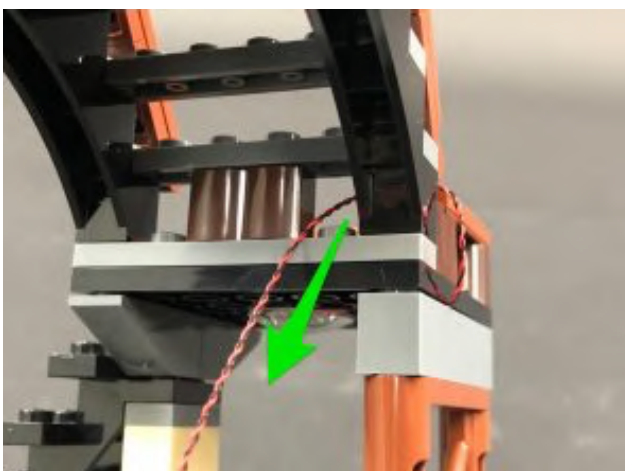
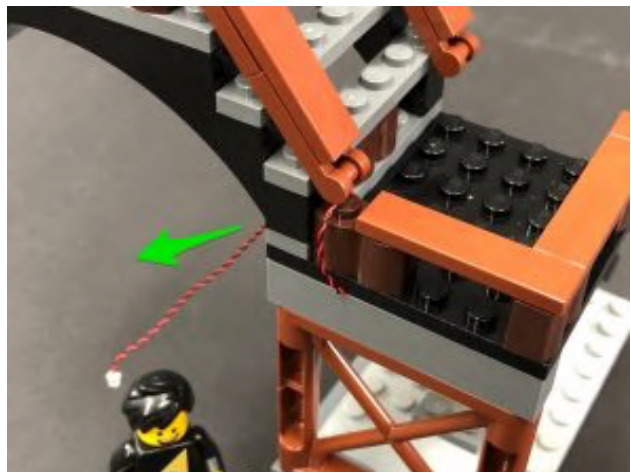
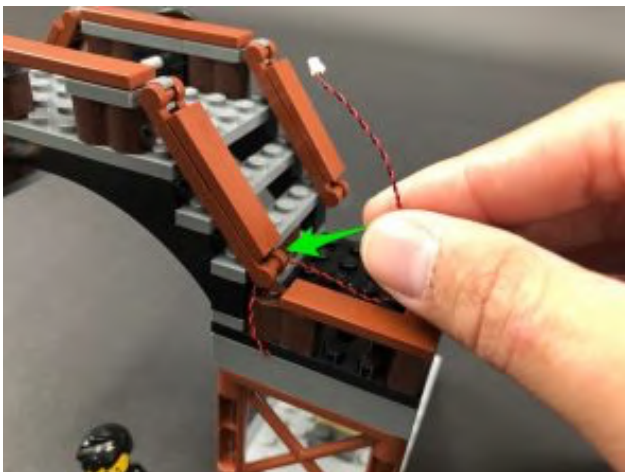
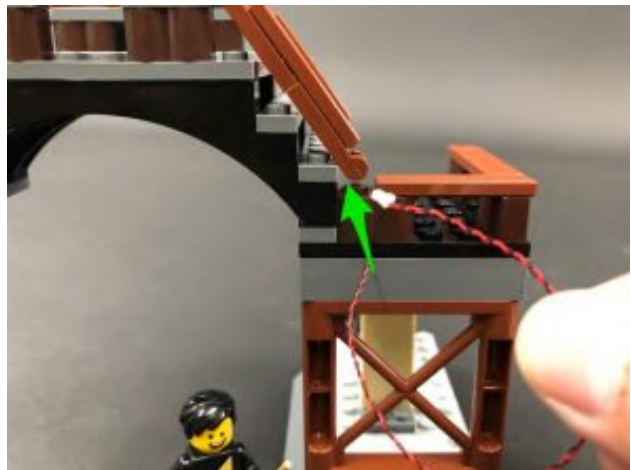


From the back of the bridge, partially disconnect the top section to create a gap above the dark grey brick. Bring the cable through this gap, then reconnect this section to close up the gap ensuring the cable is laid in between studs.

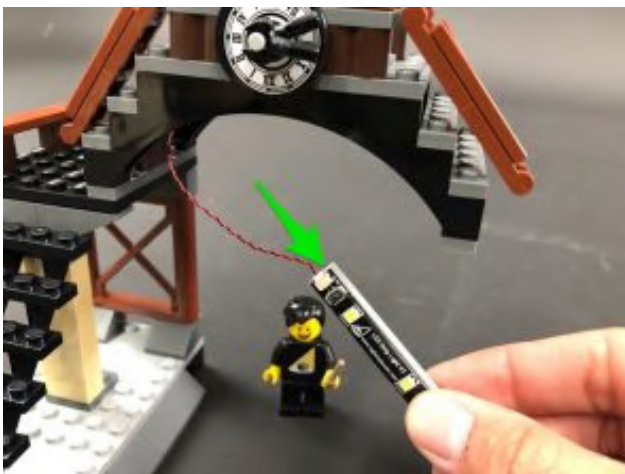




Follow the below images to continue to thread the cable around sections to eliminate excess cable:

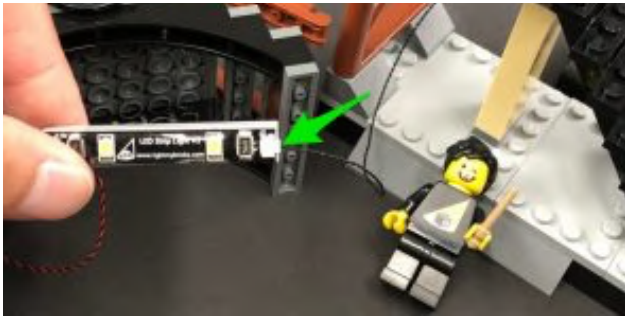


12.) Take a **White Strip Light** and using it's adhesive backing, stick it to the base of a provided **LEGO Plate 1x6**. Take the other end of the White 15cm Bit Light from underneath the bridge and connect it to the Strip Light.

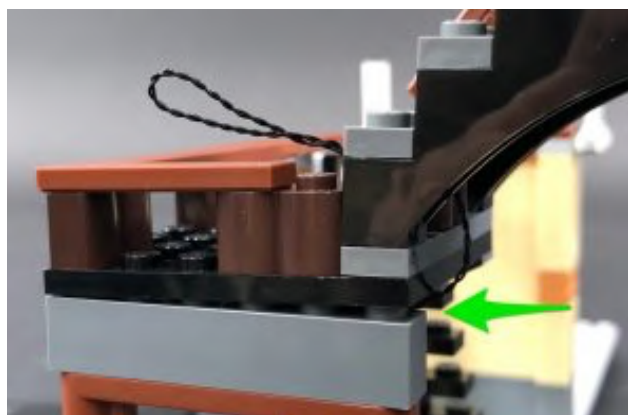
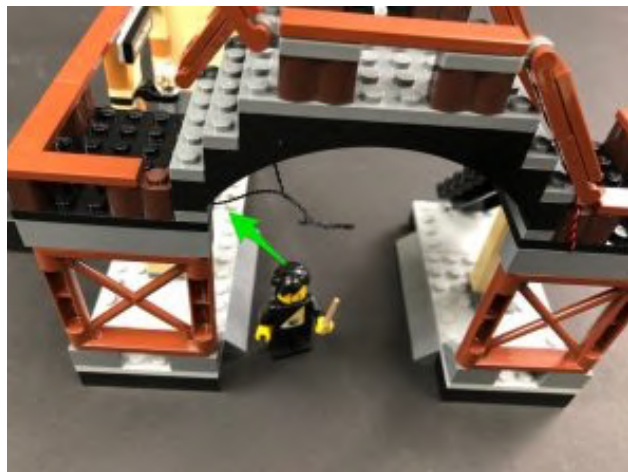


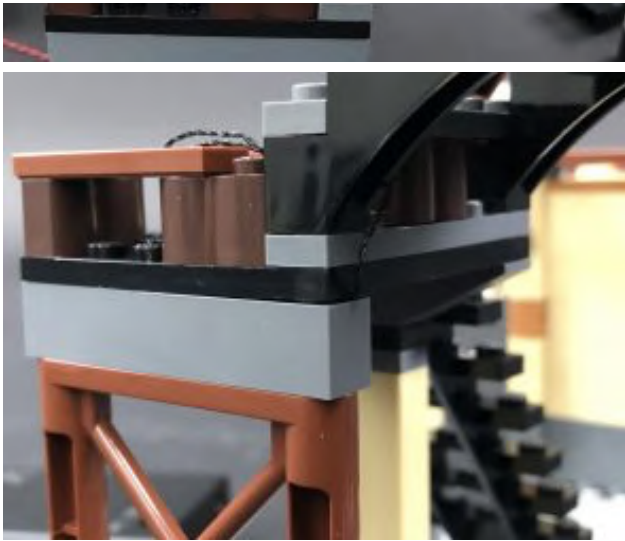
Take the other end of the 30cm Connecting Cable from the other side of the station and connect it to the other side of the Strip Light. Mount the strip light underneath the bridge in the following position, then reconnect the bridge to the train station. Eliminate excess cabling from the White 15cm Bit Light by looping the cable underneath the strip light's lego plate.



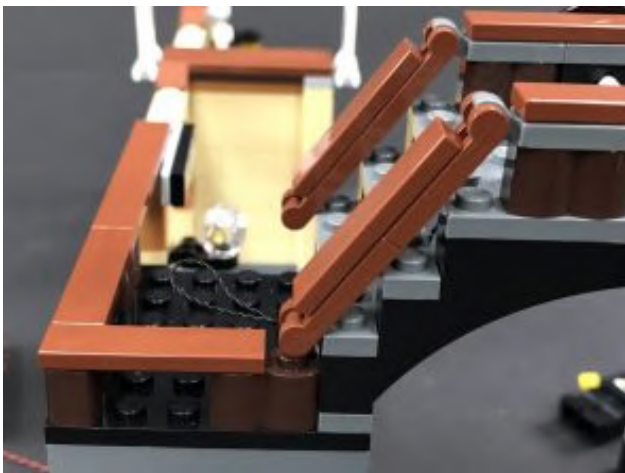


Eliminate excess cabling from the 30cm Connecting cable by twisting the cable around itself a few times, then tucking it in to the space underneath the steps as shown below ensuring they are tucked in between studs.





Follow the below images to continue to hide excess cables underneath and in between pieces.





Finally, turn ON the battery pack to test all lights installed to the train station are working OK.



13.) We will now light up the Hogwarts express train. First, disconnect the middle and back carriages, then disconnect the following sections from the front of the train.



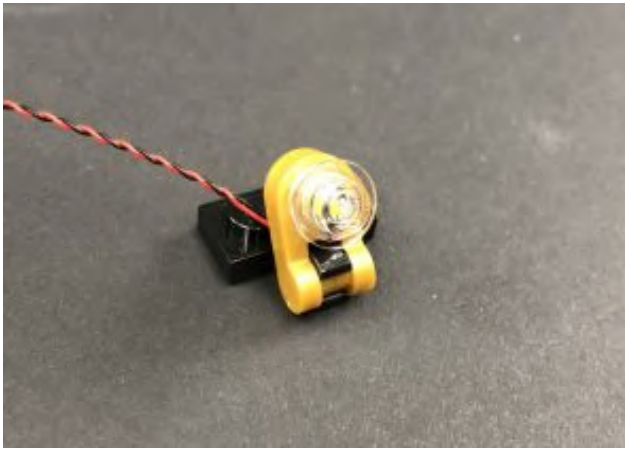


14.) Take the following top section and disassemble it. Take a **White 15cm Bit Light** and with the cable facing the clip, place it over the gold stud. Secure it in place by connecting a provided **Trans Clear Round Plate 1x1** over the top.



Thread the other side of the cable through the gap behind, then pull it all the way out from underneath. Reconnect the gold clip to the black piece, then reconnect this section to the front of the train.





Ensure the cable is laid in between the light grey studs before reconnecting the round Hogwarts Express dish piece over the top.

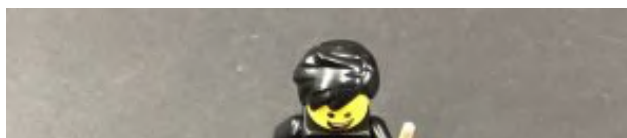


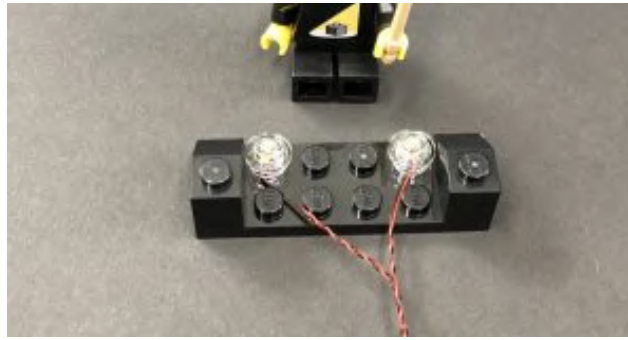
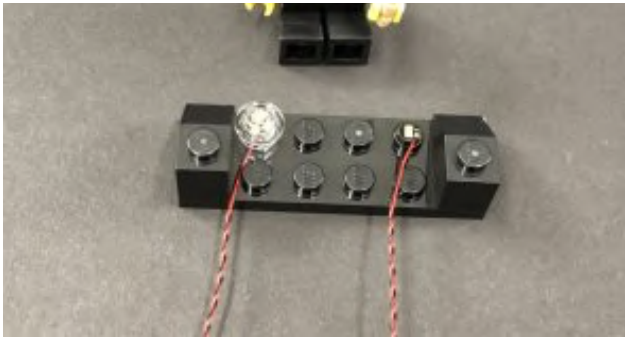
15.) Take the bottom section and disassemble it as per below.





Take a **White 15cm Bit Light** and place it over the left stud as per below. Secure it in place by connecting a provided LEGO **Trans Clear Round Plate 1x1** over the top. Repeat this process to install another **White 15cm Bit Light** to the other side, securing it in place with another provided LEGO **Trans Clear Round Plate 1x1**.



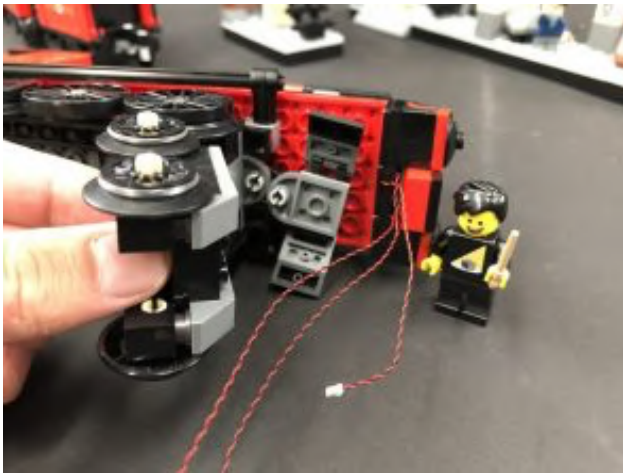
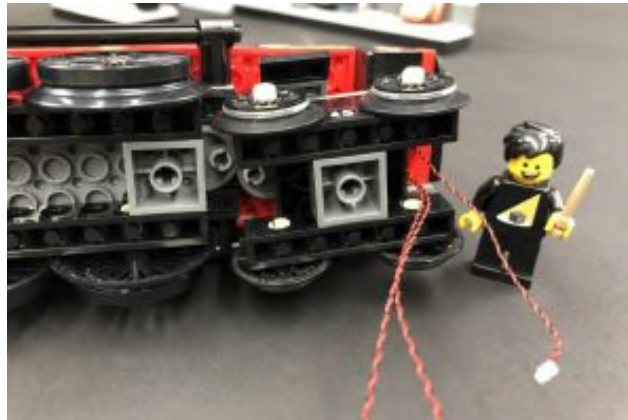
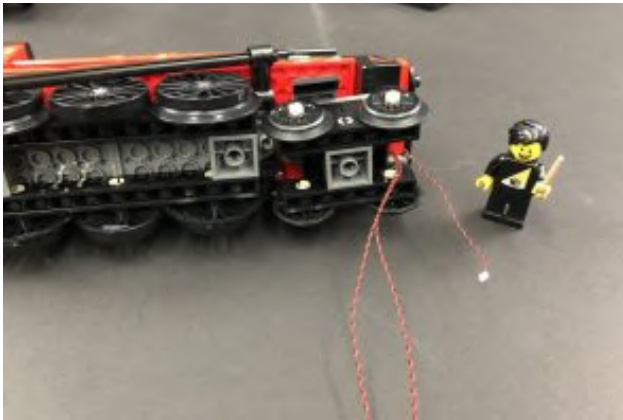


Ensuring both cables are laid in between studs, reconnect the sections we removed earlier, then reconnect this bottom section back to the train.

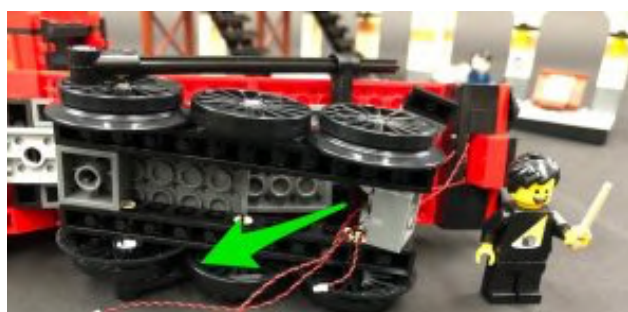


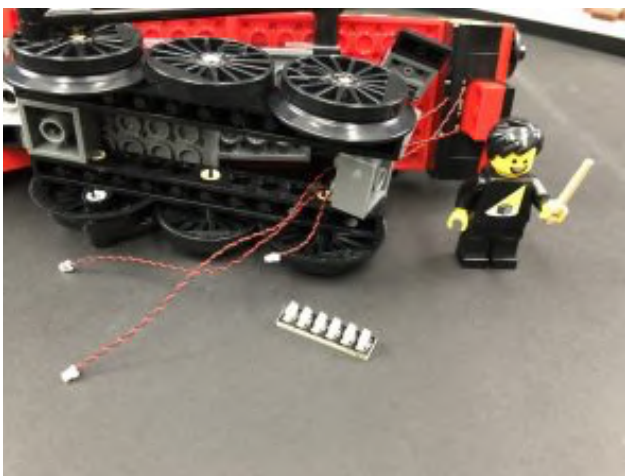
16.) Turn the train over onto it's side and disconnect the two sections underneath.



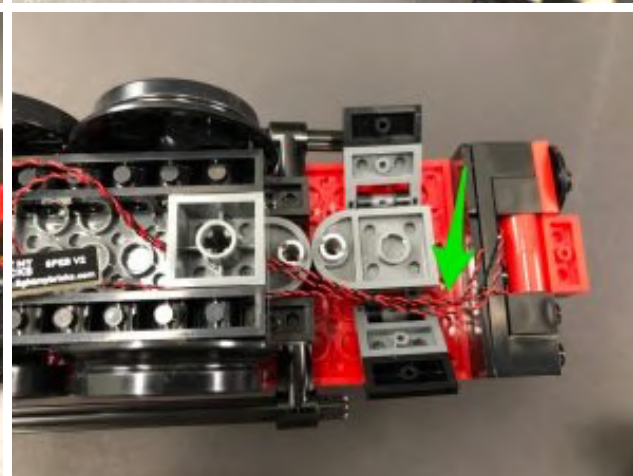


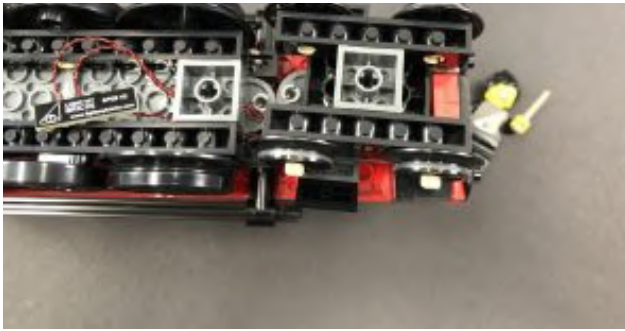
Take the three Bit Light Cables and thread them through the following gap in the middle of the back section we removed earlier, then connect them to a new **6-Port Expansion Board**.



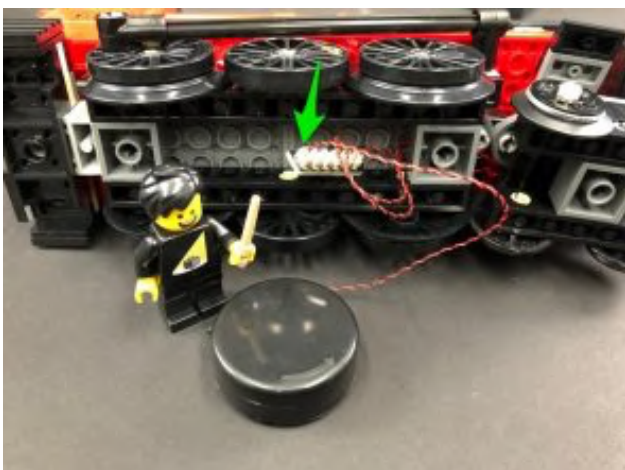
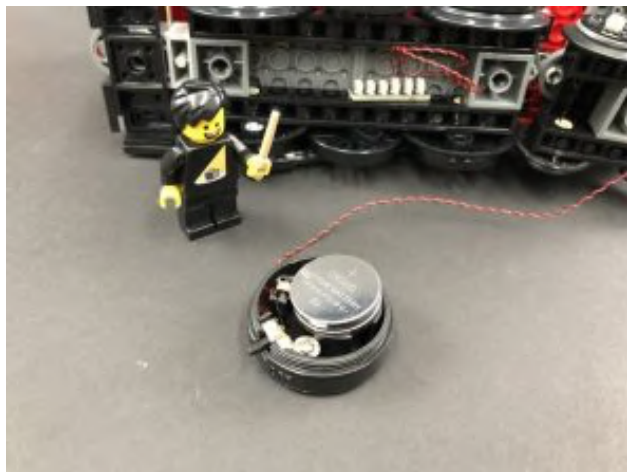


17.) Reconnect the two sections back underneath the train, ensuring all cables are laid in between studs.





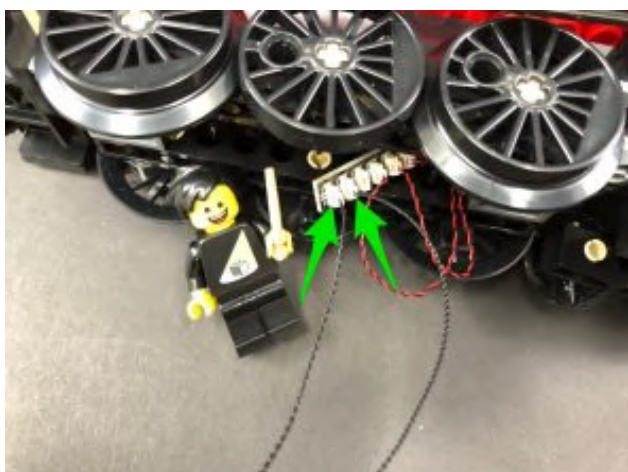
Take a **Round Battery Pack** and insert 2x CR2032 Batteries to it. Connect the battery pack to the 6-port expansion board and turn it ON to test the lights on the front of the train are working OK.



Note: If you experience any issues with the lights not working and suspect an issue with a component, please try a different port on the expansion board to verify where the fault lies (with the light or expansion board). To correct any issues with expansion board ports, please view the section addressing

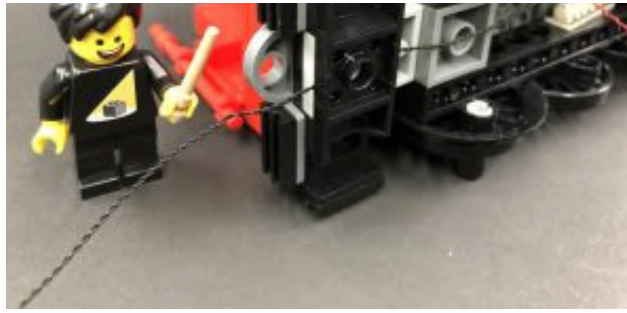
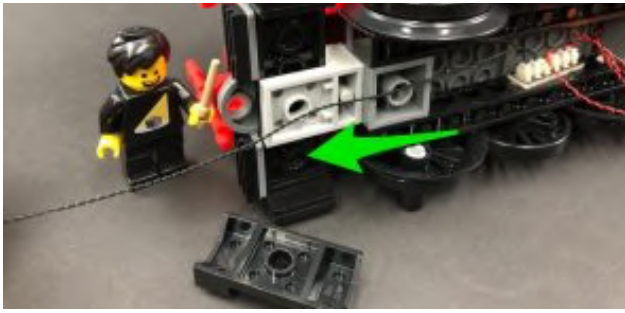
expansion board issues on our **online troubleshooting guide**.

18.) Disconnect the round battery pack and take **2x 15cm Connecting Cables** and connect them to the 6-port expansion board.

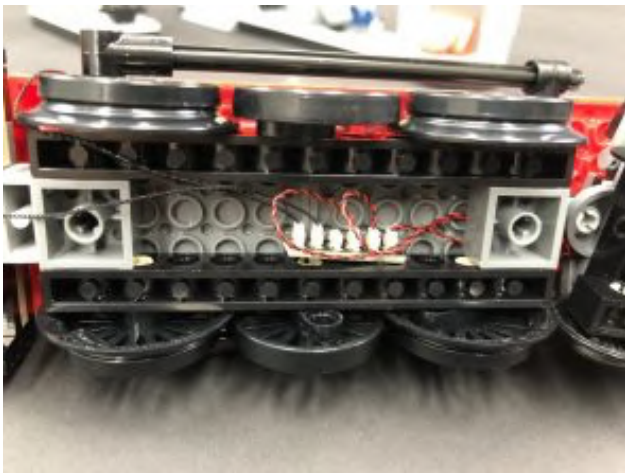


Using the LEGO removal tool, disconnect the following black piece from the back of the train, then pull one of the 15cm cables all the way out towards the back. Secure the cable by reconnecting the black piece over the top ensuring the cable is laid in between studs.



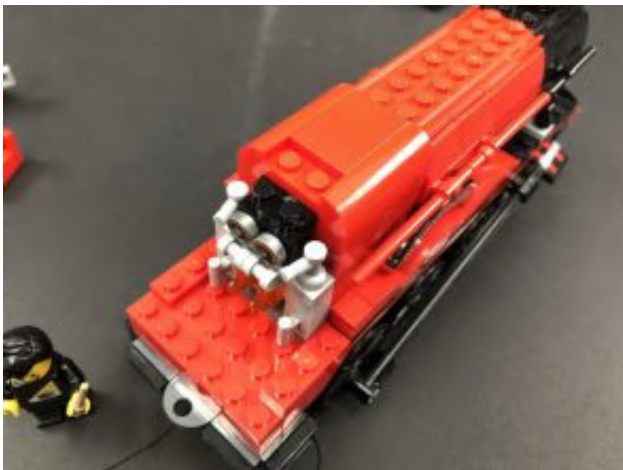
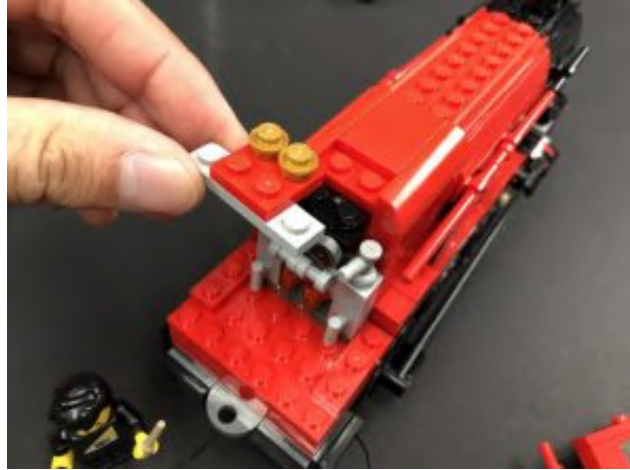
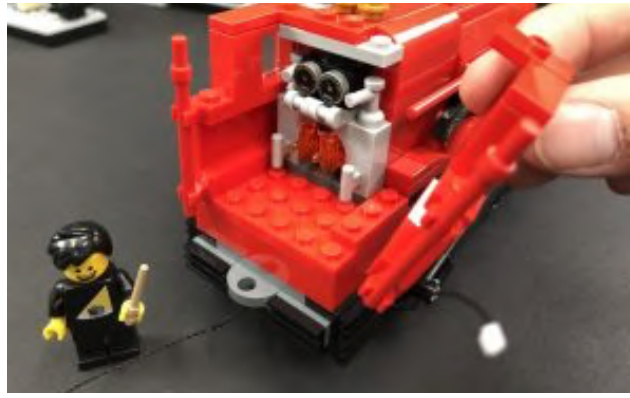


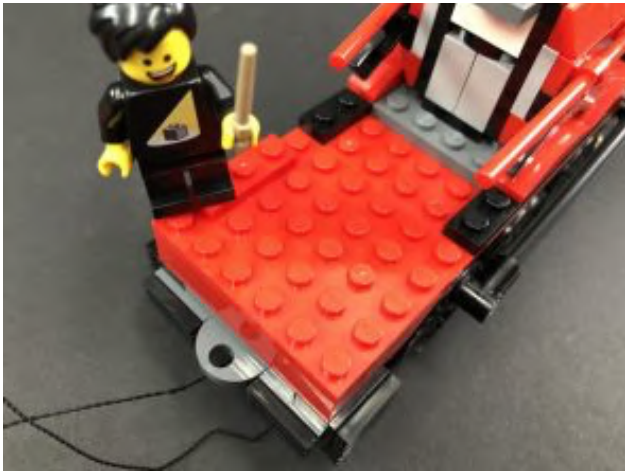
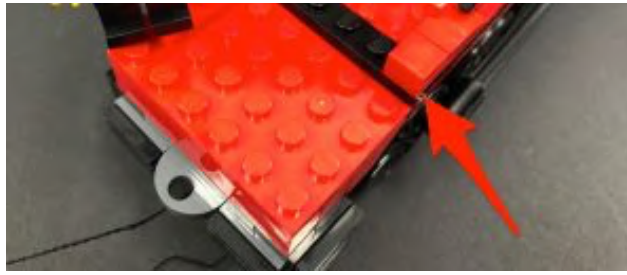
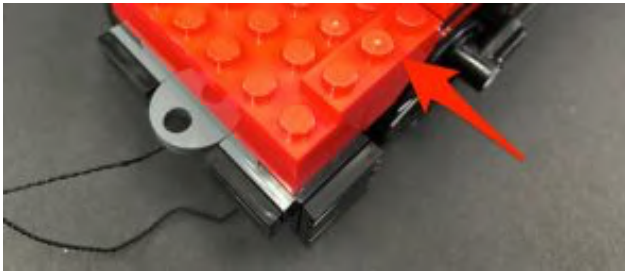
Twist and fold excess cabling from underneath the train, then tuck them in neatly to prevent them from dangling down. Bring the other 15cm connecting cable toward the back and pull it up the left side of the train as shown below:



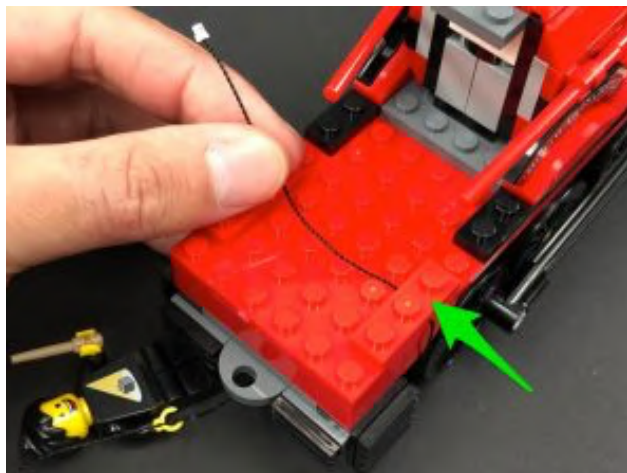
19.) Turn the train over and disconnect the following sections from the back.





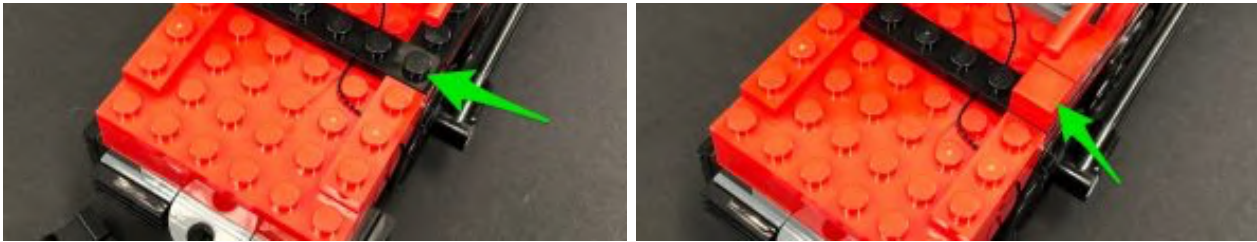


Bring the other end of the 15cm cable from the left side and lay it in between studs before reconnecting the red 1x3 plate.

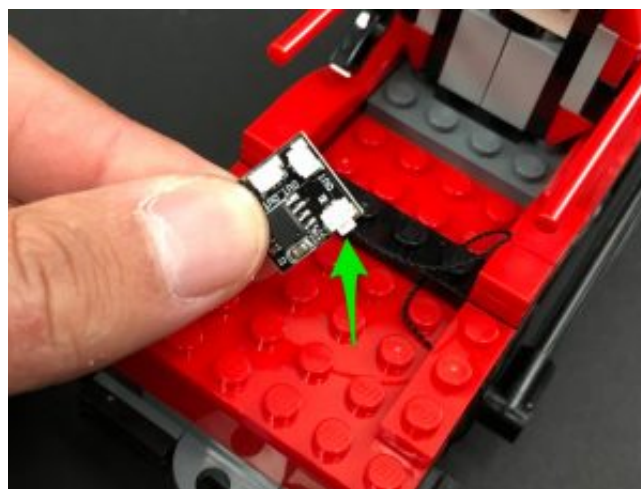


Lay the cable in between studs towards the front of the train, then secure it underneath the black and red plates.



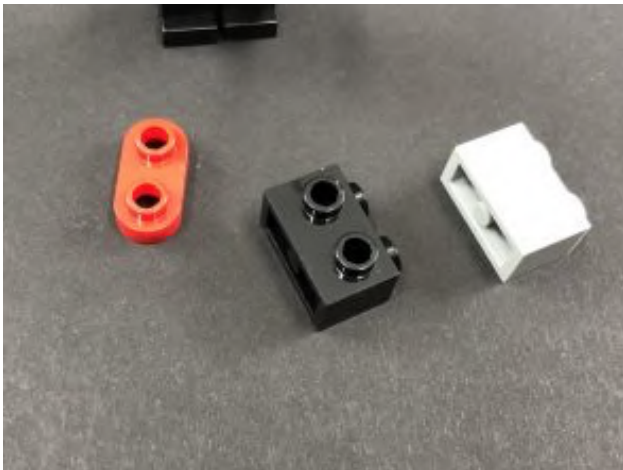
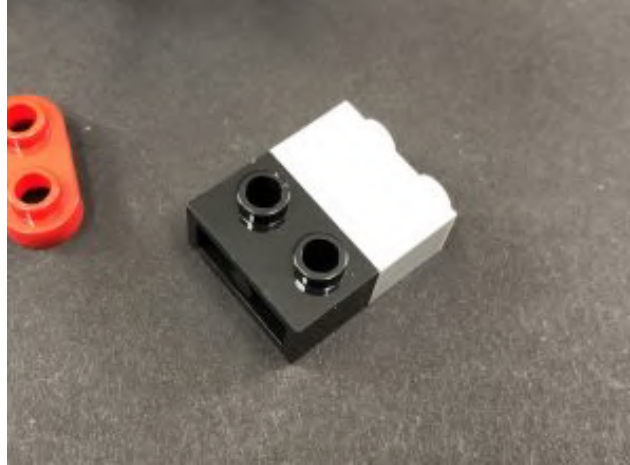
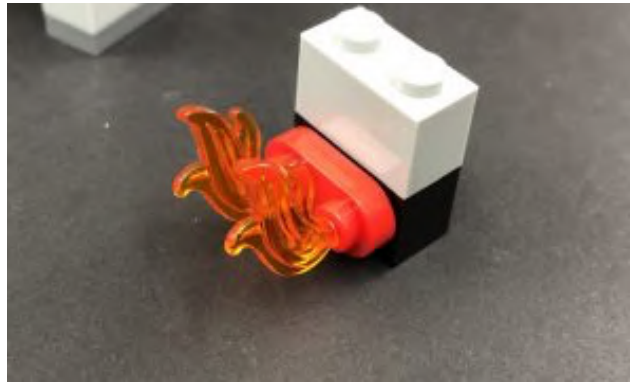


20.) Connect the 15cm connecting cable to the IN port on the **Flicker Effects Board**.

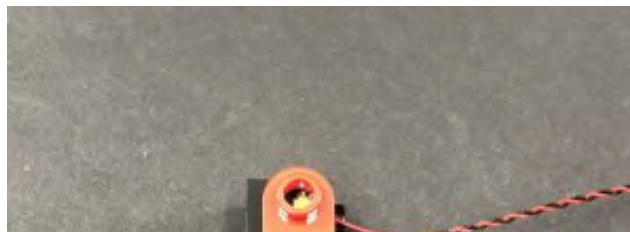
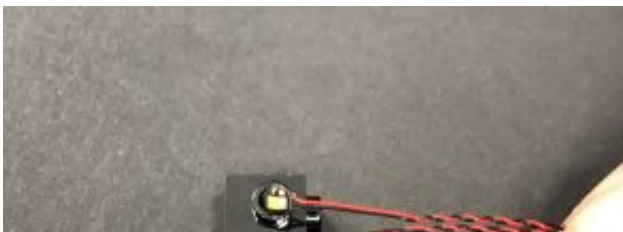


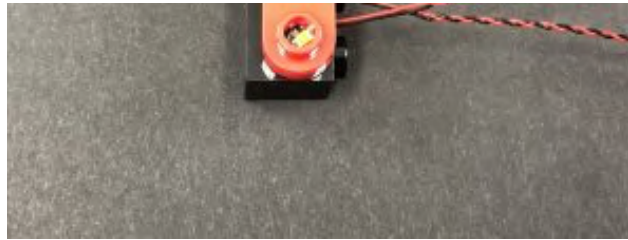
Take the steam control cab and disconnect the following section from the back. Disassemble this section as per below:





21.) Take 2x White 15cm Bit Lights and hold them together over the studs on the front of the black brick. Ensuring the cables are facing the top of the black brick, secure them in place by reconnecting the red plate over the top.





Bring both cables over the top of the black brick, then reconnect the light grey brick over the top, ensuring cables are laid in between studs. Reconnect this section back to the steam control cab



22.) Take the following flame pieces and using a pair of scissors, carefully snip off the tips from the bottom. This will allow us to then reconnect them back to the control cab with Bit Lights installed underneath.

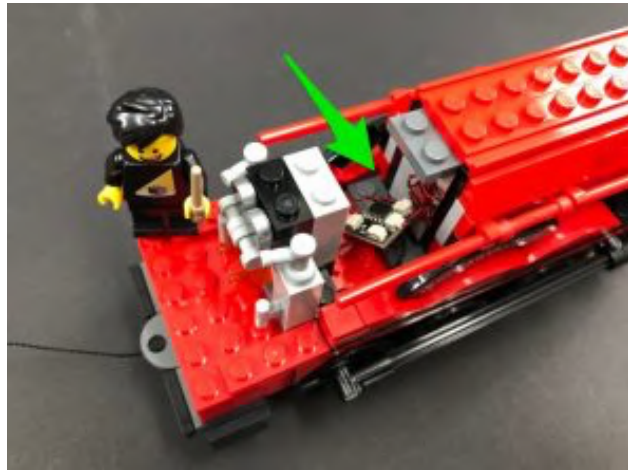
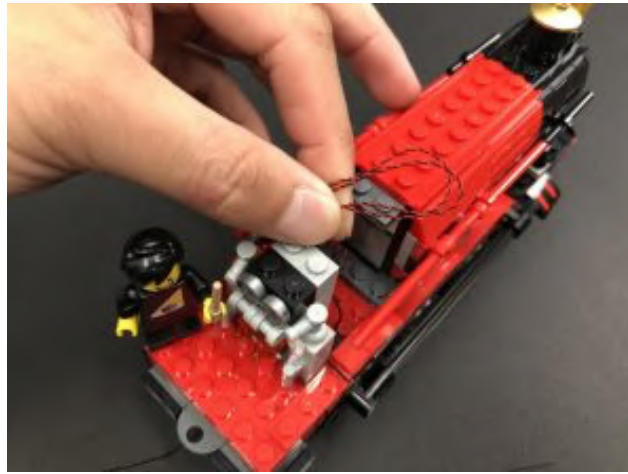




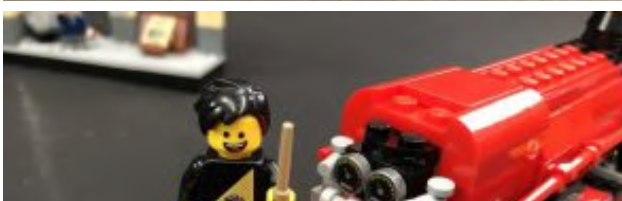
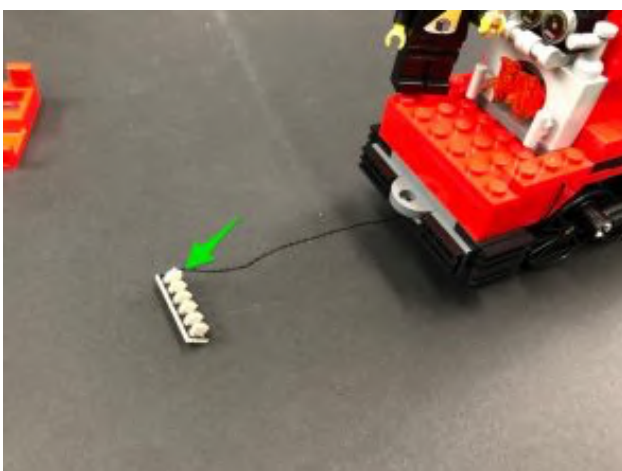
Connect the two bit light cables to the OUT ports on the Flicker Effects Board, then reconnect the control cab back to the train.



Eliminate excess cables by twisting/folding the bit light cables around each other so they come together in a neat bunch, then tuck them (along with the effects board) inside.



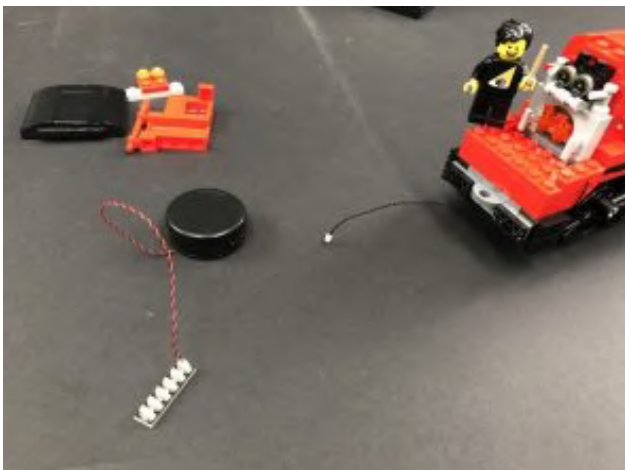
23.) Connect the other end of the 15cm Cable from the back of the train to a new **6-Port Expansion Board**. Connect your Round Battery Pack to a spare port on the expansion board and turn it ON to test the flickering lights (along with the front lights) are working OK.





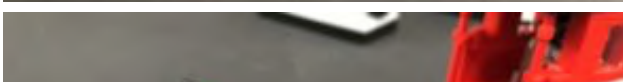
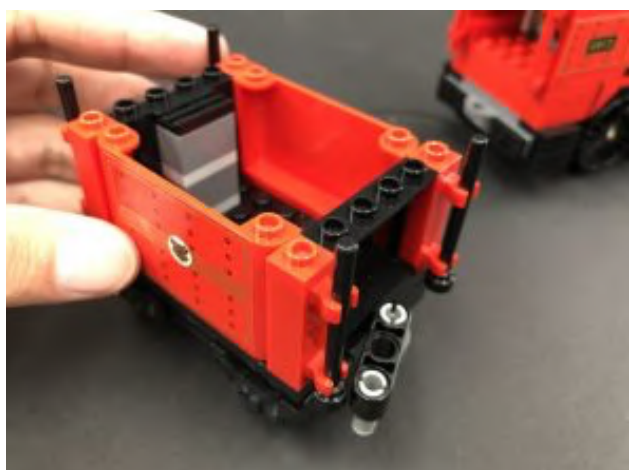
*Note: If you experience any issues with the lights not working and suspect an issue with a component, please try a different port on the expansion board to verify where the fault lies (with the light or expansion board). To correct any issues with expansion board ports, please view the section addressing expansion board issues on our **online troubleshooting guide**.*

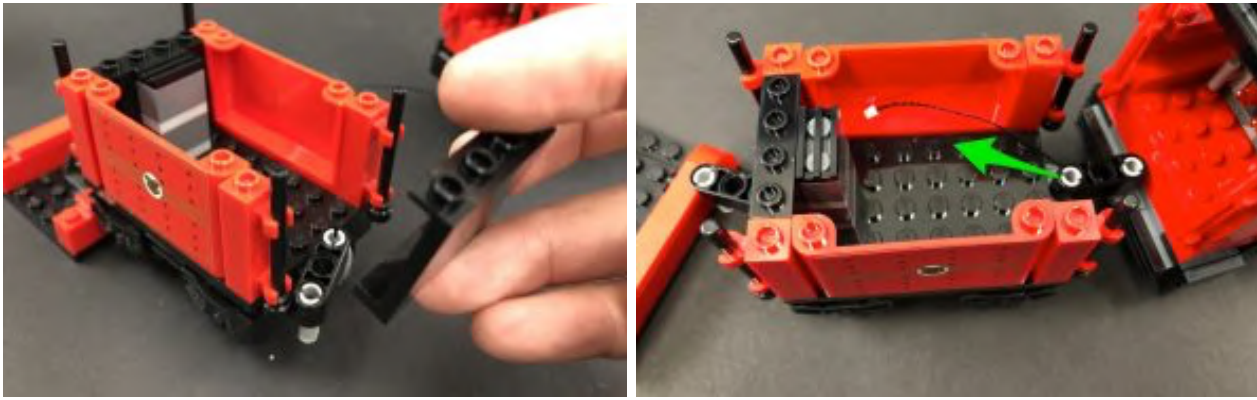
24.) Disconnect 15cm connecting cable from the expansion board, then reconnect all the sections surrounding the control cab on the back of the front carriage.



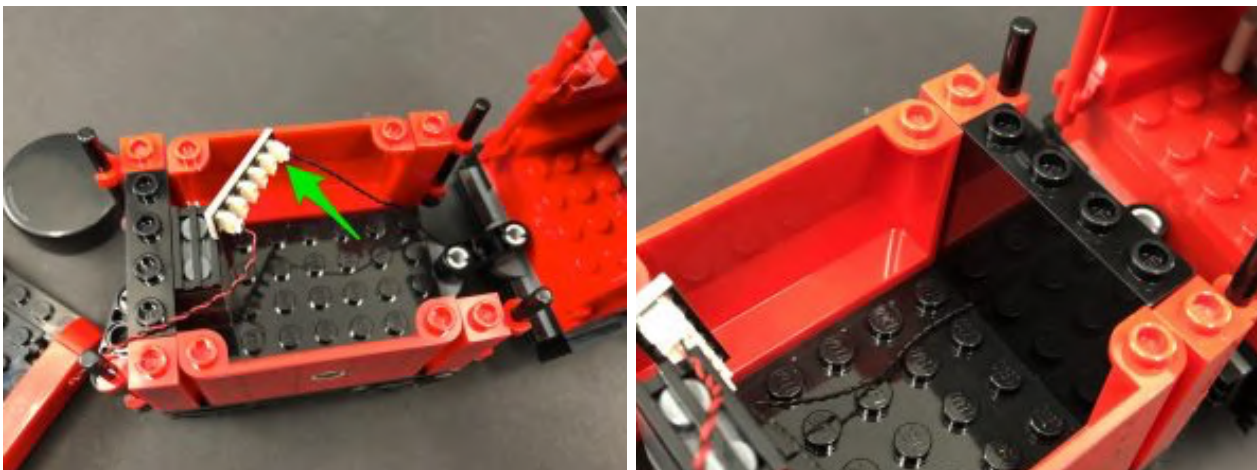


25.) Take the middle carriage and disconnect the roof and front wall. Reconnect the carriage to the front carriage, then bring the 15cm connecting cable inside.

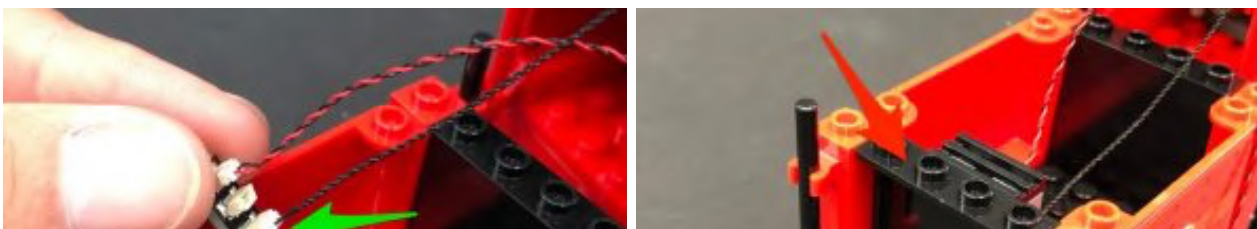


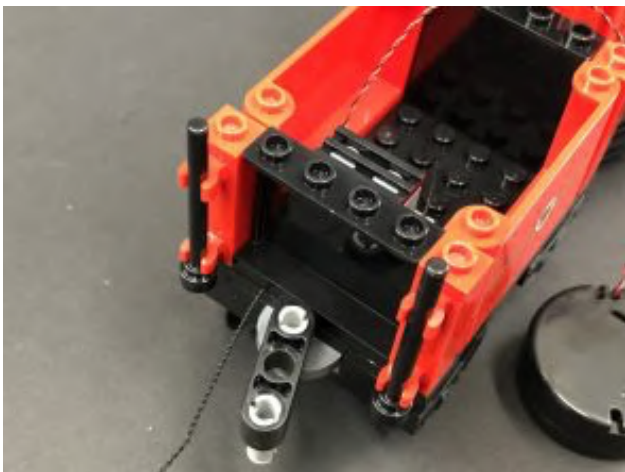
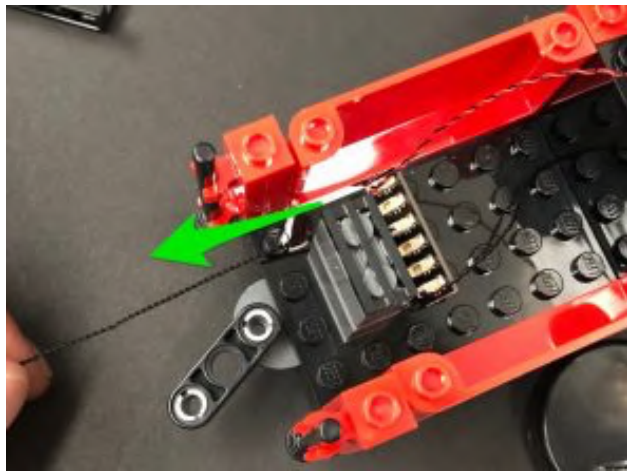
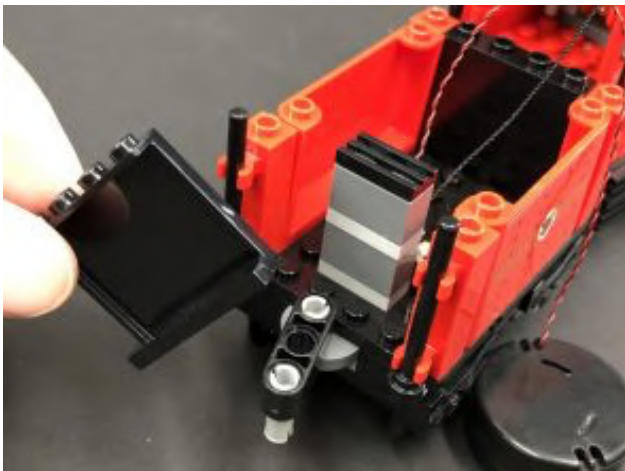


Reconnect the connecting cable to the 6-port expansion board from previous step, then reconnect the front wall over the cable ensuring the cable is laid in between studs and that there is enough cable slack for the carriage to turn left/right.

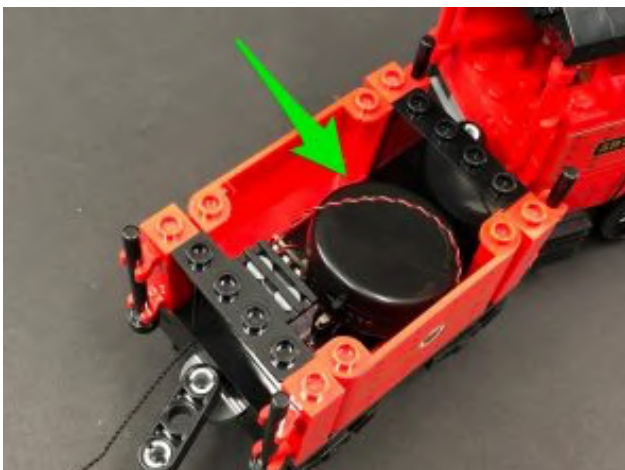


26.) Take another **15cm Connecting Cable** and connect it to the 6-port Expansion Board. Disconnect the back wall, then pull the other end of the cable all the way out the back. Reconnect the back wall over the top ensuring the cable is in between studs.

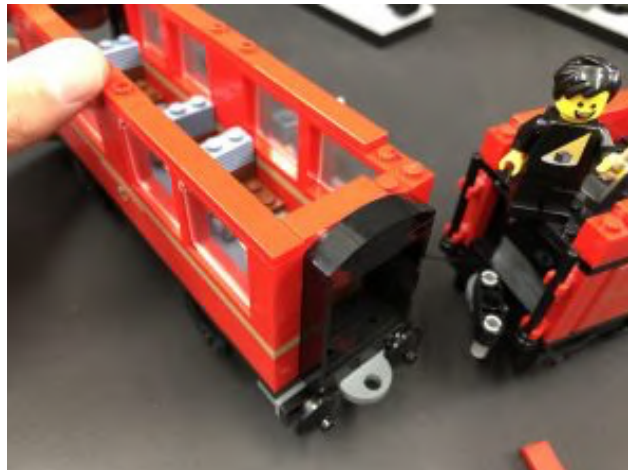




Neatly tuck the battery pack inside the carriage, then reconnect the roof.



27.) Take the back carriage and disconnect the roof as well as the following corner tile to allow us to remove the front wall section.



Reconnect the carriage to the middle carriage, then bring the other end of the 15cm cable back and inside the last carriage. Reconnect the front wall section over the cable ensuring it is laid in between studs. Ensure you also have enough

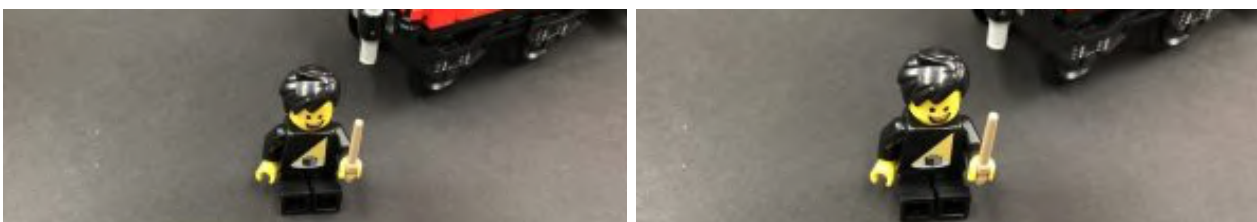
cable slack between the two carriages for them to be able to turn left/right.



Tuck the cable in between the blue brick and front wall, then reconnect the corner tile.



28.) Take **2x White Strip Lights** and using their adhesive backing, stick them to the back of **2x Plates 1x6**. Connect the two strip lights together using a **5cm Connecting Cable**.





Mount the two strip lights underneath the roof in the below positions.



29.) Bring the roof over the carriage and connect the other end of the 15cm connecting cable below to the Strip Light. Securely reconnect the roof.



Turn ON the battery pack to test the carriage lights are working OK.



This finally completes installation of the Light My Bricks Hogwarts Express Light Kit. We hope you enjoy and thank you for purchasing this product!

