Light My Bricks: LEGO Star Wars Tantive IV 75244 Lighting Kit

The following page is the instructions for the Light My Bricks LEGO Star Wars Tantive IV (75244) 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.

Please note: This page lists instructions for the LED light kit only.

Package Contents:

- 11x **White 30cm Bit Lights**
- 10x **Cool White 30cm Bit Lights**
- 4x **Red 30cm Bit Lights**
- 2x **Flashing Red 30cm Bit Lights**
- 4x **6-Port Expansion Boards**
- 1x **8-Port Expansion Boards**
- 1x **12-Port Expansion Boards**
- 1x **Multi Effects Board**
- 1x **Gun Effects Board**
- 1x **Set of Wireless Power Connectors(possitive and negative)**
- 2x **5cm Connecting Cables**
- 3x **15cm Connecting Cables**
- 1x **30cm Connecting Cable**
- 6x **Adhesive Squares**
- 1x **USB Power Cable 30cm**

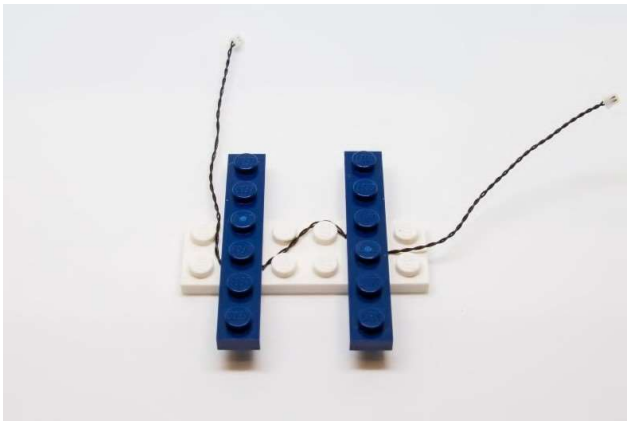
LEGO Pieces:

- 4x **Trans Clear Round Plate 1x1**
- 1x **Trans Clear Plate 1x2**

Importantthings to note:

Laying cables in between and underneath bricks

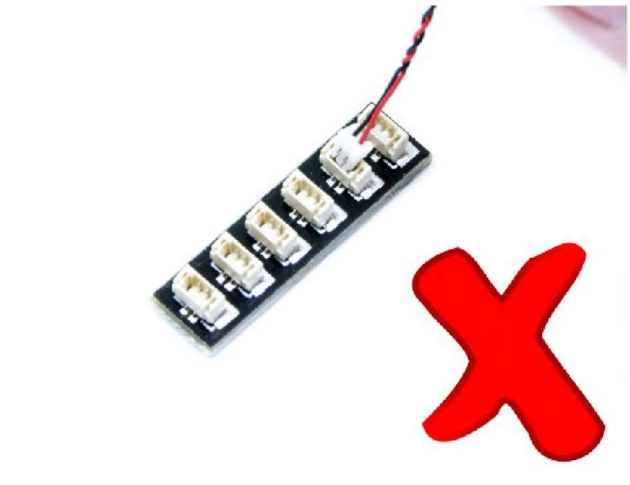
Cables can fit in between and underneath LEGO® bricks, plates, and tiles providing they are laid correctly between the LEGO® studs. Do NOT forcefully join LEGO® together around cables; instead ensure they are laying comfortably in between each stud.

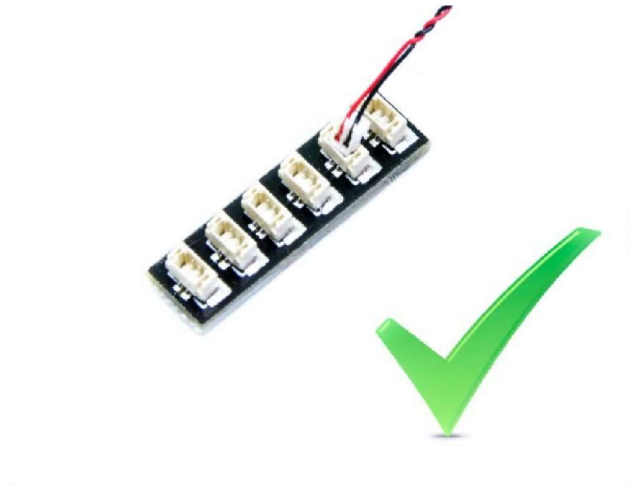


CAUTION: Forcing LEGO® to connect over a cable can result in damaging the cable and light.

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.





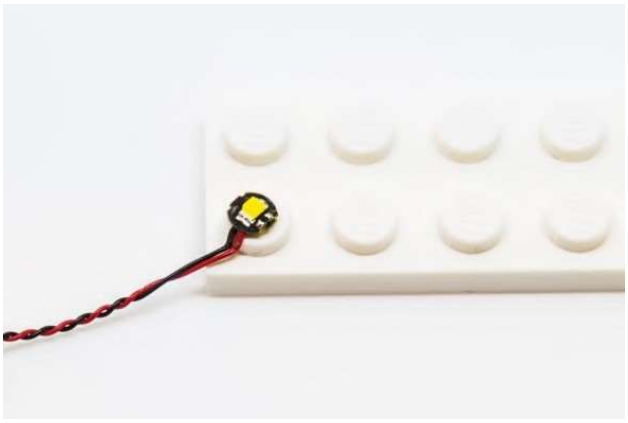
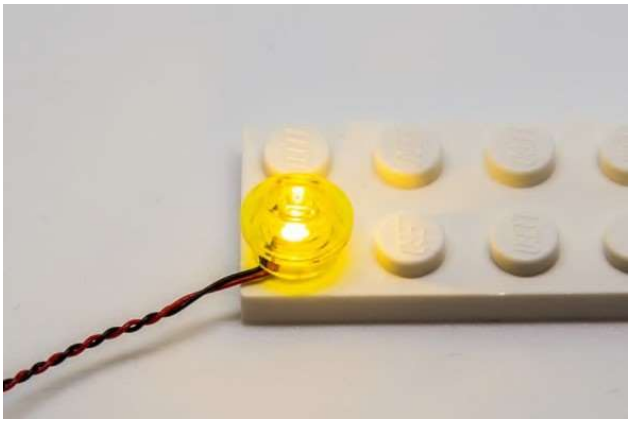
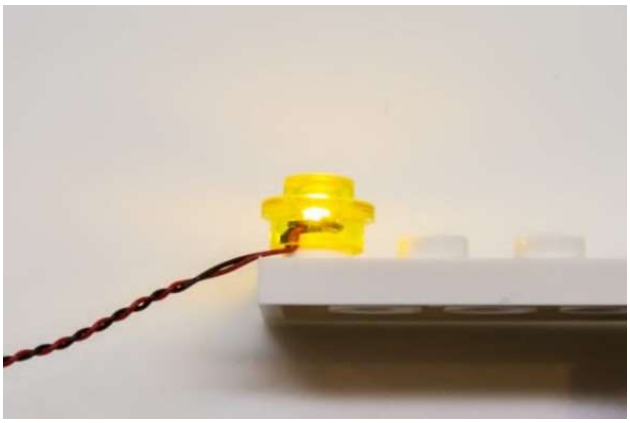
Incorrectly inserting the connector can can result in bent pins inside the port or possible overheating of the expansion board when connected.

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.

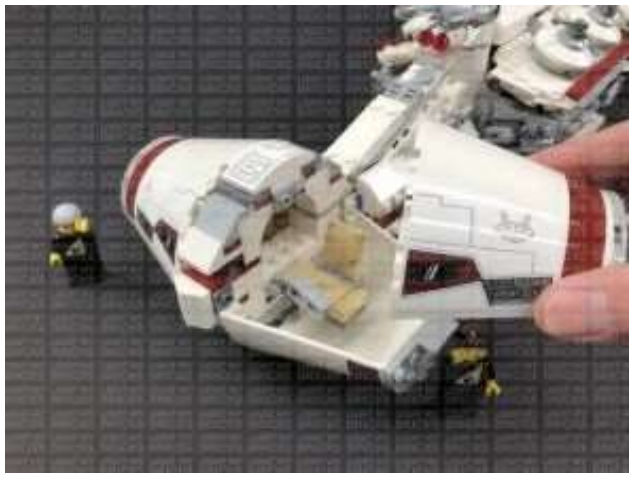
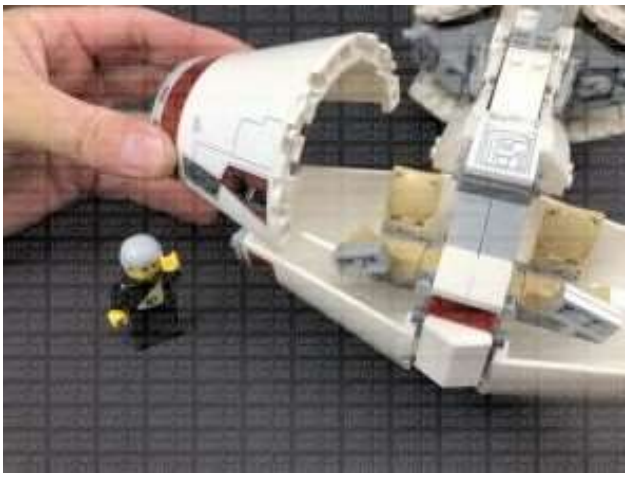
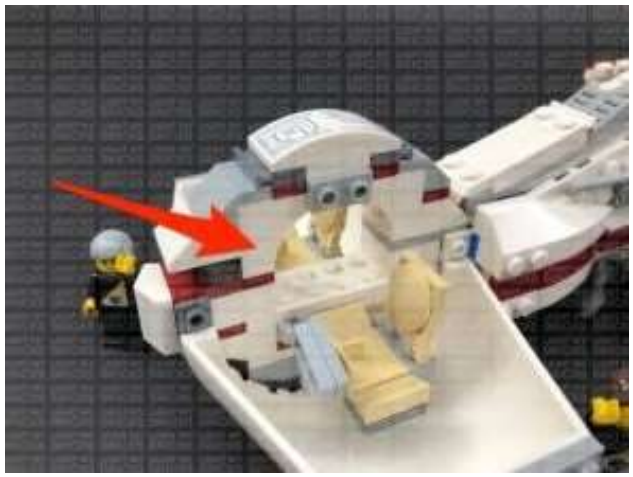
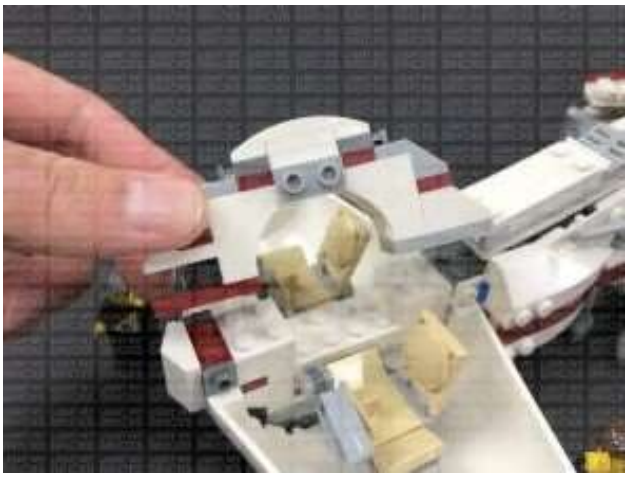
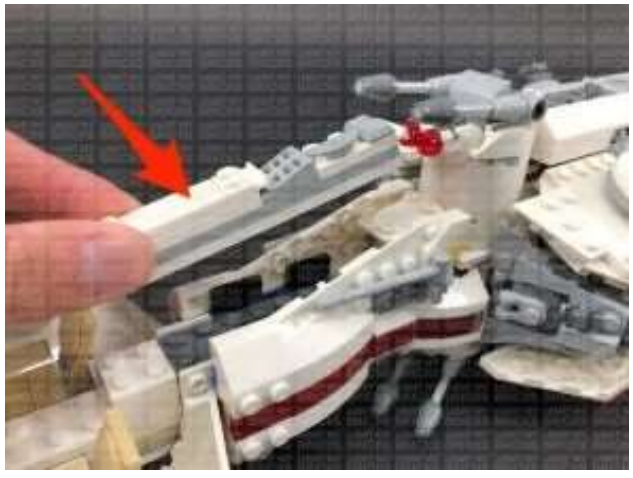
Installing Bit Lights under LEGO® bricks and plates.

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.

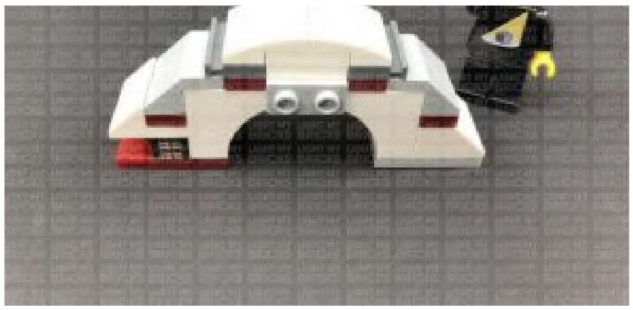
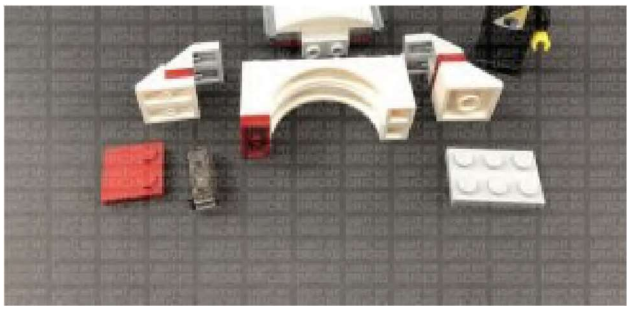
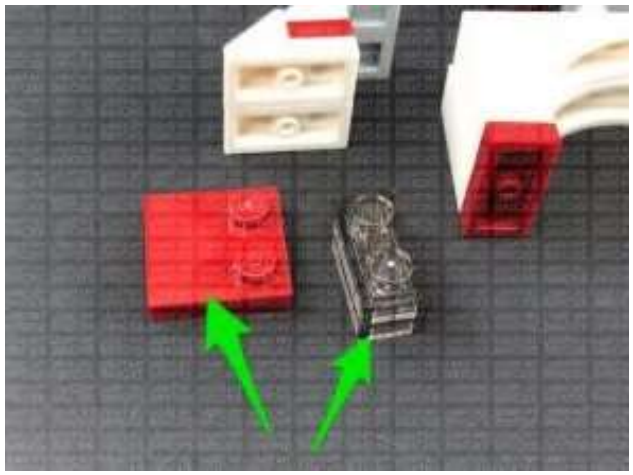




OK, Let's Begin!

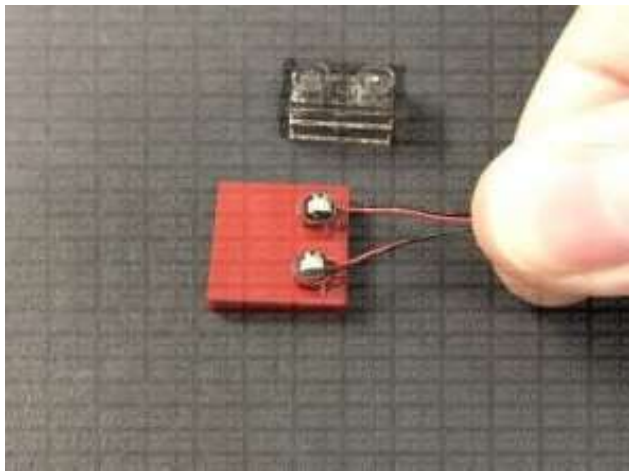
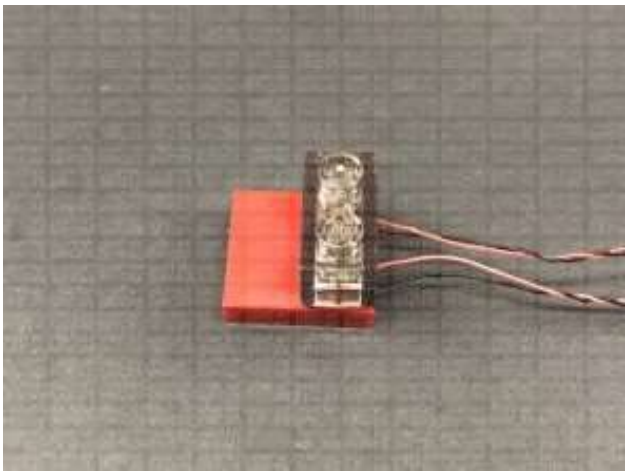
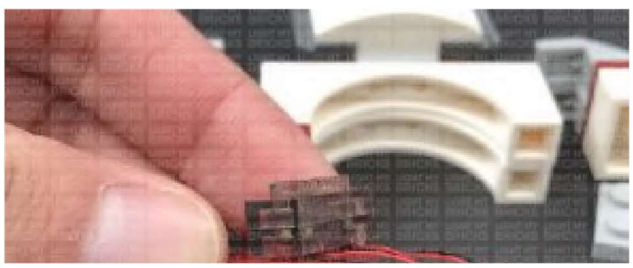
1.) We will first install lights to the cockpit. Start by disconnecting the roof section on each side, then disconnect the following middle sections as shown below:

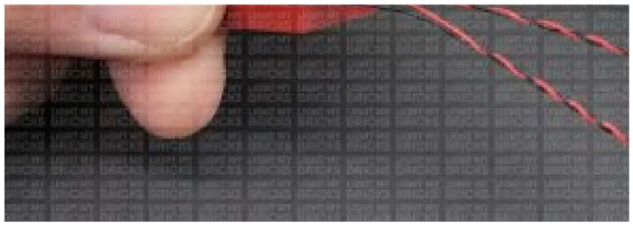






Disassemble the middle section as shown below, then take the red and trans dark clear pieces.

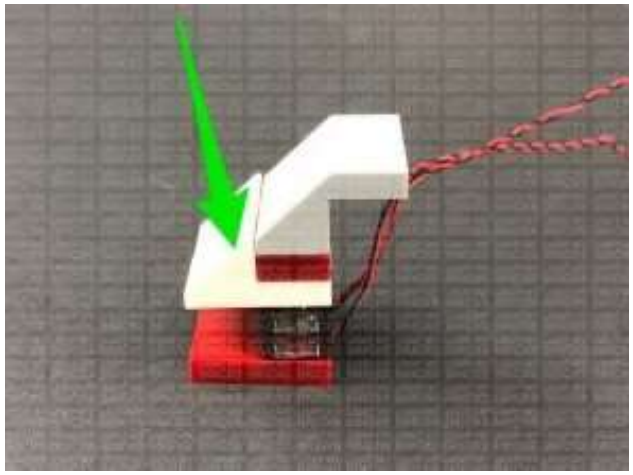




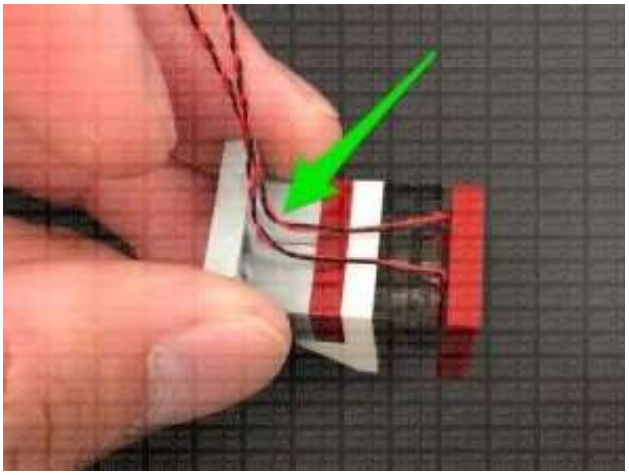
2.) Take **2x Cool White 30cm Bit Lights** and with the cables facing the right side, place both of them over the studs of the red plate. Secure them in place by reconnecting the trans dark clear plates over the top. The 2 LEDs should fit nicely inside the studs of the trans dark clear plates.

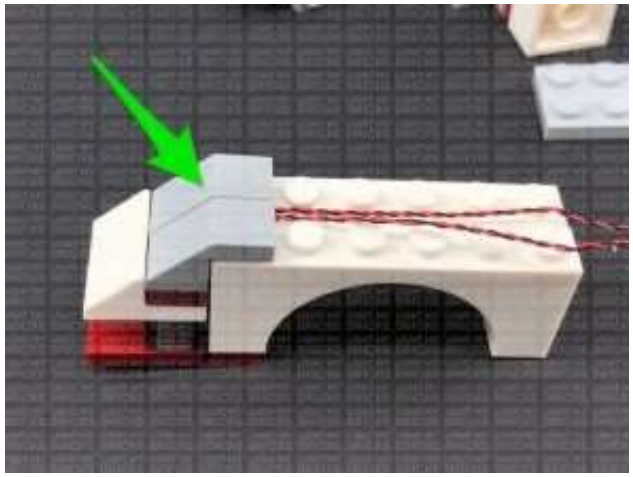




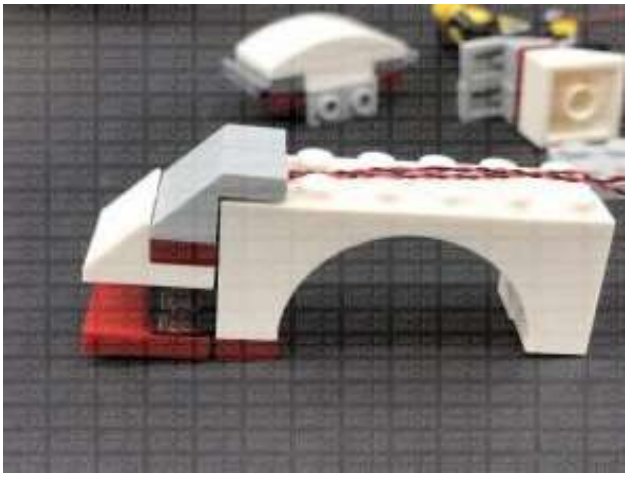


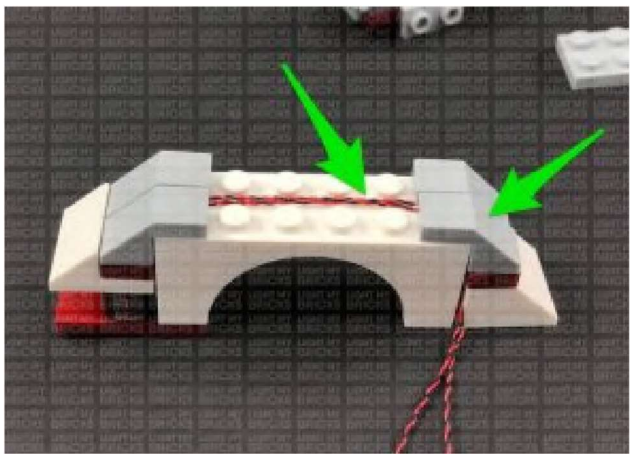
Reconnect the following section on top, then flip it over and push the cables down into the corner before reconnecting it to the two white arch bricks. Lay the two cables down the middle in between studs before reconnecting the right section over the top of the cables.



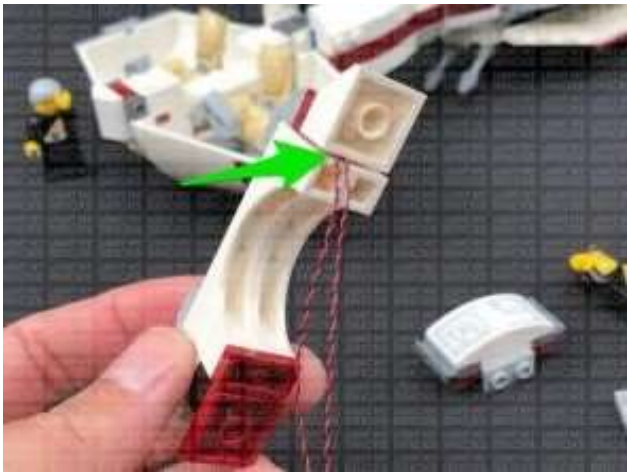


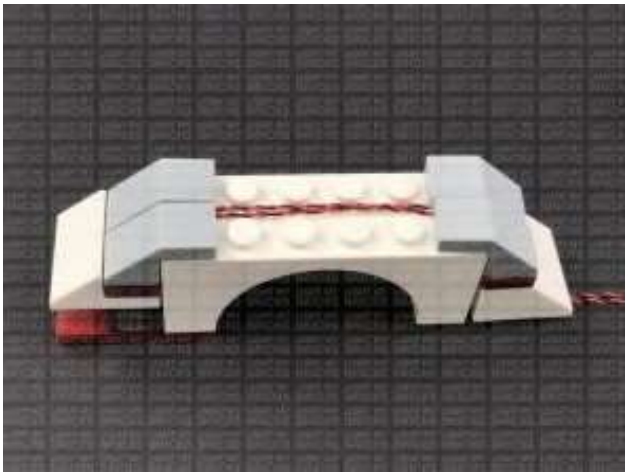


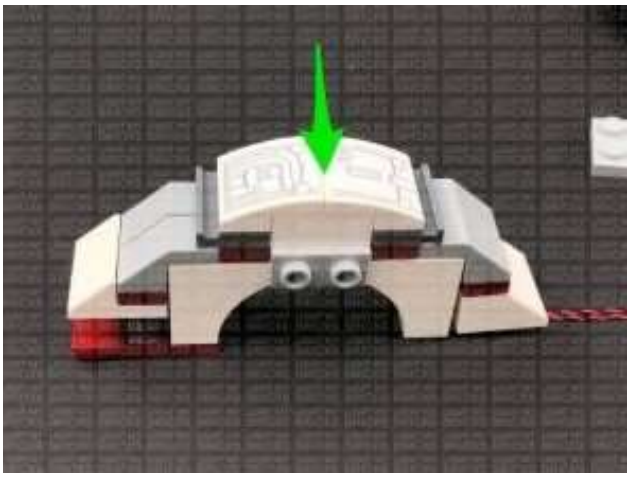




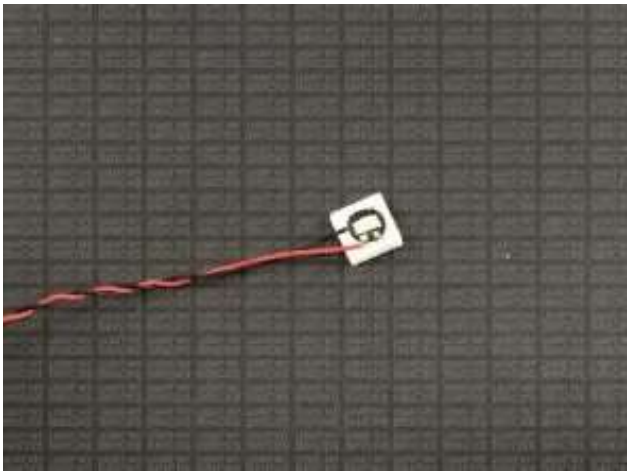
Flip this section over and ensure both cables are tucked in between white bricks, then flip it back over and reconnect the middle section on top.

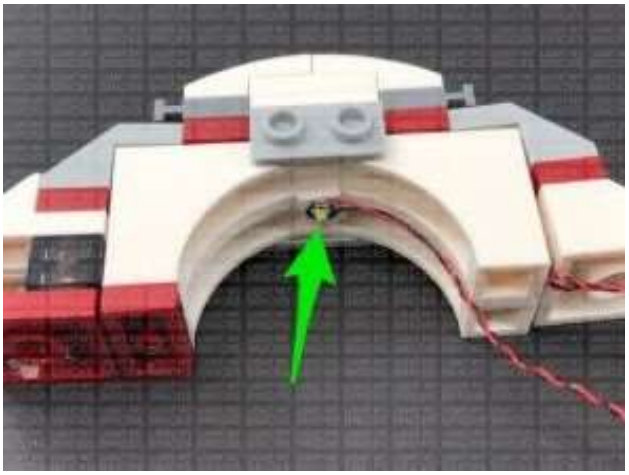




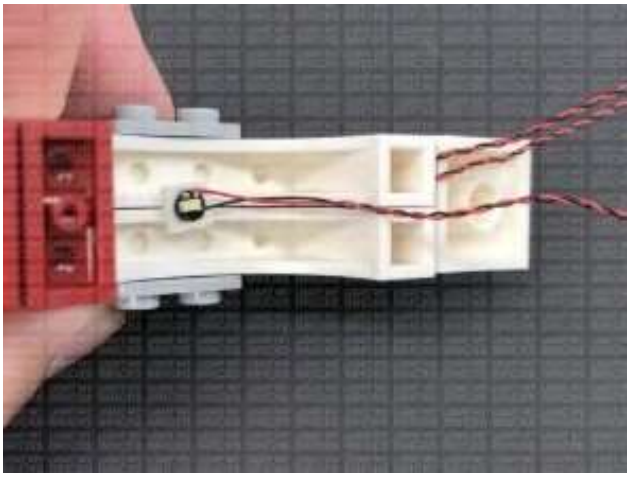
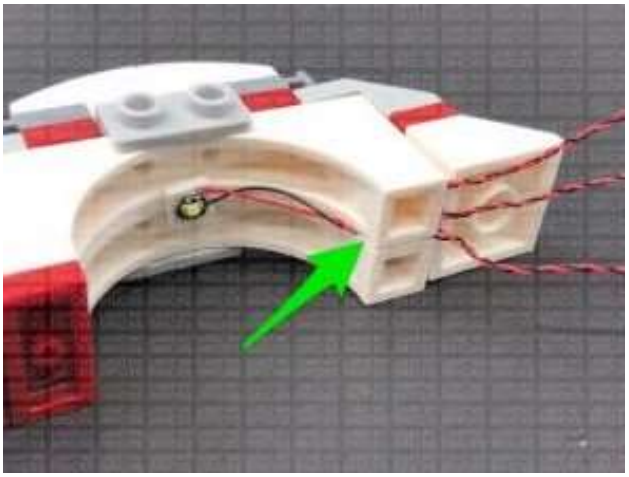
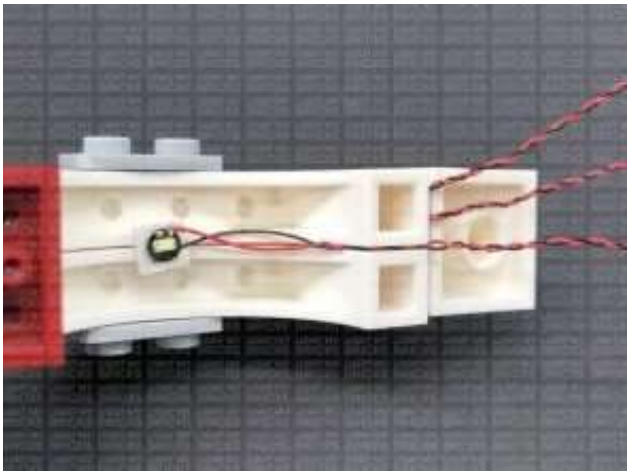
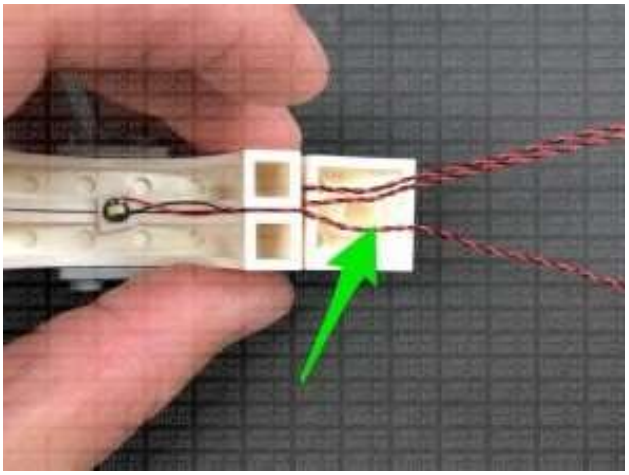
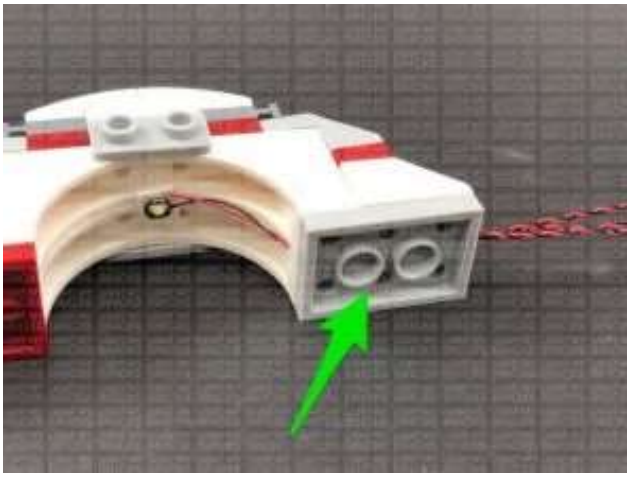
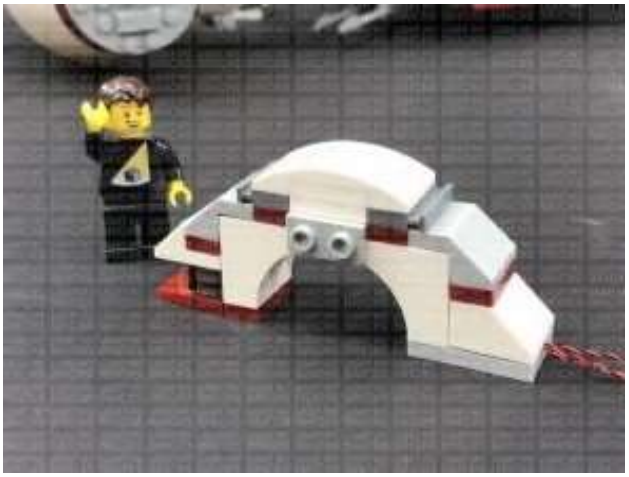


3.) Take a new **Cool White 30cm Bit Light** and using an **Adhesive Square**, stick it underneath the middle section in the below position with cable facing the back.

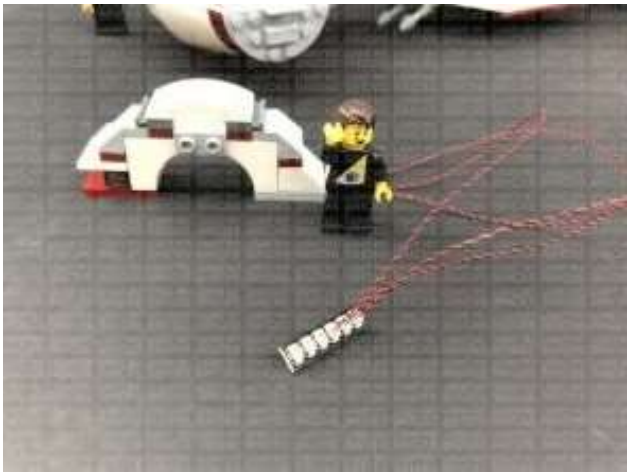
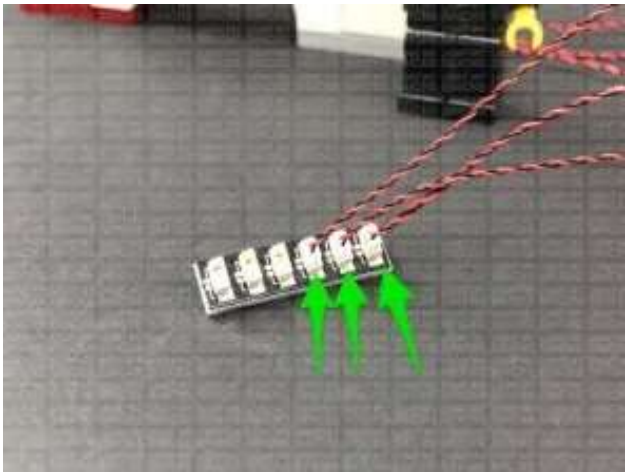
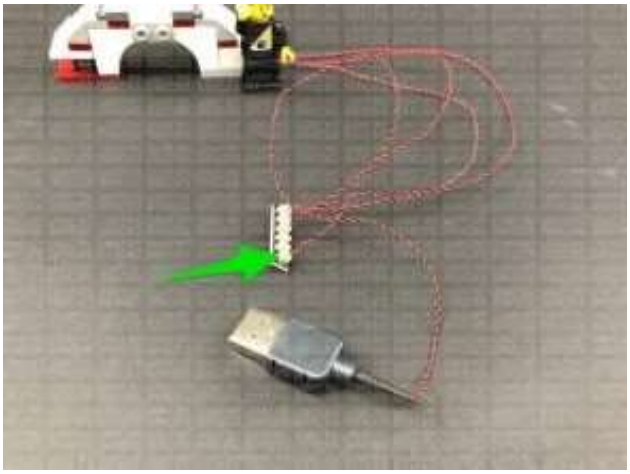
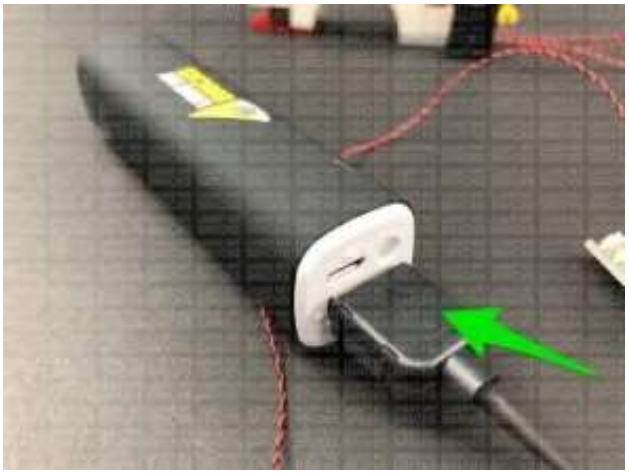
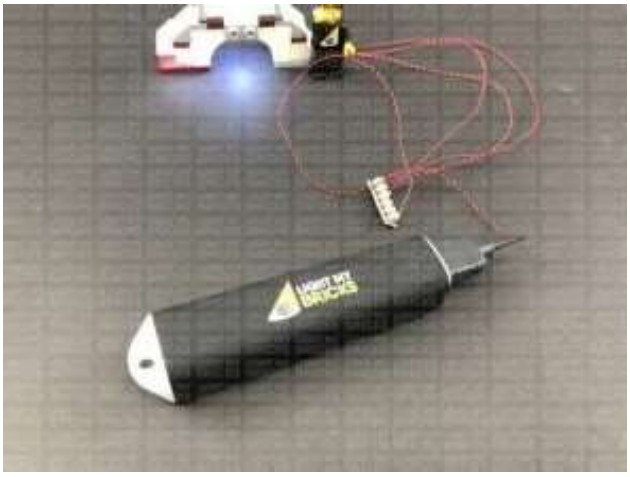
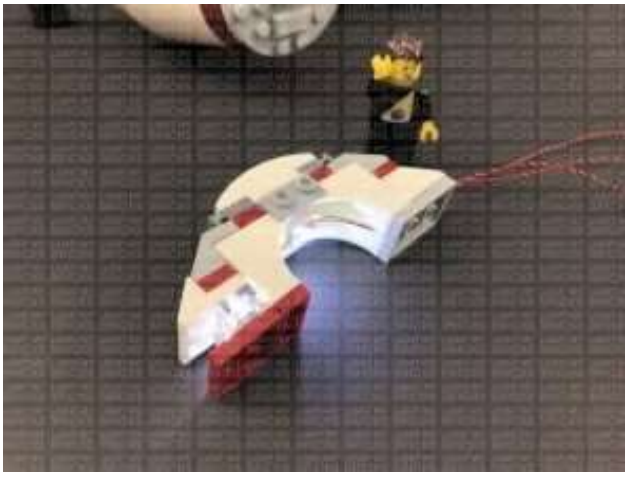




Slip the Bit Light Cable in between the two centre arched bricks, then lay it out toward the back before reconnecting the grey 2×3 plate over the top of the cables. Ensure the cable is laid in between studs.

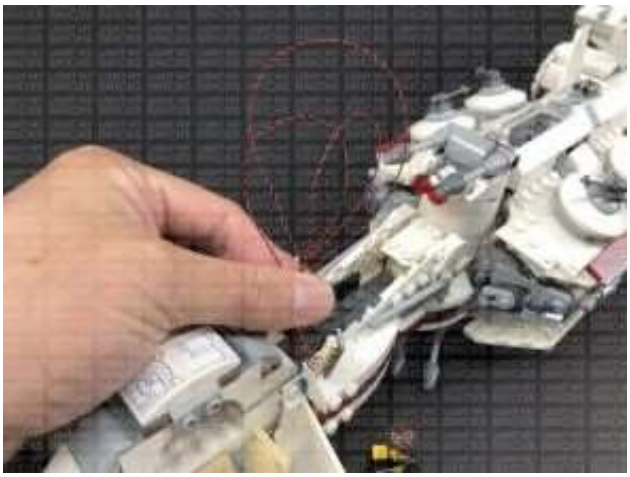
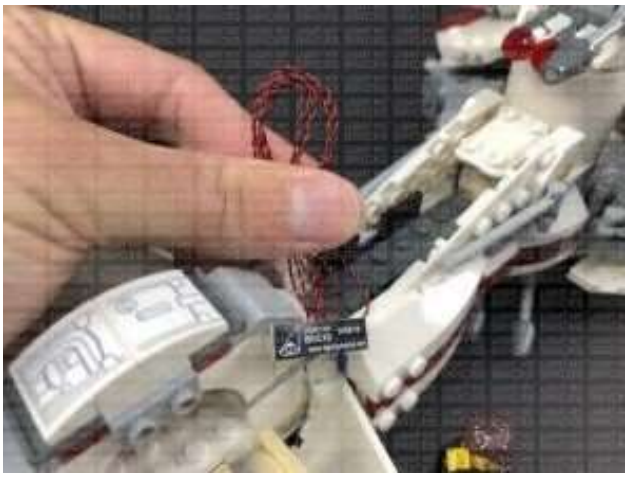
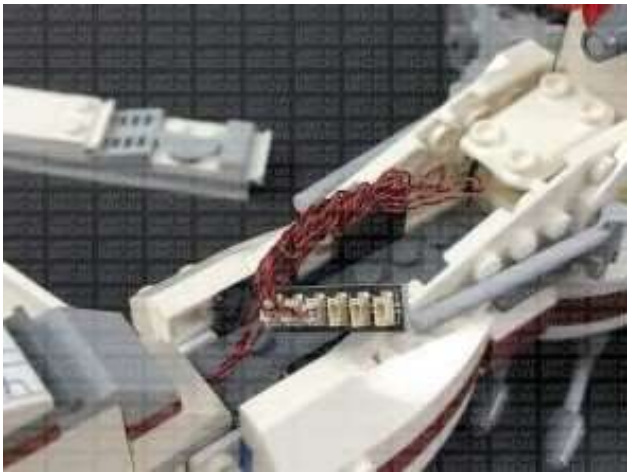
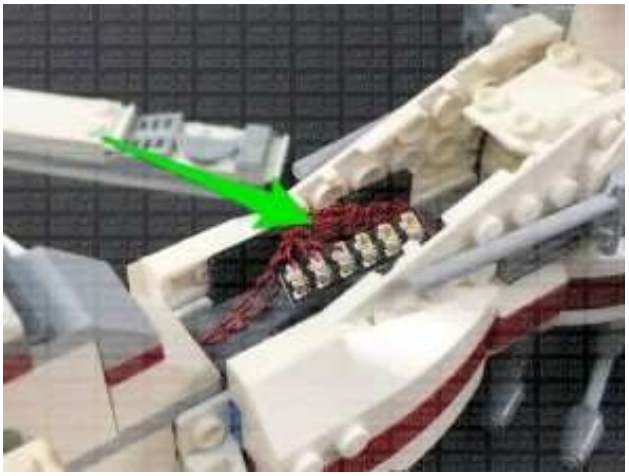







4.) Connect the cables from the three bit lights we have just installed to a **6Port Expansion Board.** Take your **USB Power Cable** and connect it to the expansion board. Connect the USB end to a **USB Power Bank** (sold separately) and turn it ON to test the lights are working OK.

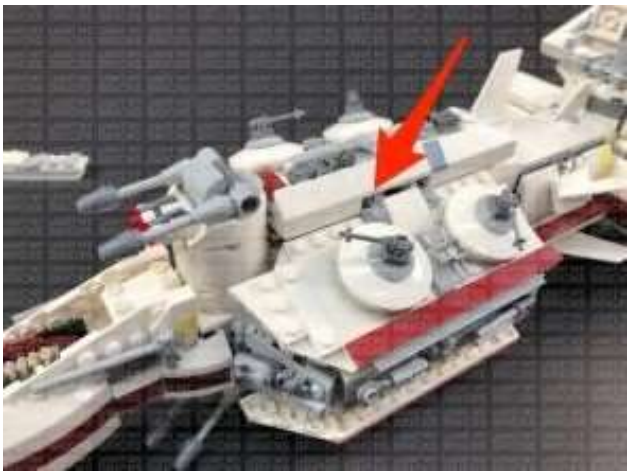







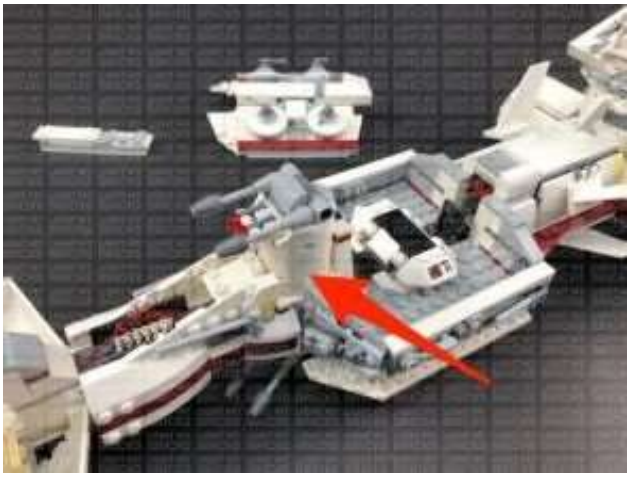
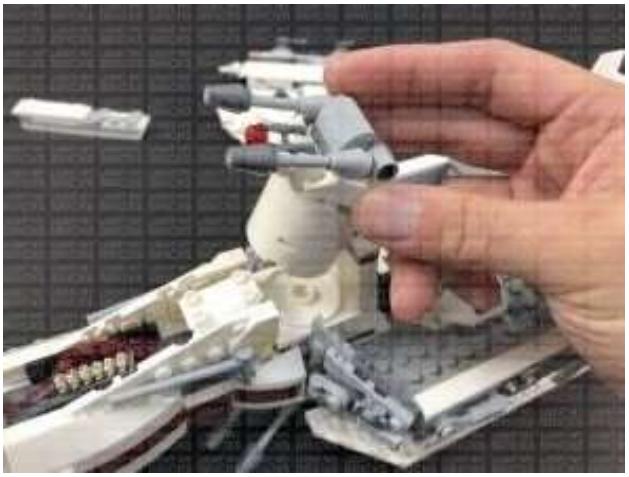
Note: If you experience any issues with the lights not working and suspect an issue with a component, please try a different port on the expansion board to verify where the fault lies (with the light or expansion board). To correct any issues with expansion board ports, please view the section addressing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

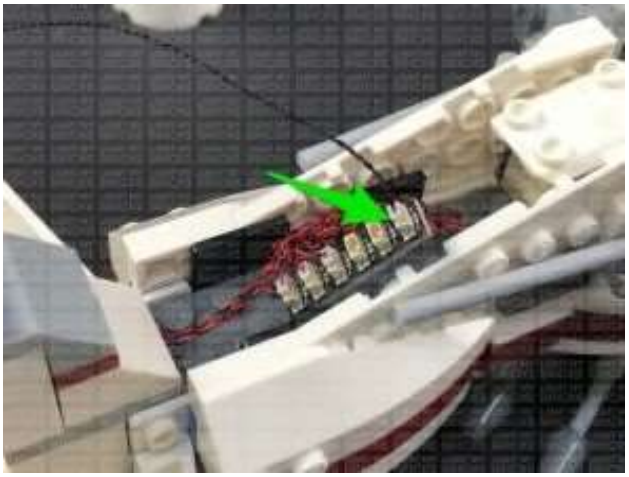
Disconnect the USB Power Cable from the expansion board, then reconnect the middle section back to the front of the ship. Neaten up the wiring and eliminate excess cable from the Bit Lights by grouping them together and twisting/folding them together into a neat bunch as shown below. Place the expansion board in to the middle section behind.

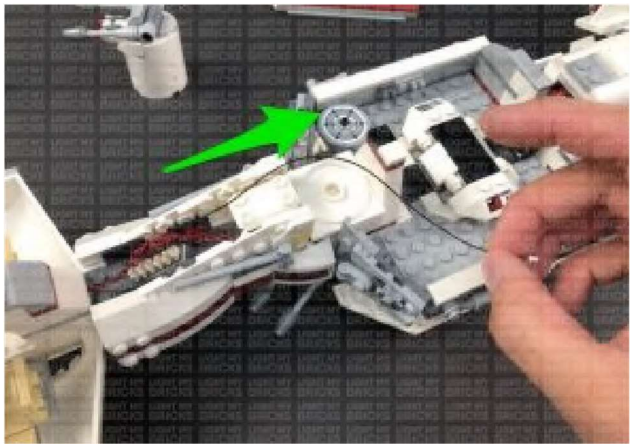
5.) Remove cabin roof as well upper cannon section, then take a **15cm Connecting Cable** and connect it to the 6-Port Expansion Board.

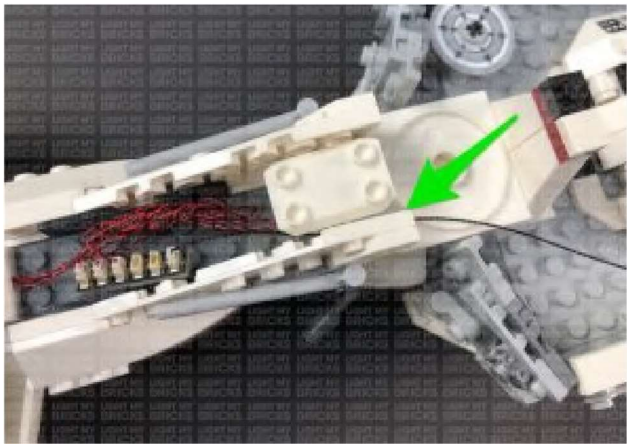


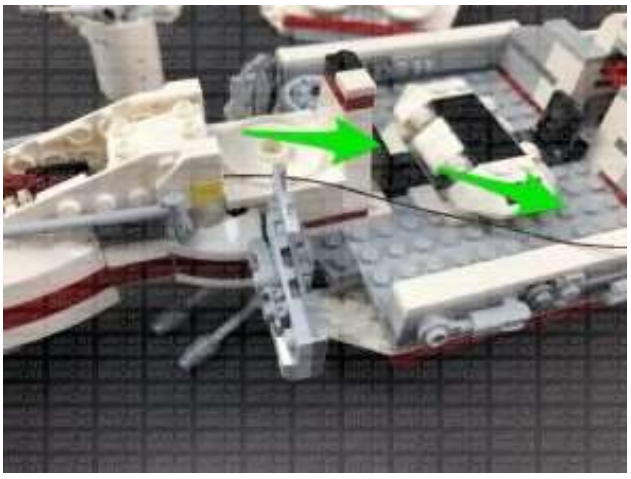





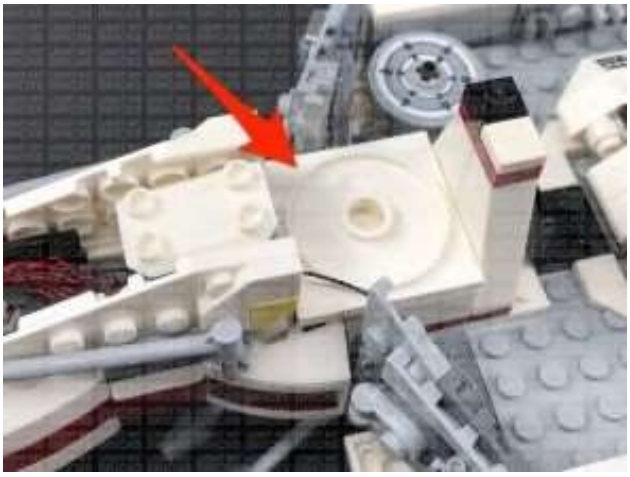
Bring the other end of the 15cm Connecting Cable toward the back, then slip it in between the middle and side sections as shown below.

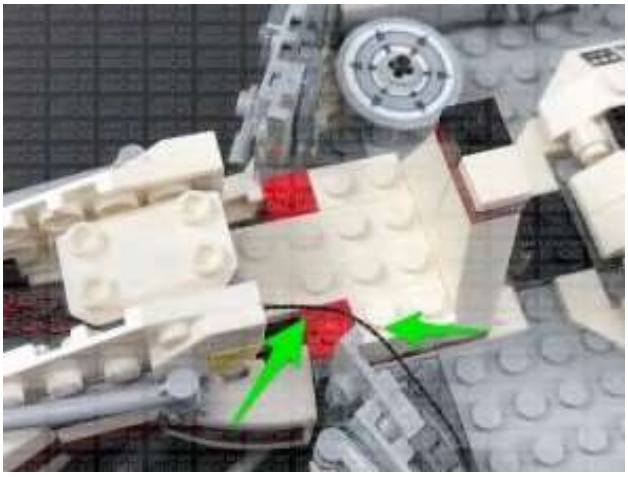


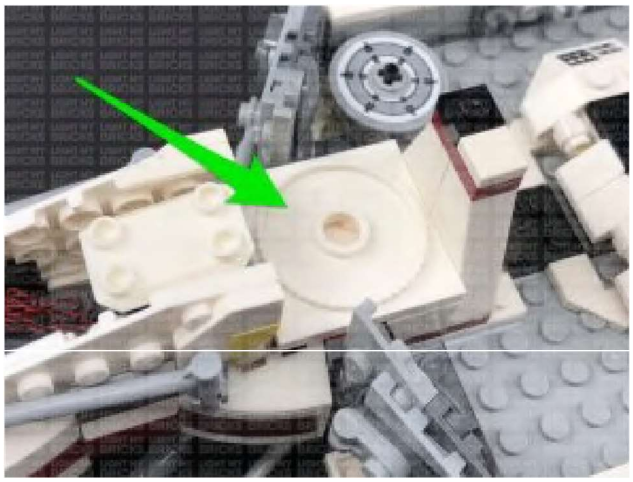




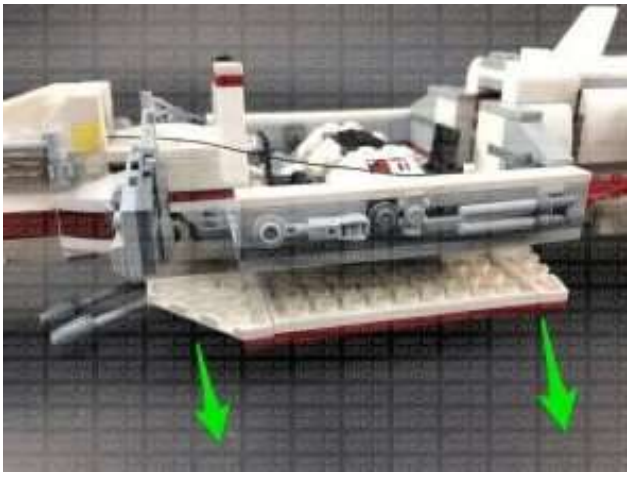
Disconnect the following white square plate and lay the cable in between studs underneath, before reconnecting the square plate over the top.

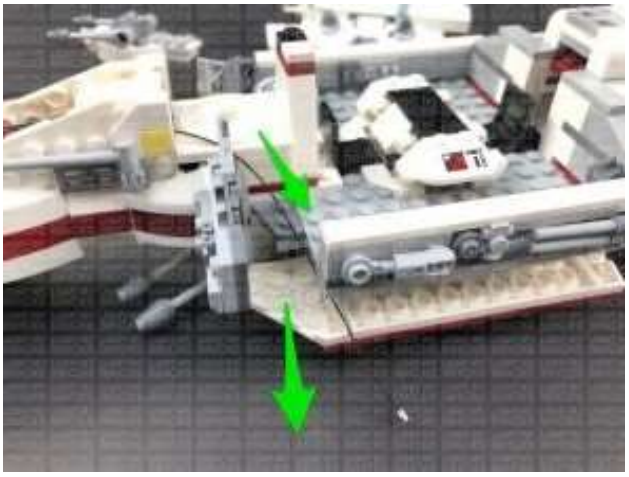


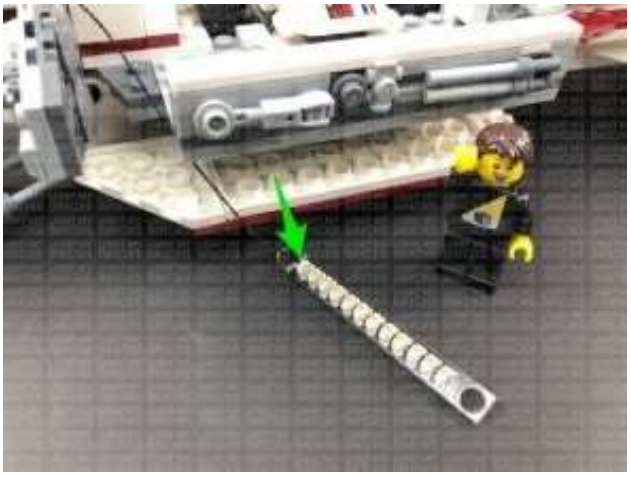




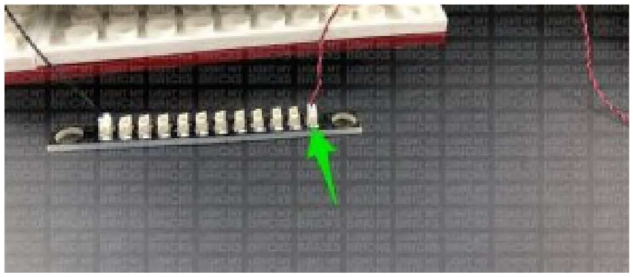
6.) Open the lower compartment, then bring the cable out the side to connectto the first port on a **12-Port Expansion Board**





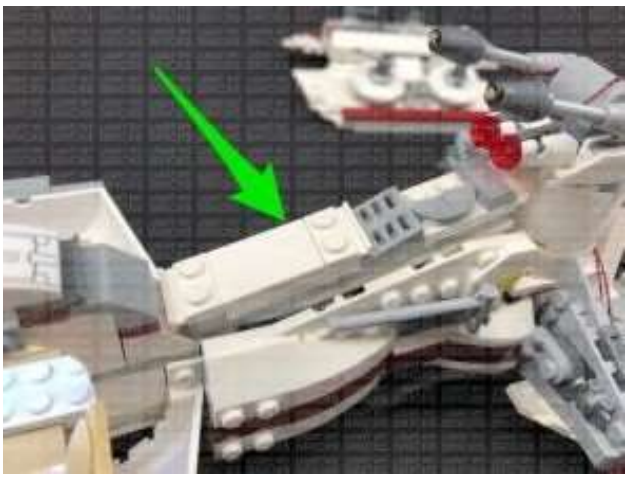


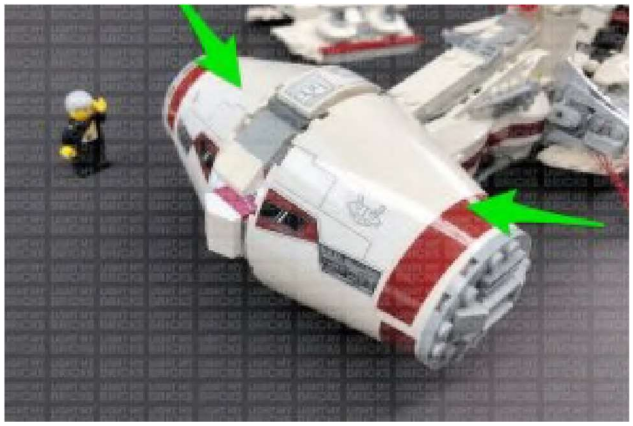
Reconnect the USB Power Cable to the last port on the 12-Port Expansion Board and connect up the USB Power Bank to test the cockpit lights are working OK.



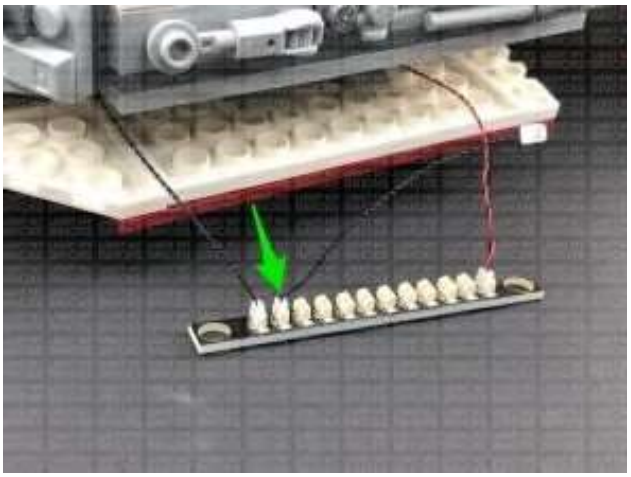
Note: If you experience any issues with the lights not working and suspect an issue with a component, please try a different port on the expansion board to verify where the fault lies (with the light or expansion board). To correct any issues with expansion board ports, please view the section addressing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

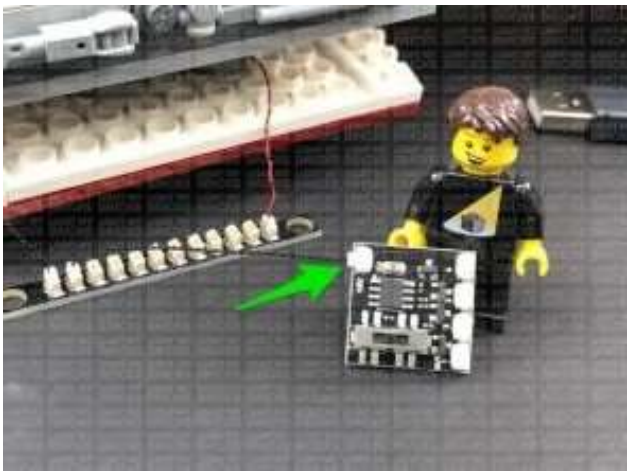
Reconnect the middle section behind the cockpit, as well as the two front side sections.



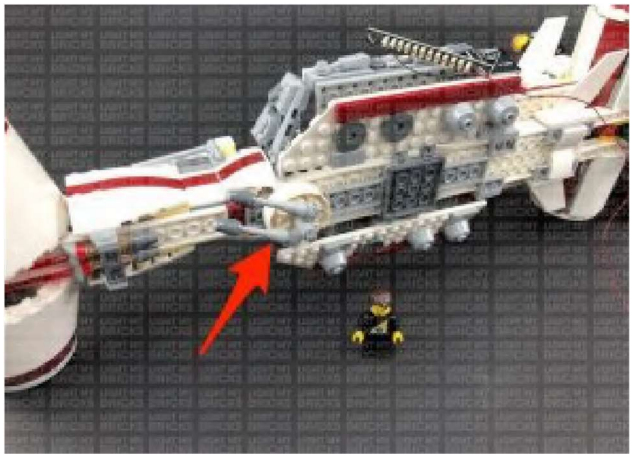


7.) Take a **5cm Connecting Cable** and connect it to the 12-Port Expansion Board, connect the other end of the cable to the **IN** (+5V) port on the **Gun Effects Board** (G3FX V1).

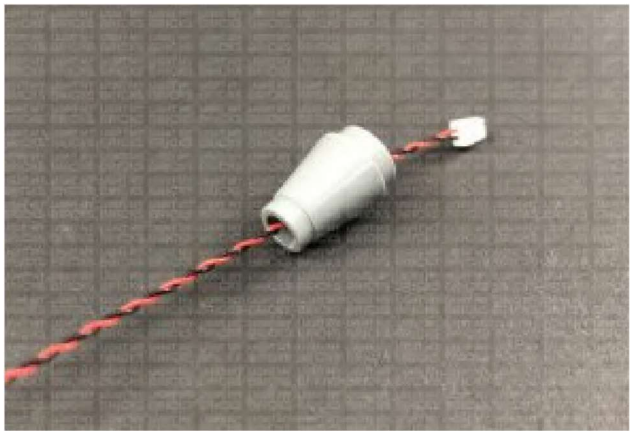


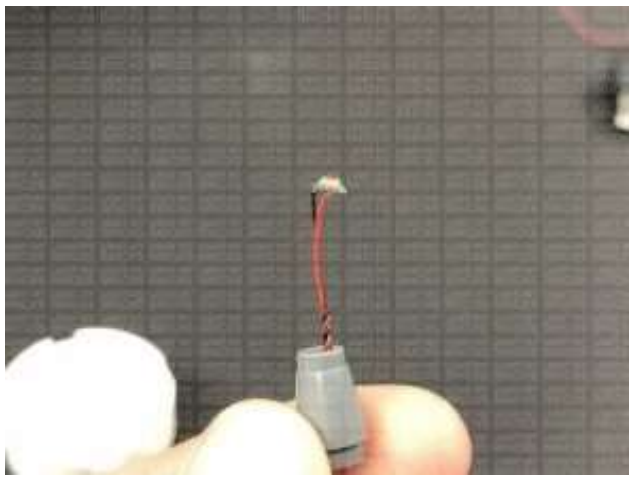
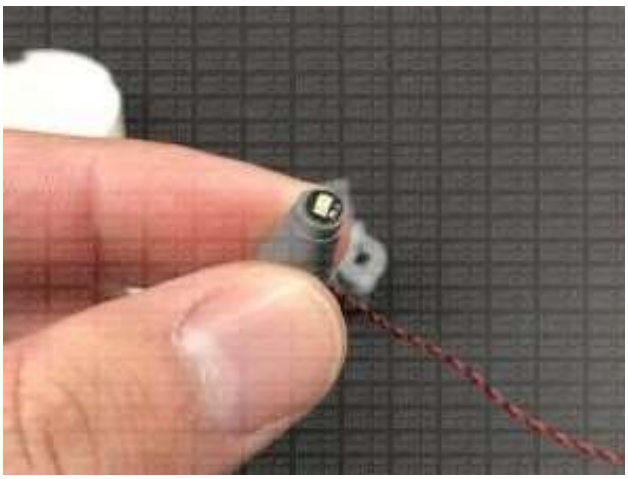
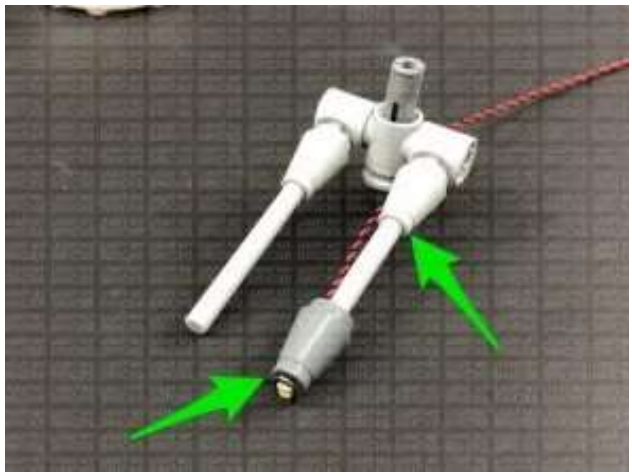


Place the Tantive IV onto it's side to allow us to disconnect the lower cannon section, then disassemble this section as shown below:

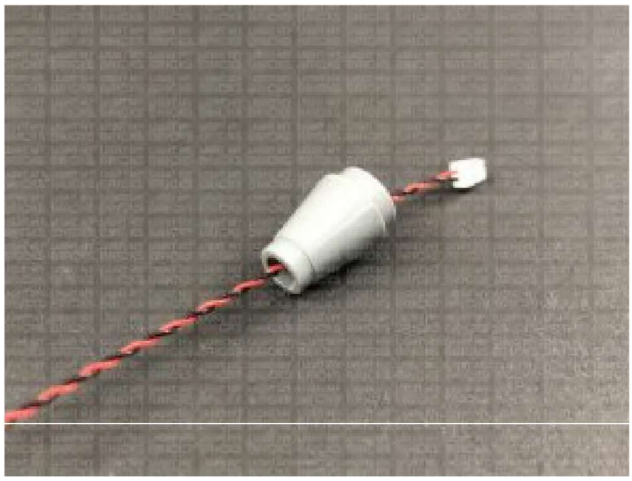
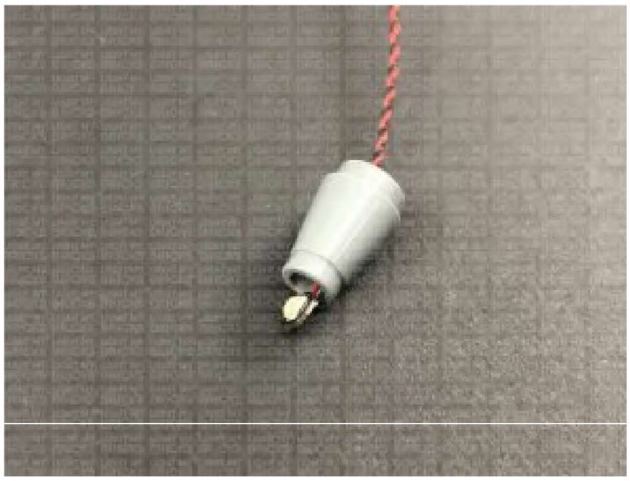
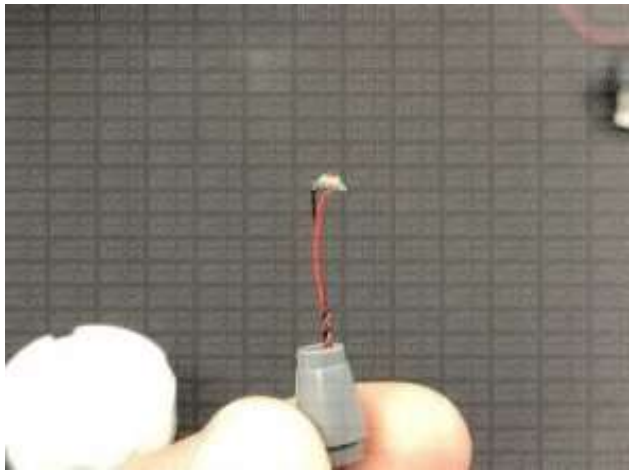
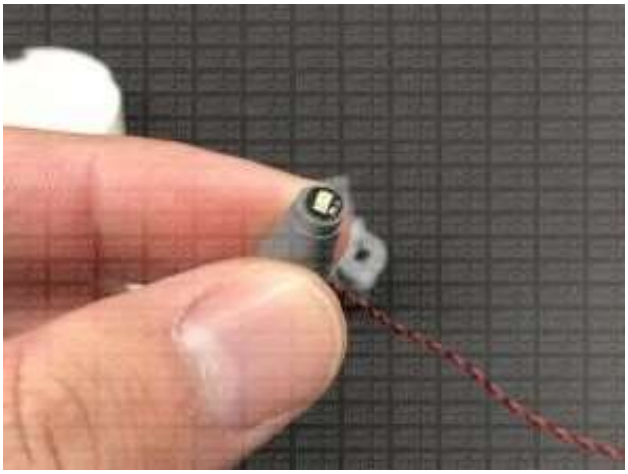
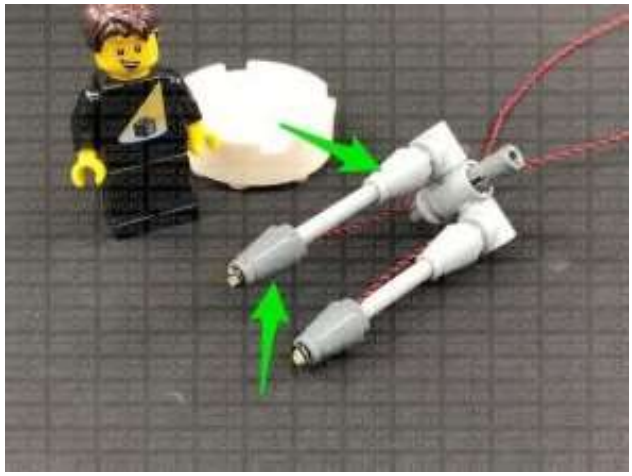


8.) Take a **Red 30cm Bit Light** and thread the connector end of the cable all the way through the top of one of the grey cone pieces. Carefully bend the Bit Light so that the LED sits flat against the top of the cone piece, then reconnect grey bar at the bottom before reconnecting it back to the cannon base. Ensure the cable is facing toward the middle.

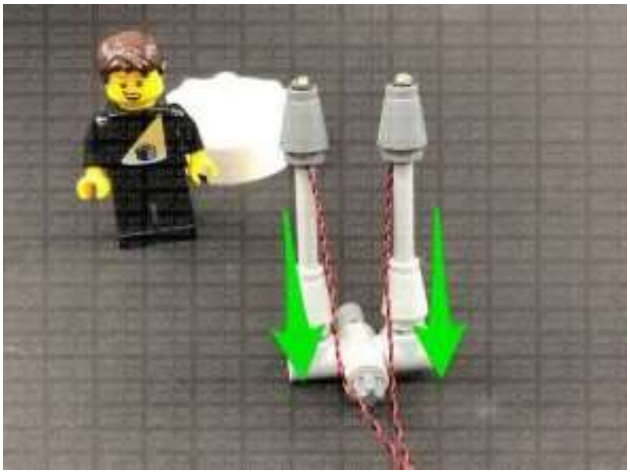


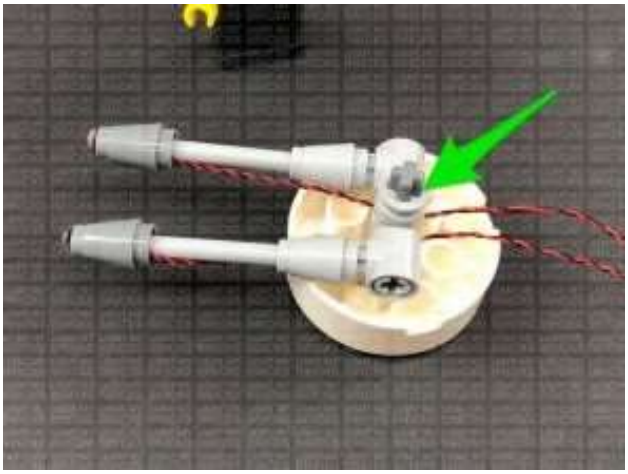




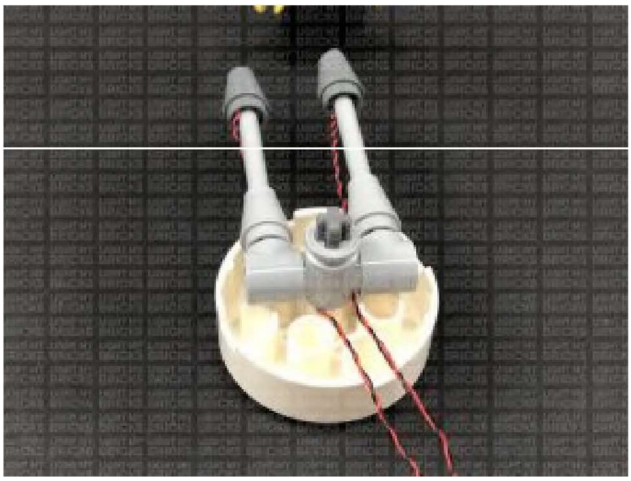
Repeat this step to install another **Red 30cm Bit Light** to the other cannon.

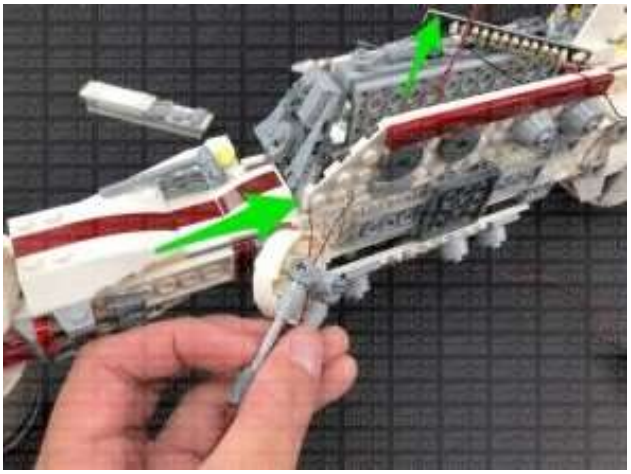
9.) Turn the cannon section over to the top side and bring both cables downtoward the back before reconnecting it back to the white round brick.

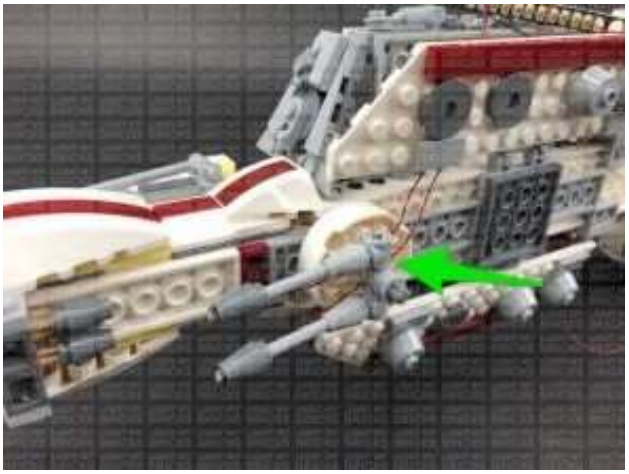


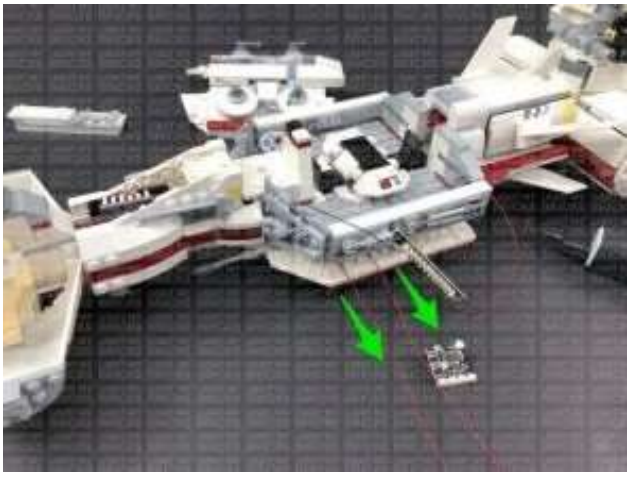


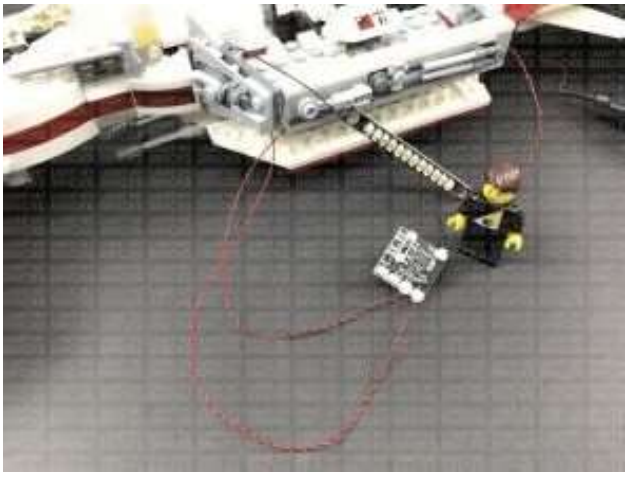


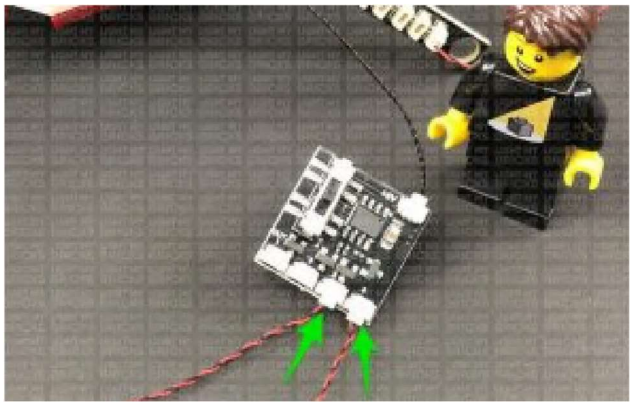
Thread the two cables through the lower compartment of the ship before reconnecting the lower cannons underneath. Flip the ship back over and connect the two bit light cables to **OUT** ports **3** and **4** of the Gun Effects Board.



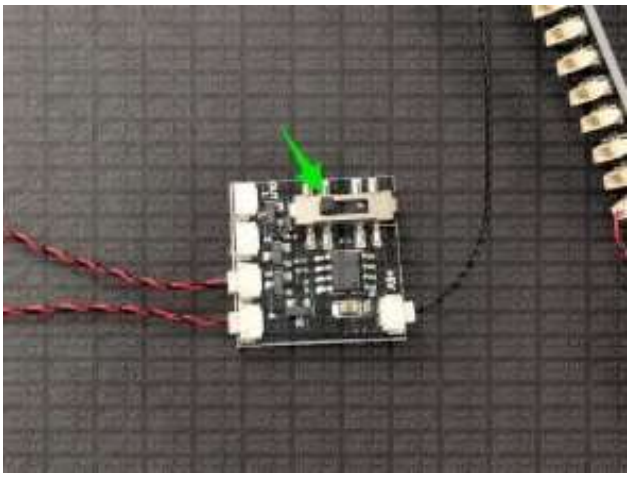


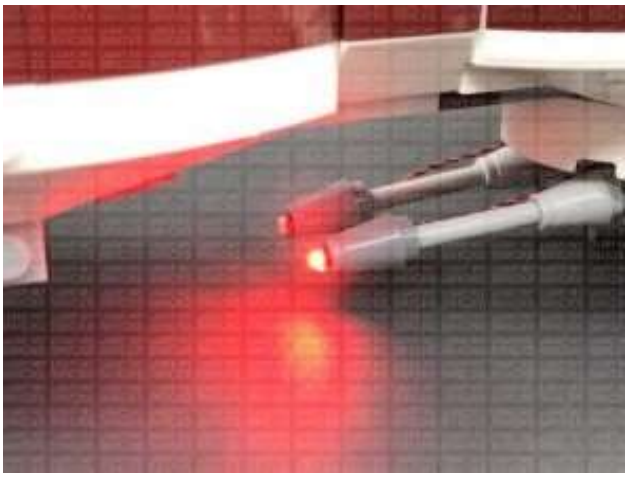






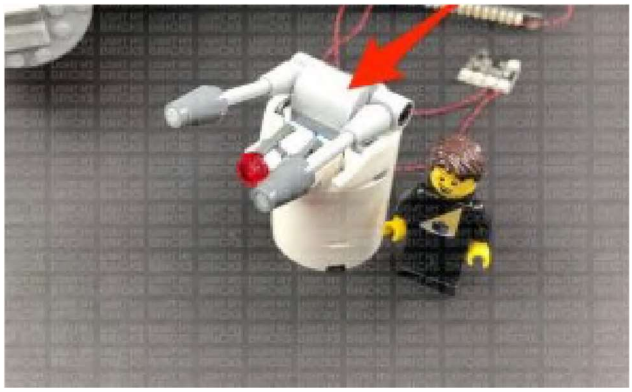
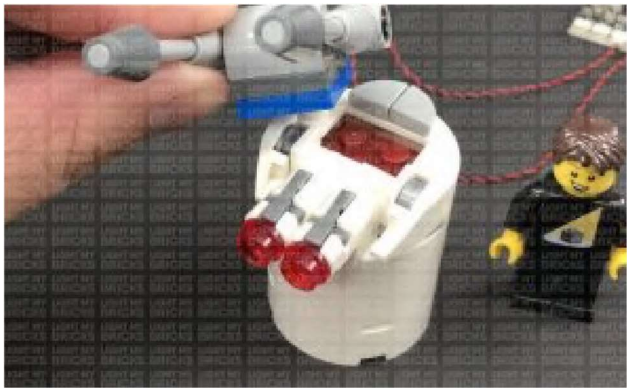
The Gun Effects Board has 3 different gun effects, which can be configured via the 3-way switch. The effect used in the product video example is the Cannon (blaster) effect which can be set by flicking the switch to the far right. Turn your USB Power Bank ON and choose your desired effect. Watch the lower cannons fire away. Alternatively, you can set your desired gun effect via flicking to any of the other switch settings.

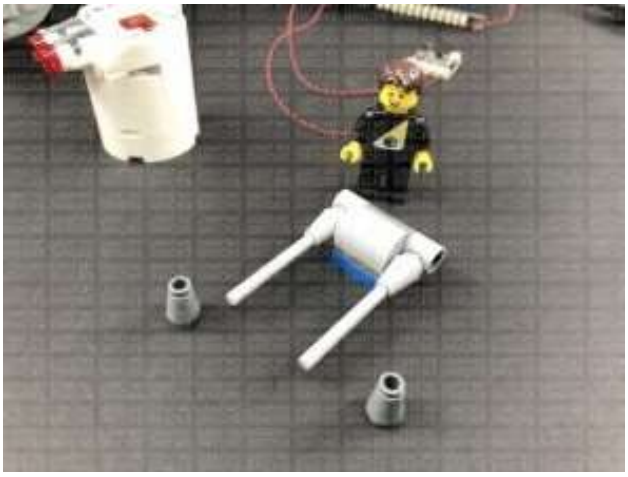




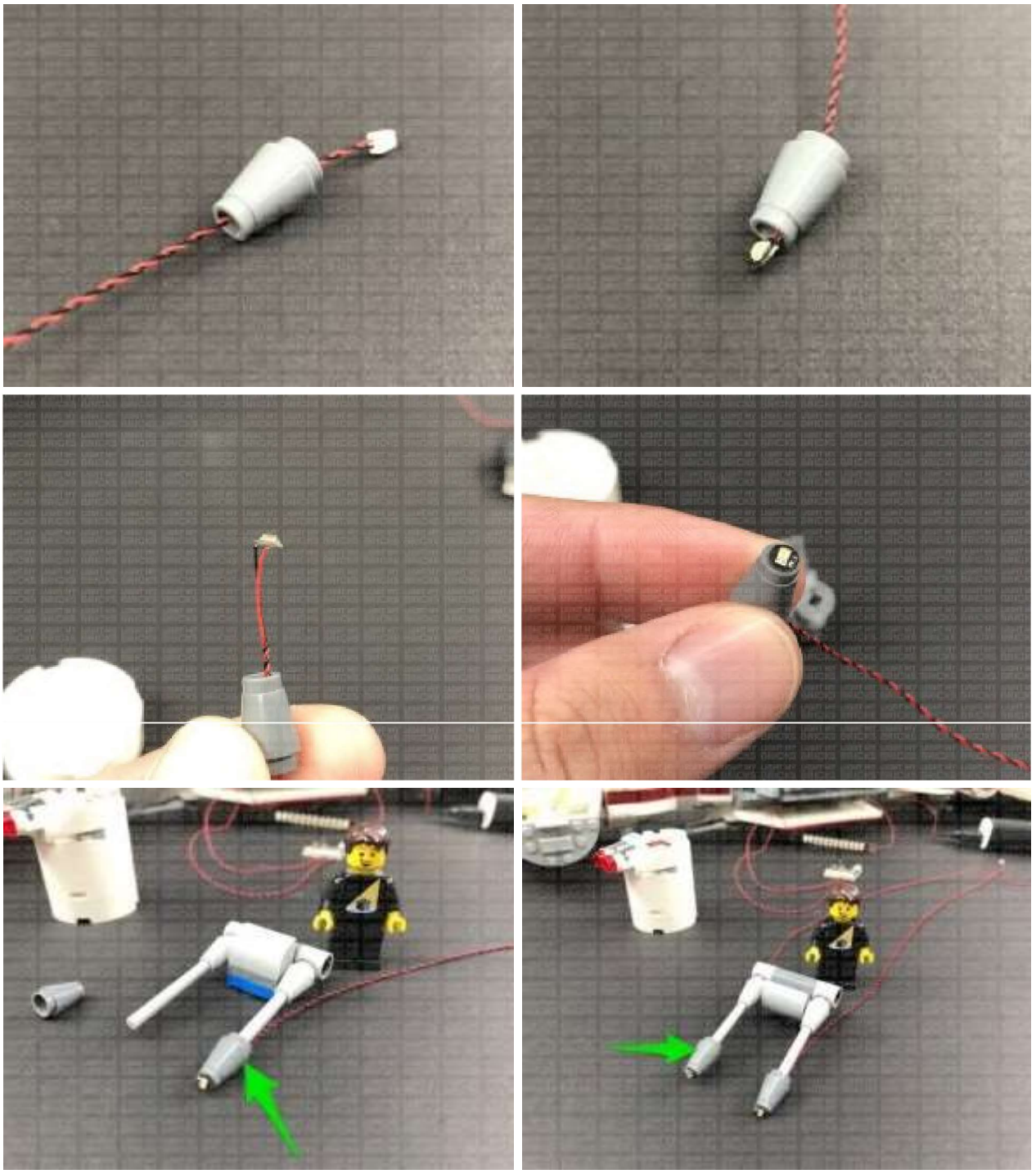
Note: If you experience any issues with the lights not working and suspect an issue with a component, please try a different port on the expansion board to verify where the fault lies (with the light or expansion board). To correct any issues with expansion board ports, please view the section addressing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

10.) We will now install the upper cannon lights. Take the upper cannon sectionand disconnect the top as shown below, then disconnect the two cone pieces.

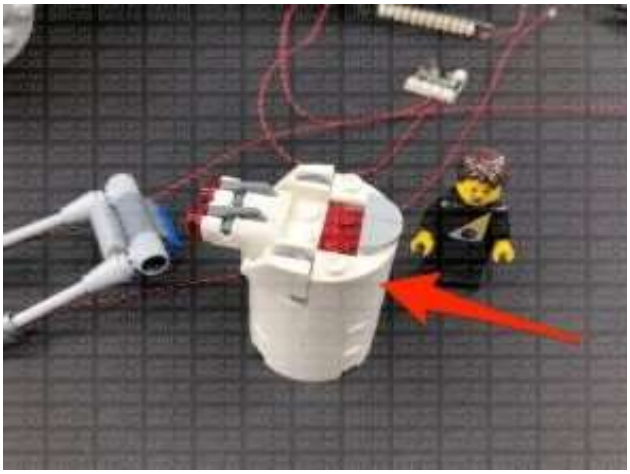
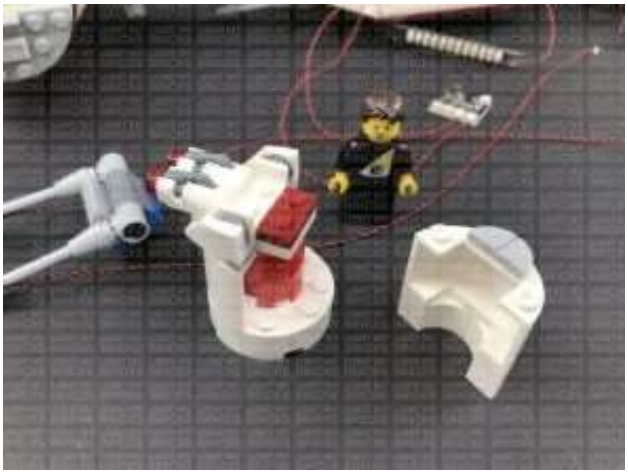





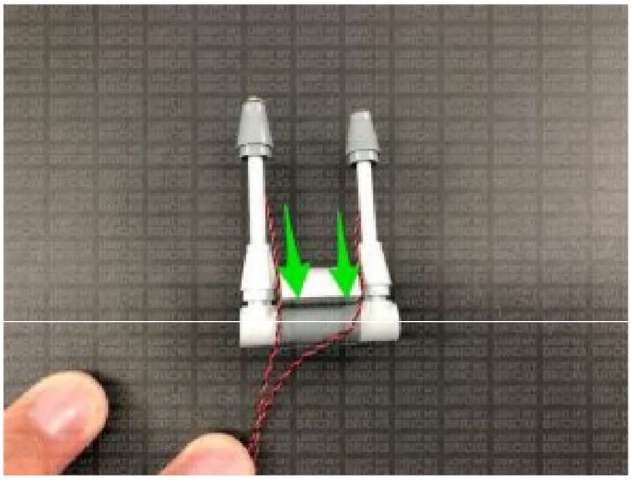
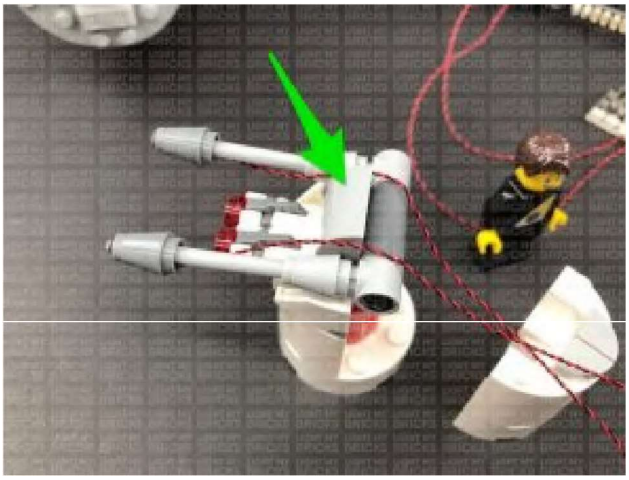
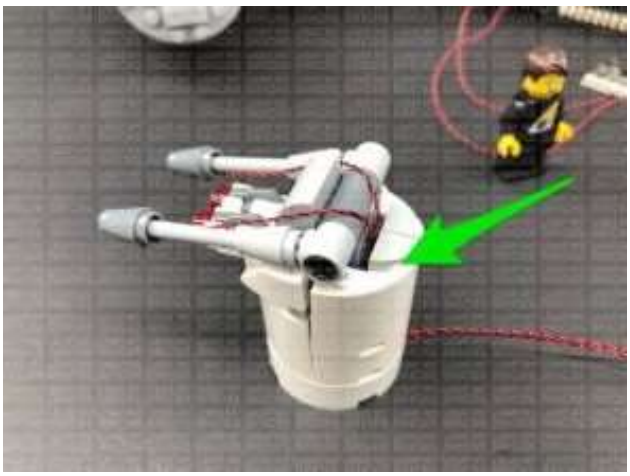
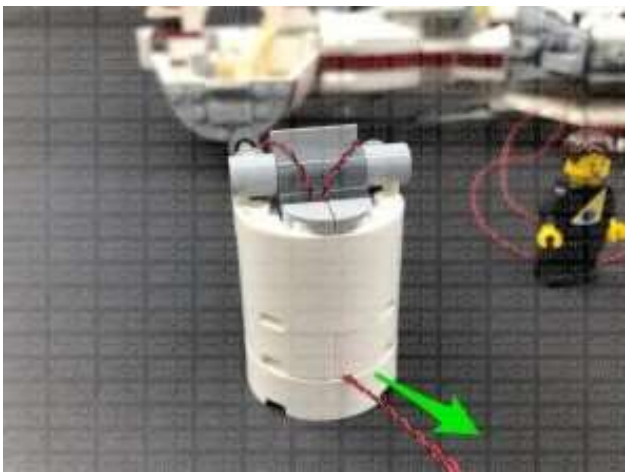
Using the same method used for the lower cannons, install another **2x Red 30cm Bit Lights** to the upper cannons.



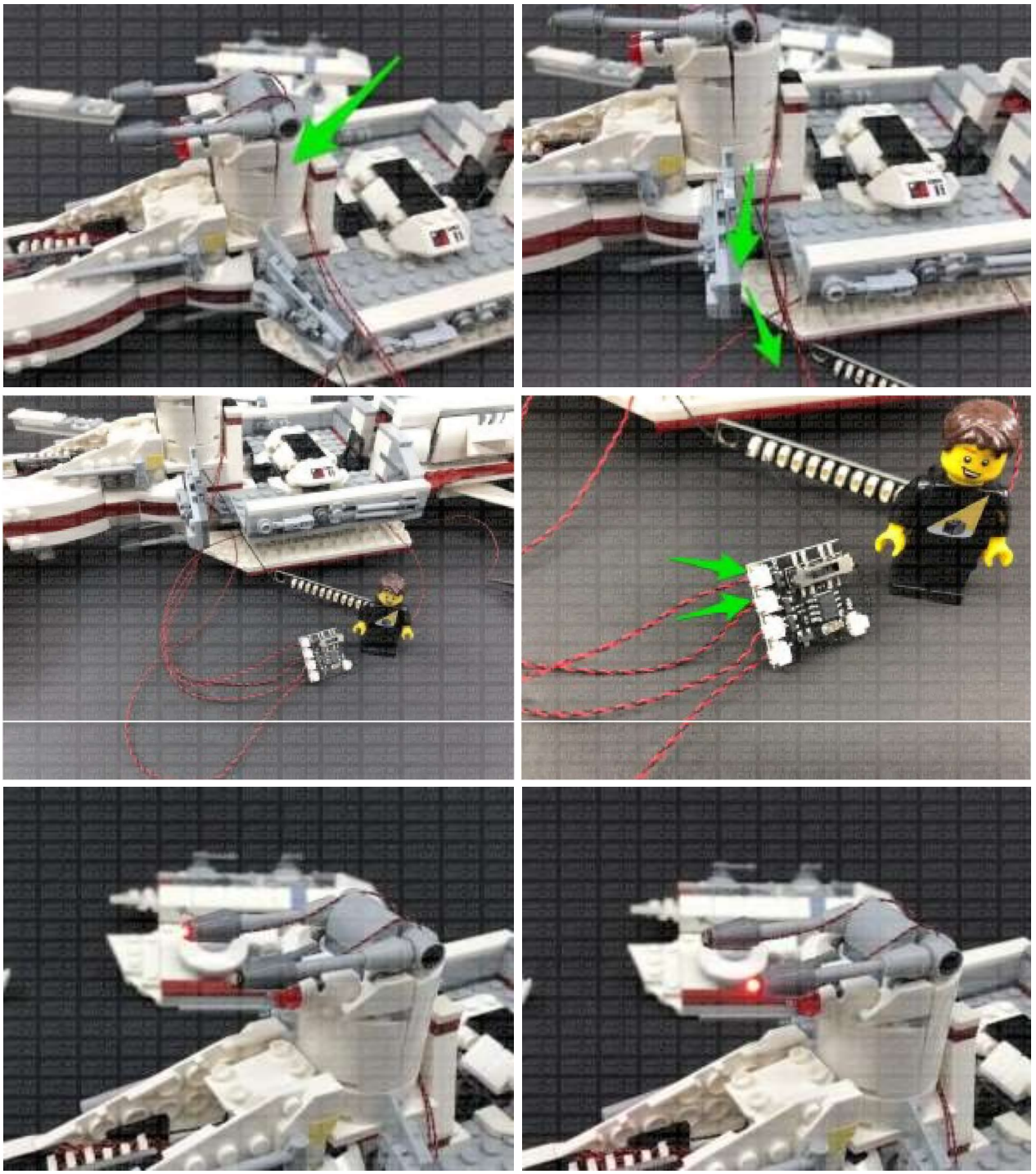
11.) Take the bottom section of the upper cannons and disconnect the back

Turn the cannons over and bring both cables down the middle before reconnecting back to the bottom section. Ensuring both cables are laid down the middle and in between studs, reconnect the back section.

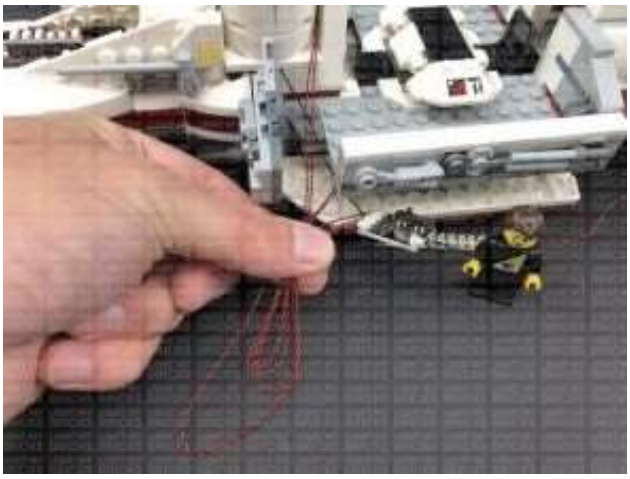
12.) Reconnect the upper cannon section to the top of the ship, then lay the twobit light cables down behind to connect to **OUT** ports **1** and **2** on the Gun Effects Board. Turn the USB Power Bank ON to test both upper and lower cannons are working OK.

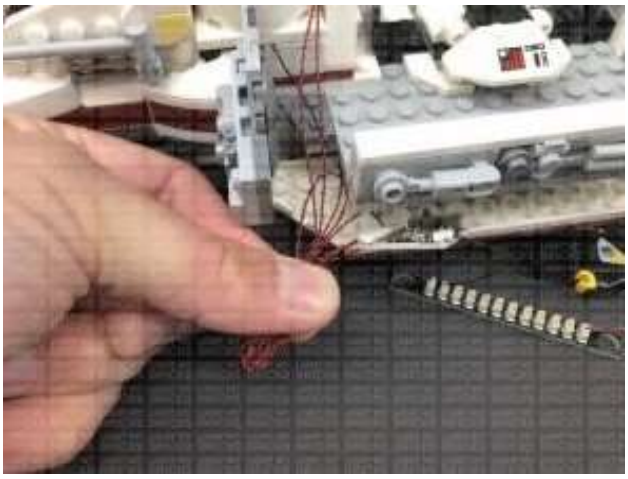


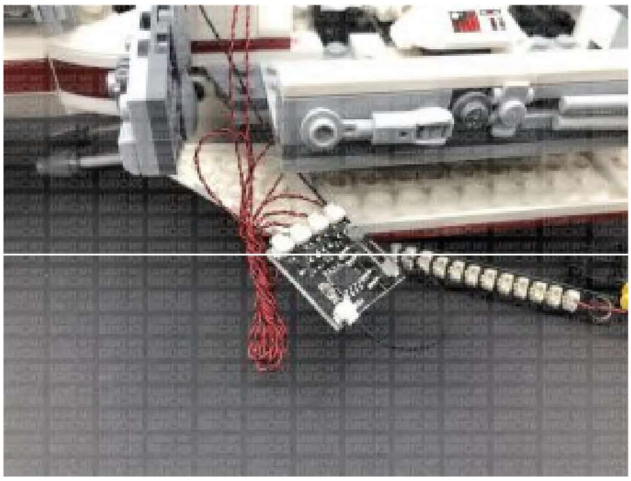
Note: If you experience any issues with the lights not working and suspect an issue with a component, please try a different port on the expansion board to verify where the fault lies

(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.**

Neaten up excess cables from the Red Bit Lights by grouping them together and twisting/folding them into a neat bunch as shown below:

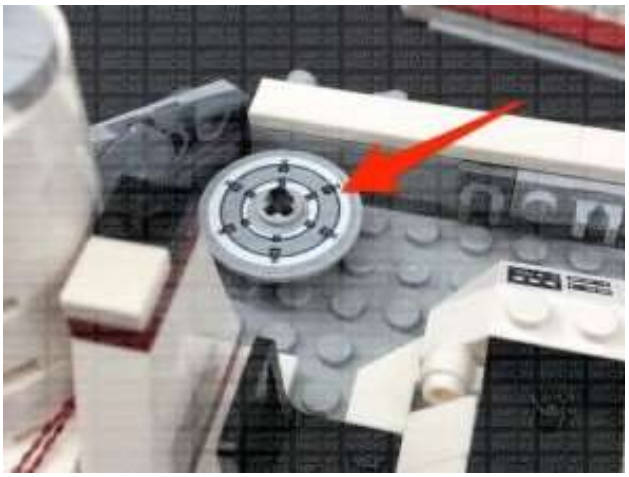


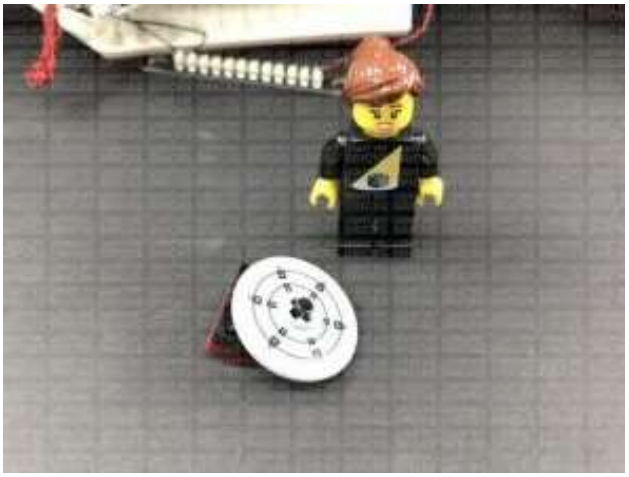


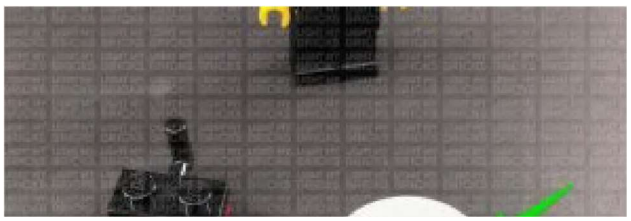


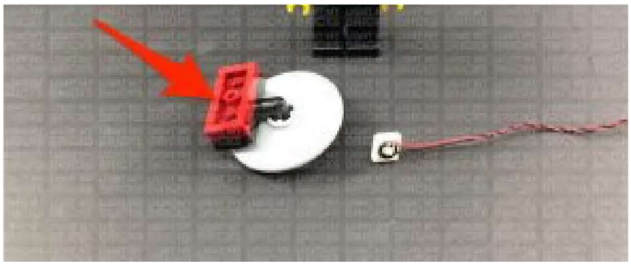
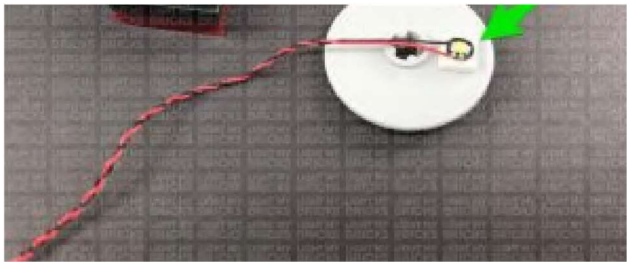
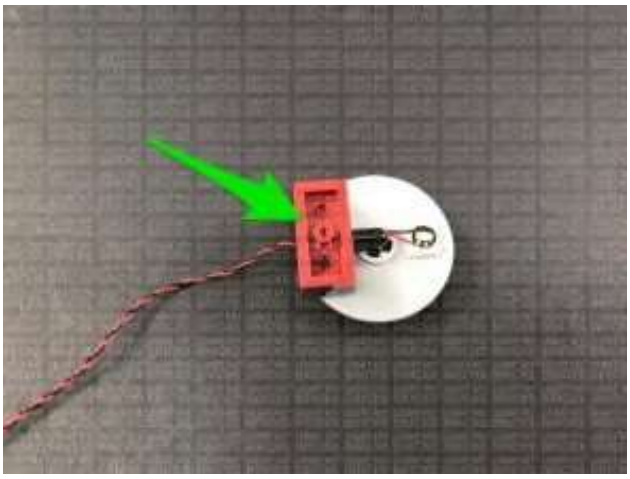
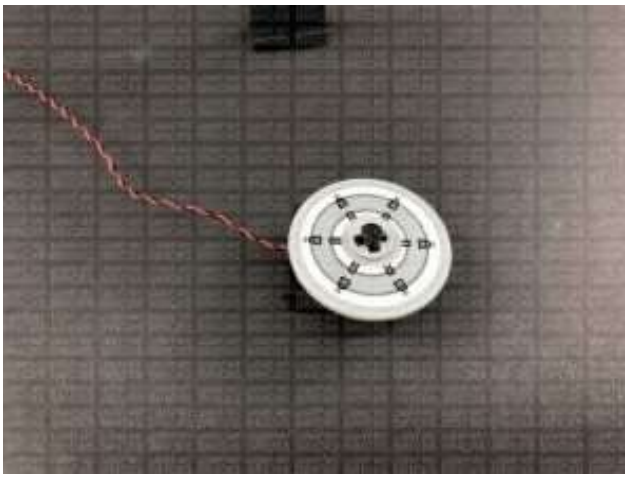
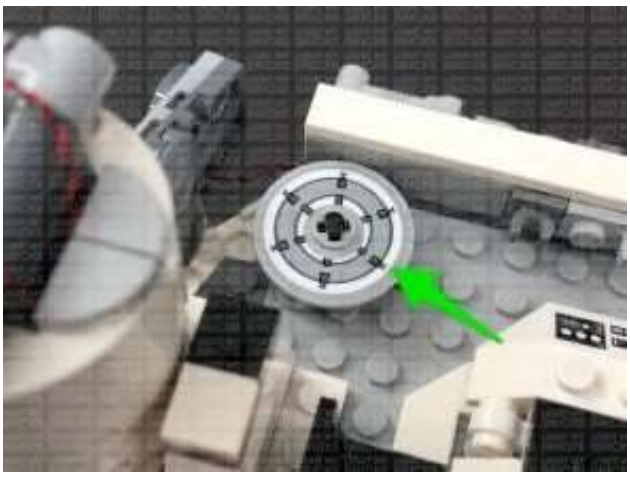
13.) We will now install lights to the inside of the cabin area. First disconnect thecorner table, then disconnect the black plate with bar from underneath. Take a **Cool White 30cm Bit Light** and with the cable facing the back, stick it underneath the table in the following position using an **Adhesive**

Square. Reconnect the black plate with bar over the top of the cable, then turn the table over and reconnect it to the cabin area.



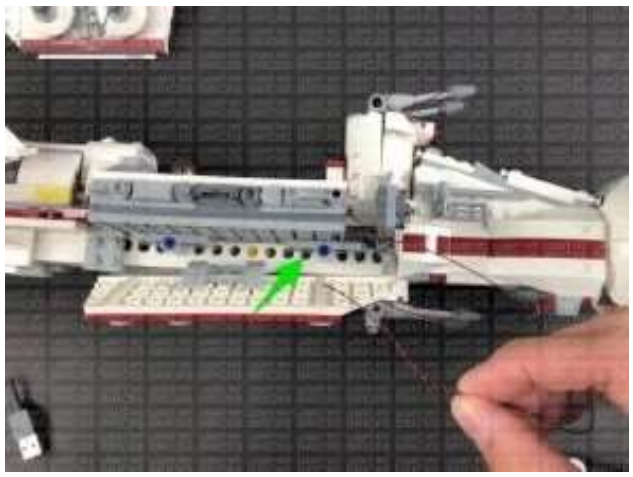
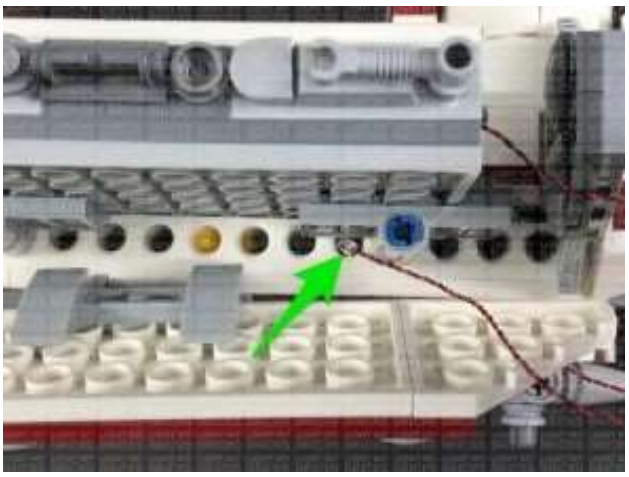
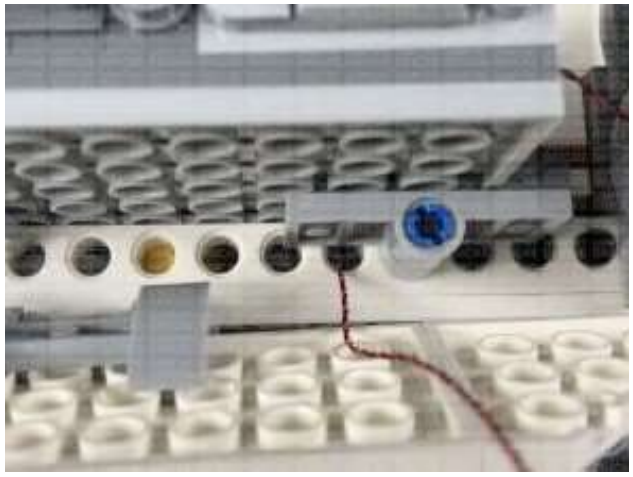
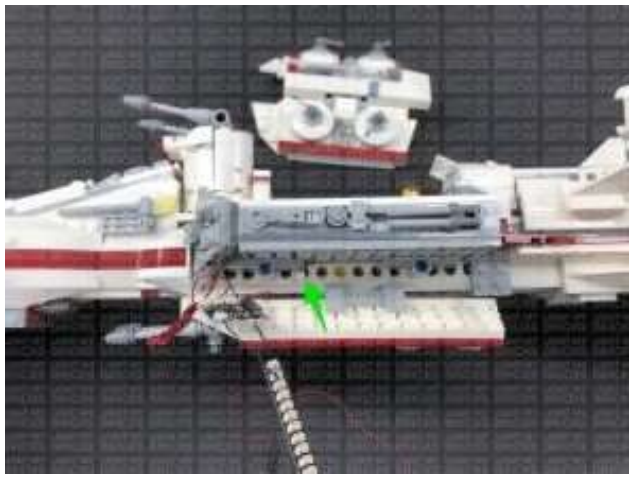
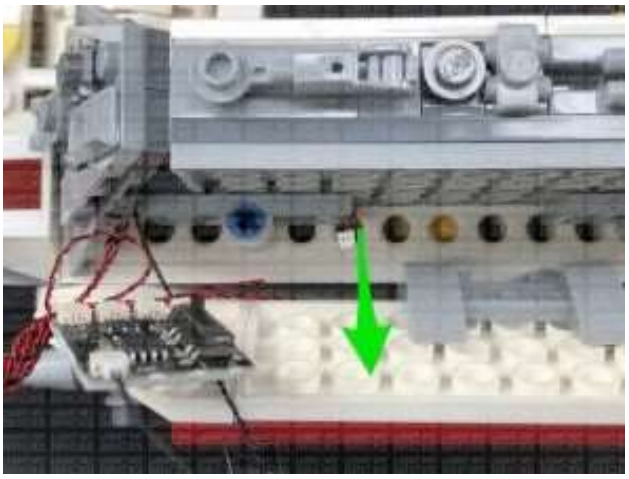
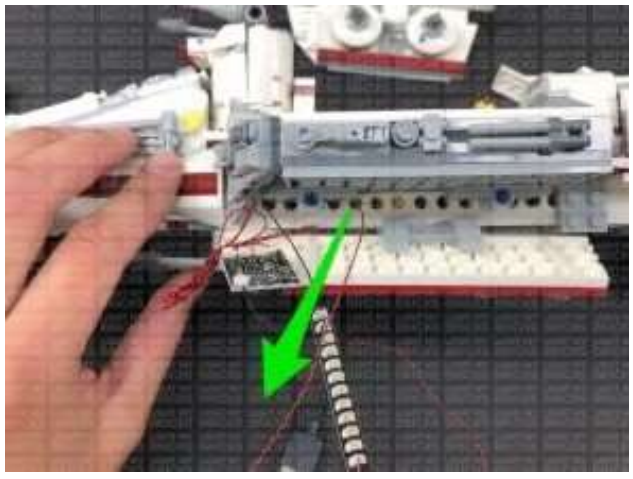
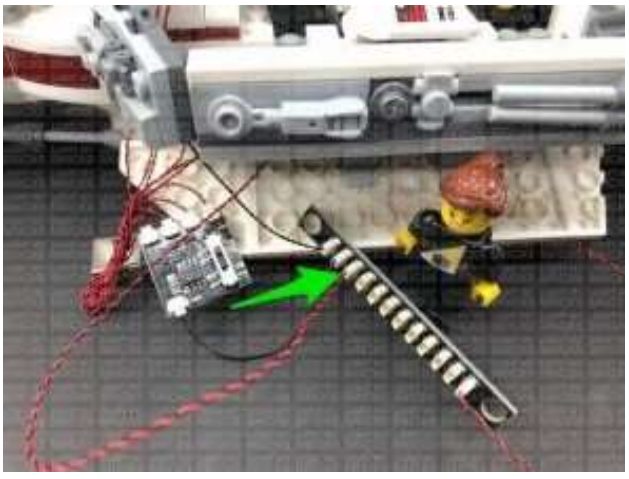




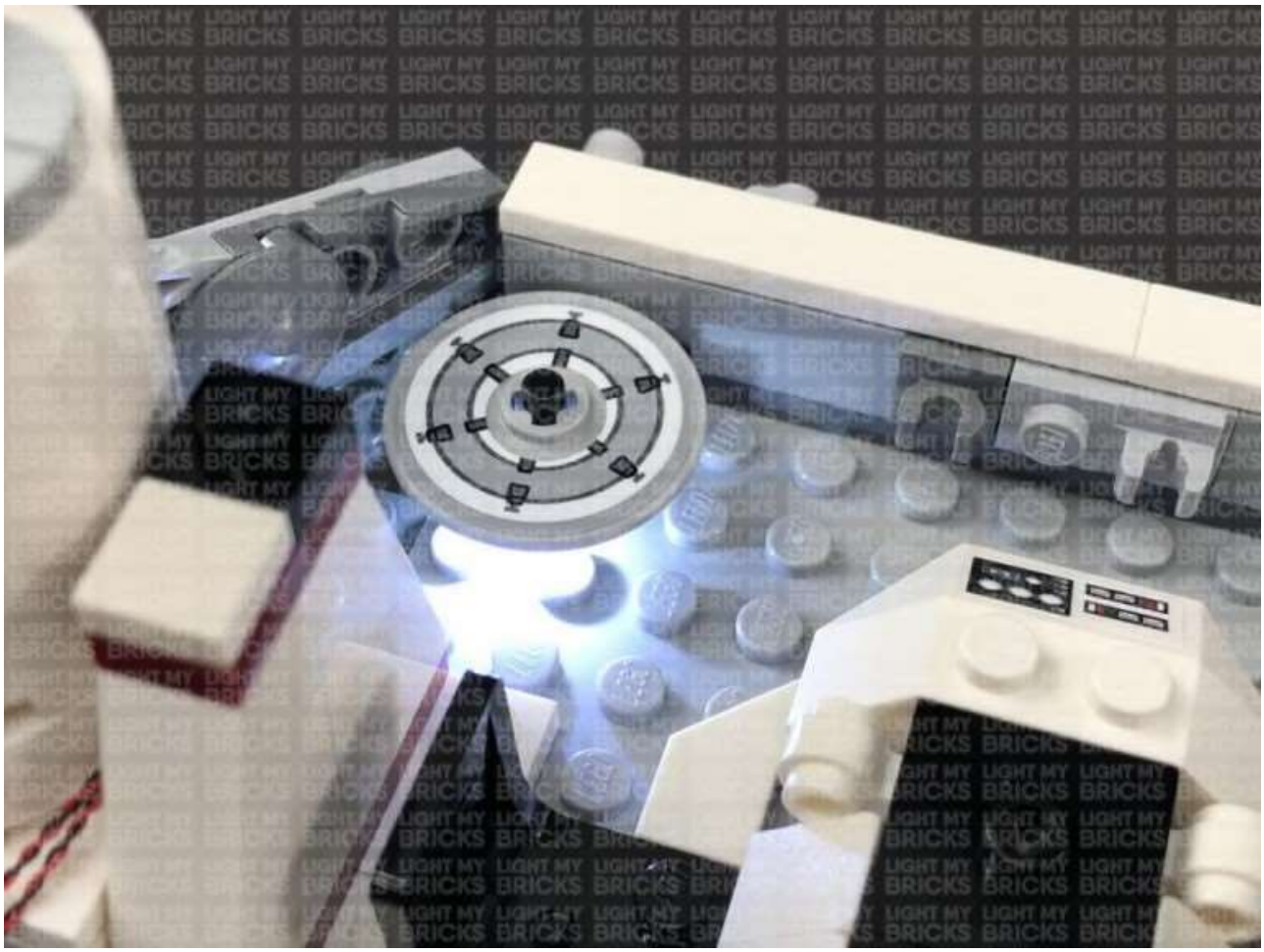






Turn the Tantive over to the other side and open up the lower compartment. Thread the other end of the Bit Light cable through the following hole of the white technic brick underneath. Thread the cable all the way through to the other side, then turn the Tantive back around and pull the cable all the way out.

Connect the Bit Light to the next port on the 12-Port Expansion Board.

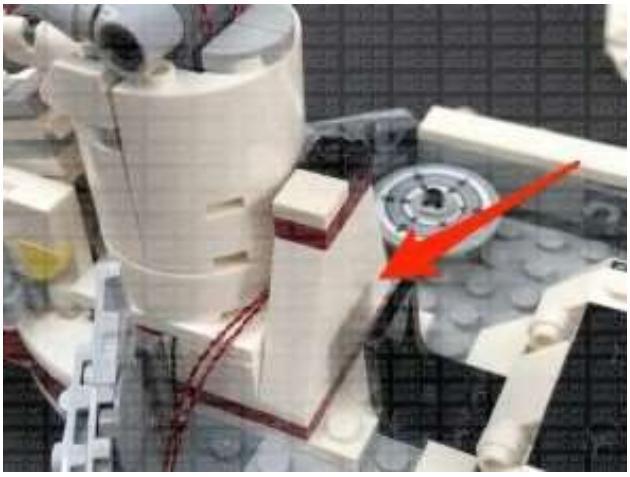
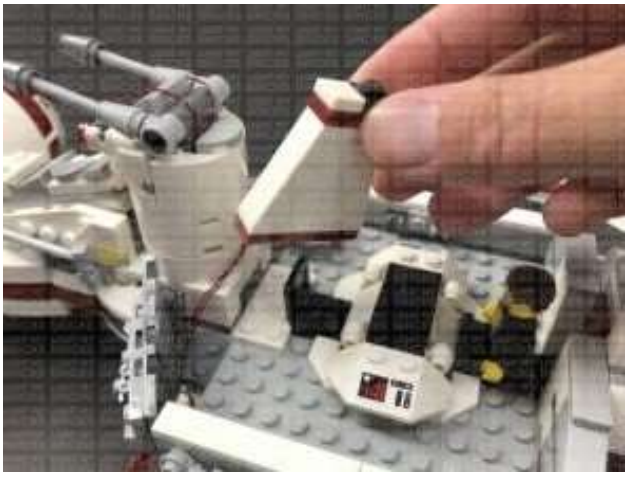
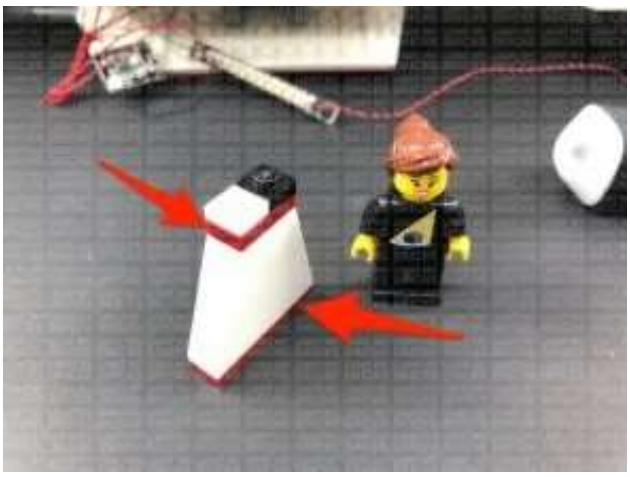
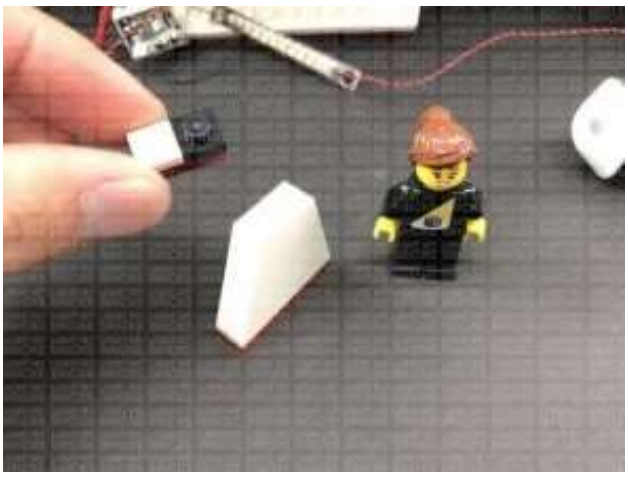
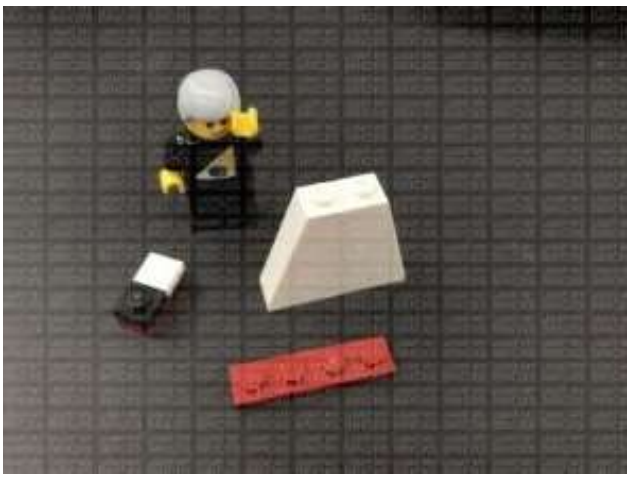








Turn ON the USB Power Bank to test the light under the table is working OK.

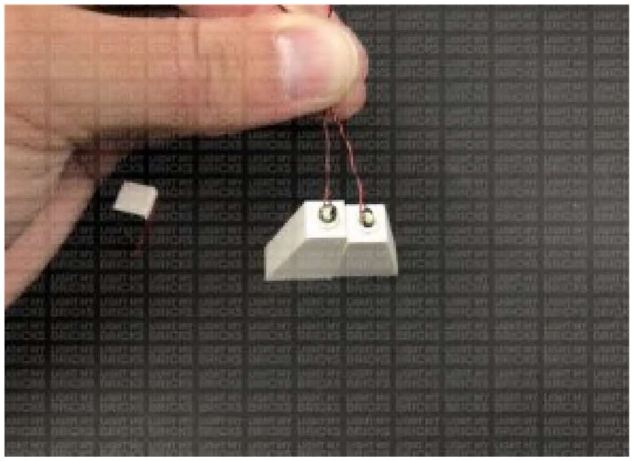
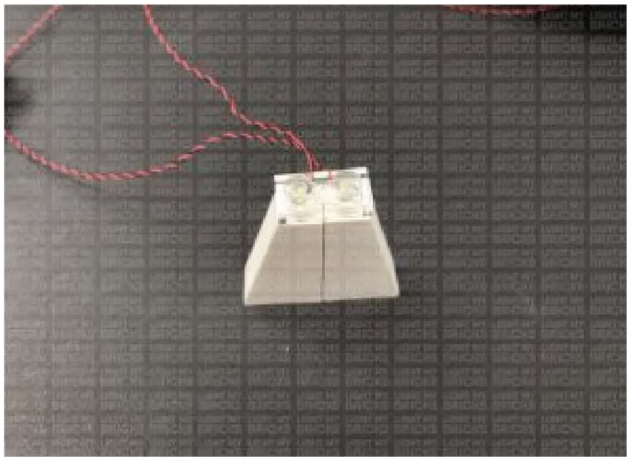
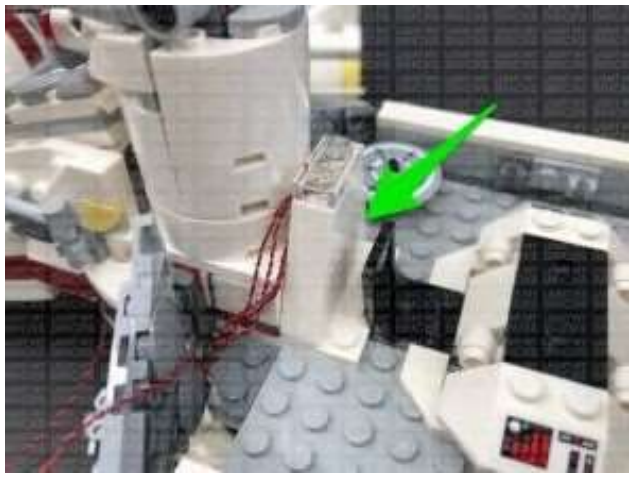
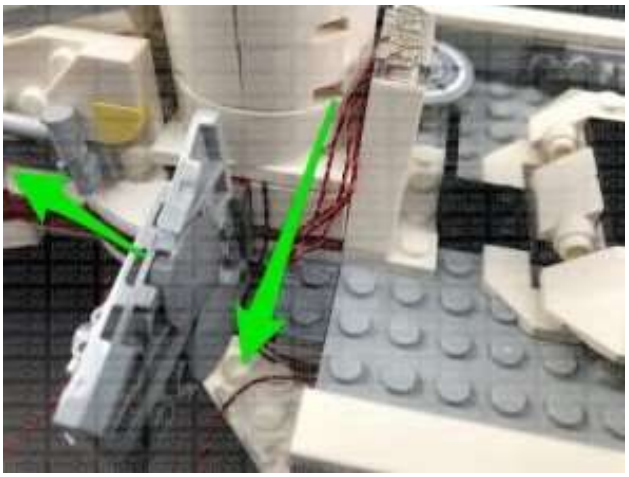
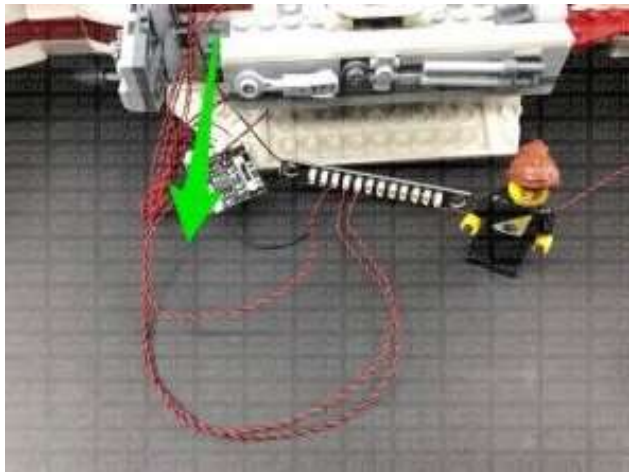
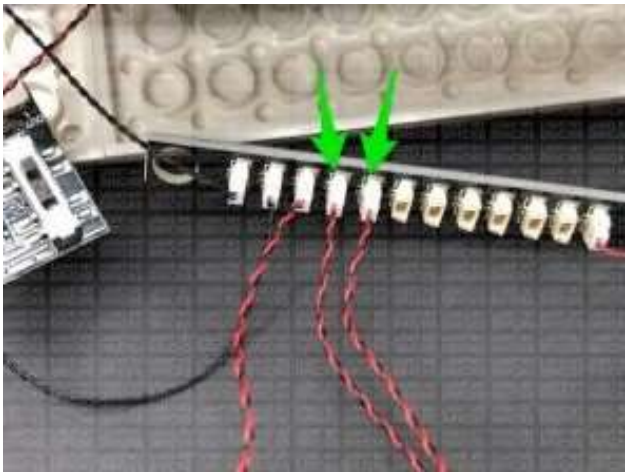


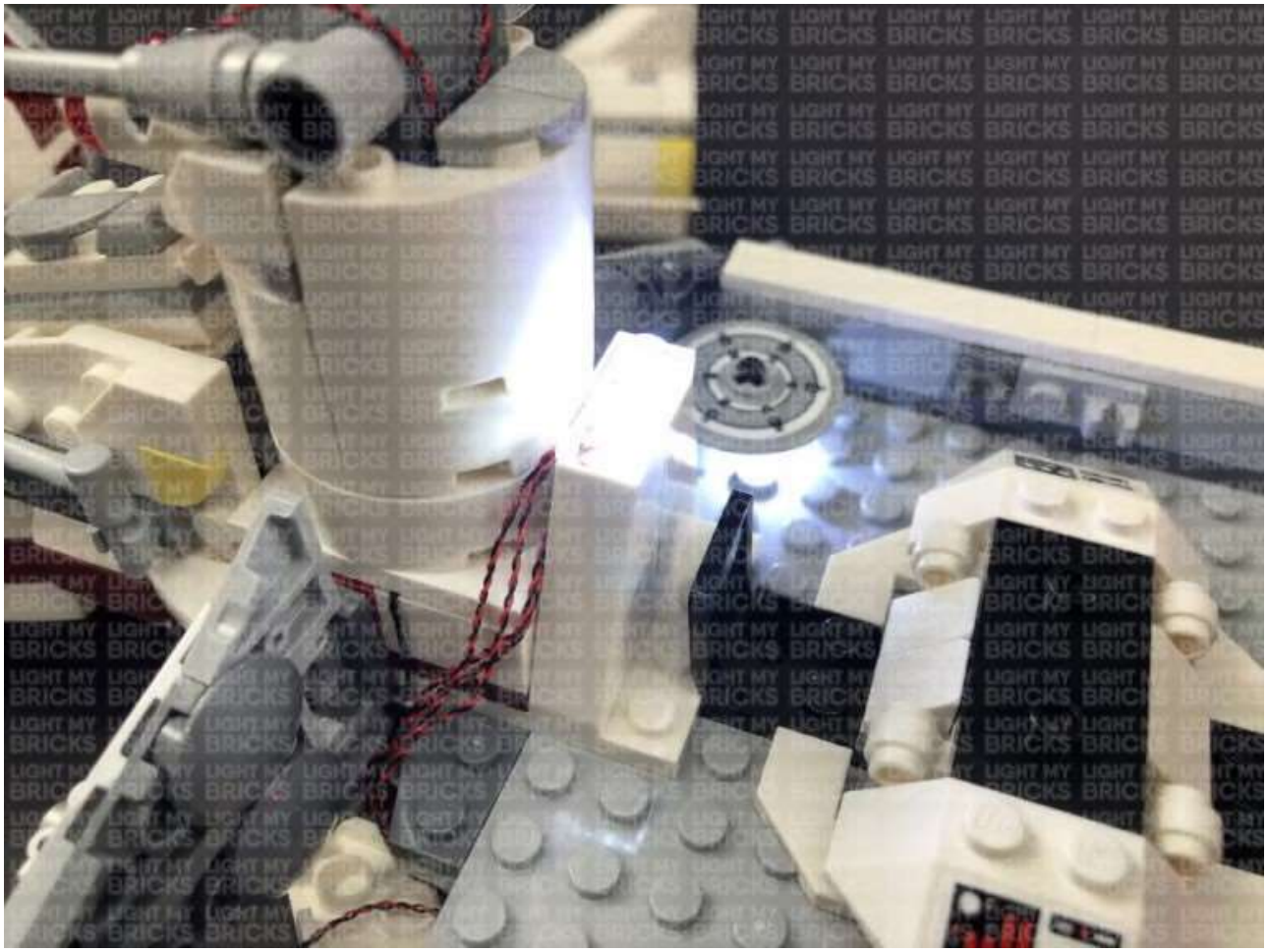
Note: If you experience any issues with the lights not working and suspect an issue with a component, please try a different port on the expansion board to verify where the fault lies (with the light or expansion board). To correct any issues with expansion board ports, please view the section addressing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

14.) We will now install some lights to the top section of the cabin. Firstdisconnect the wall section behind the upper cannons, then remove the plates above and underneath the two white angled bricks.

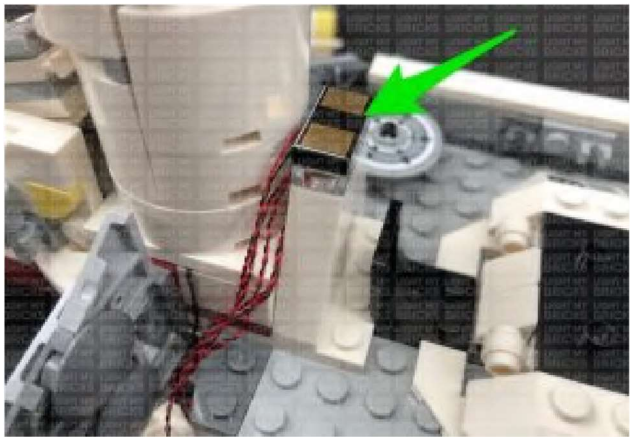
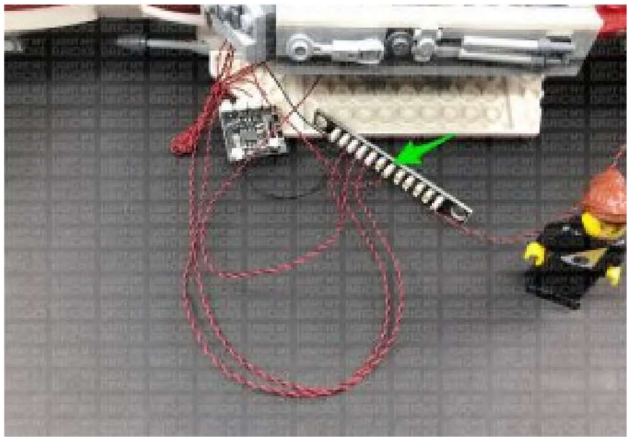
Take **2x Cool White 30cm Bit Lights** and with the cables facing behind, place them over the studs of the angled white bricks. Secure them in place by connecting a provided **Trans Clear Plate 1×2** over the top. Reconnect this section to the front of the cabin area and then run the cables down behind the wall. Pull out the corner wall section, then bring the cables underneath to connect them to the next available ports on the 12-Port Expansion Board. Turn the USB Power Bank ON to test the lights are working OK.

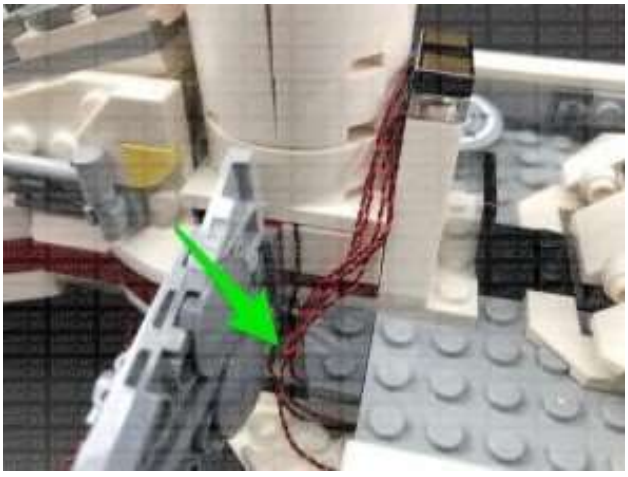
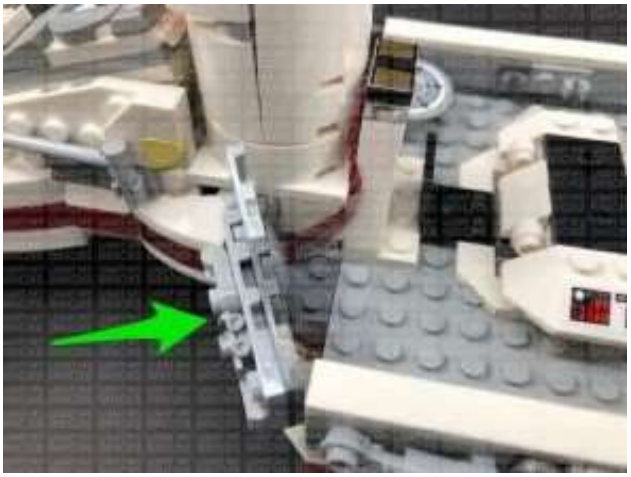


Note: If you experience any issues with the lights not working and suspect an issue with a component, please try a different port on the expansion board to verify where the fault lies (with the light or expansion board). To correct any issues with expansion board ports, please view the section addressing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

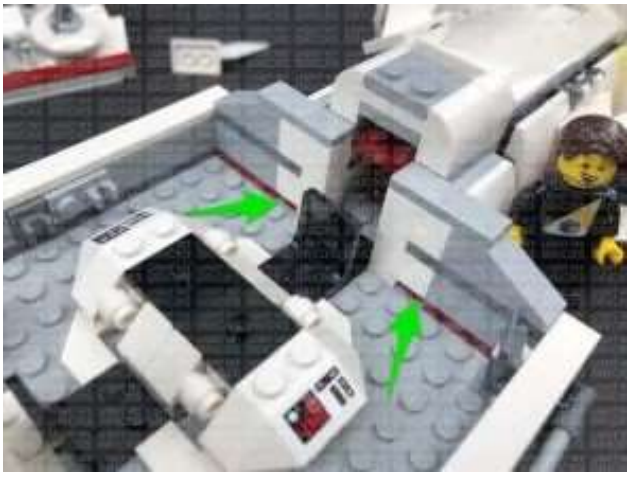
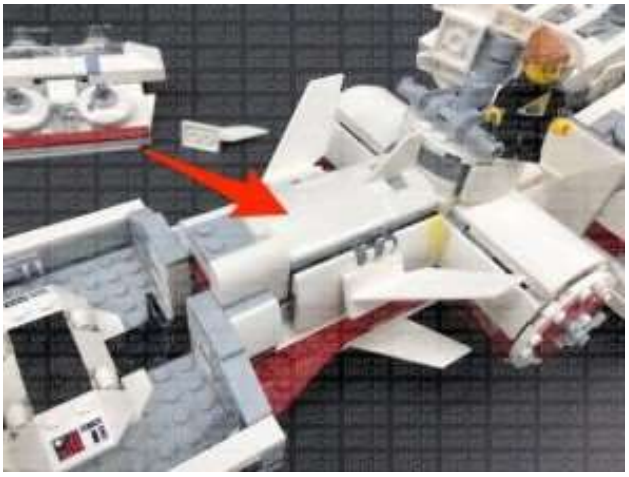
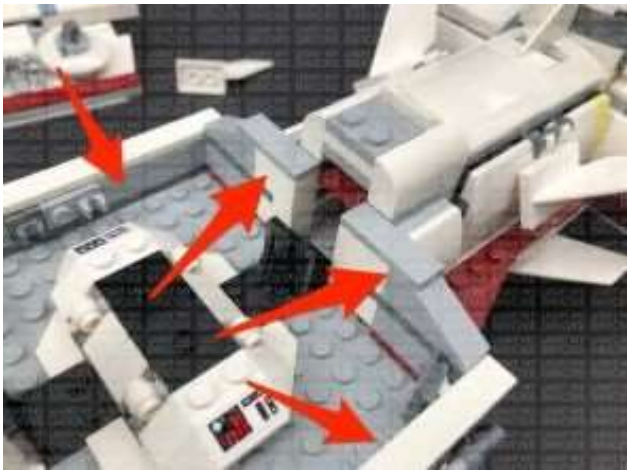
15.) Take the Negative side of the **Wireless Power Connector** (flat tile) and with the cable facing the front (same way as the Bit Light Cables) connect it over the trans clear plate. Run the cable down behind the wall, then underneath to connect it to the next port on the 12-Port Expansion Board.

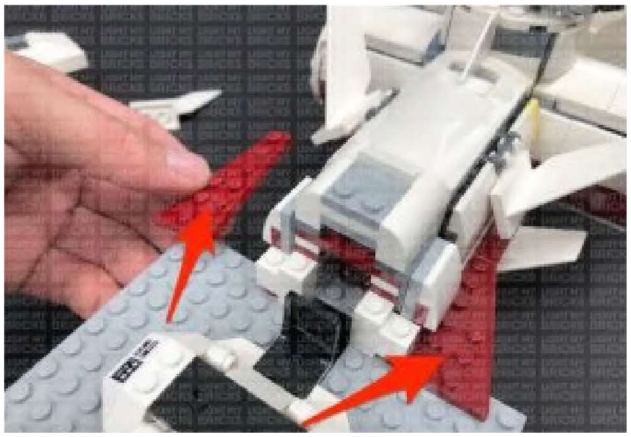



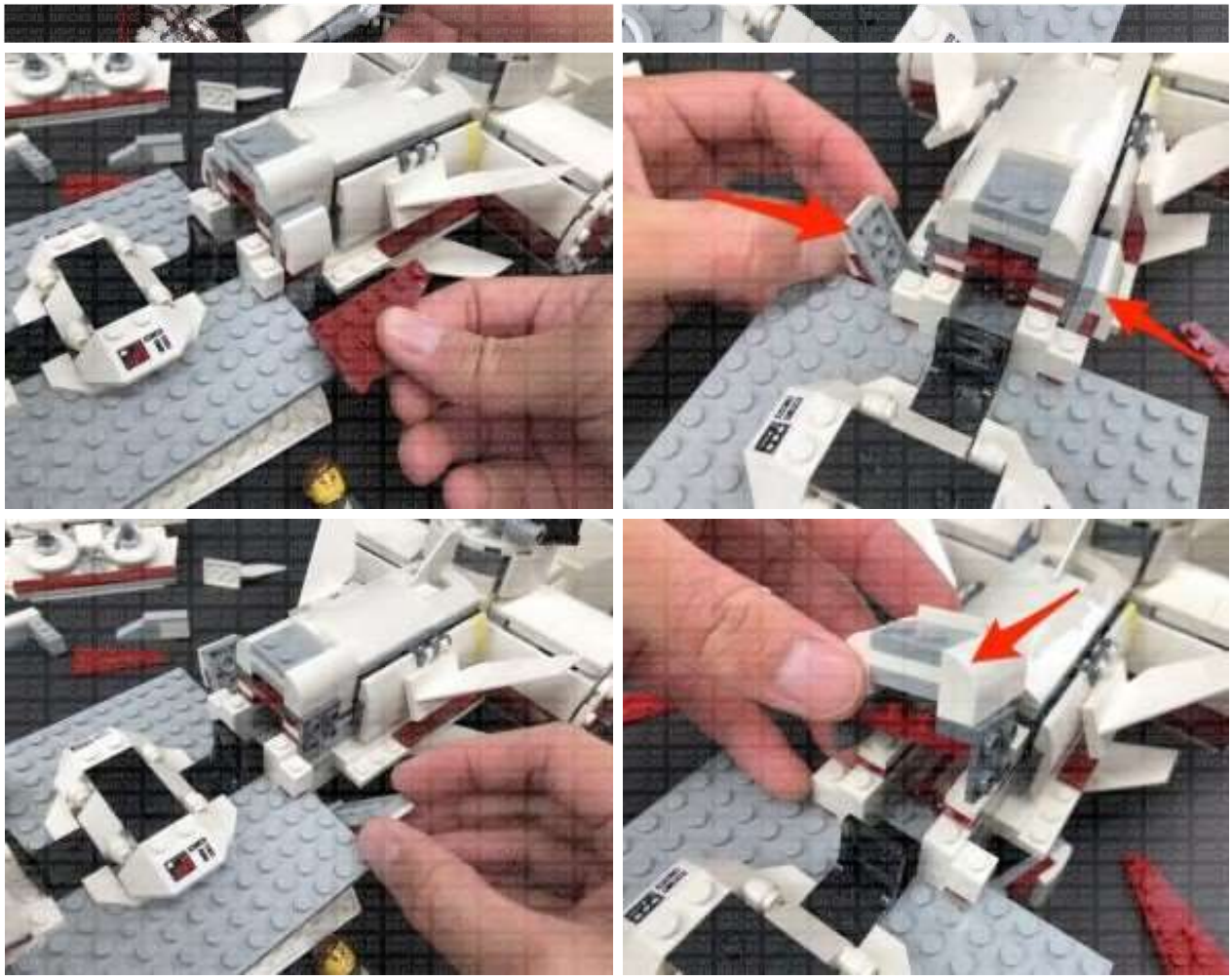
Neaten up cabling running down the side by tucking them into the corner, then secure them to the wall using tape. Fold in the corner wall section to secure down all the cables.

16.) We will now install some flashing red lights to the back of the cabin floors.
In order to get to them, follow the below images to disconnect the following sections:

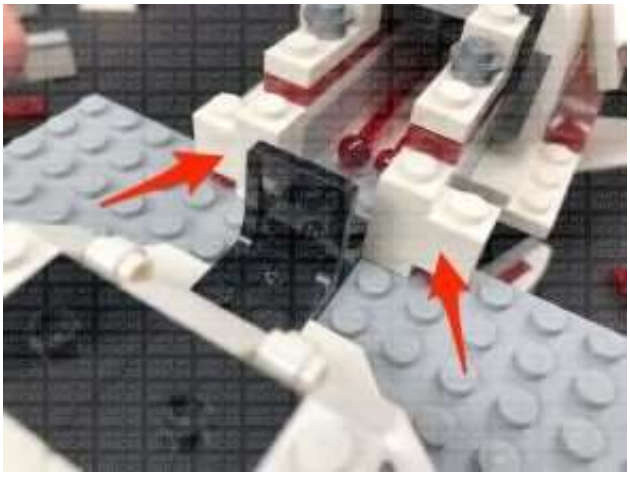
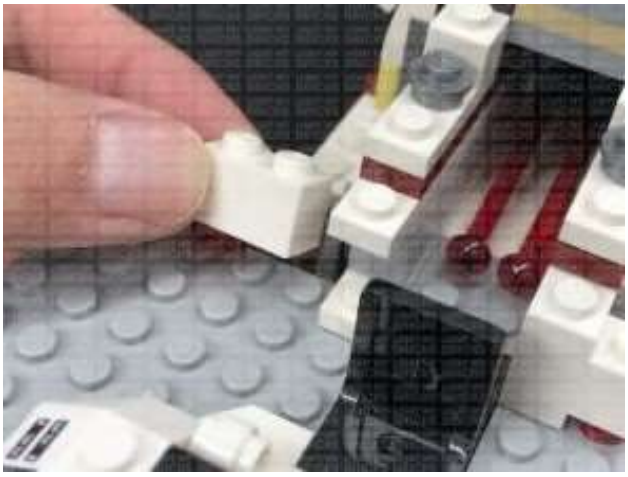
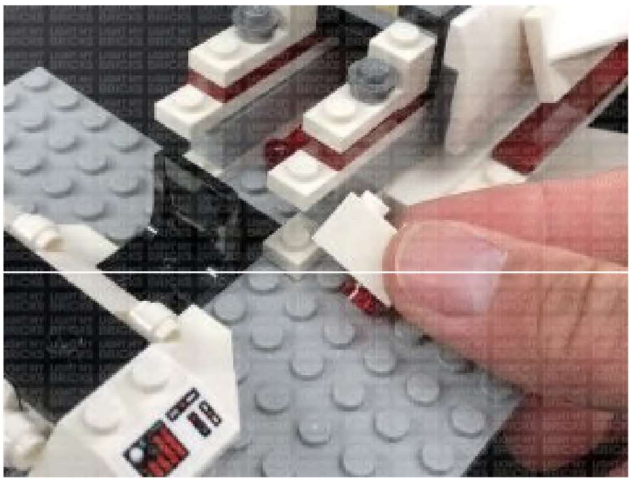
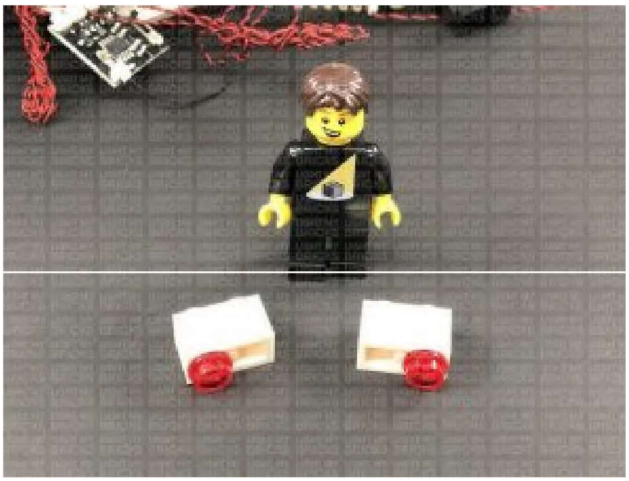
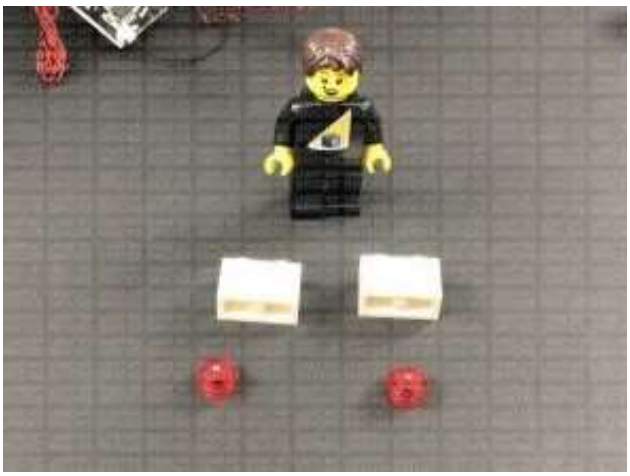






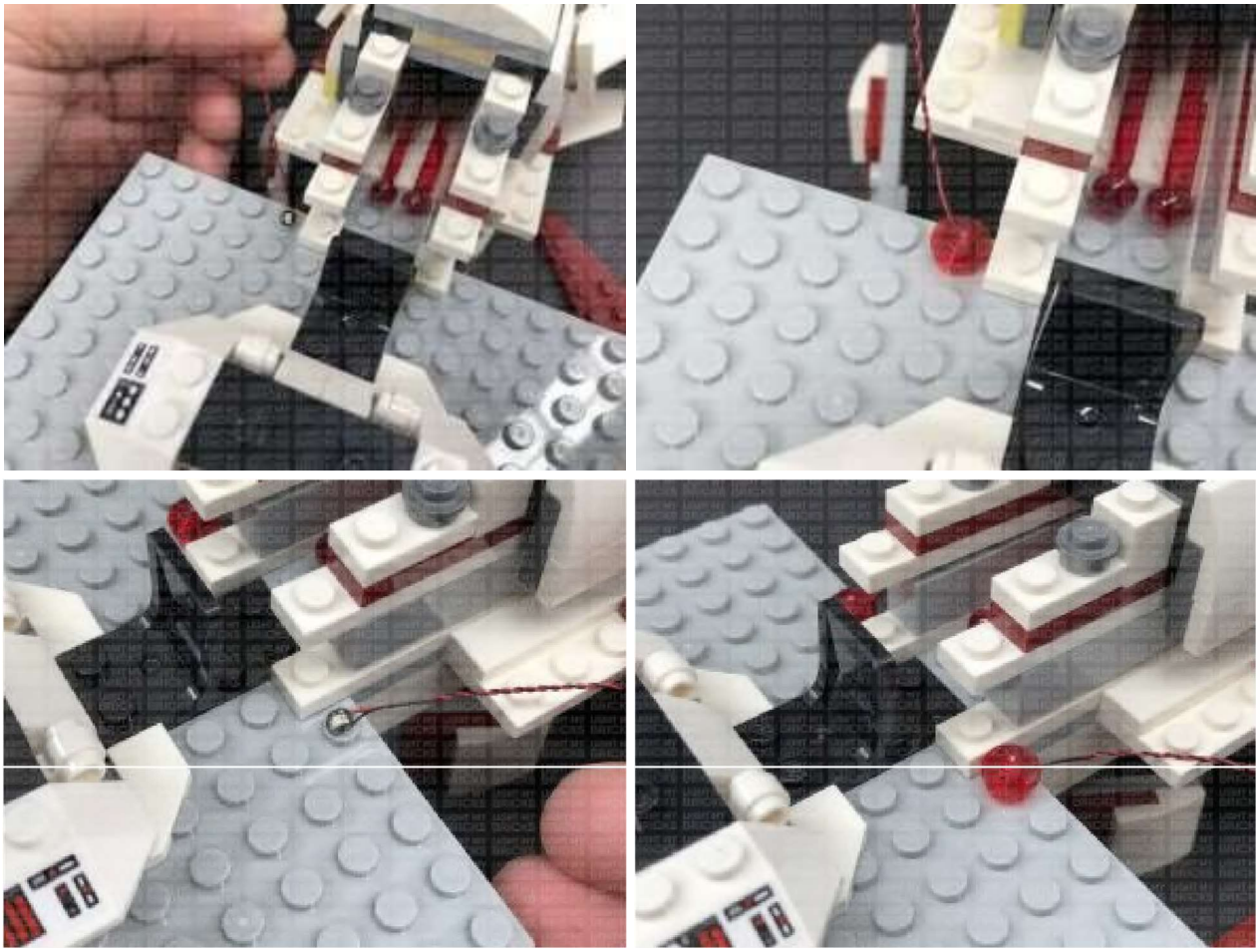


Disconnect the white 1×2 bricks with trans red round plate underneath them from each side.

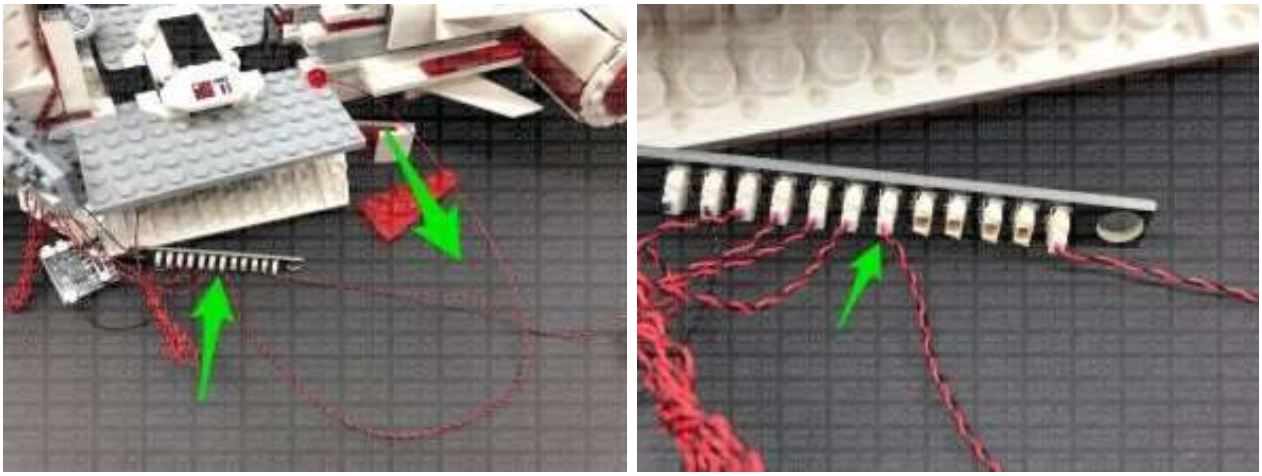
Disconnect the trans red round plates from underneath

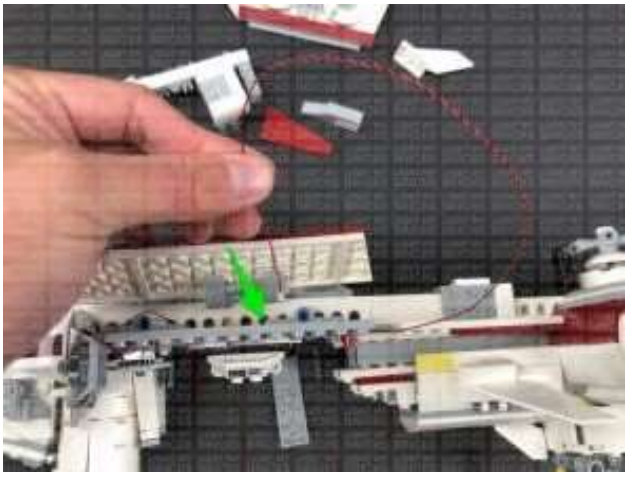
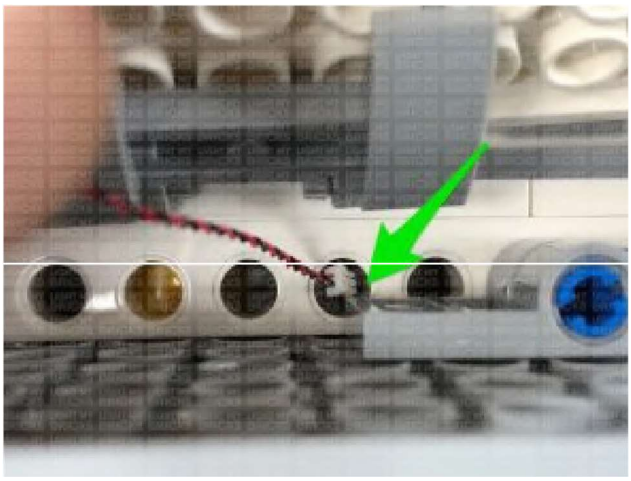
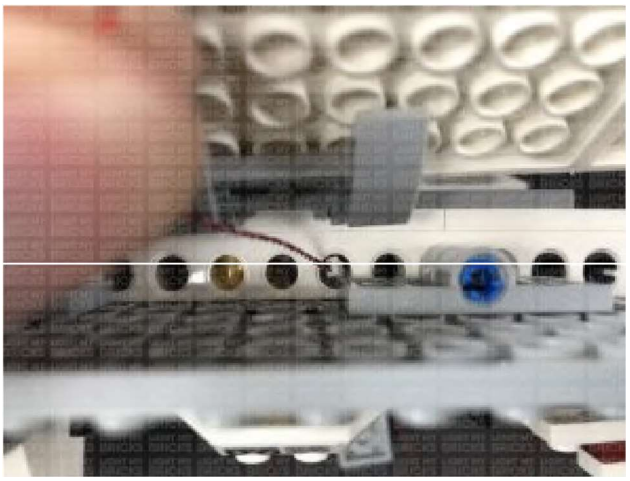
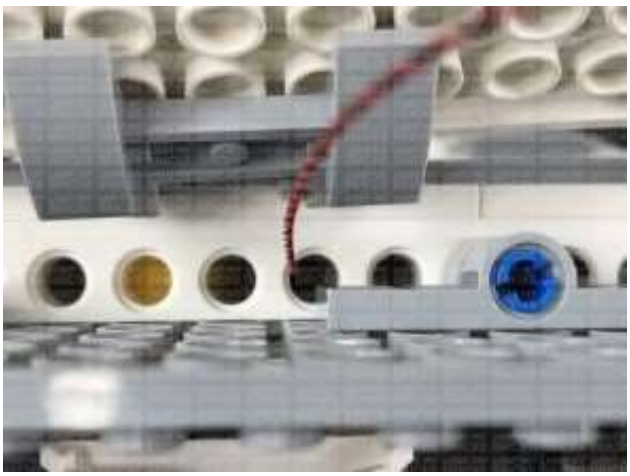
17.) Take a **Flashing Red 30cm Bit Light** and with the cable facing toward the back, place it over the corner stud on the floor of the cabin. Secure the Bit Light in place by reconnecting one of the trans red round plates over the top. Repeat this step to install another **Flashing Red 30cm Bit Light** to the other side of the cabin floor.



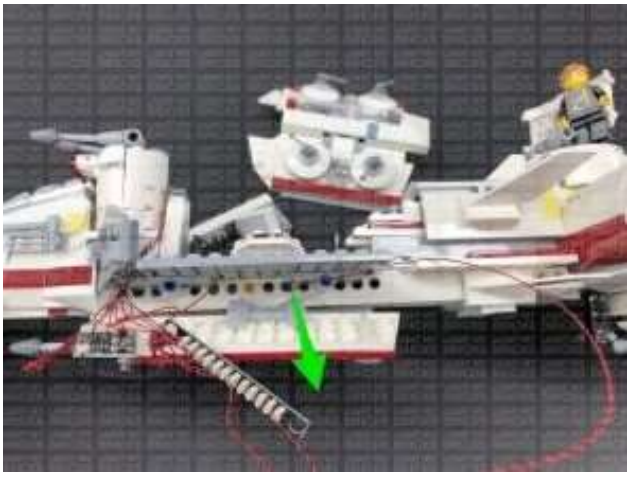
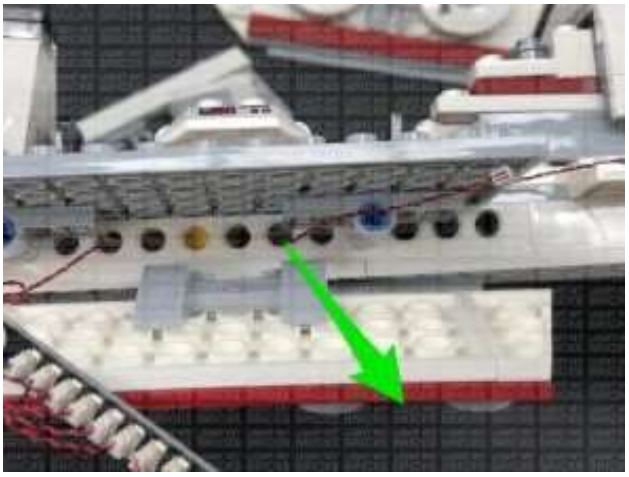
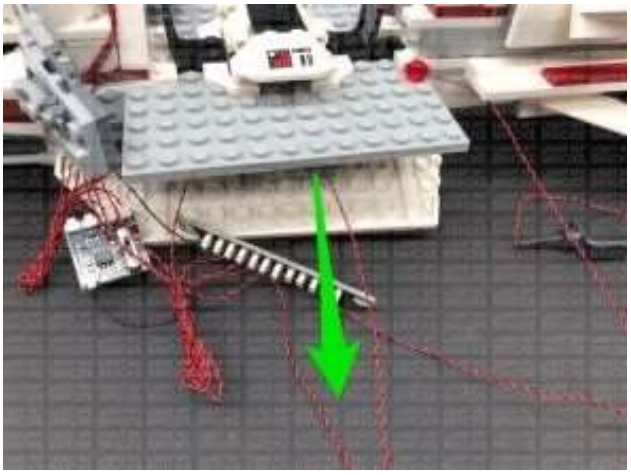
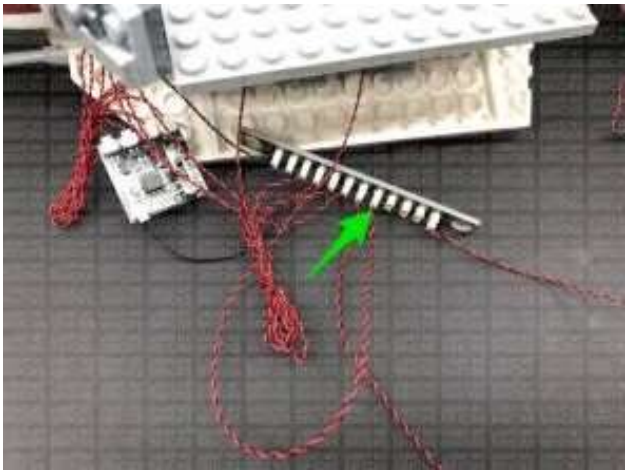
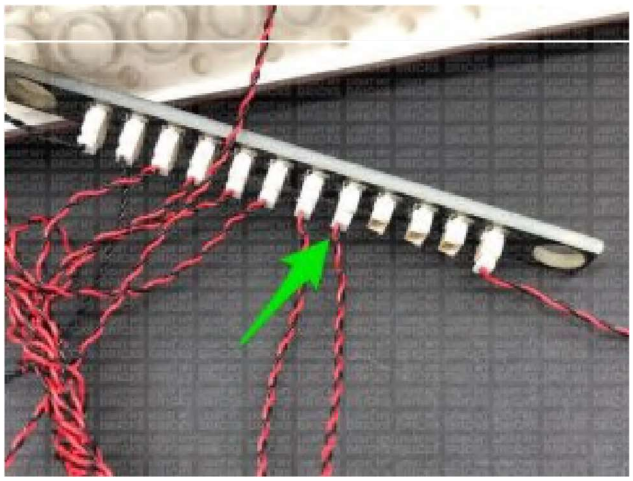
Take the bit light cable from the left side (closest to you) and connect it to the 12-Port Expansion Board.



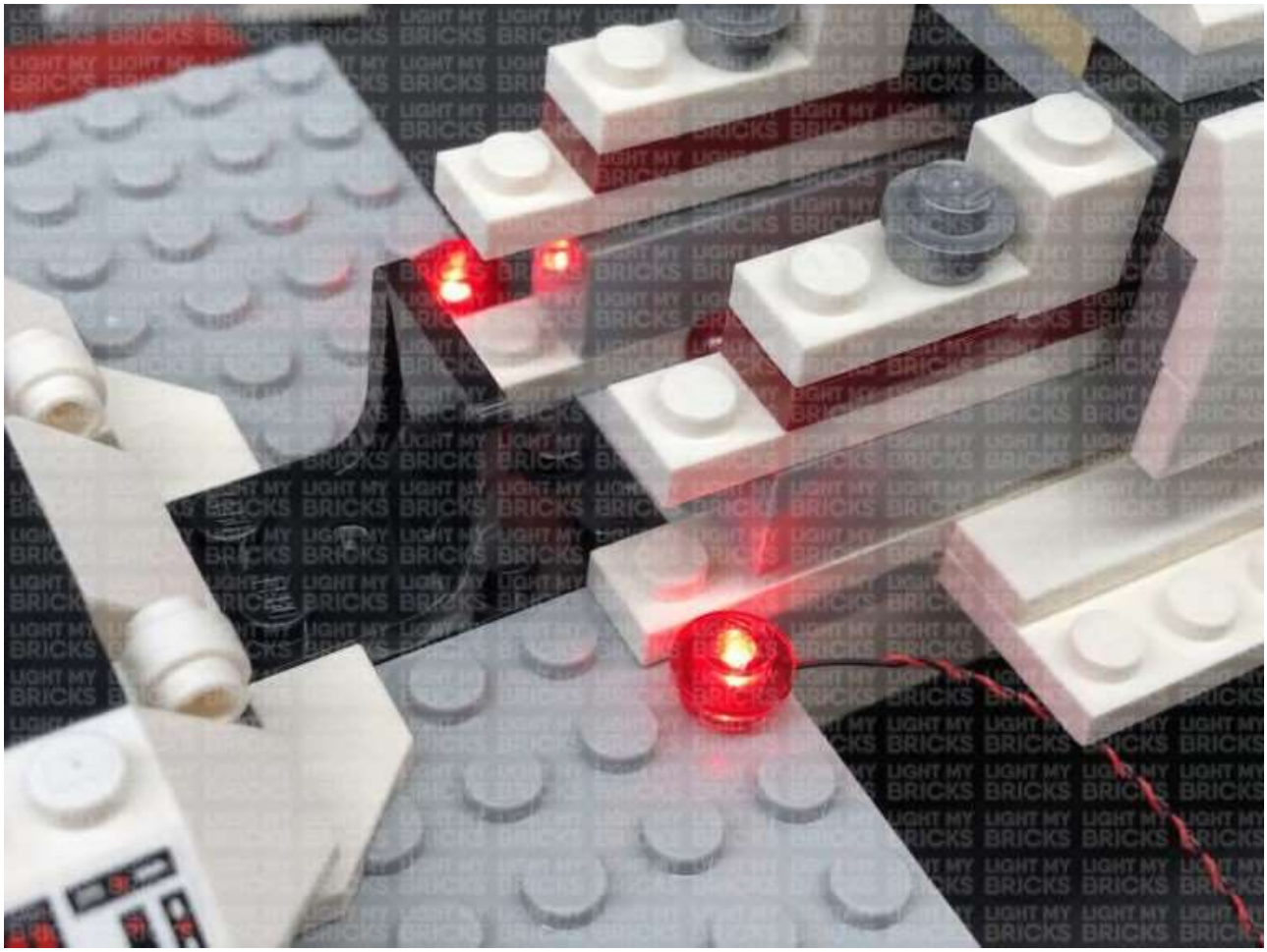
18.) Turn the Tantive IV over onto it's left side (pull towards you) and take the bitlight cable from the right side and thread it all the way through the following hole of the white technic brick underneath.

Turn the Tantive IV over onto it’s right side and pull the cable all the way out from underneath. Connect the bit light cable to the next available port on the 12-Port Expansion Board.

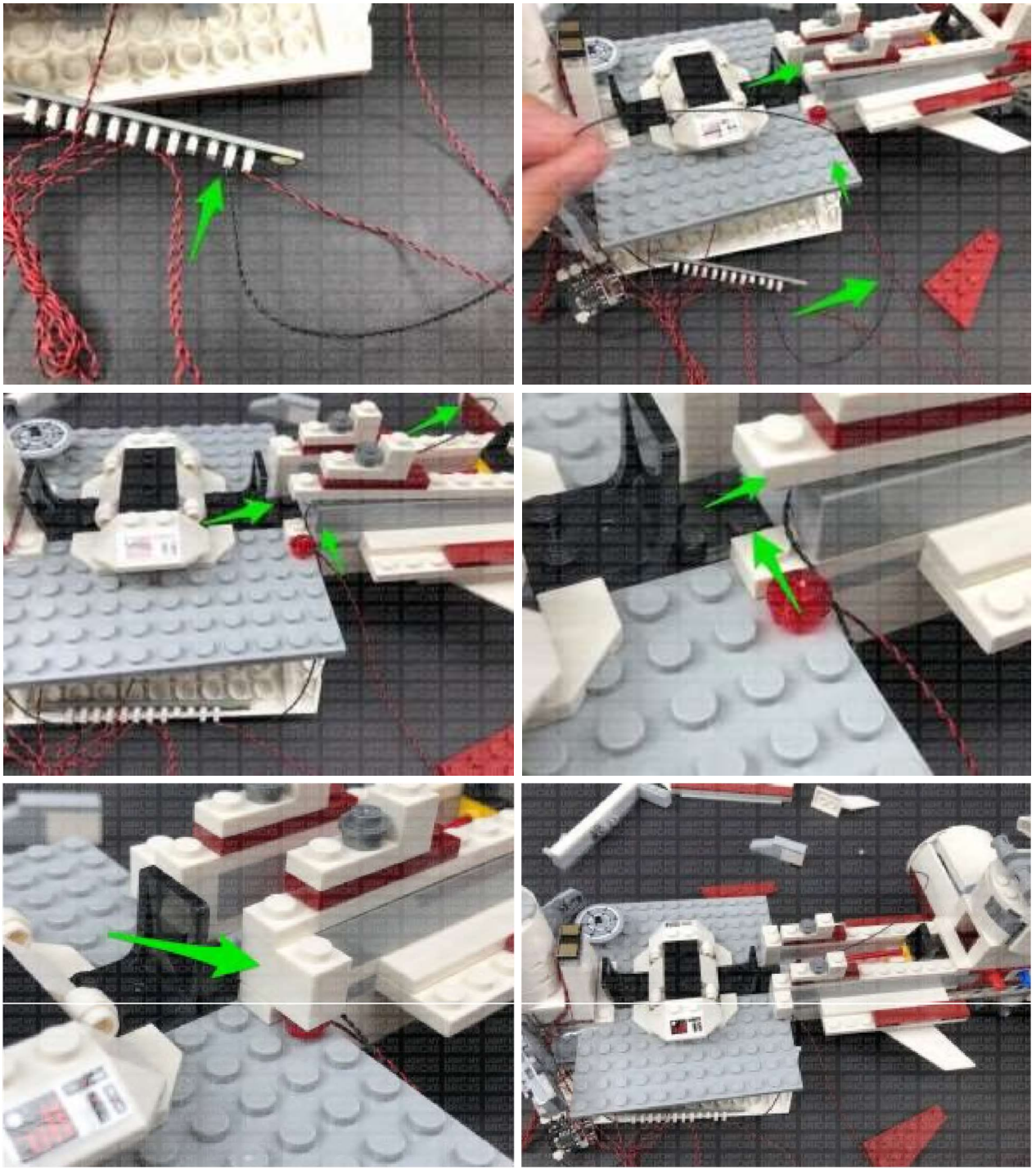






Turn the USB Power Bank ON to test the flashing red lights on the cabin floor are working OK.

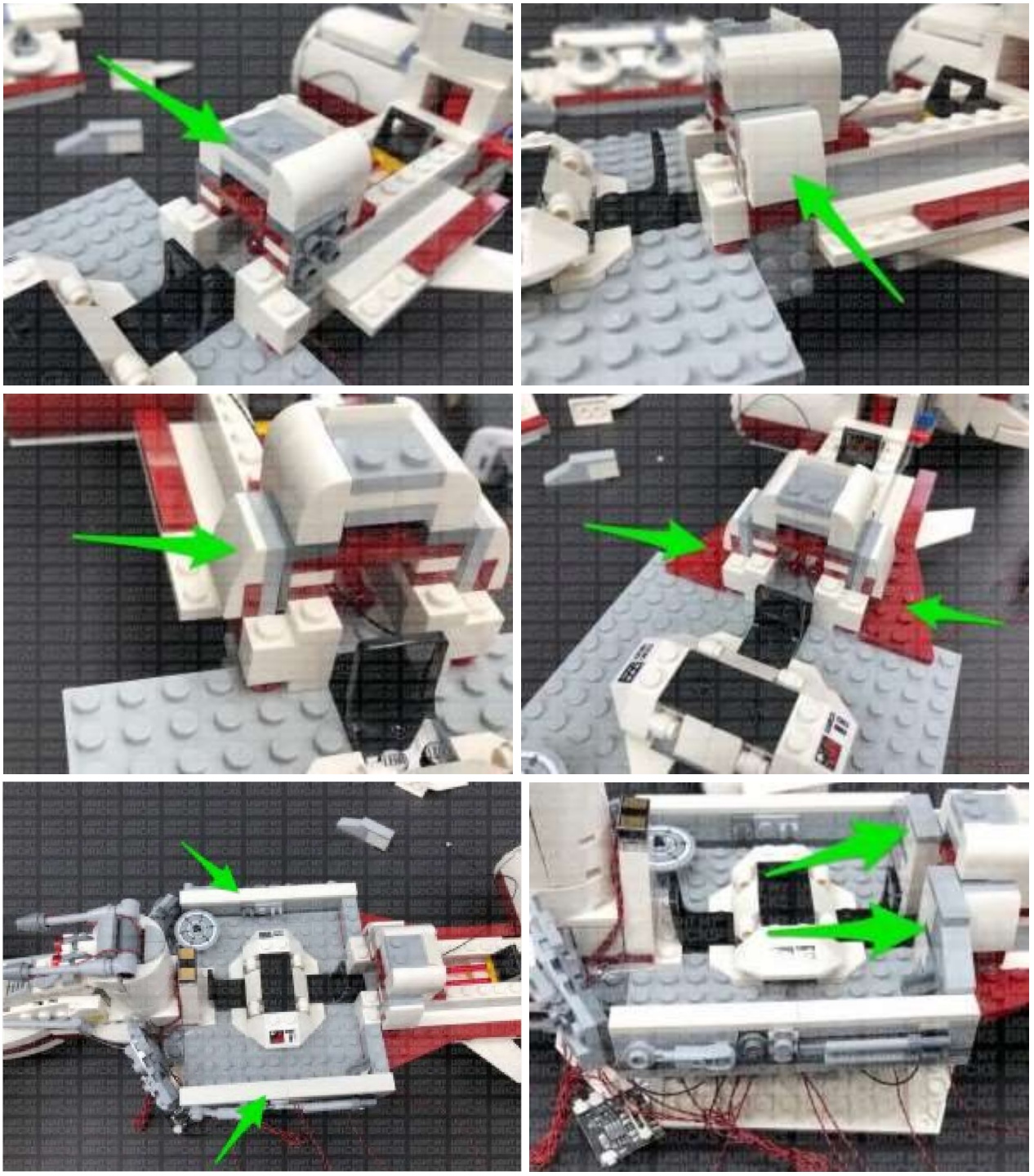


Note: If you experience any issues with the lights not working and suspect an issue with a component, please try a different port on the expansion board to verify where the fault lies (with the light or expansion board). To correct any issues with expansion board ports, please view the section addressing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

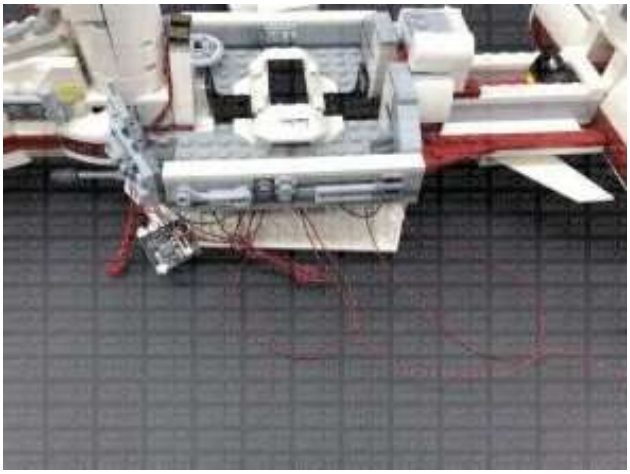
19.) Take a **30cm Connecting Cable** and connect it to the 12-Port Expansion Board. Pull the other end of the cable up in to the cabin, then thread it through the middle section behind, toward the back of the ship. Lay the cable in between studs as shown below before reconnecting one of the white 1×2 bricks over the top. Secure down the white plate on top to close up all gaps.

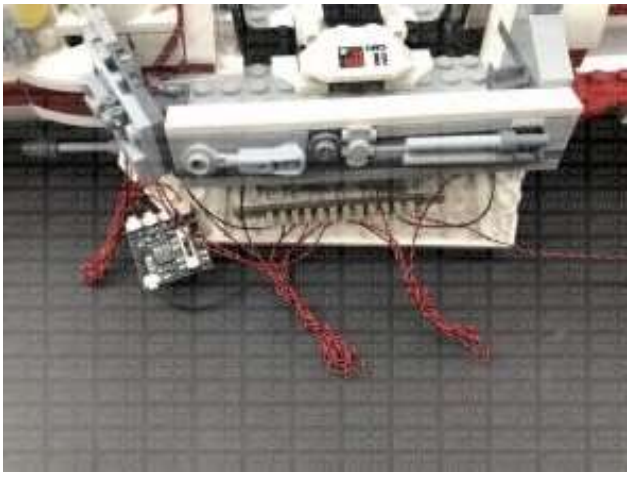


Reconnect all the sections to the cabin floor which we removed earlier.

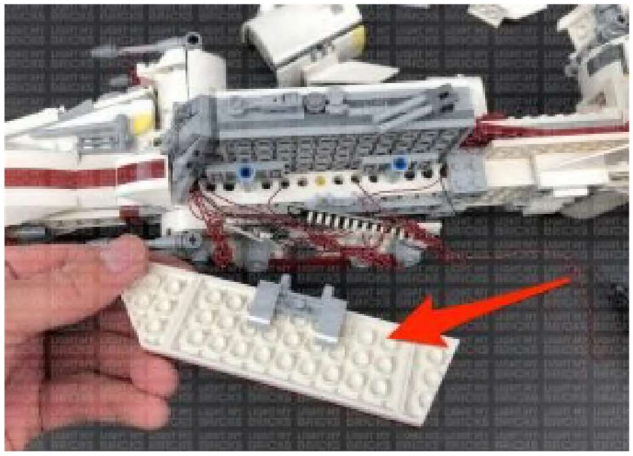
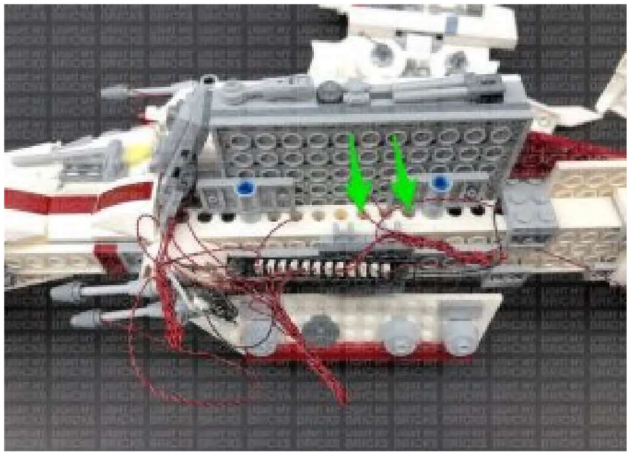


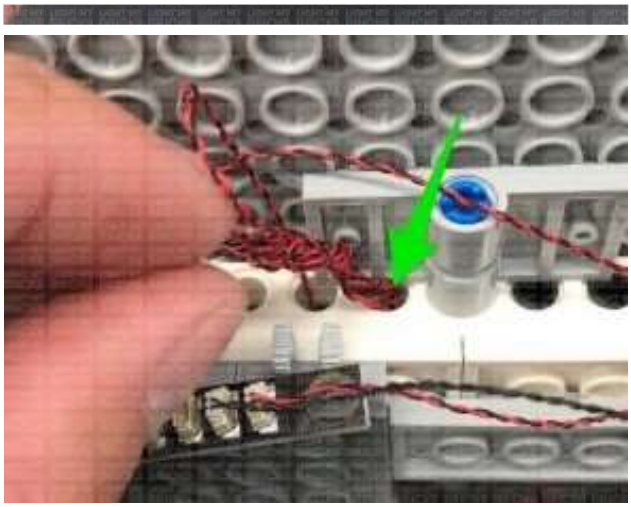
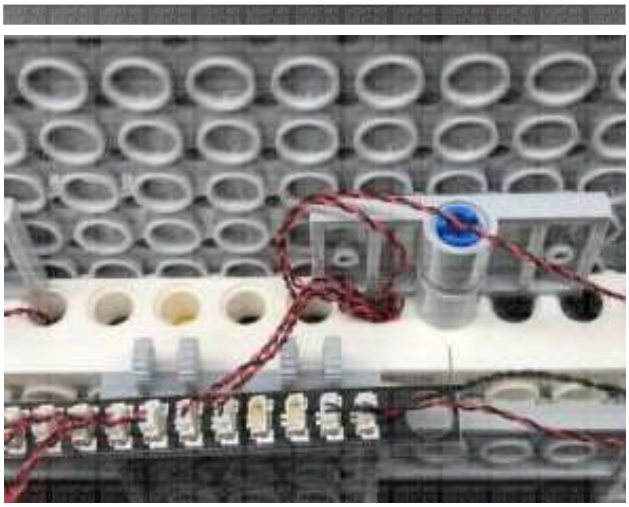
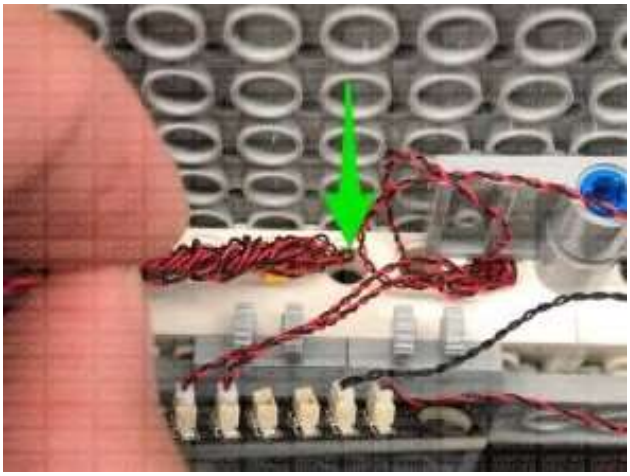
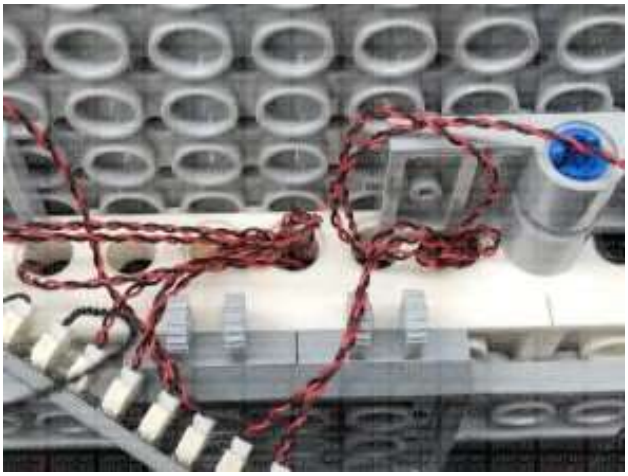
20.) We will now neaten up all the messy cables underneath the cabin. Twistand fold the cables into two neat bunches and ensure the bunches are thin, as shown below



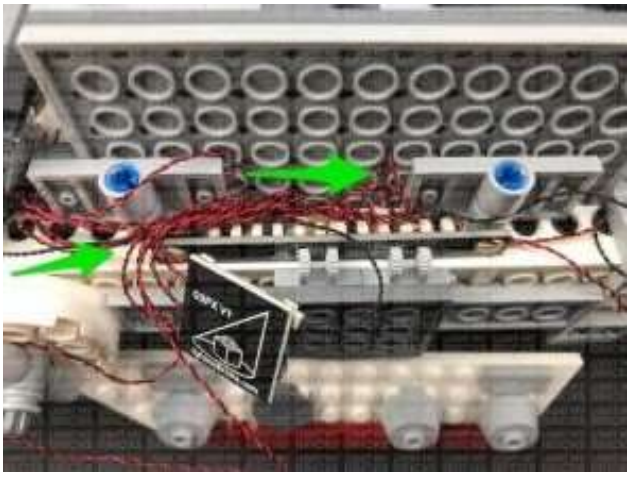
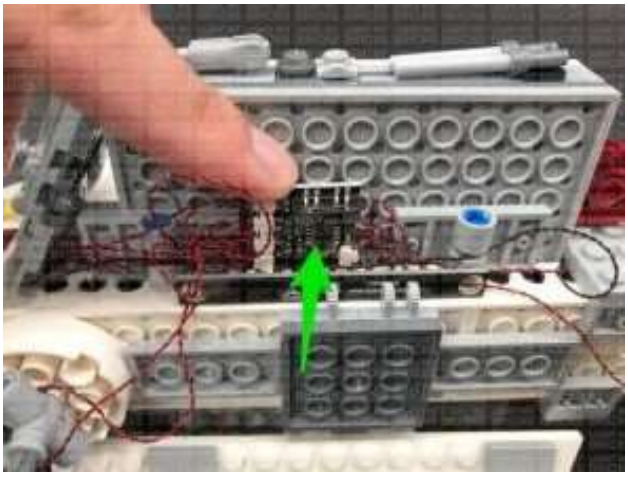


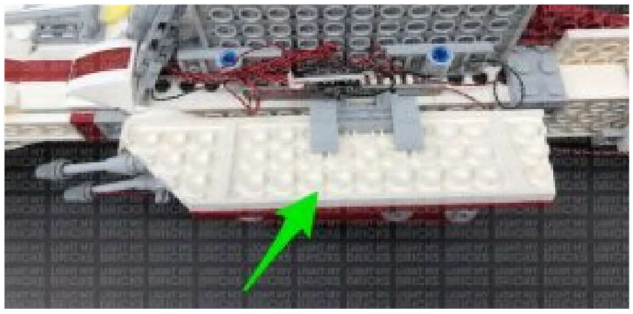
Disconnect the lower compartment section, then push the two bunches of cables on the right all the way into the technic brick holes as per below:

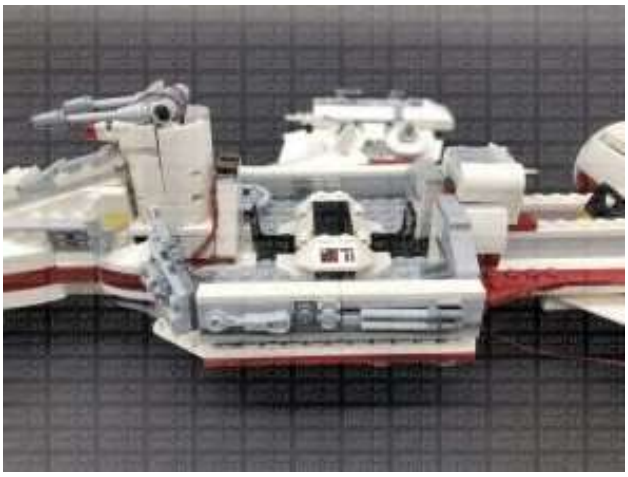



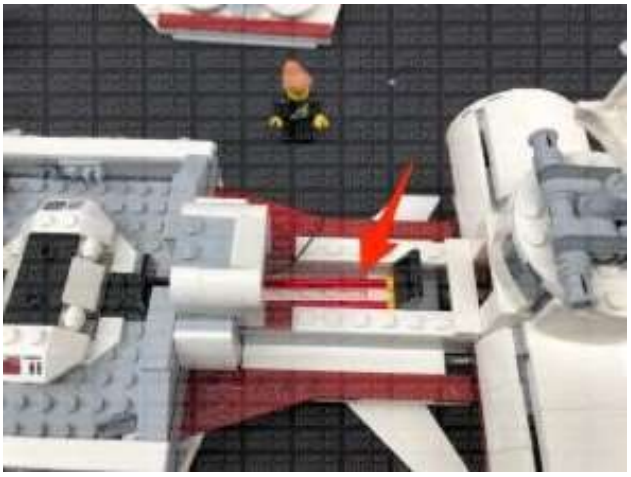
Lay the larger bunch of cables (left) from the cannon lights across the middle, toward the back, then place the Gun Effects Board flat up against underneath the cabin floor plate. Reconnect the lower compartment section and fold it up to secure all the components and cables neatly inside.

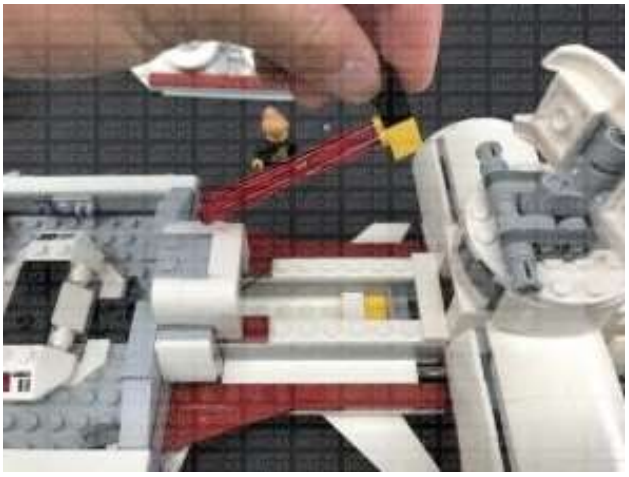



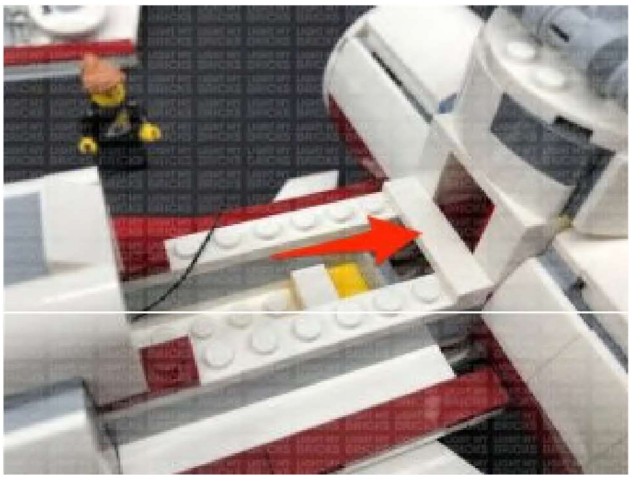


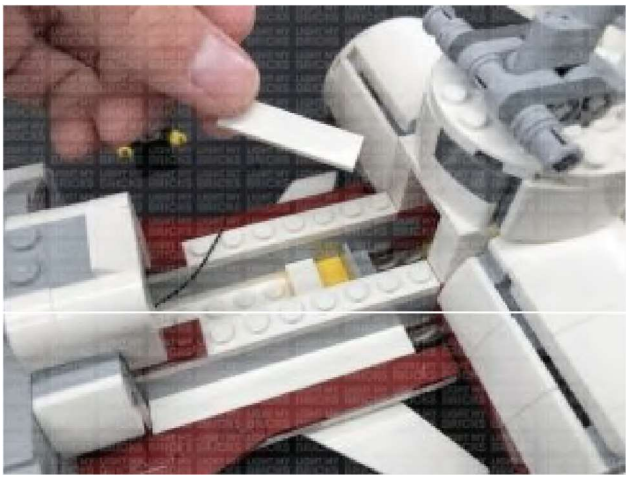


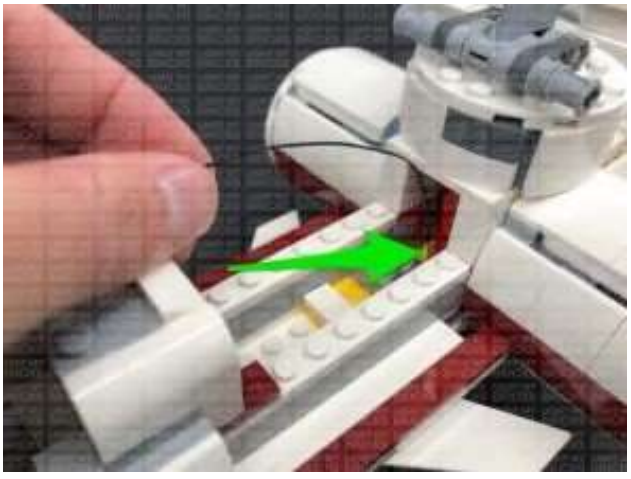
21.) Remove the spare laser pieces from behind, then disconnect the white 1×4 tile from the back. Lay the other end of the 30cm Connecting Cable inside before reconnecting the white tile over the top. Replace the spare laser pieces.

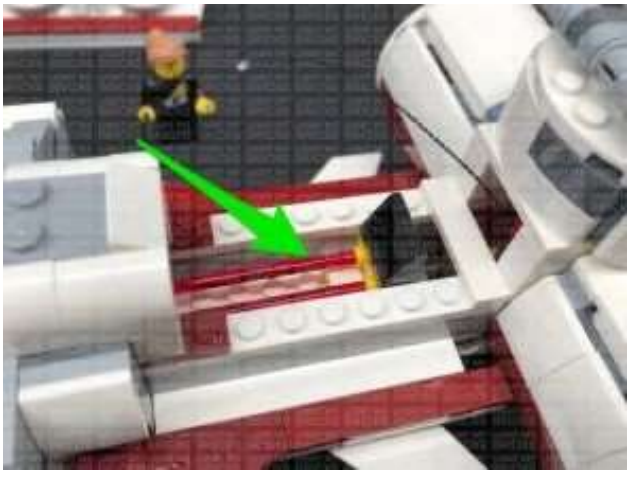




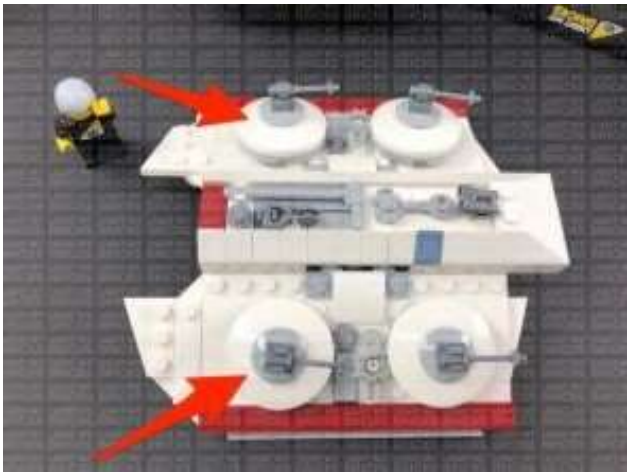


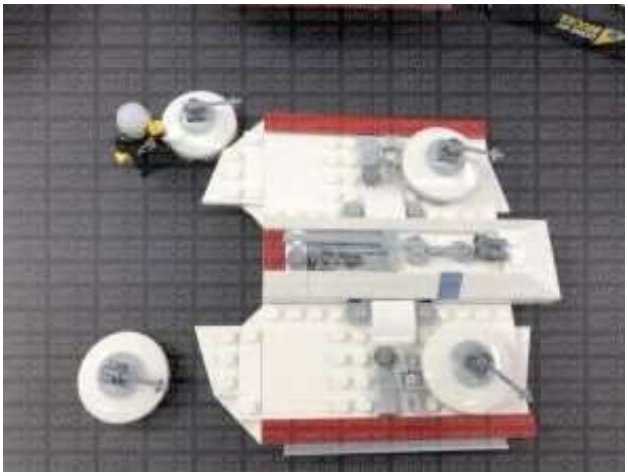


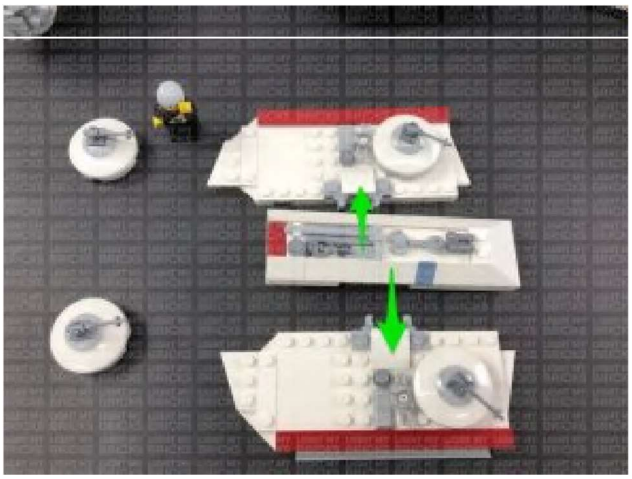




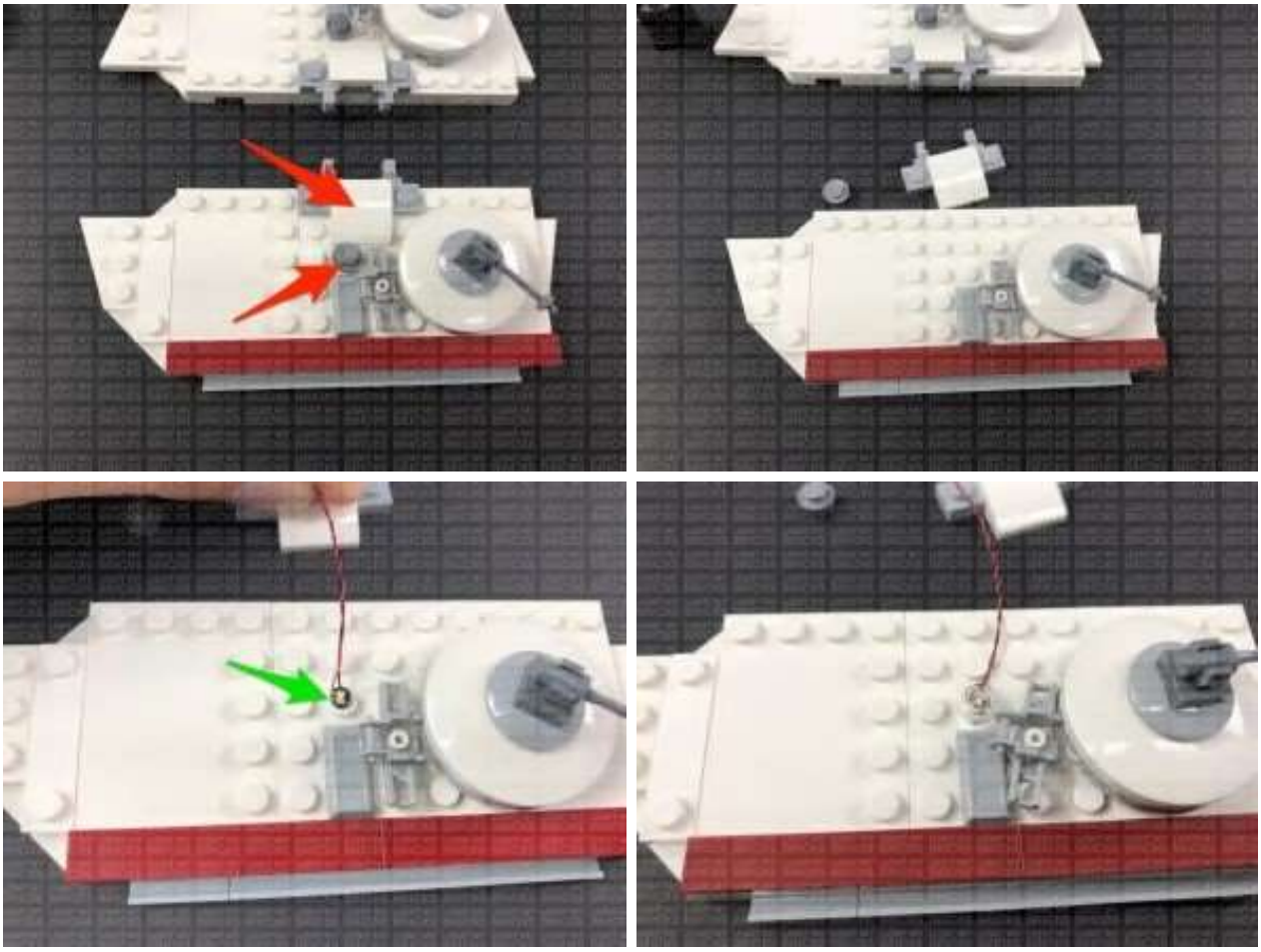
22.) Take the cabin roof section and disconnect the following dishes beforedisconnecting each side as shown below:



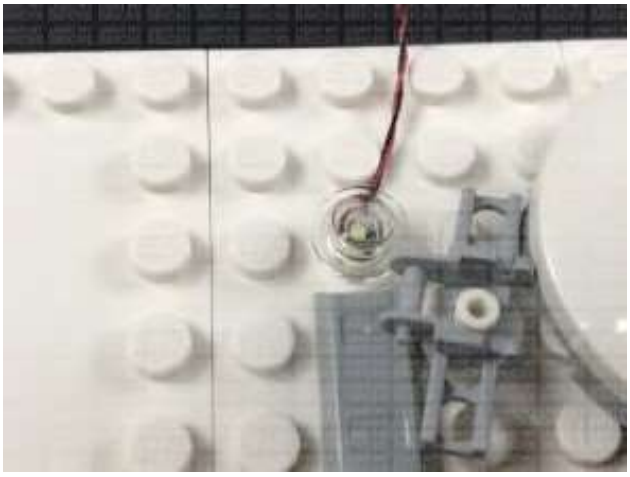
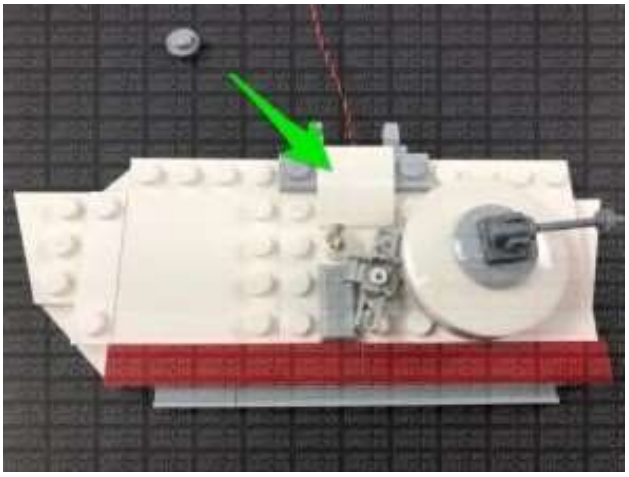
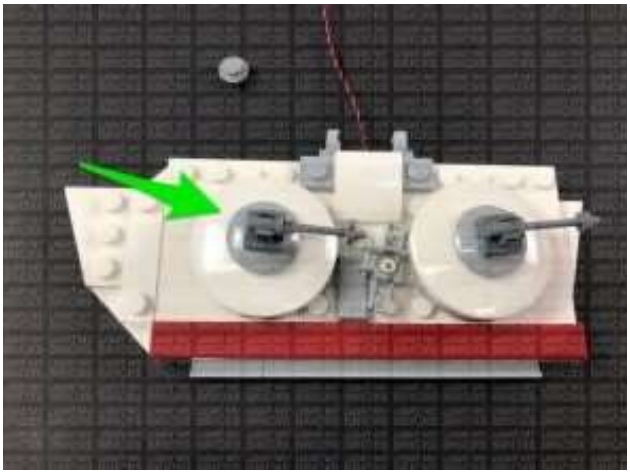
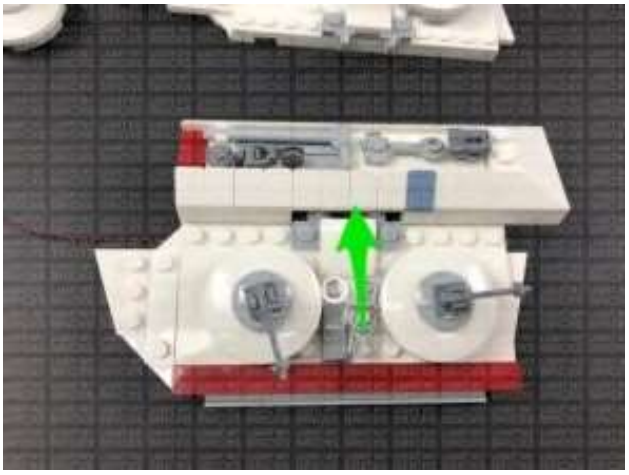




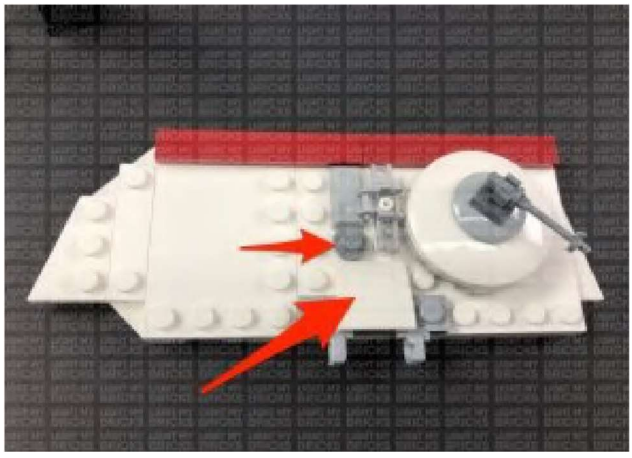
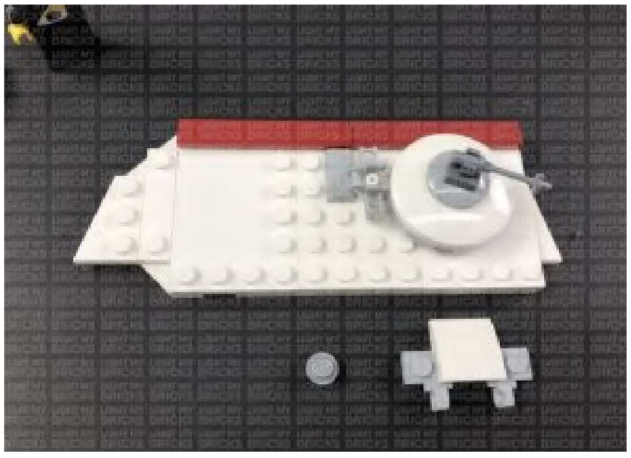
Disconnect the following pieces from the left section, then take a **Cool White 30cm Bit Light** and with the cable facing back, place it over the following stud. Secure the Bit Light in place by connecting a provided **Trans Clear Round Plate 1×1** over the top.

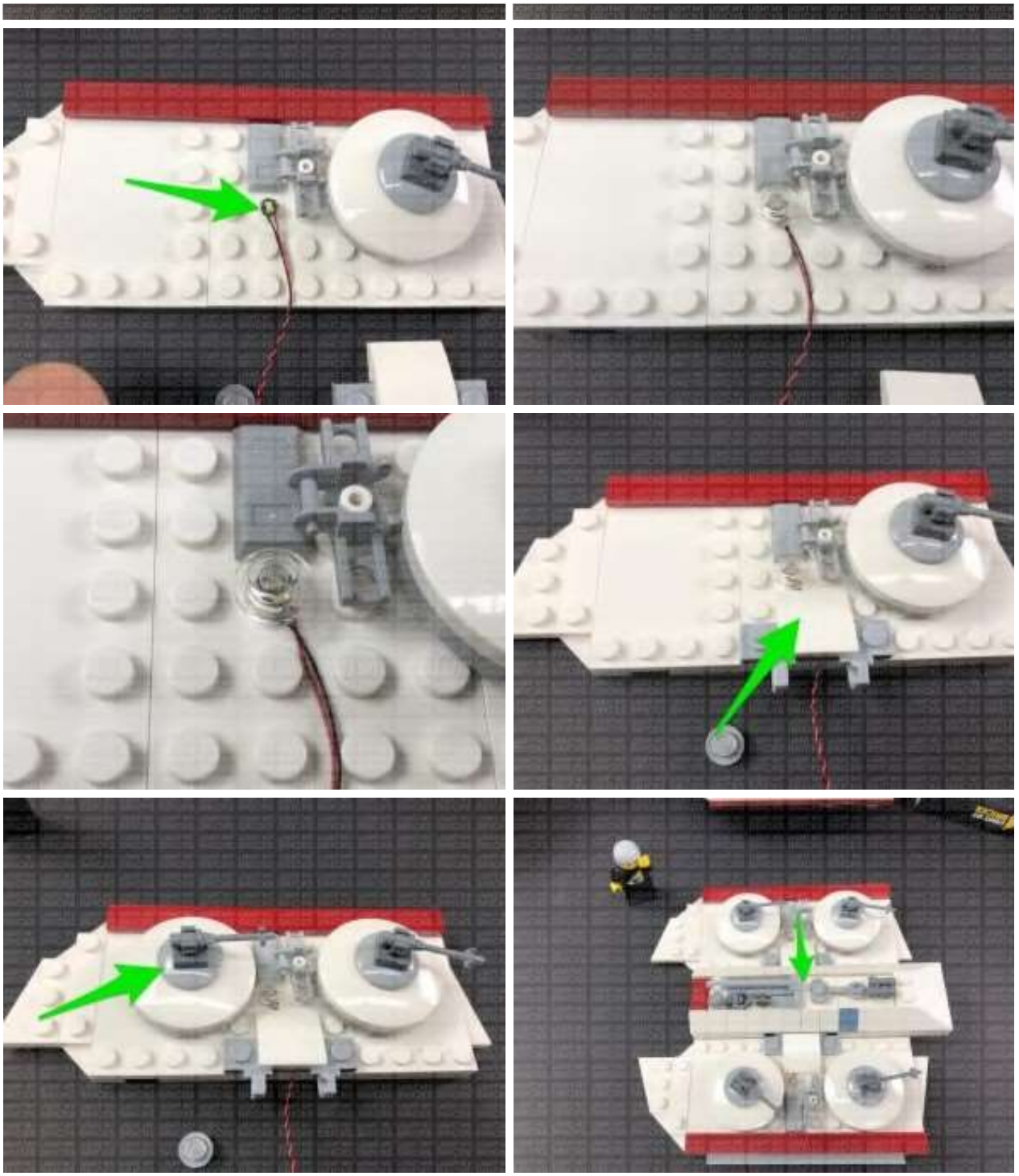


With the cable laid in between studs, reconnect the sections we removed earlier, then reconnect this left section to the middle.

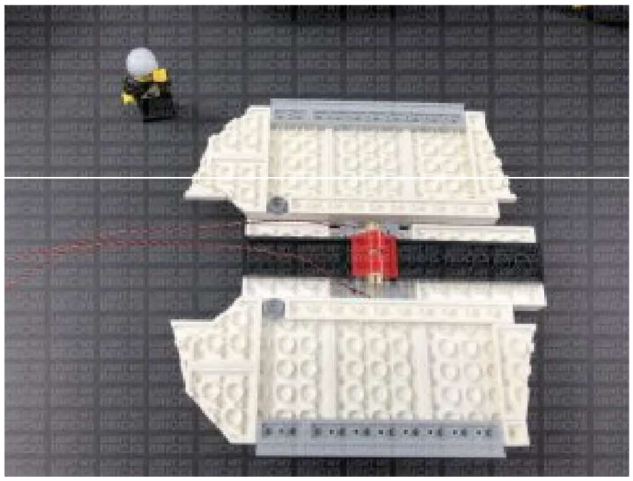





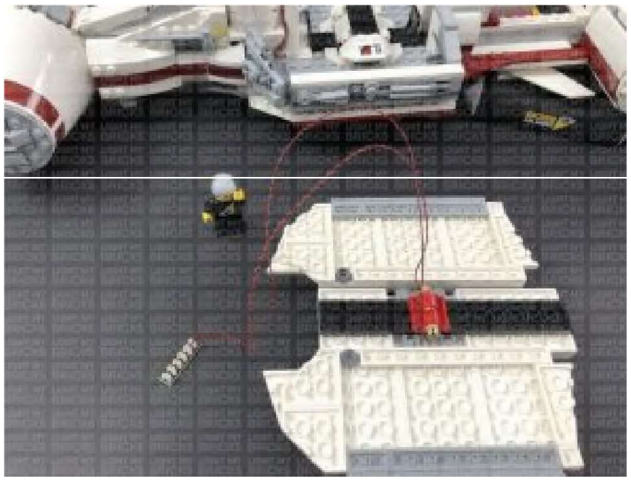
23.) Take the right section and disconnect the following pieces. Ensuring thecable is facing down, install another **Cool White 30cm Bit Light,** securing it in place with another provided **Trans Clear Round Plate 1×1.** Reconnect sections we removed earlier, then reconnect the right section to the middle.

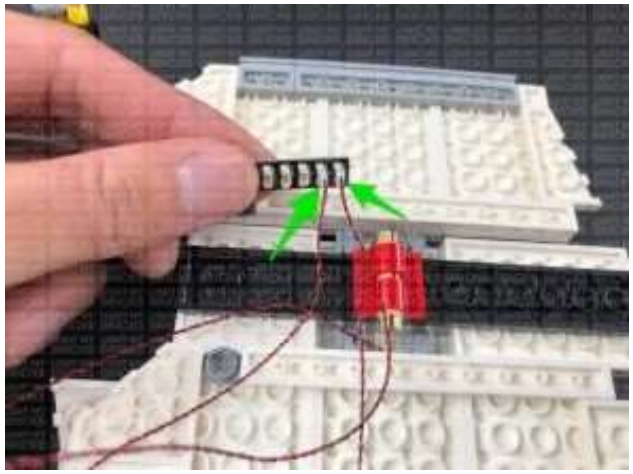





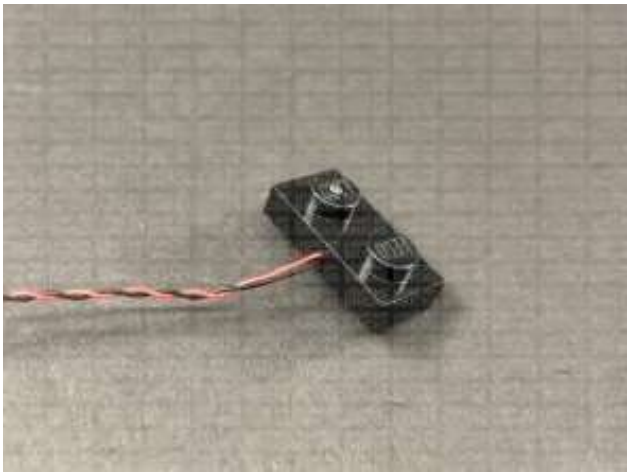
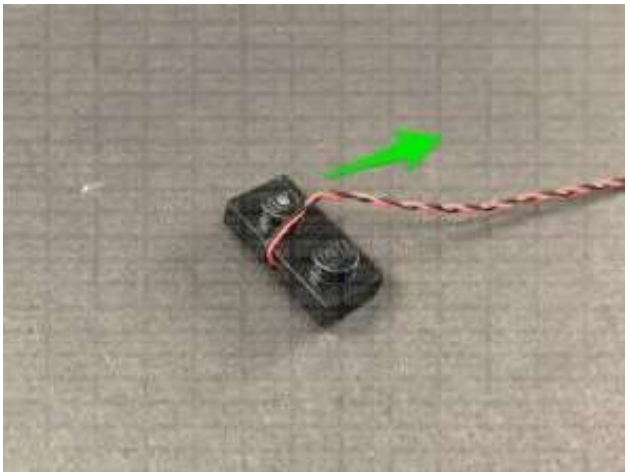
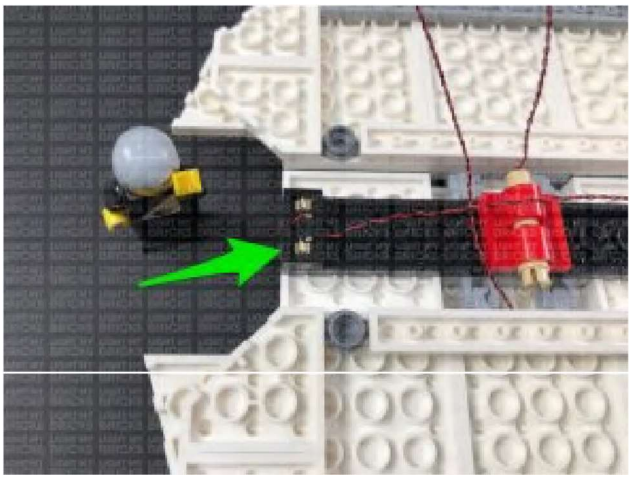
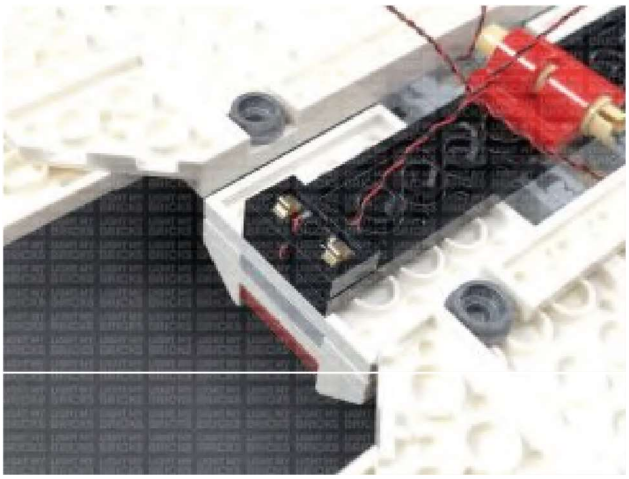
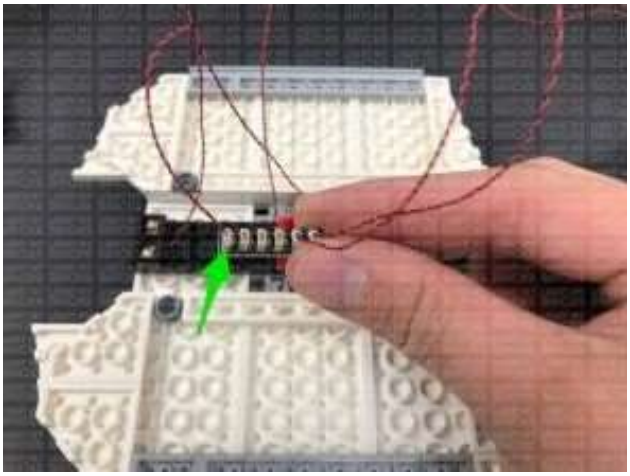
24.) Turn the cabin roof over and connect the two bit light cables to a new **6Port Expansion Board**.



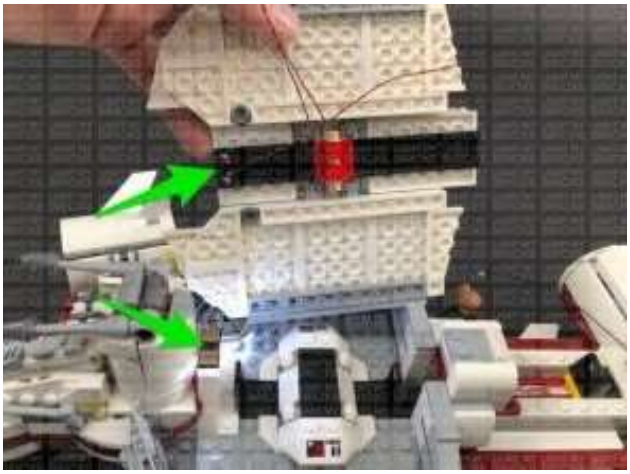


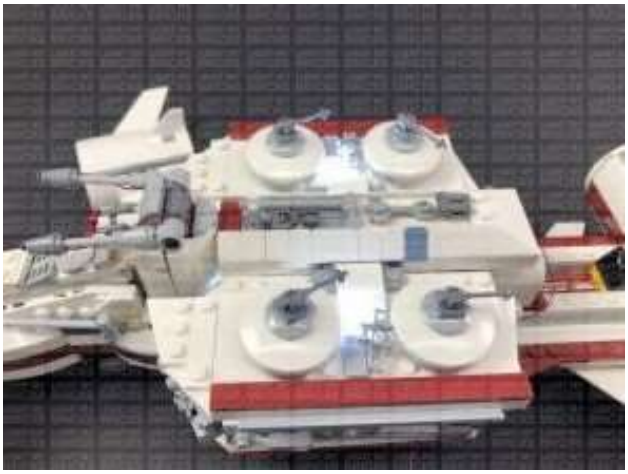


Take the Positive side of the **Wireless Power Connector** (1×2 plate side) and fold the cable across the top of the plate, in between studs. Connect it to underneath the cabin roof in the below position (with the cable facing inside), then connect the cable to the 6-Port Expansion Board.

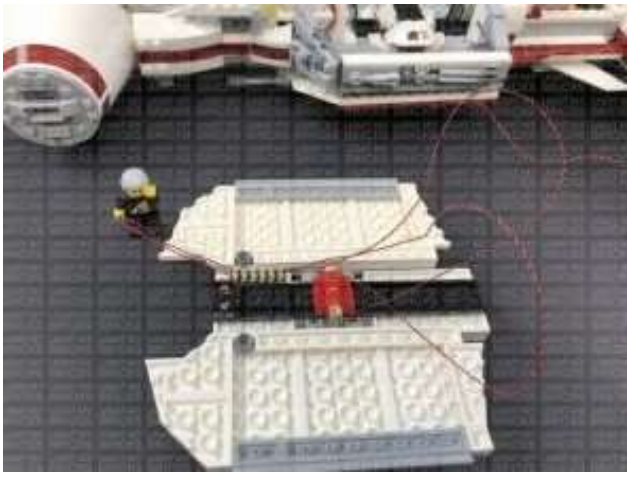
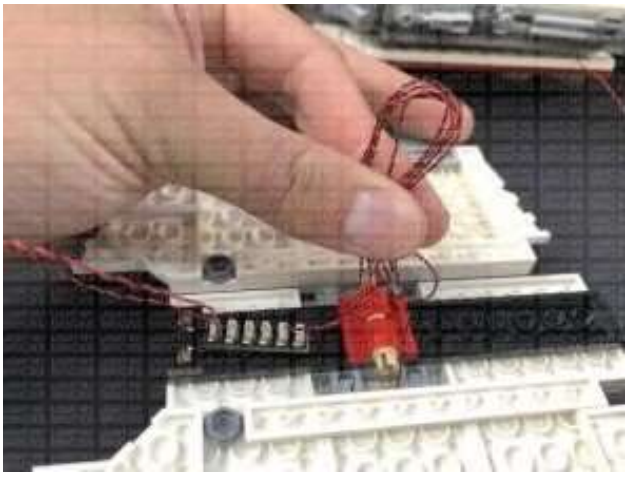
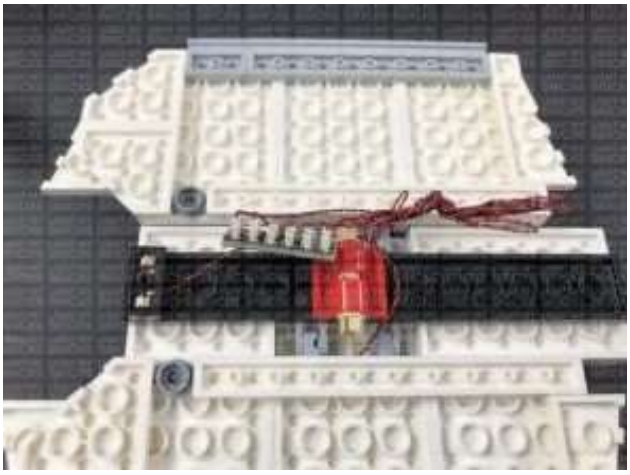
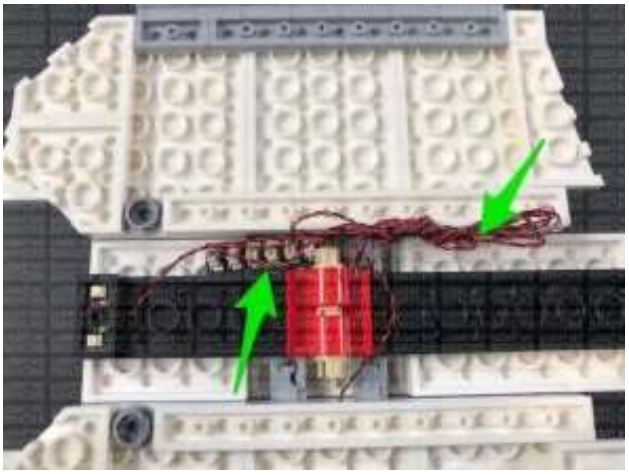
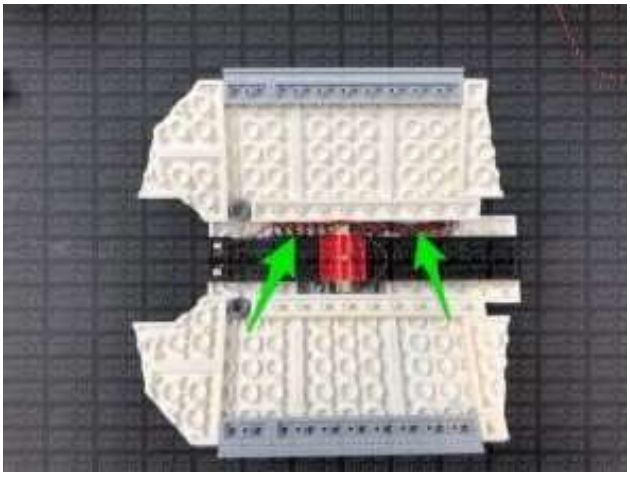
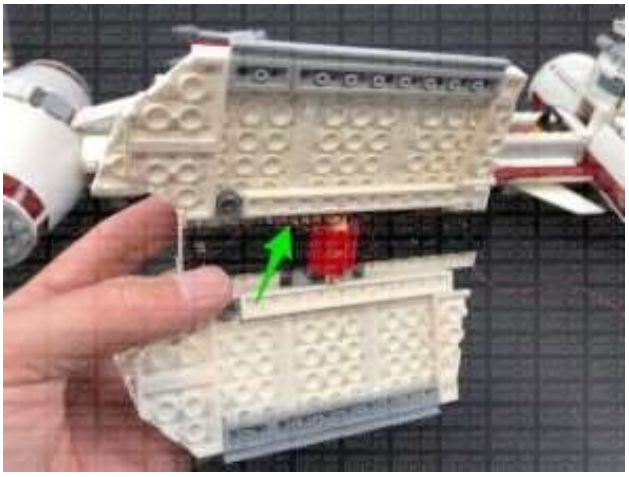
Test the wireless power connection by taking the Cabin Roof and connecting it directly on top of the cabin. Ensure the two wireless connectors connect with each other. Turn the USB Power Bank ON and the lights on the cabin roof should illuminate.

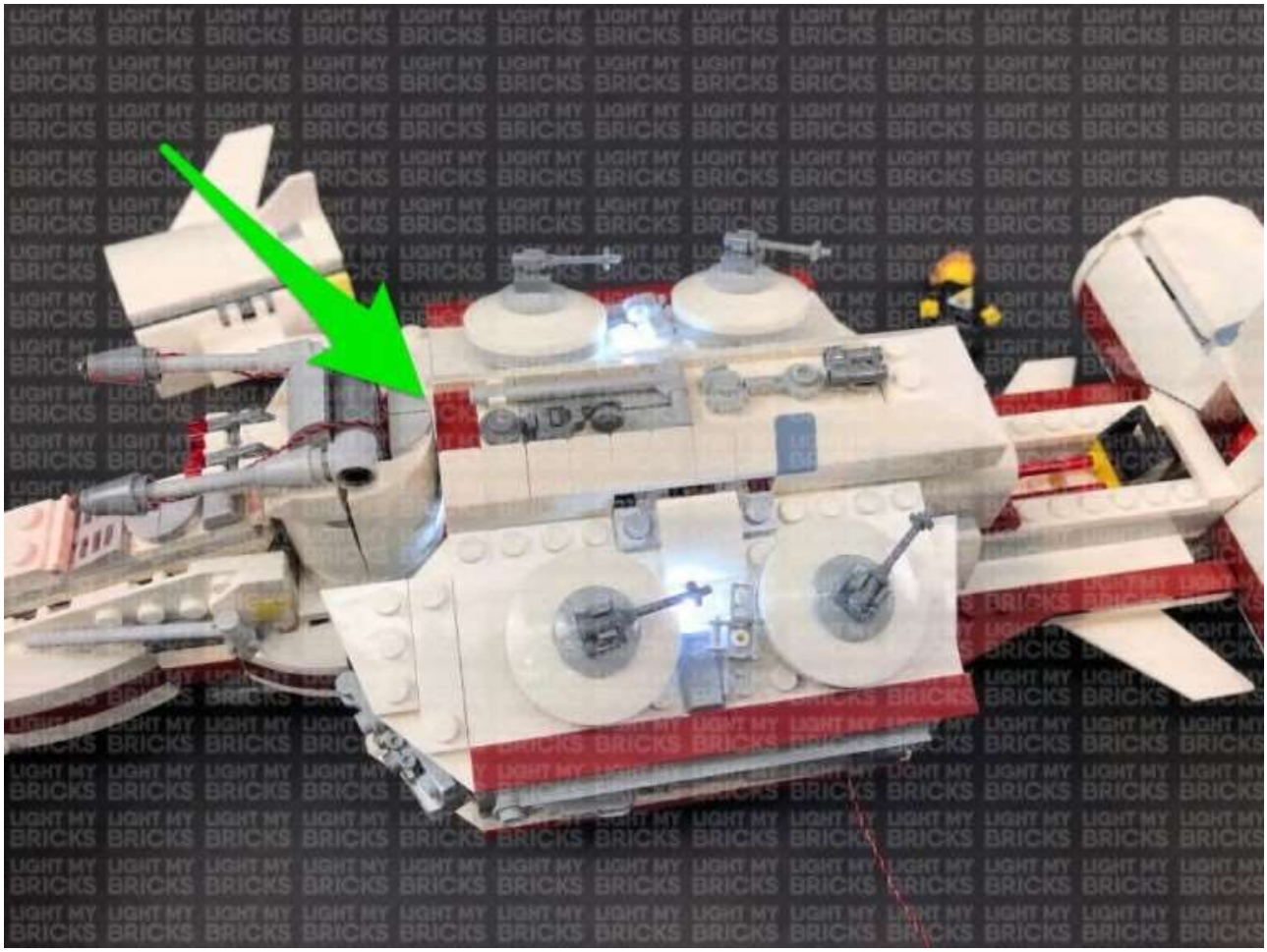




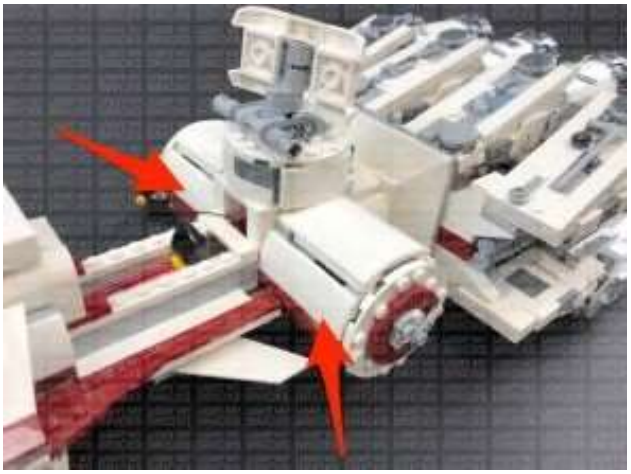
Troubleshooting: If the roof lights do not turn ON, check that the wireless power connector cables are correctly connected into the expansion board ports. Ensure both wireless connector positive and negative are in line with each other and that the wireless power connector cables are facing the same way.

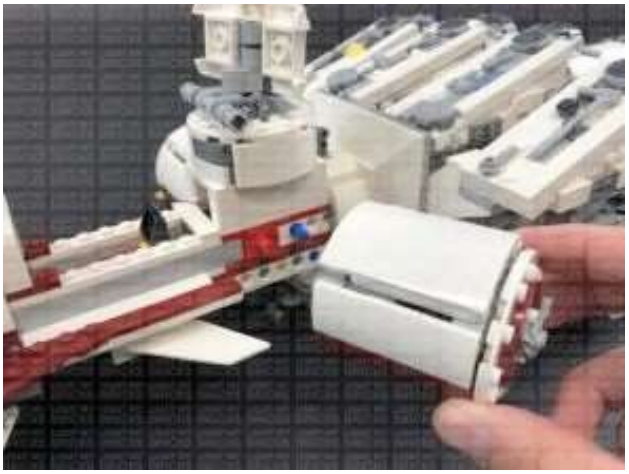
Remove the cabin roof again and turn it over. Neaten up the cables by folding and twisting them around each other into a neat bunch. Lay the expansion board and bunched up cables along the middle just above the black plate. Fold the two side sections in, which will secure the cables and expansion board in place. Securely reconnect the cabin roof over the cabin.

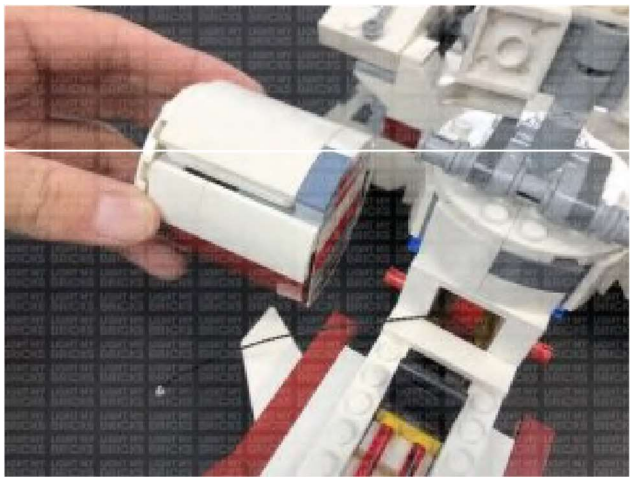









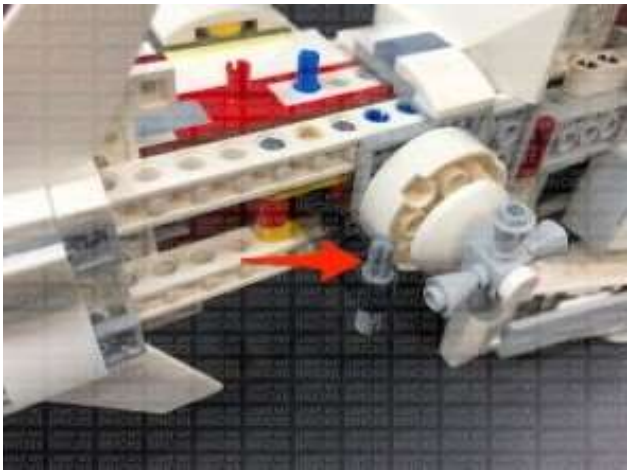
25.) We will now install some lights to the side of the Tantive IV, first remove the following sections from each side by pulling them out as shown below.

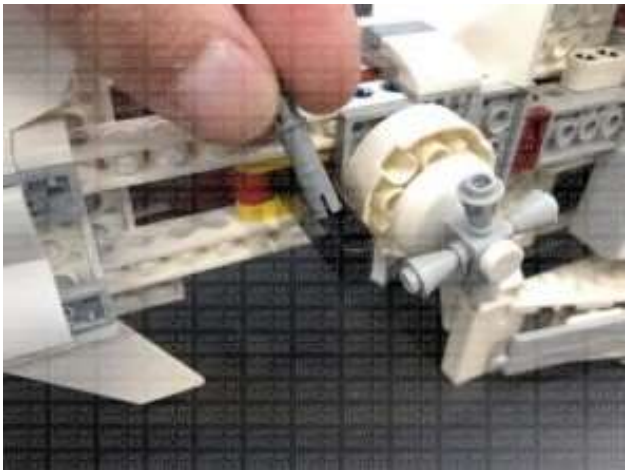


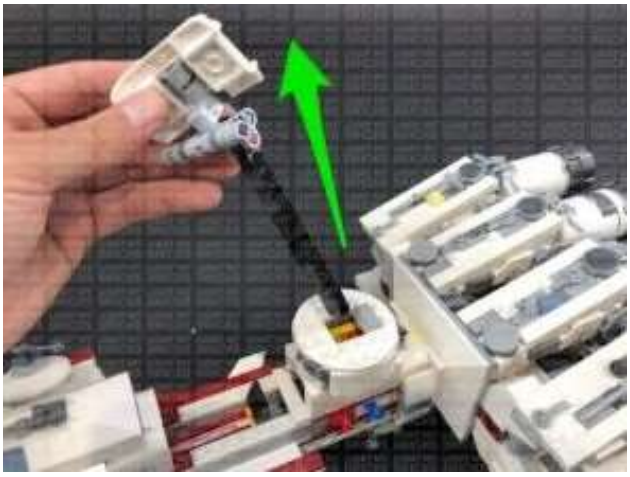




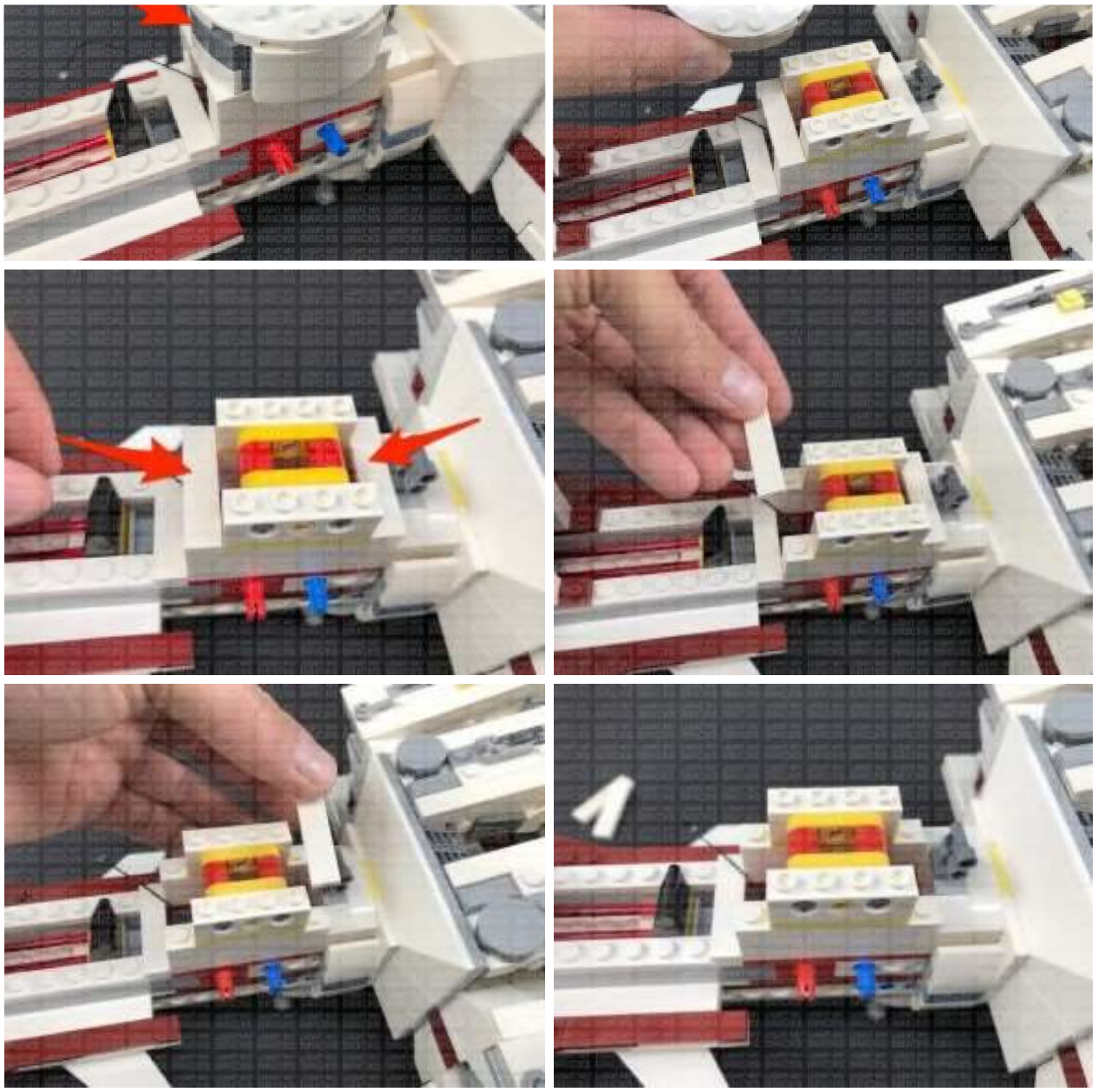
Turn the ship onto it’s side so we can access underneath and disconnect the technic pin from the bottom of the black technic brick. Turn the ship over and completely remove the radar section by pulling it all the way out.



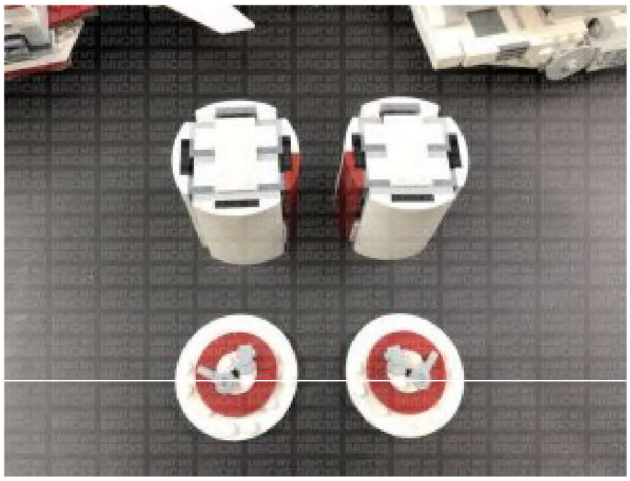




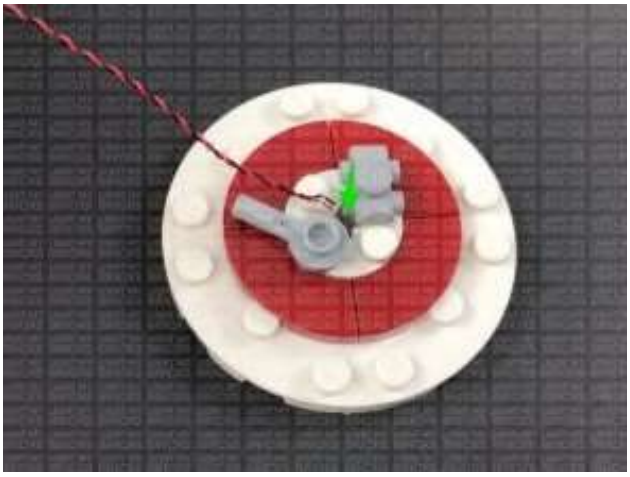
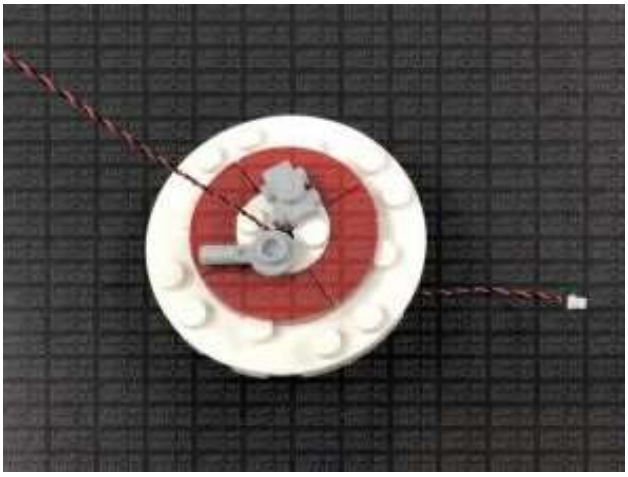
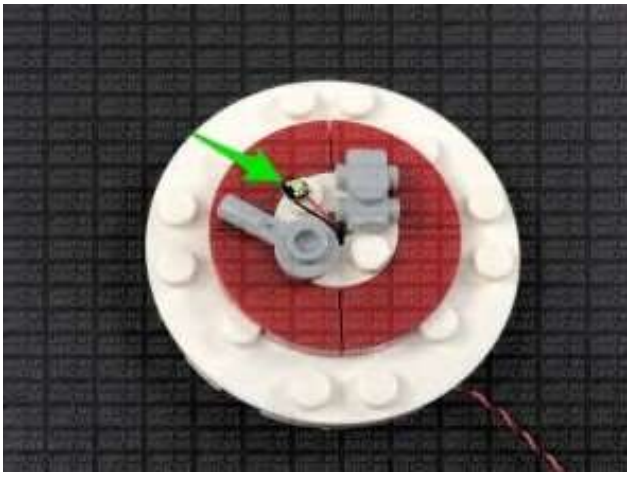
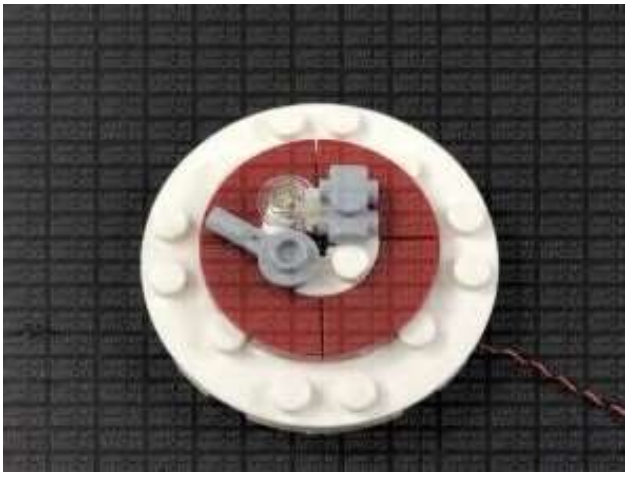
Continue to disconnect the following pieces on top of the ship.



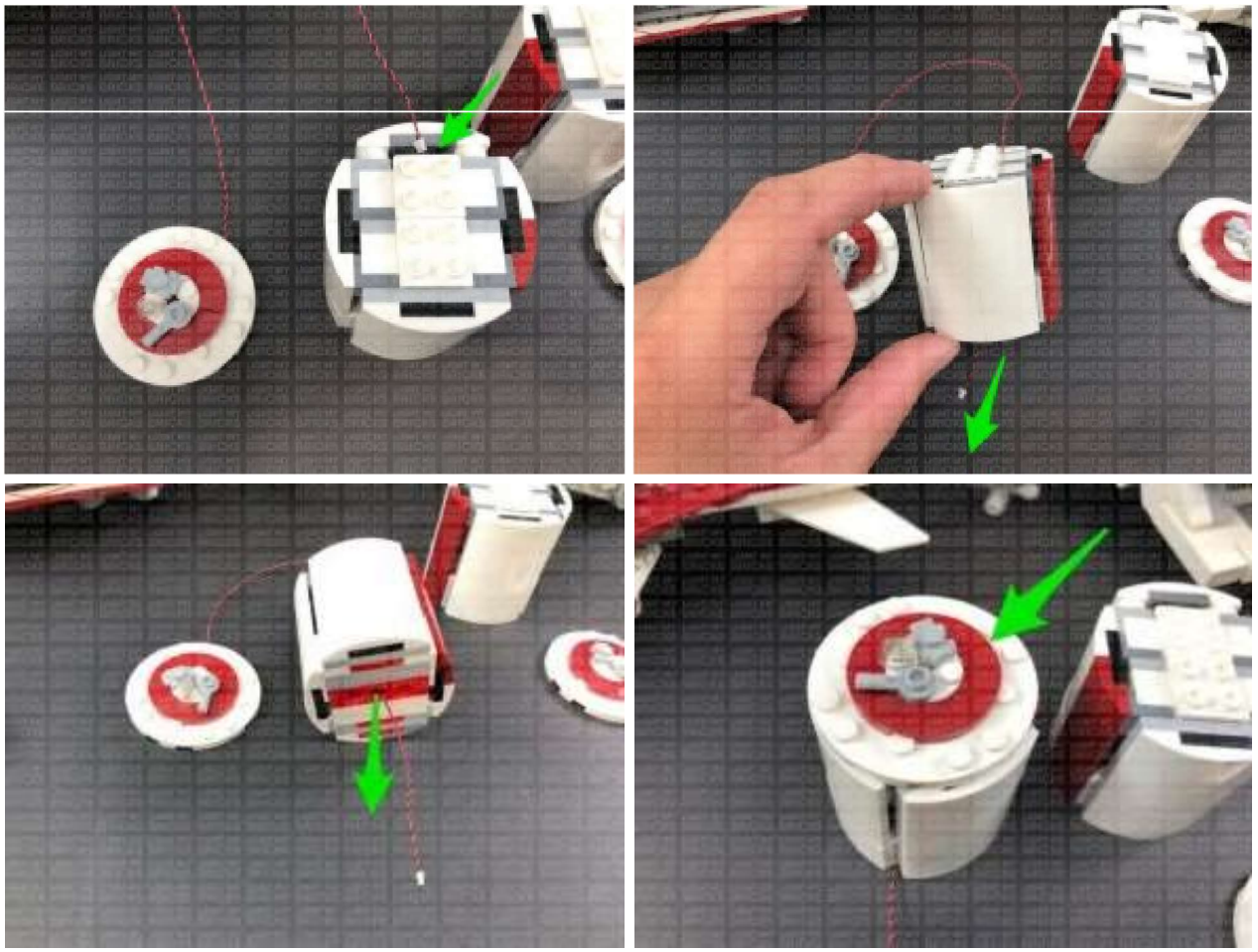
26.) Take the two side sections we removed earlier and disconnect the frontplate from each one.



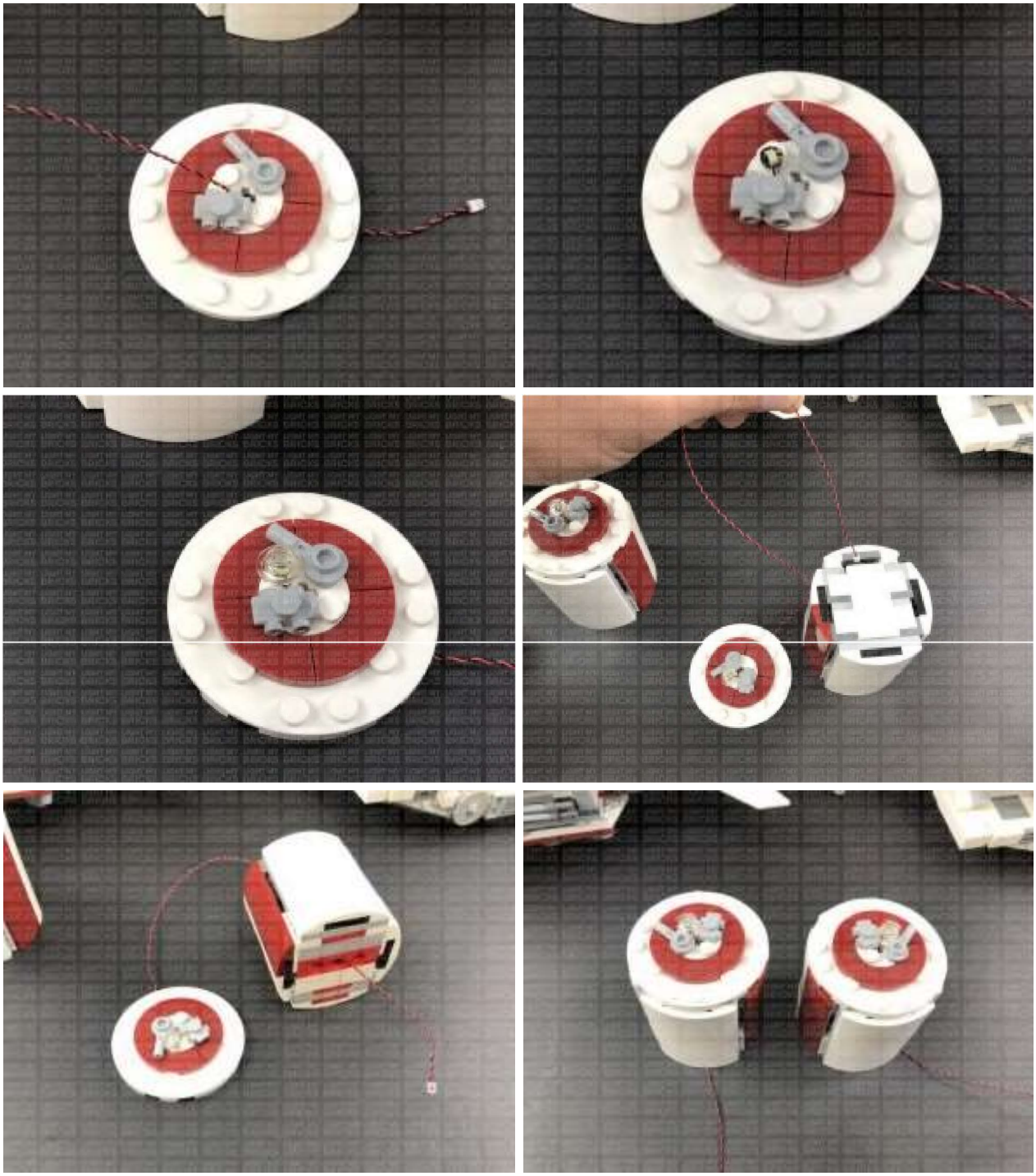
Take a **Cool White 30cm Bit Light** and thread the connector end of the cable through the + hole on the front plate from the left section. Pull the cable all the way out from the other side until you can neatly place the Bit Light over the white stud in between the grey pieces. Secure the Bit Light in place by connecting a provided **Trans Clear Round Plate 1×1** over the top.

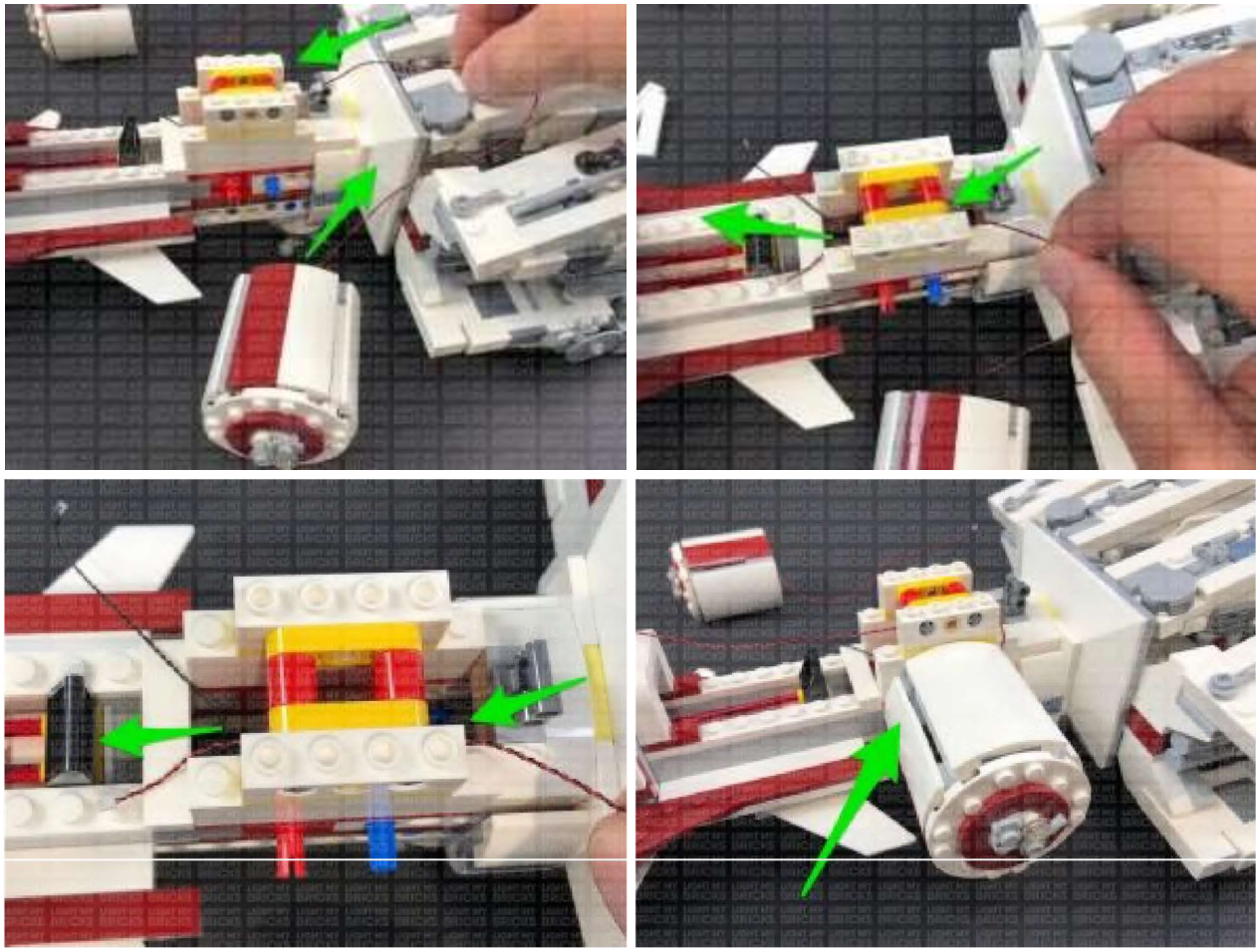
Take the back section from behind and thread the Bit Light cable through top space. Thread the cable through this section and out the middle hole of the red technic brick. Pull the cable all the way out from underneath, then securely reconnect the front plate.



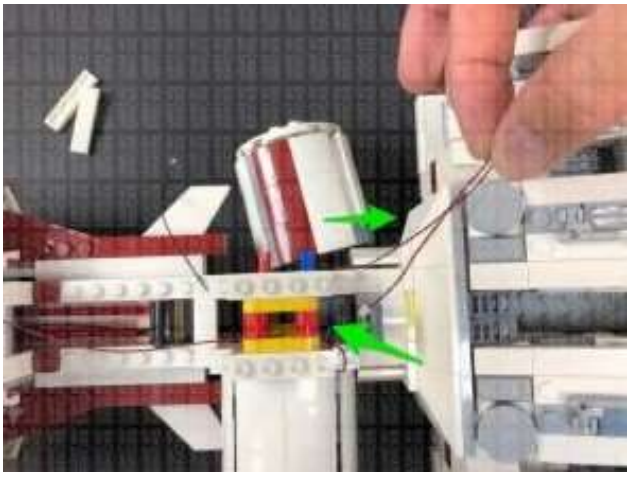
Repeat this step to install another **Cool White 30cm Bit Light** to the front plate for the right section, securing it in place using another provided **Trans Clear Round Plate 1×1.** Thread the cable through the top space and out the middle hole of the red technic brick underneath before reconnecting the front plate.

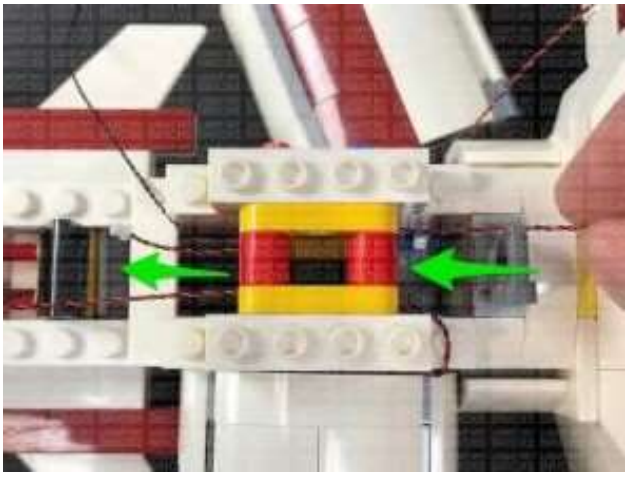


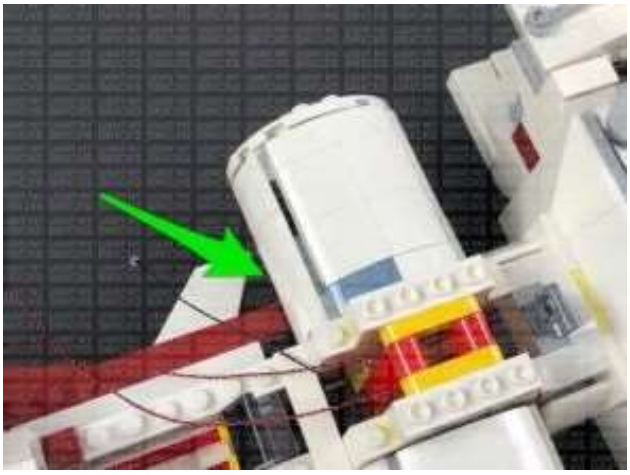
27.) Take the left section and thread the cable through the back of the middlesection and underneath the red and yellow technic pieces. Pull the cable all the way out from the front side, then securely reconnect the left section to the side of the ship.



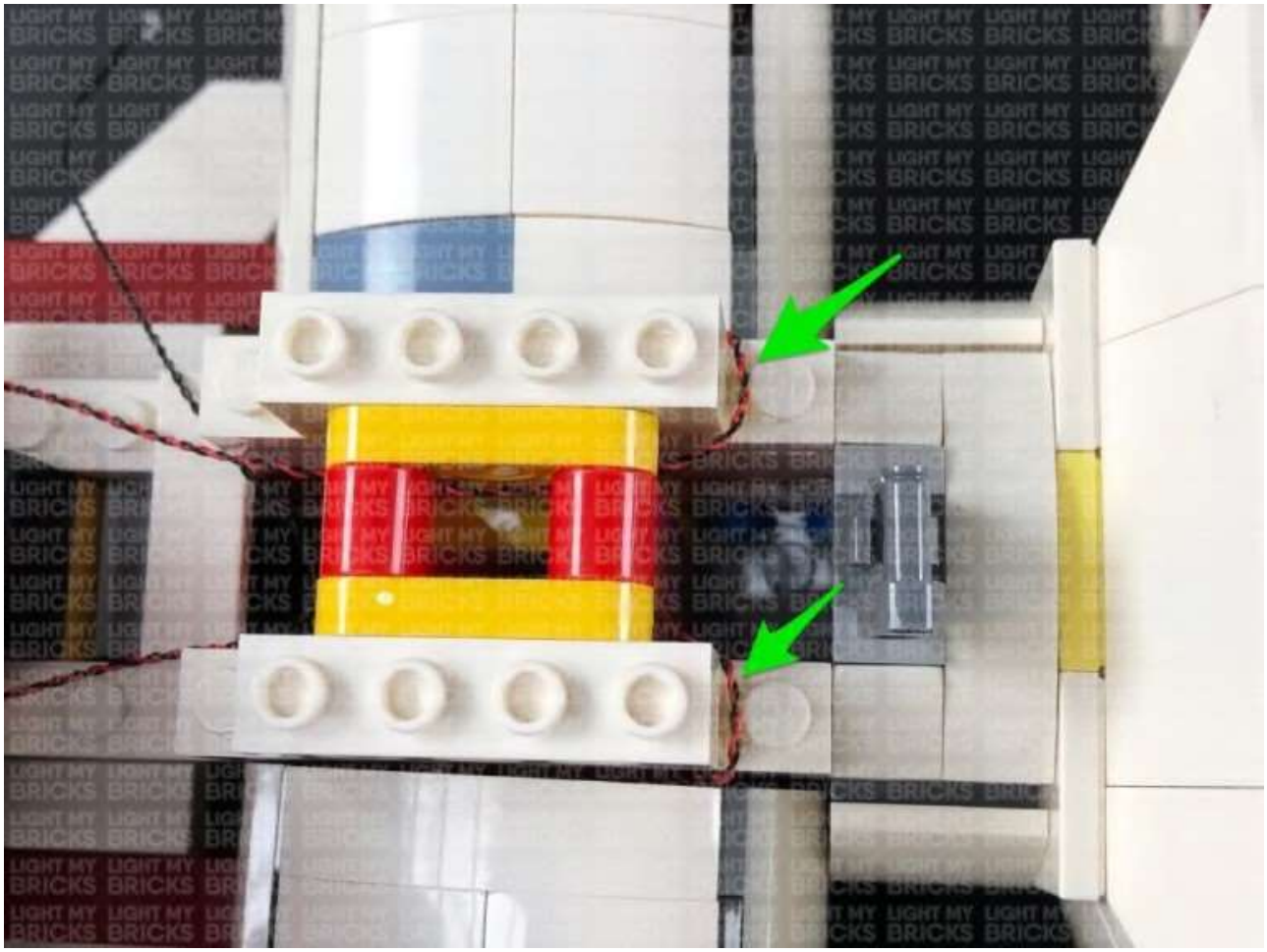
Repeat this step to reconnect the right side section.



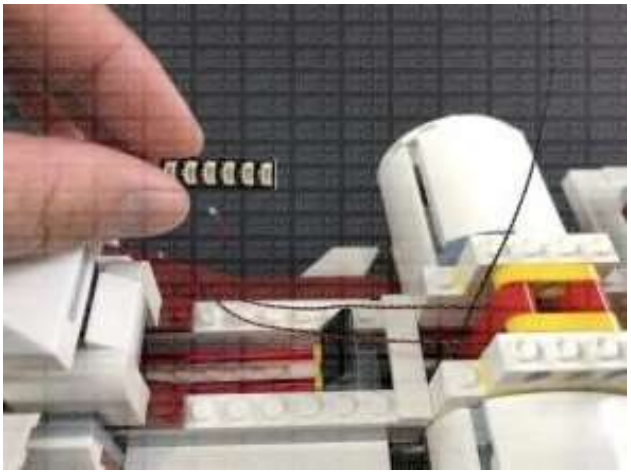


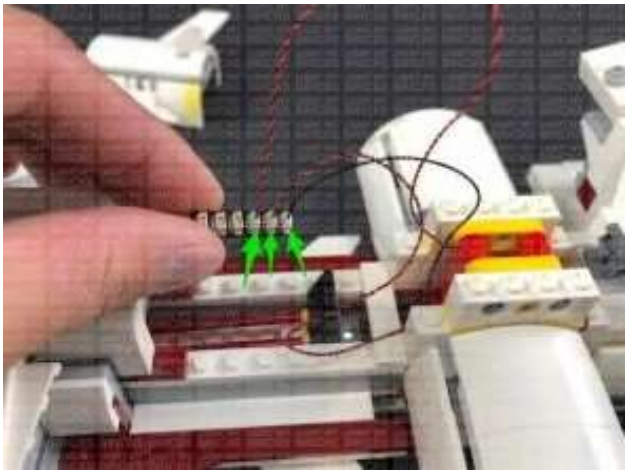


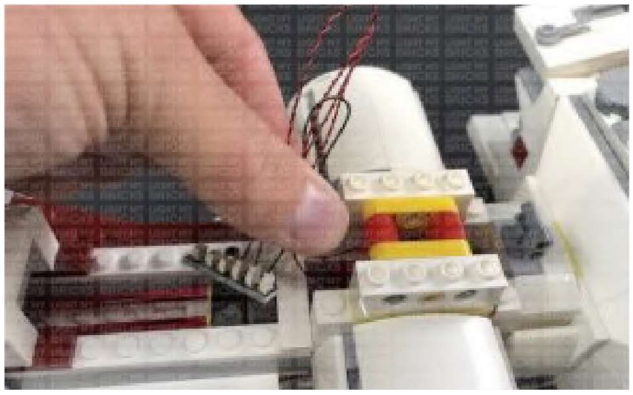
Ensure both cables are neatly pulled over and laid in between studs.

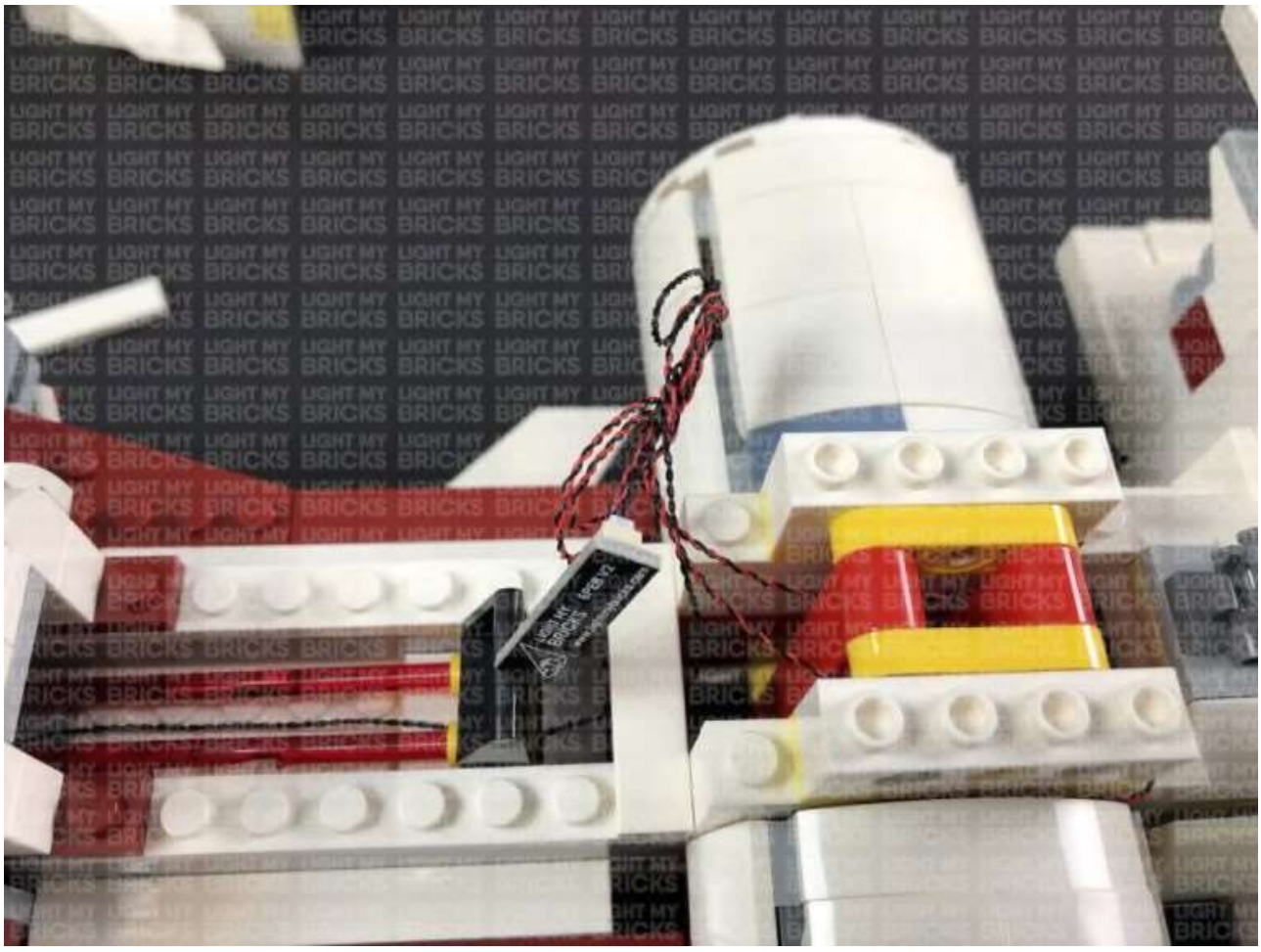


28.) Connect the two Cool White Bit Lights as well as the 30cm ConnectingCable from the front side to a new **6-Port Expansion Board.** Neaten up the cables by twisting and folding them around each other to form a neat bunch

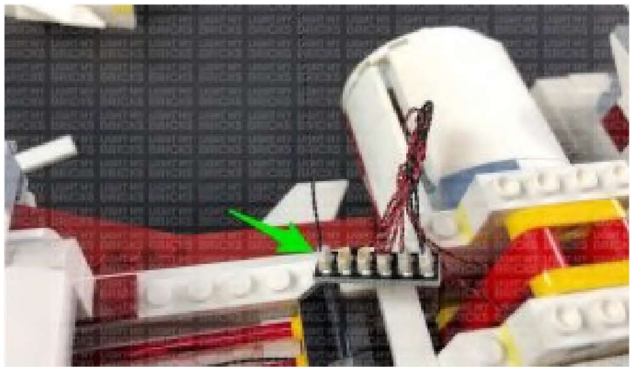


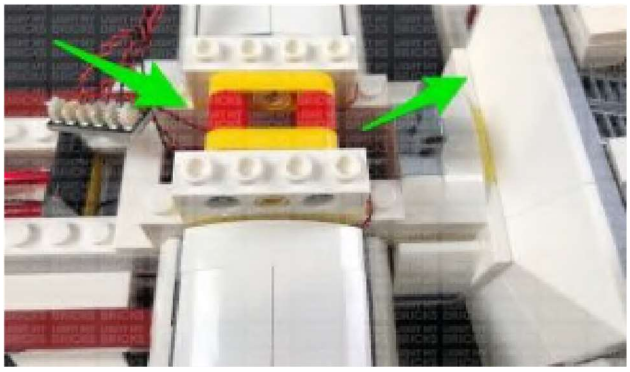


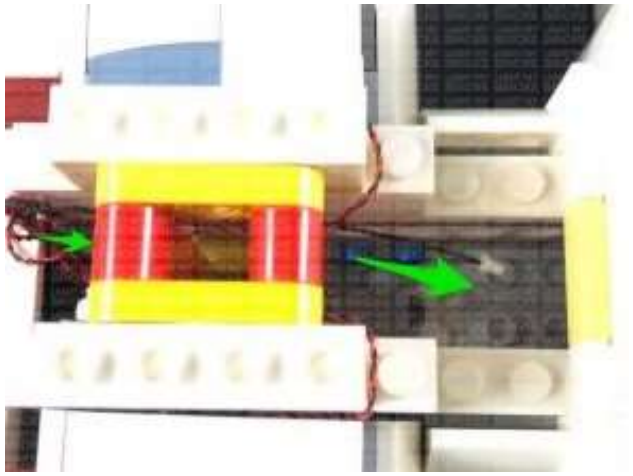


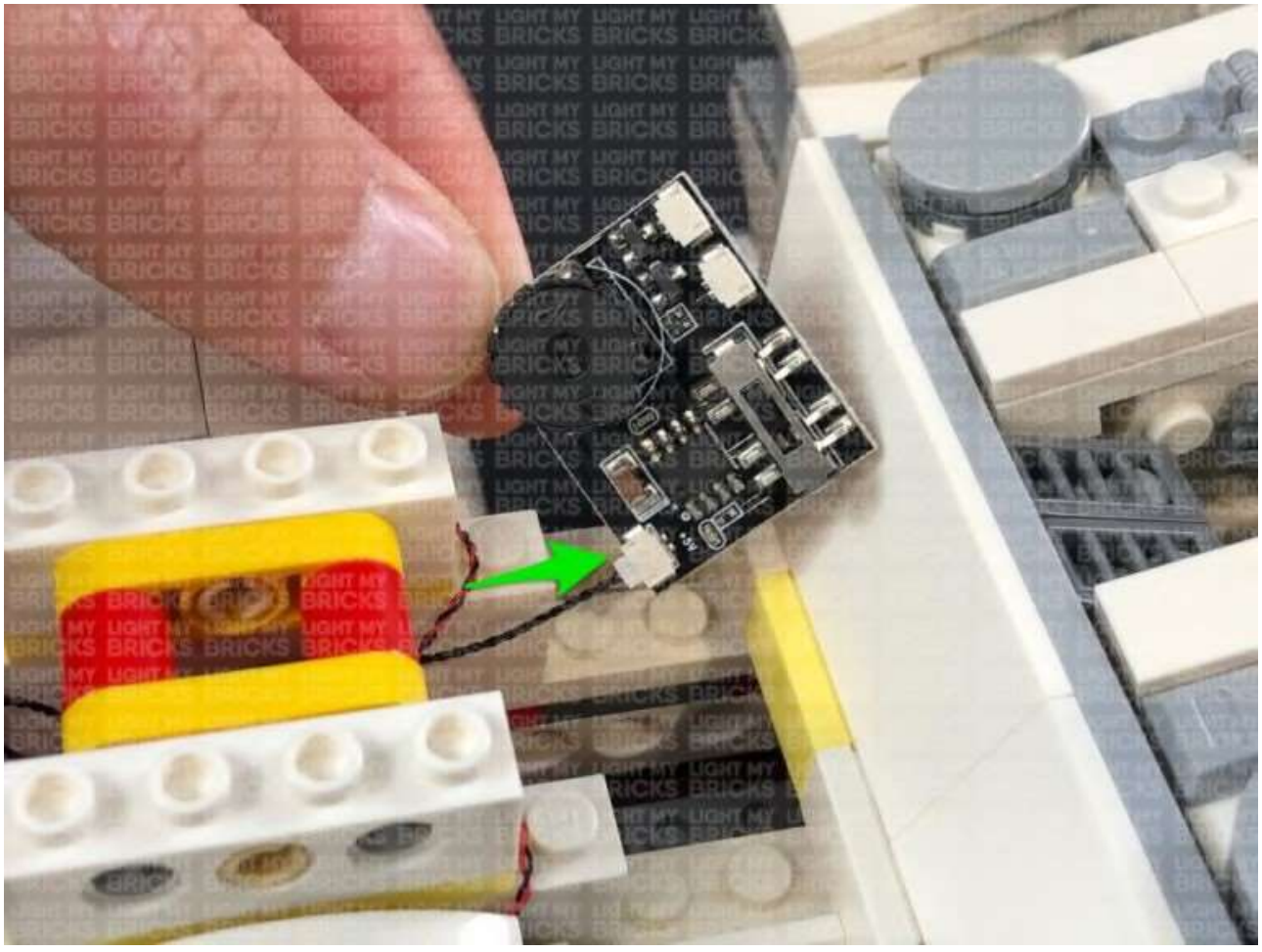


Take a **5cm Connecting Cable** and connect it to the 6-Port Expansion Board. Thread the other end of the cable toward the back, underneath the red and yellow technic bricks, then connect it to the **IN** port on the **Multi Effects Board** (side with one port).

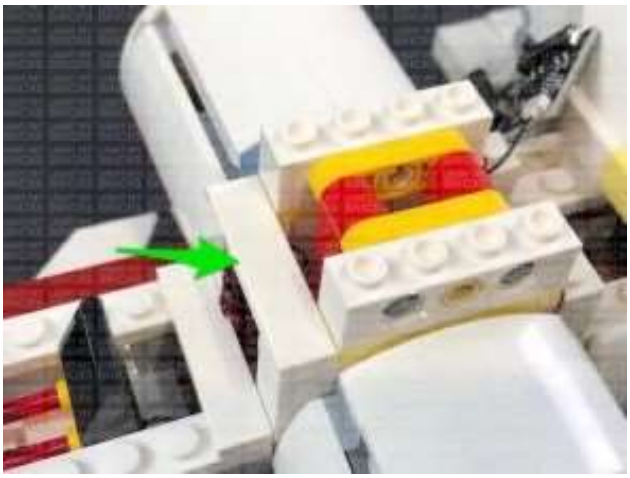


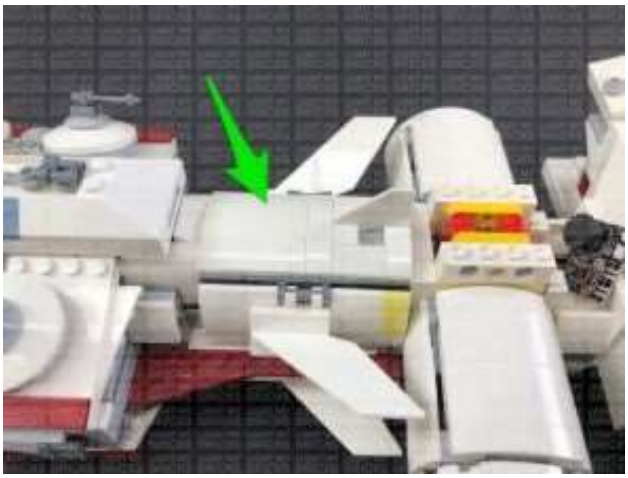




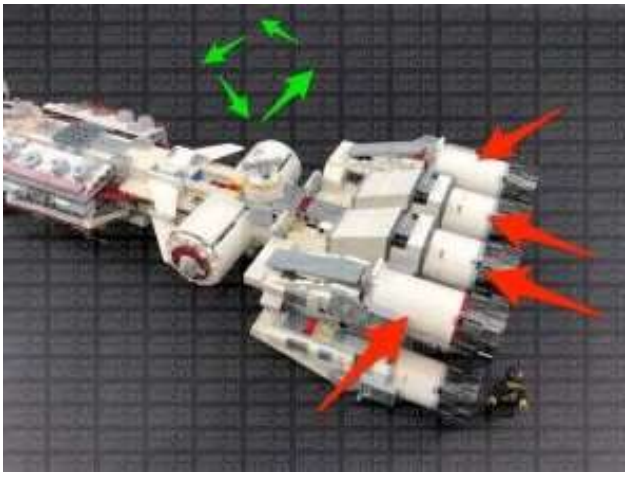


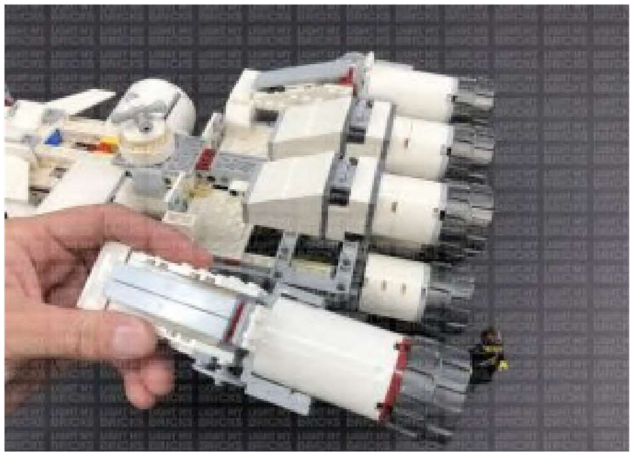
Reconnect the white 1×4 tile to the front side of this section as well as the roof of the spare laser section.

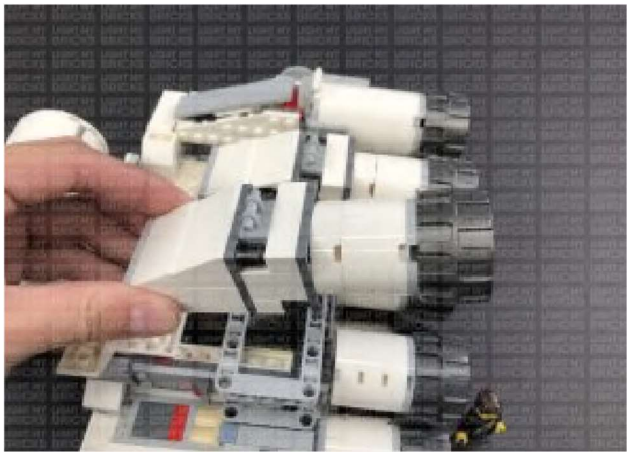


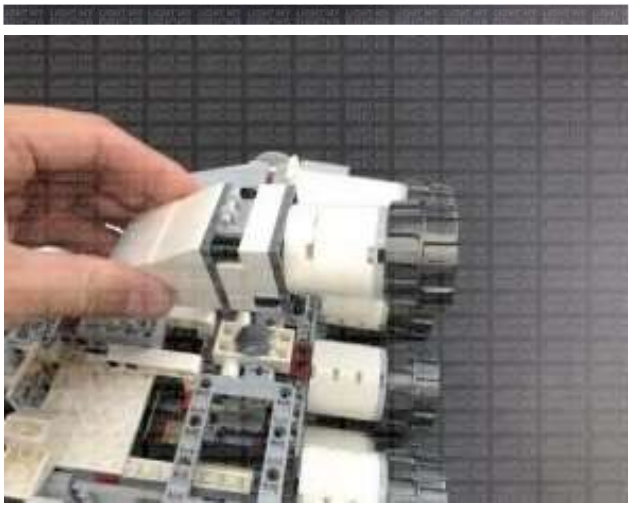
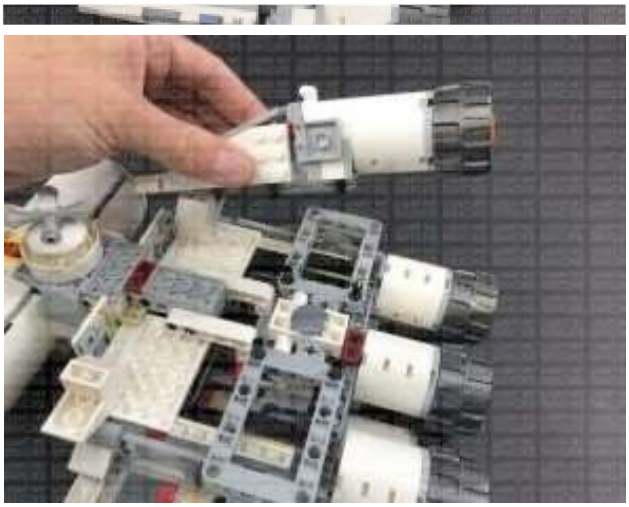


29.) We will now install lights to the back jets starting with the bottom jets. Turnthe Tantive IV over and disconnect the four jets from the bottom by disconnecting them at the technic pins.



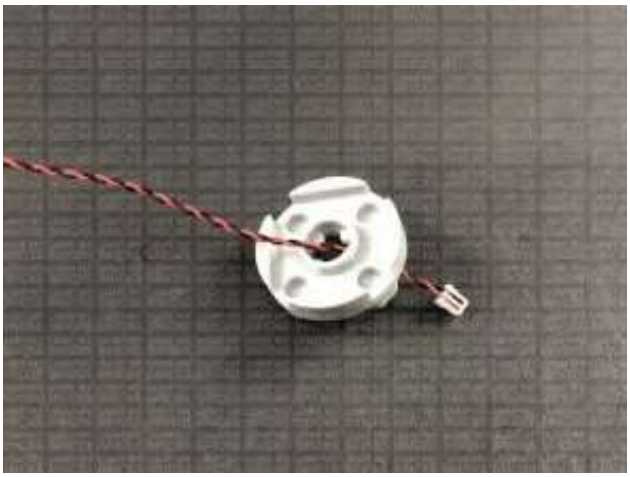
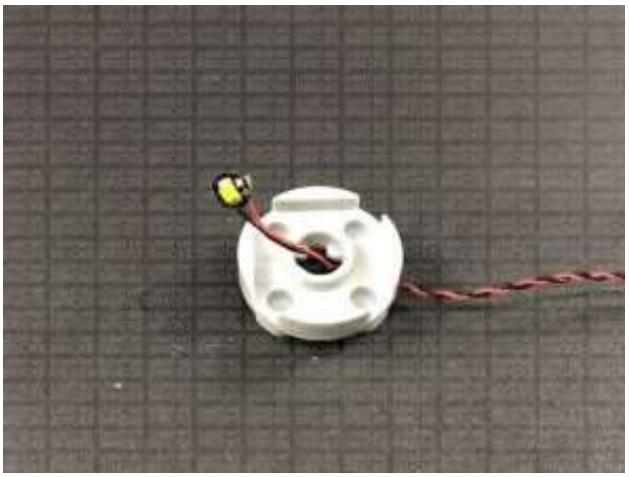
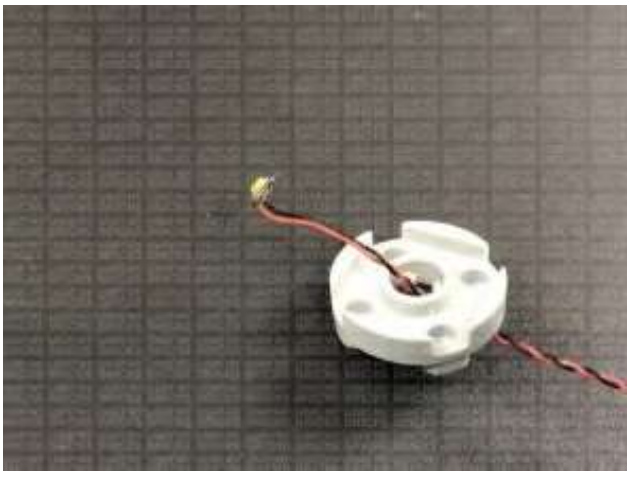
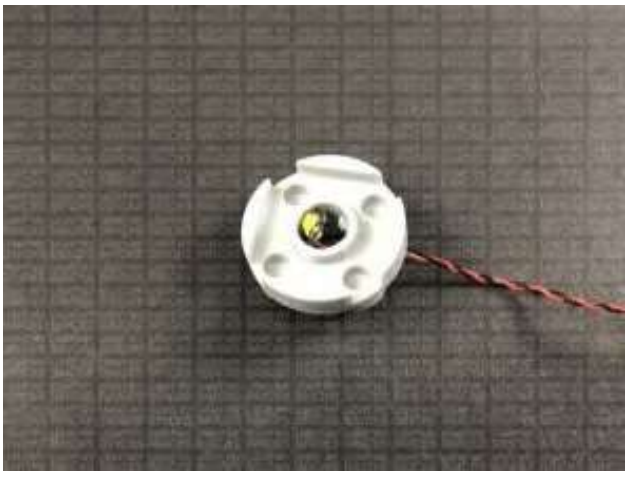




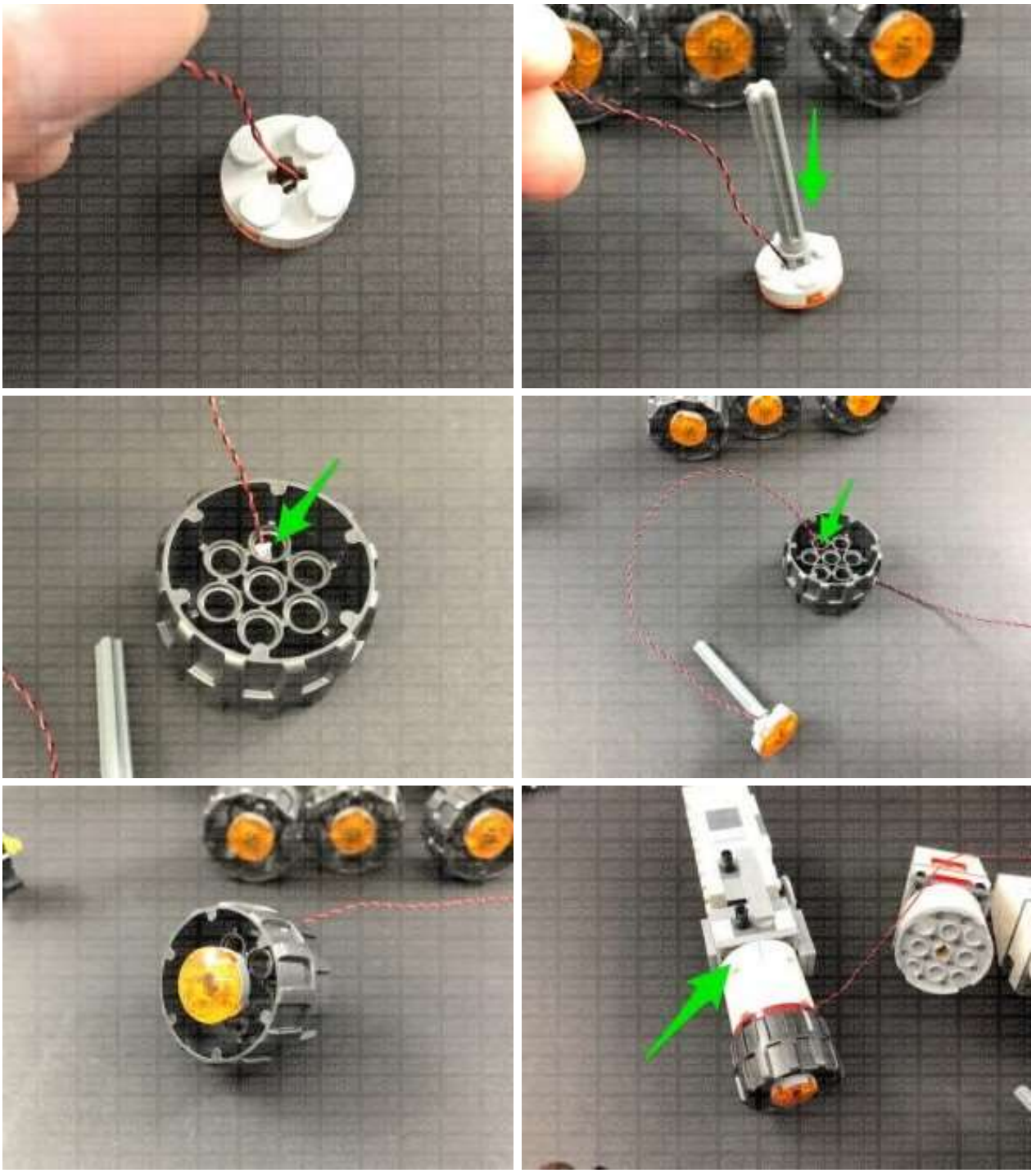
Turn the jet sections over, then remove the barrel sections from each jet. Disassemble the left one as shown below:

30.) Take a **White 30cm Bit Light** and thread the connector side of the cable through the bottom of the grey round 2×2 plate. Pull the cable all the way out from the other side, then carefully bend the Bit Light on a 90 degree angle so that it sits flat against the edge of the middle hole. Secure the Bit Light in place by reconnecting the trans orange 2×2 rounded plate.

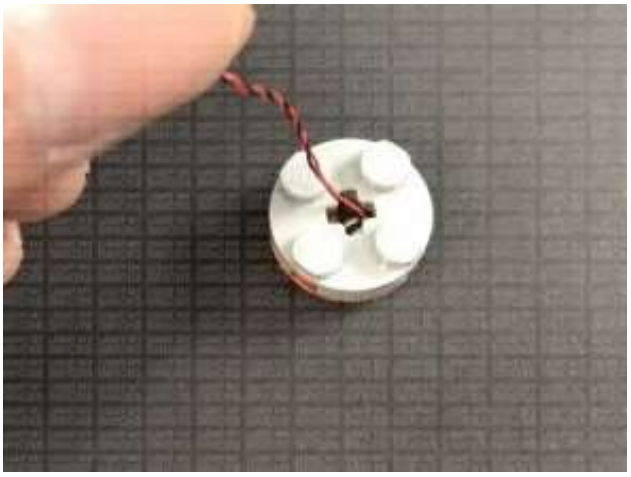
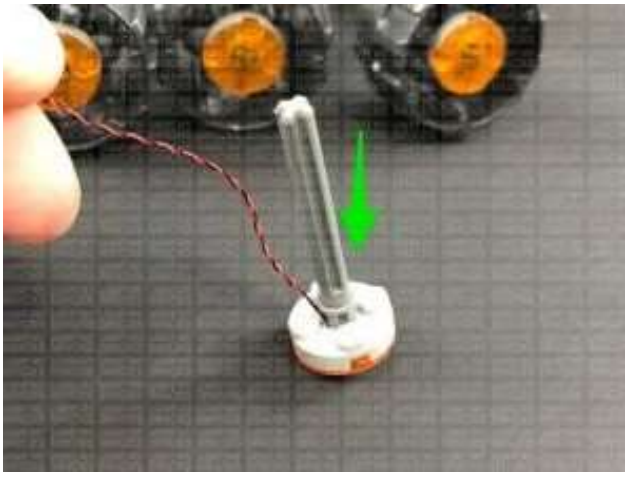
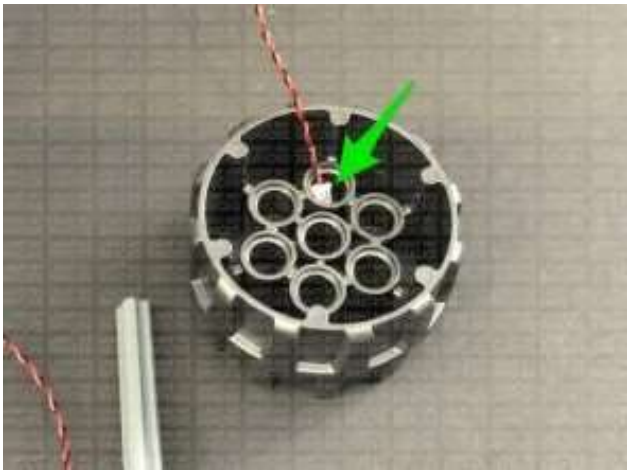
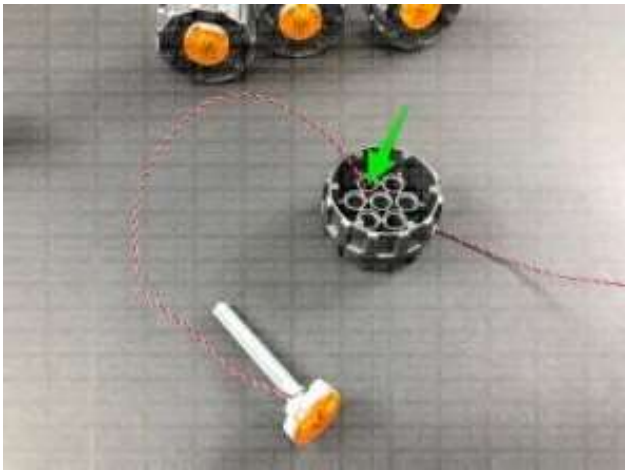
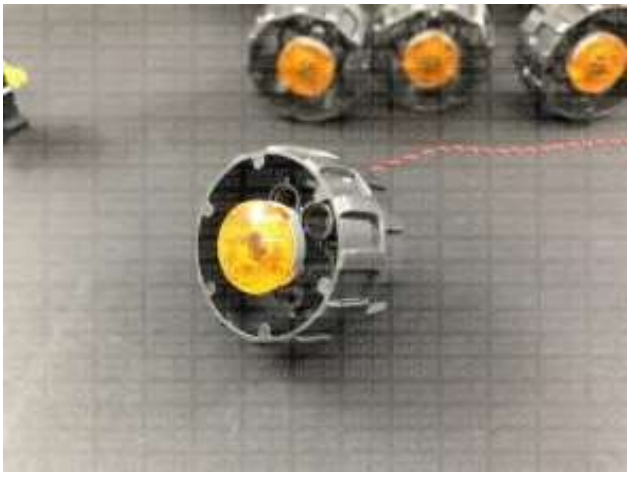
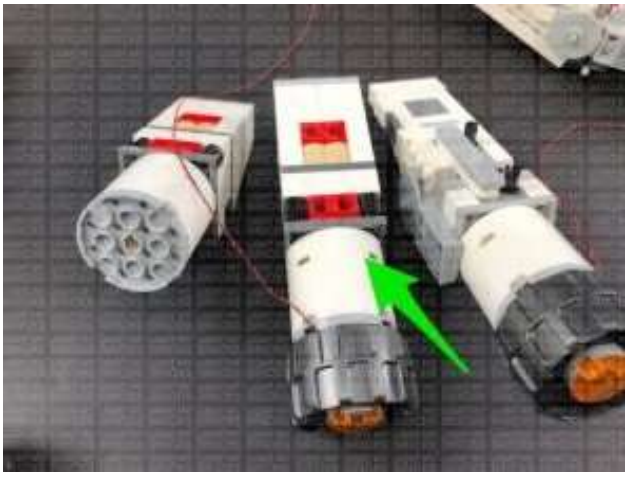
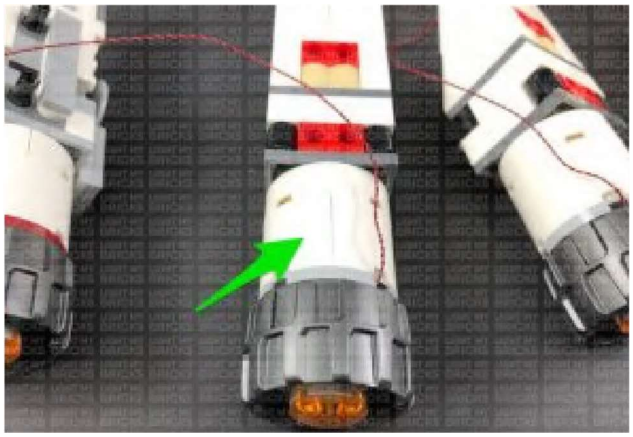
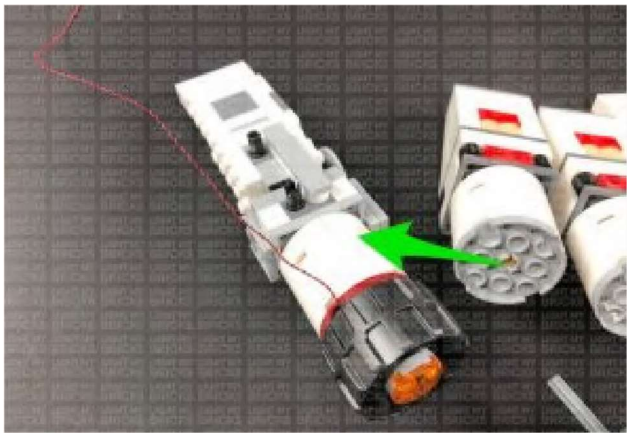
Reconnect the technic bar to the other side of the grey round 2×2 plate, then thread the Bit Light cable through one of the holes in the technic barrel. Pull the cable all the way out from the other

side, then reconnect the technic bar ensuring the cable is facing the inside as shown below (toward the middle):

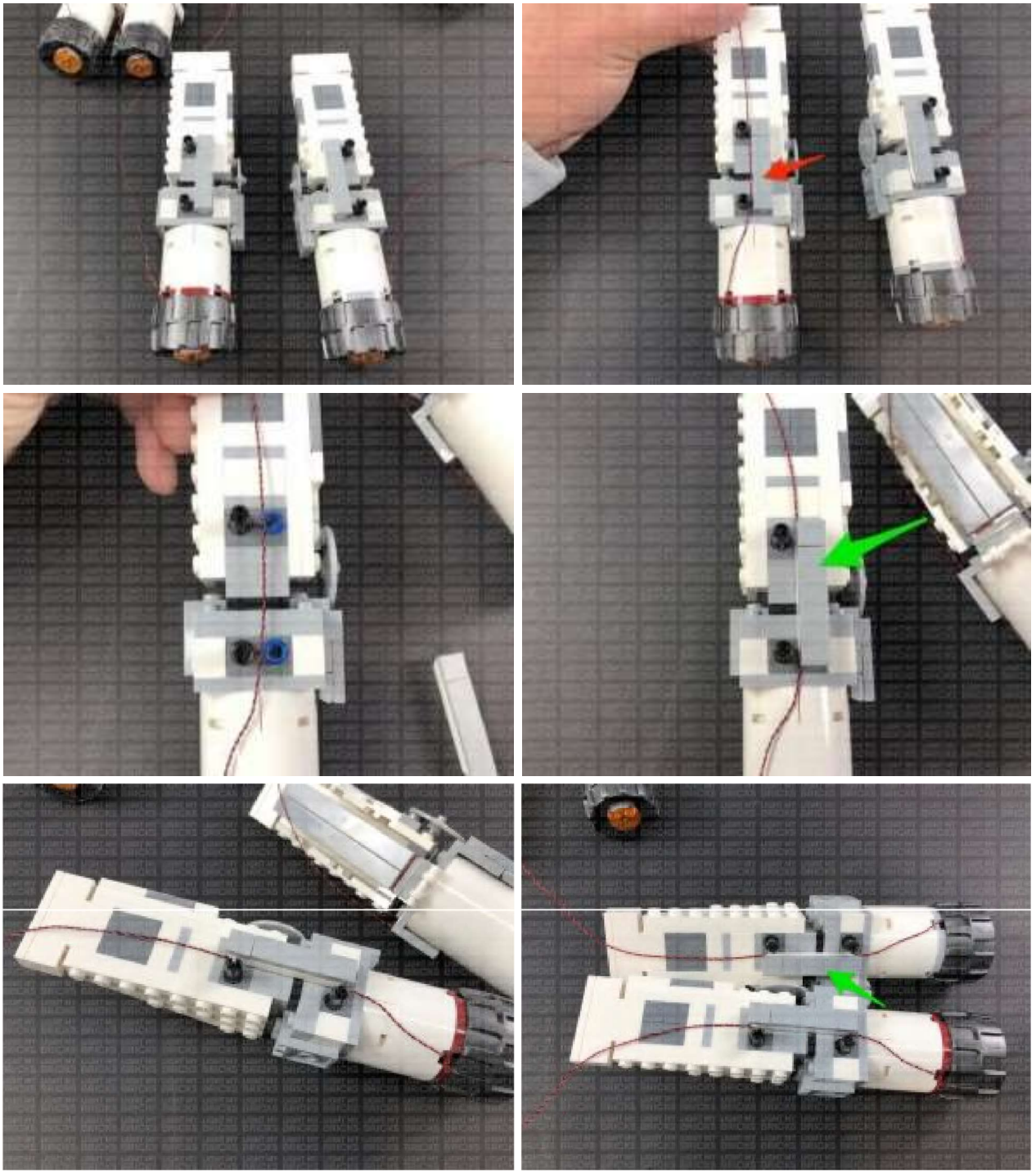


Note – Because the LED is installed, it will prevent you from being able to completely push in the technic bar. Do not forcefully push the technic bar all the way in. Doing so will damage the Bit Light.

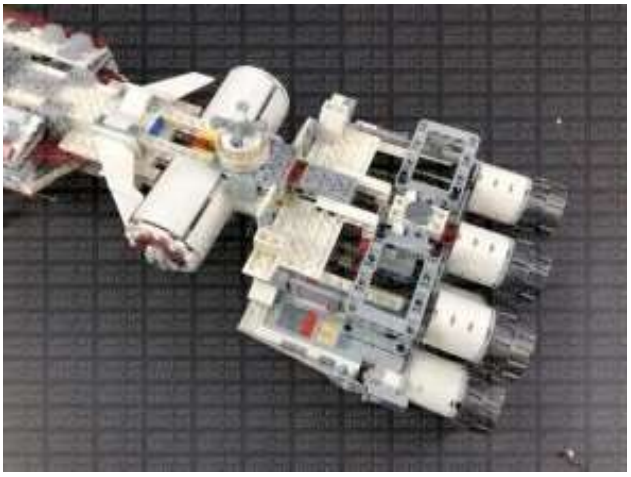
31.) Repeat previous step to install another **3x White 30cm Bit Lights** to each of the remaining bottom jets.

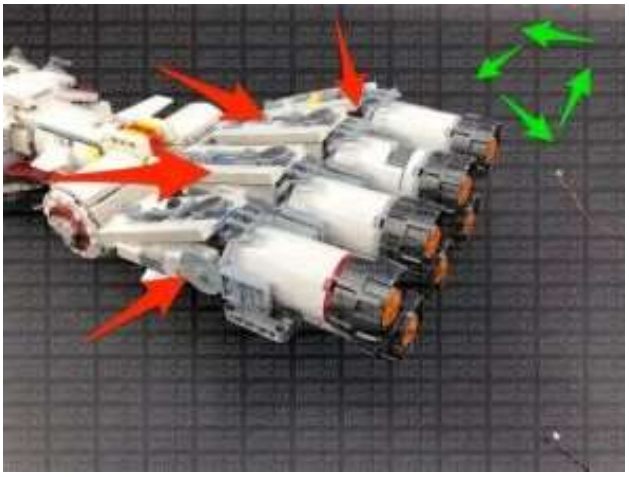









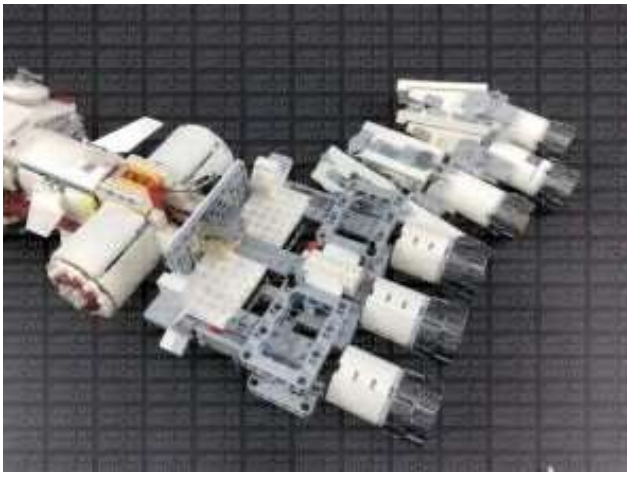
32.) Secure the cable for the far left jet and the far right jet underneath thefollowing sections in the middle.



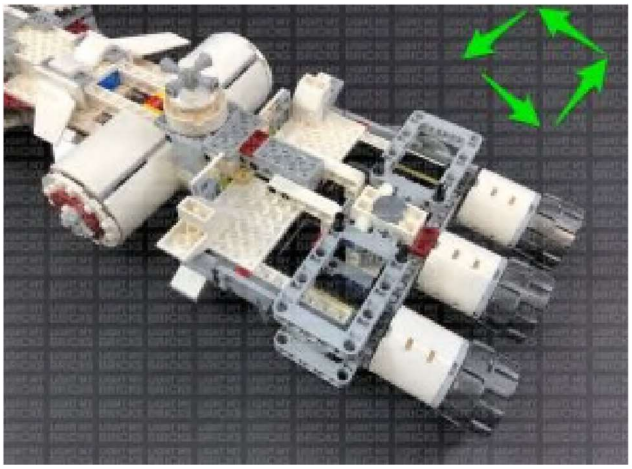
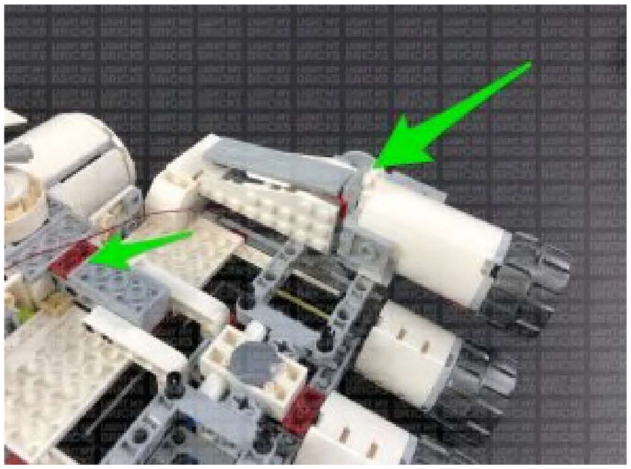
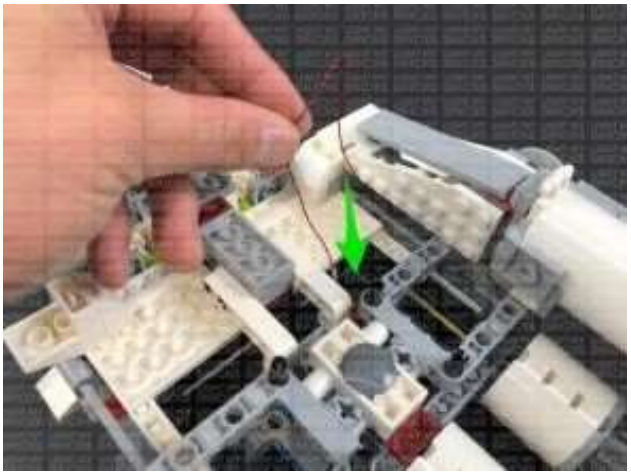
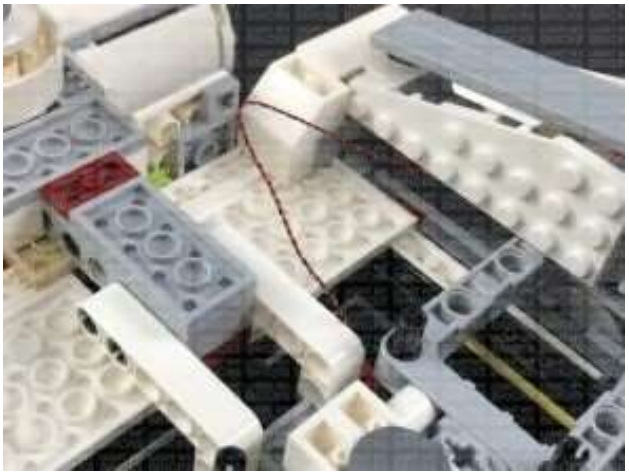
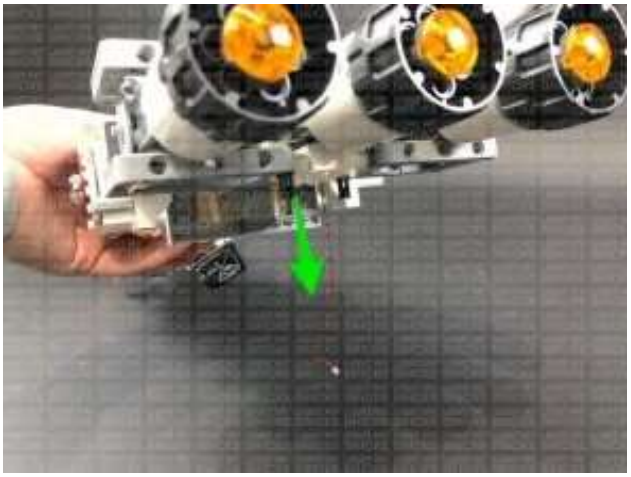
Turn the Tantive IV back over and disconnect the four upper jet sections from the top of the ship.



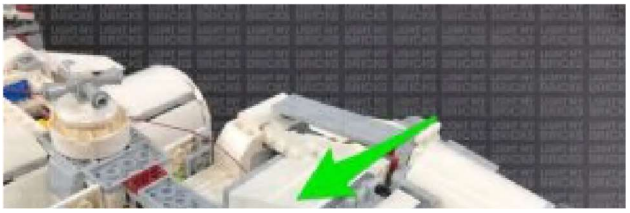


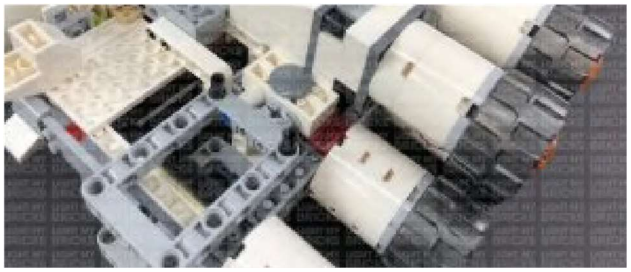
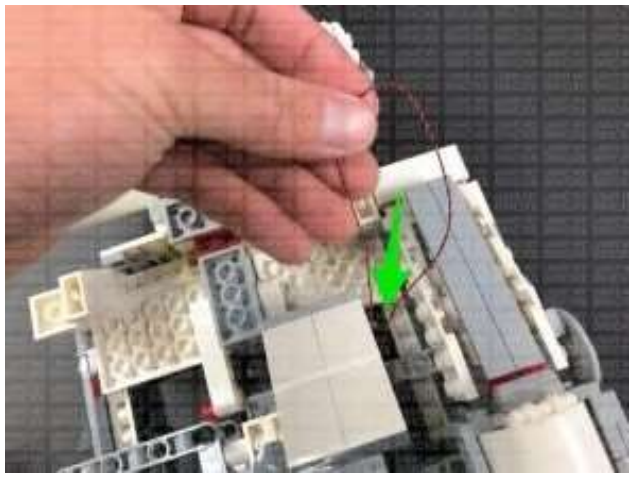
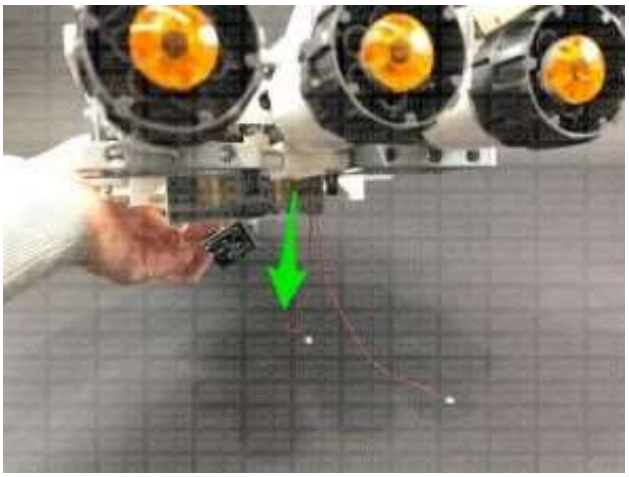


33.) Turn the Tantive IV back over to the bottom side and reconnect the far rightjet. Thread the Bit Light cable through the top of the following space toward the left of it, then pull the cable all the way out from underneath.

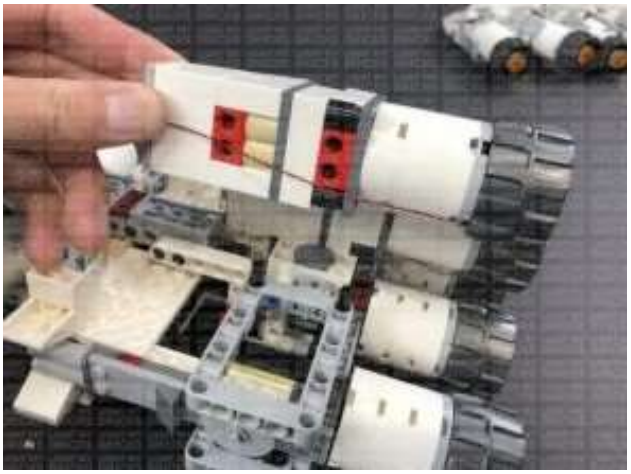






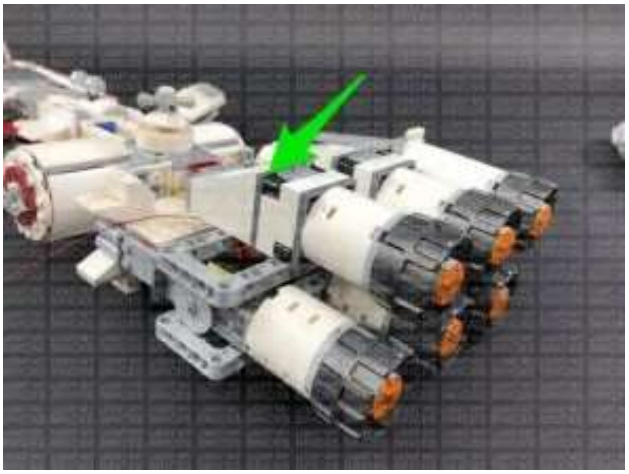
Take the middle jet to the left, and while ensuring the cable is laid up the middle toward the front, reconnect the jet. Thread the Bit Light cable through the same space we threaded the right jet light through, then pull the cable all the way out from underneath.

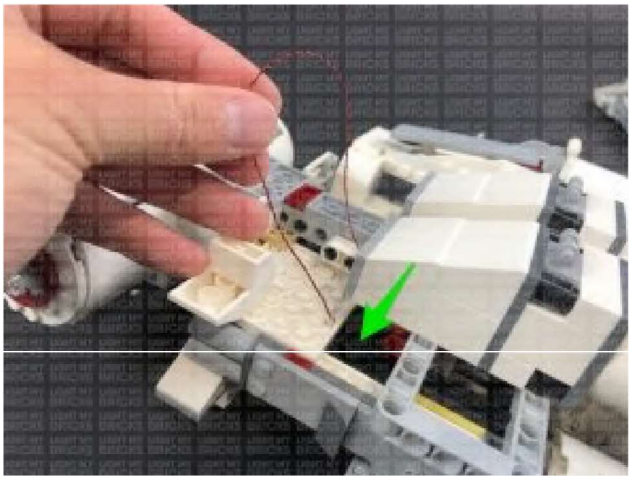


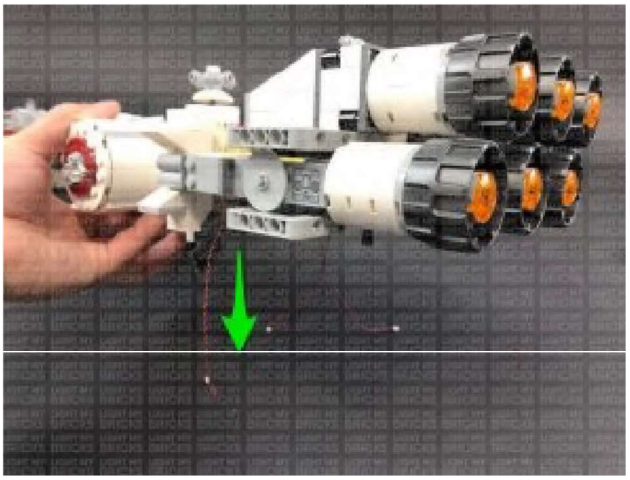




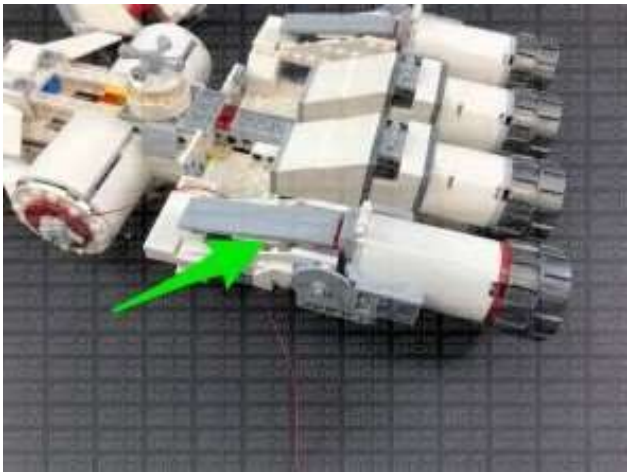
34.) Repeat the previous step to reconnect the remaining two bottom jets,while threading each of their Bit Light cables through the following space, and pulling them all the way out from underneath.

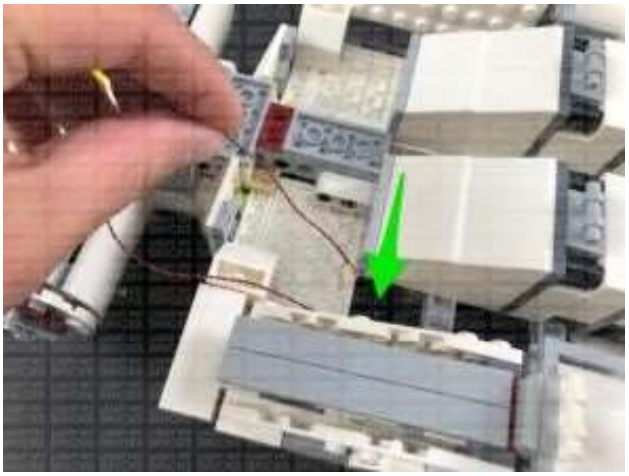


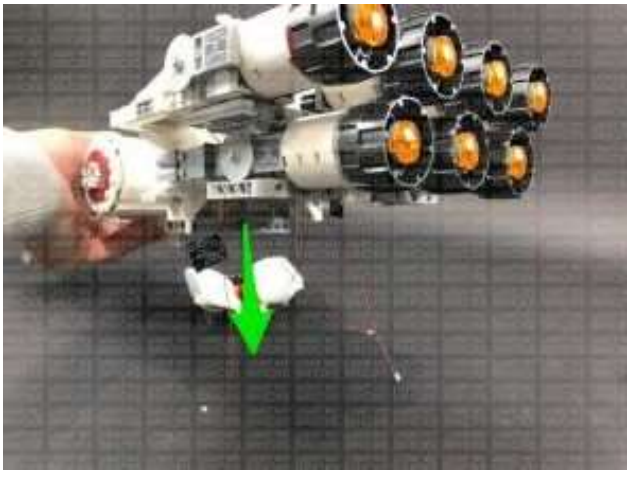




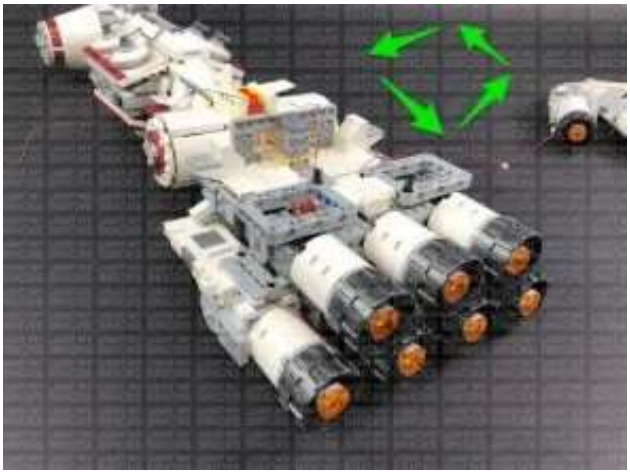


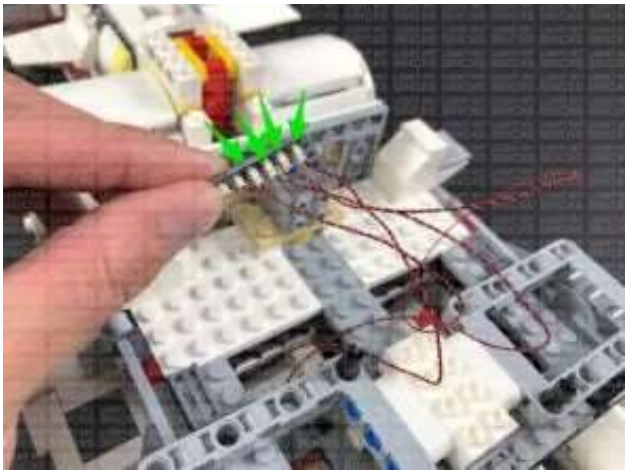




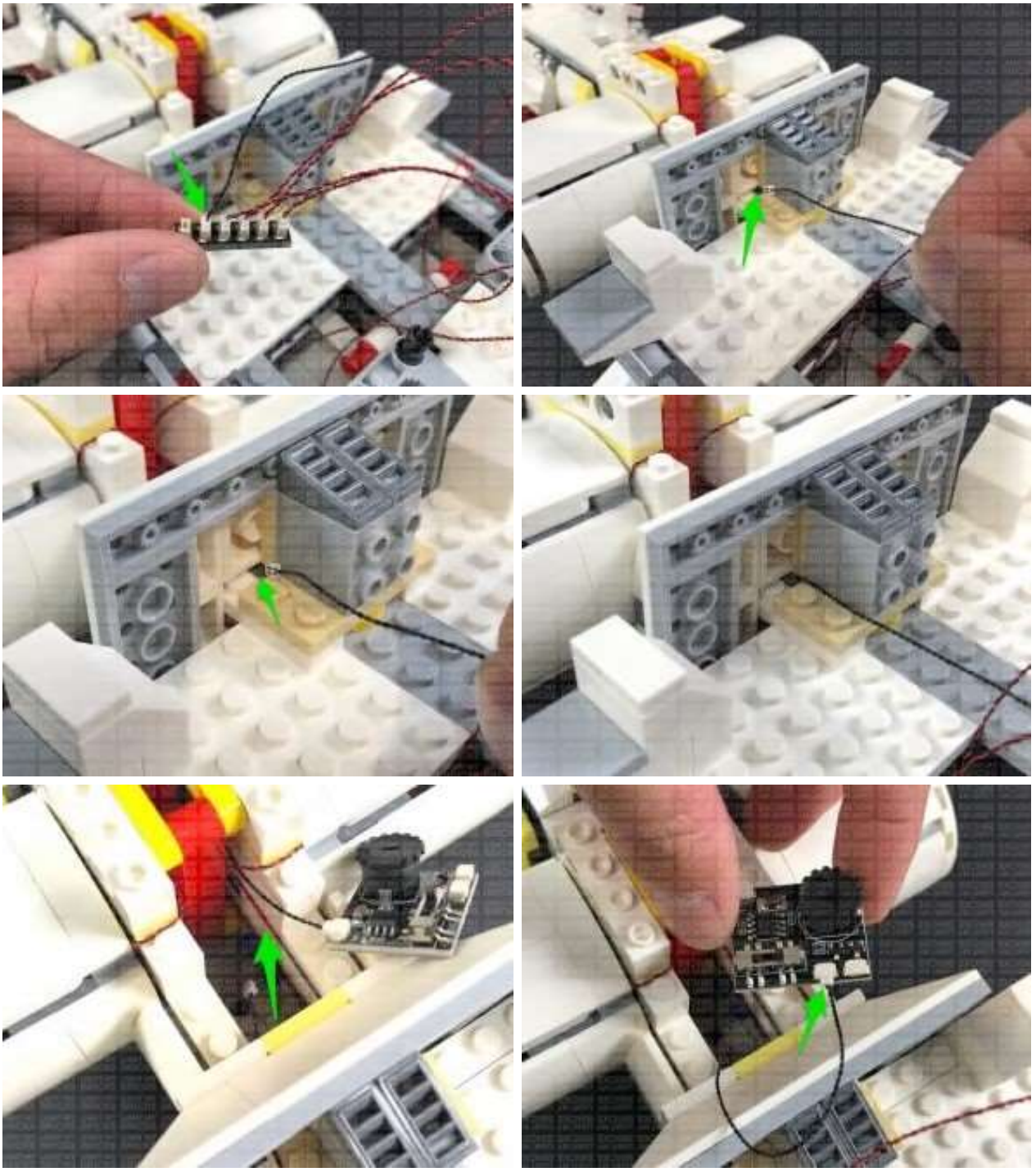


35.) Turn the Tantive IV back over to the top side and connect the four Bit Lightcables from the bottom four jets to a **6-Port Expansion Board**.

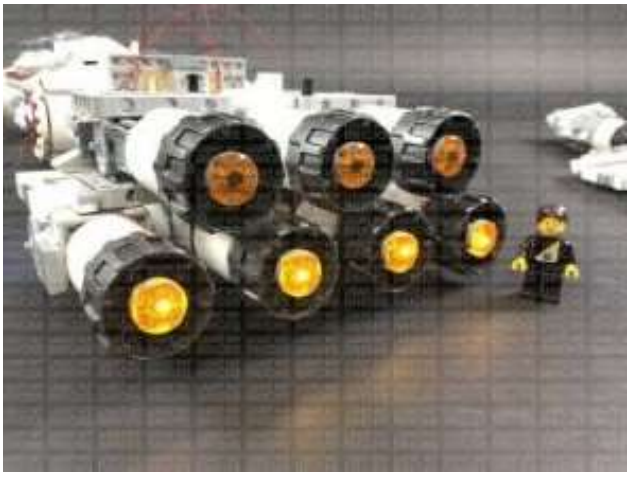
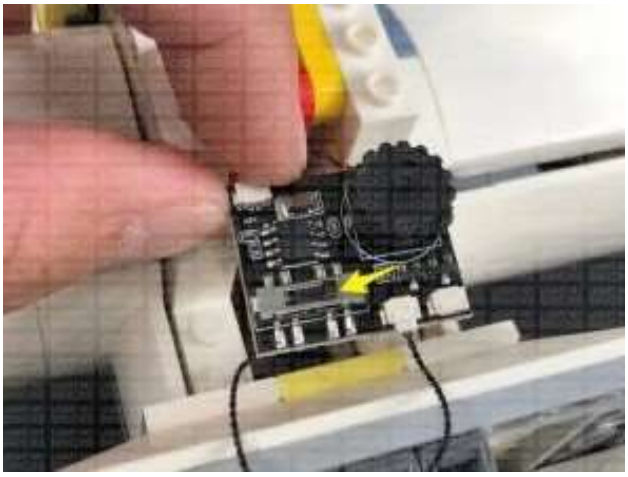




Take a **15cm Connecting Cable** and connect it to the same 6-Port Expansion Board. Take the other end of the cable and thread it through the following space which leads into the middle area where we left the Multi Effects Board. Pull the cable out from the other side and connect it to one of the OUT ports on the Multi Effects Board.

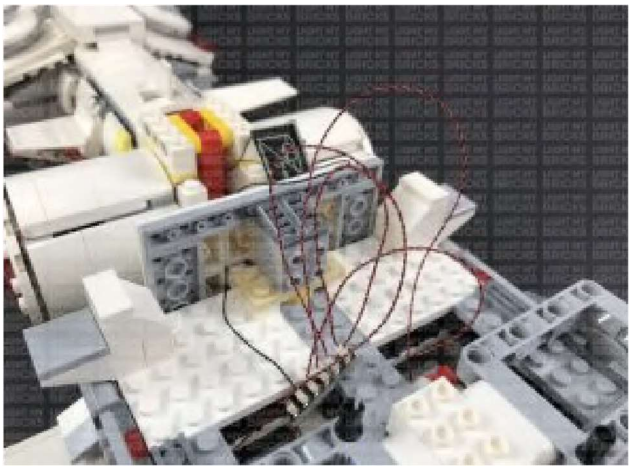
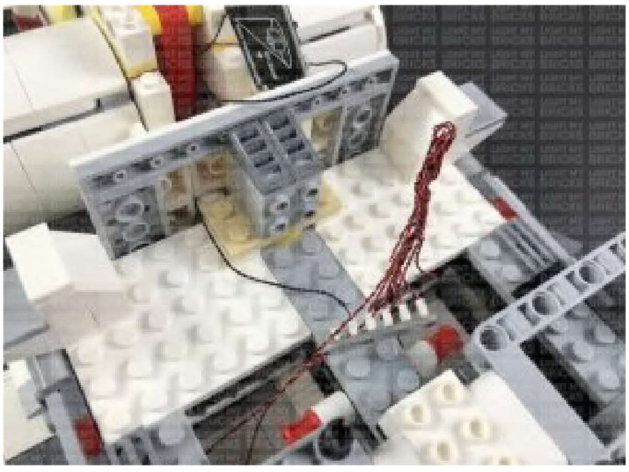


Turn the USB Power Bank ON and configure the rear jets effect by flicking the switch on the Multi Effects Board to the far right for the “Flicker Effect”. Adjust the speed of the flicker by turning the speed wheel. Alternatively you can choose your desired effect by flicking the switch to either the “Pulse” or “Emergency” effect.

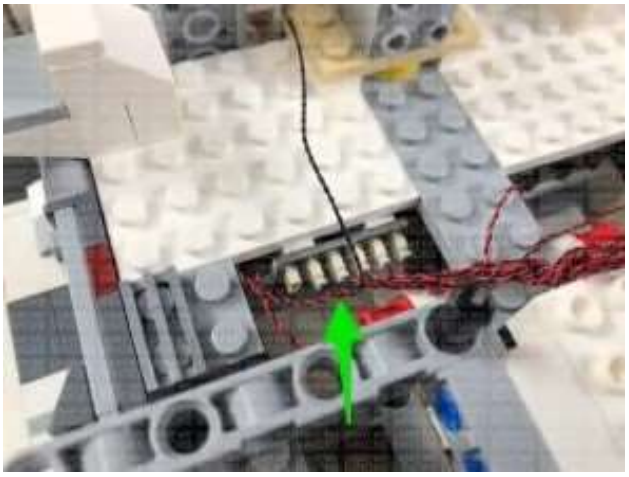



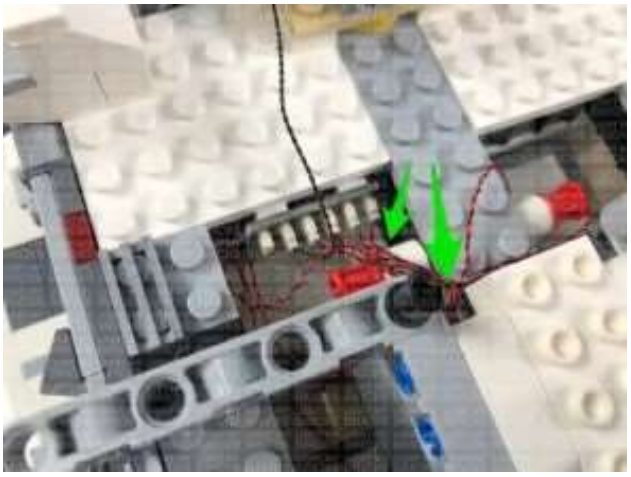
Note: If you experience any issues with the lights not working and suspect an issue with a component, please try a different port on the expansion board to verify where the fault lies (with the light or expansion board). To correct any issues with expansion board ports, please view the section addressing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

36.) Neaten up the cables from the bottom four jets by folding and twistingthem around each other into a neat bunch as shown below:

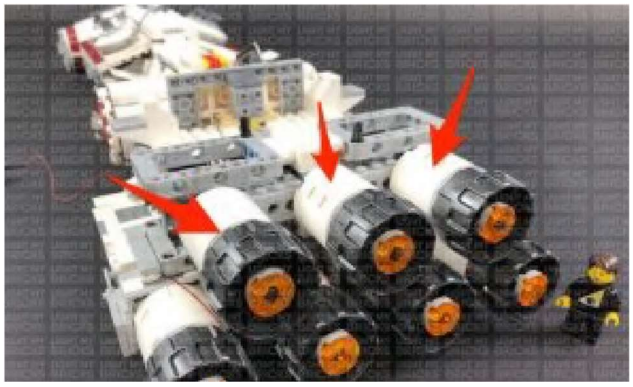



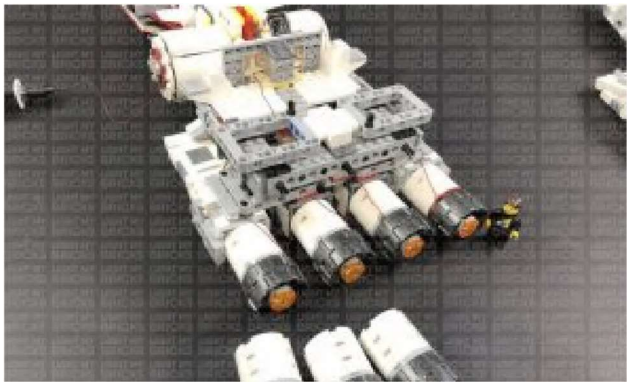
Use **2x Adhesive Squares** to mount the 6-Port Expansion Board to back of the Tantive IV in the following position, then tuck the bunched up cables inside the following space.

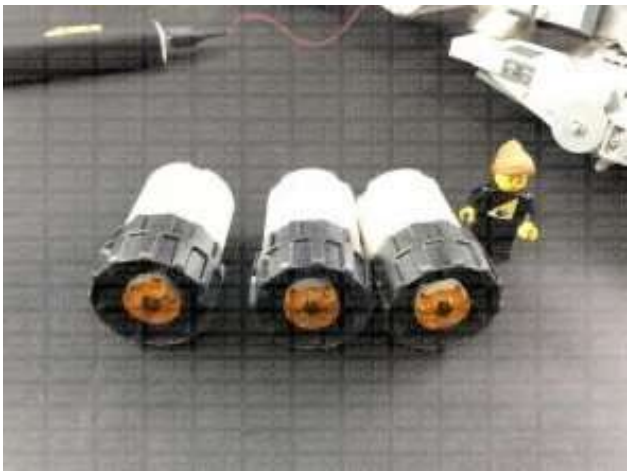




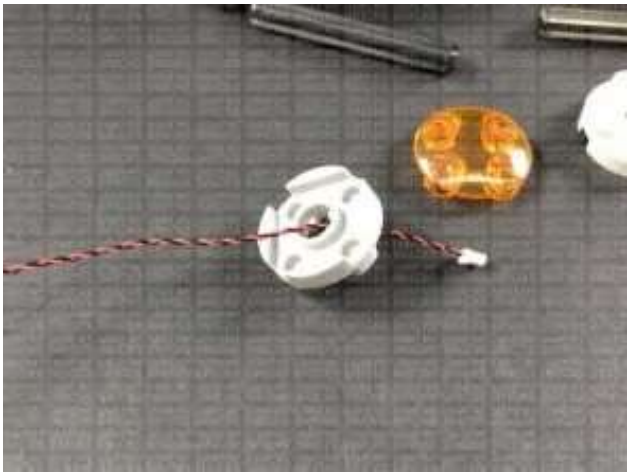
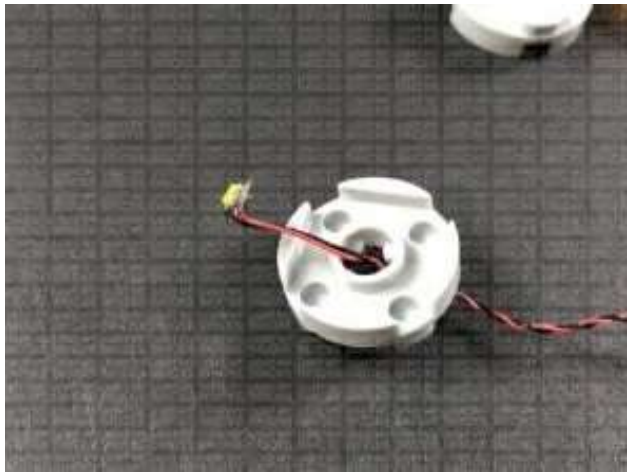
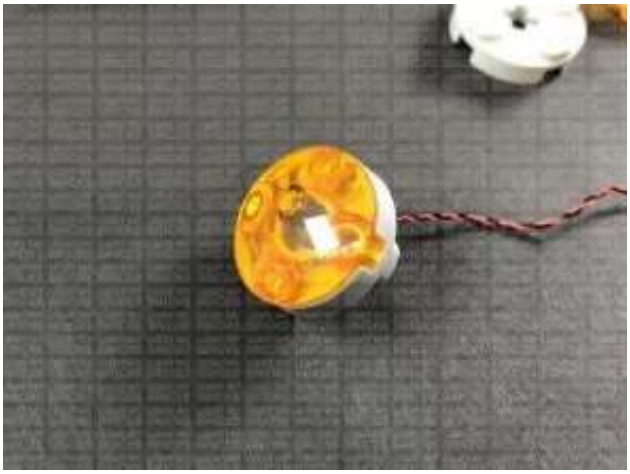
37.) Remove the three middle jet sections, then disassemble them as per below:



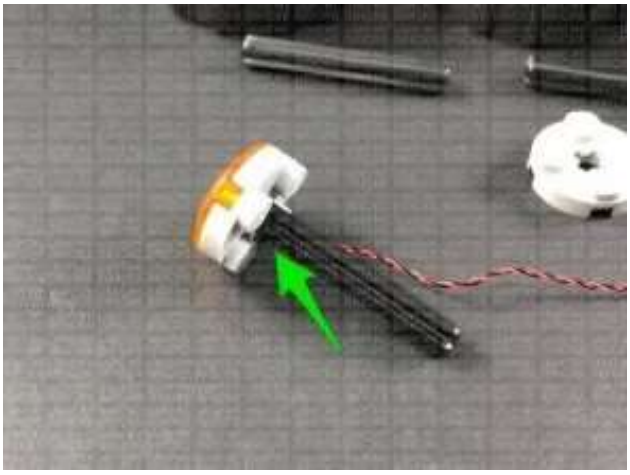


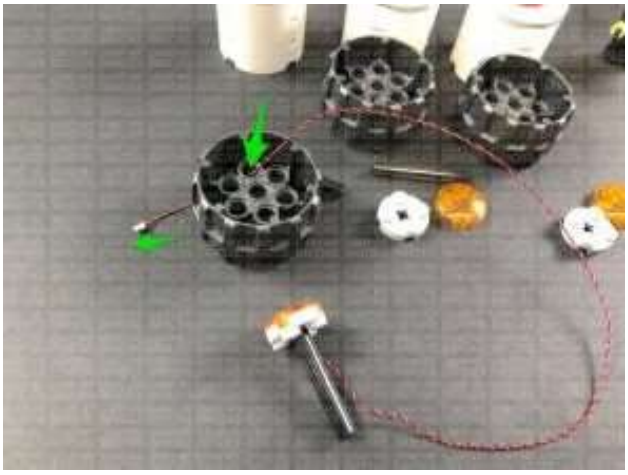


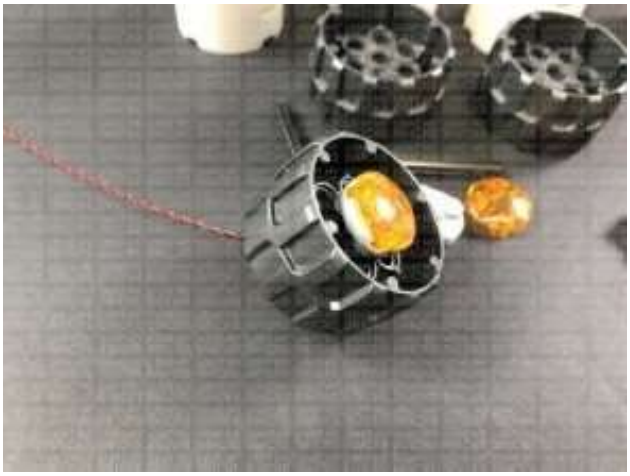
Take a **White 30cm Bit Light** and thread the connector side of the cable through the bottom of the grey round 2×2 plate. Pull the cable all the way out from the other side, then carefully bend the Bit Light on a 90 degree angle so that it sits flat against the edge of the plate. Secure the Bit Light in place by reconnecting the trans orange 2×2 rounded plate.

Reconnect the black technic bar to the other side of the grey round 2×2 plate, then thread the Bit Light cable through one of the holes in the technic barrel. Pull the cable all the way out from the other side, then reconnect the technic bar.

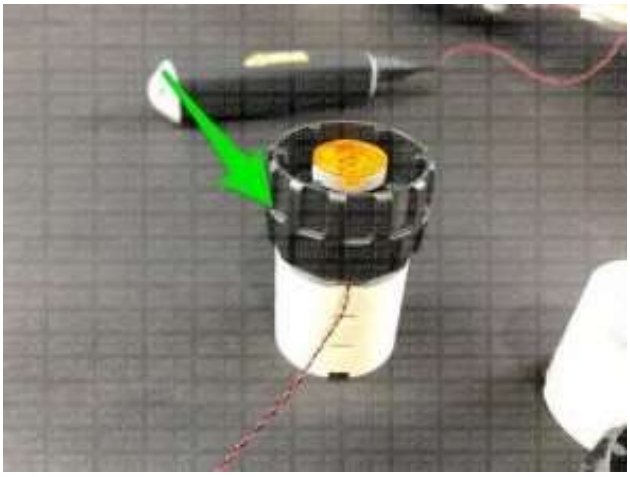


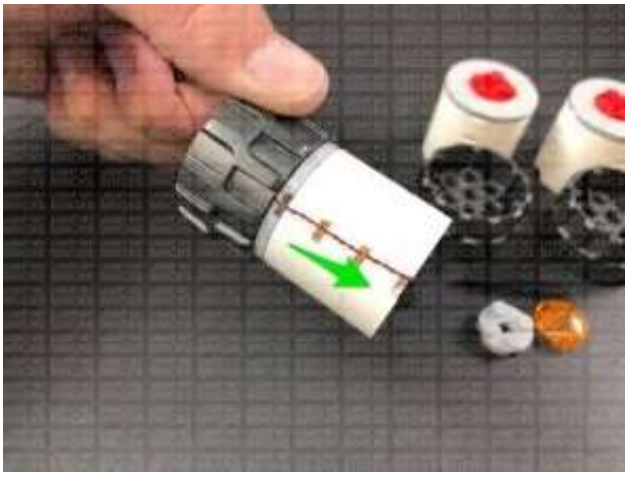


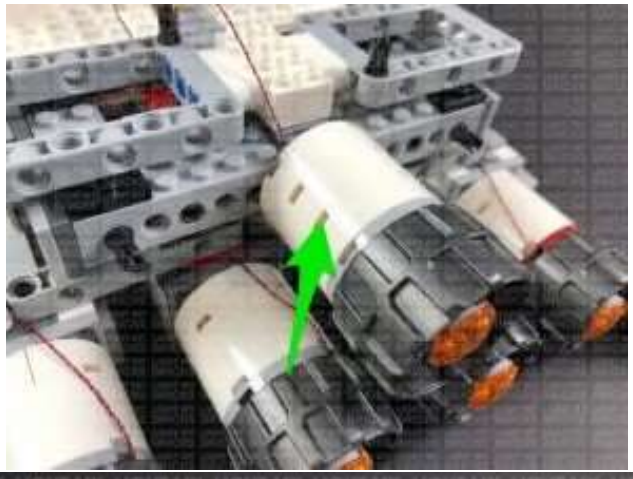


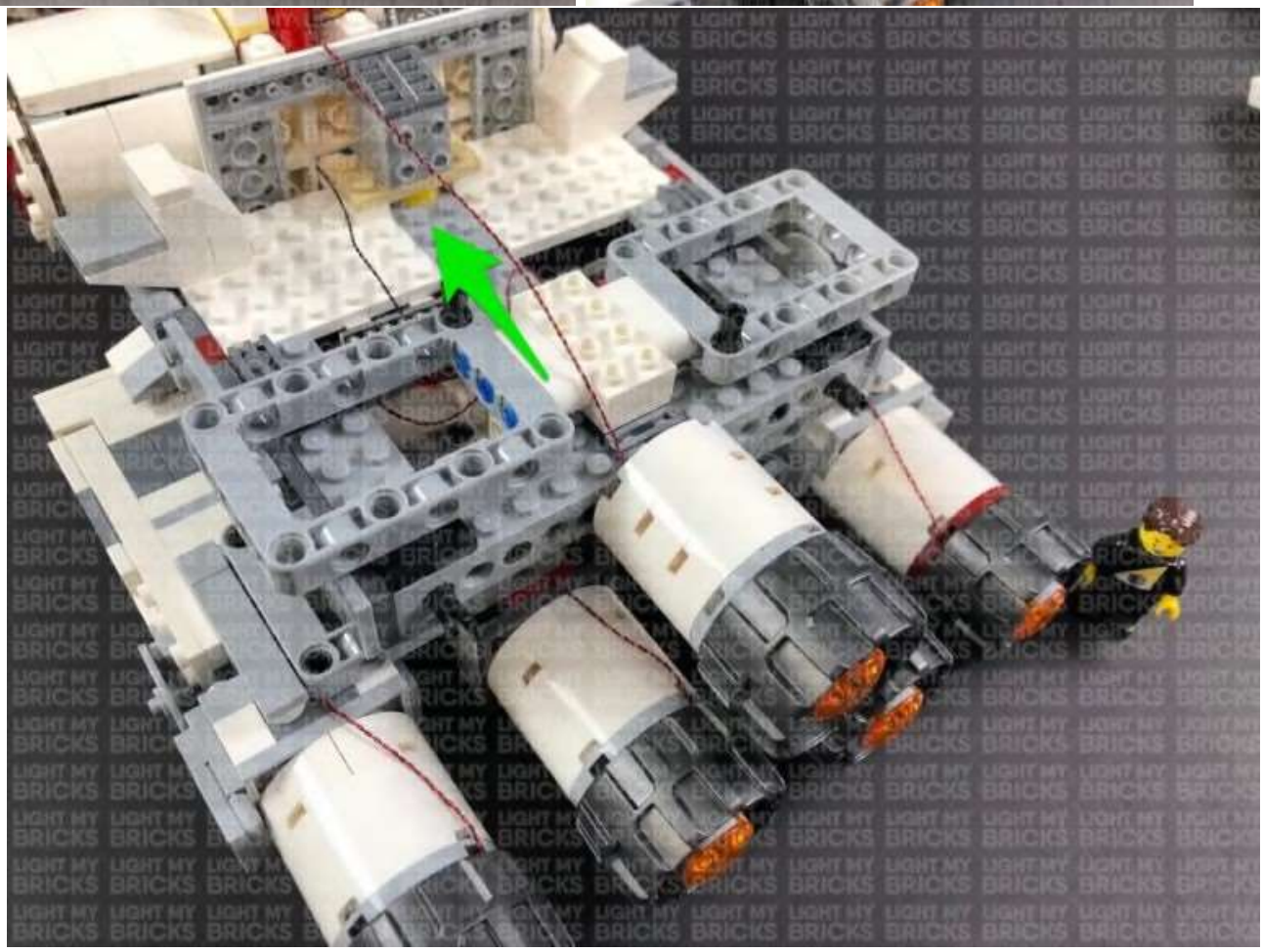
Note – Because the LED is installed, it will prevent you from being able to completely push in the technic bar. Do not forcefully push the technic bar all the way in. Doing so will damage the Bit Light.

38.) Reconnect the barrel to the section behind, then bring the cable down andunderneath the bottom before reconnecting the jet section to the middle row on the back of the Tantive IV. The cable should be pulled out from underneath and toward the front.

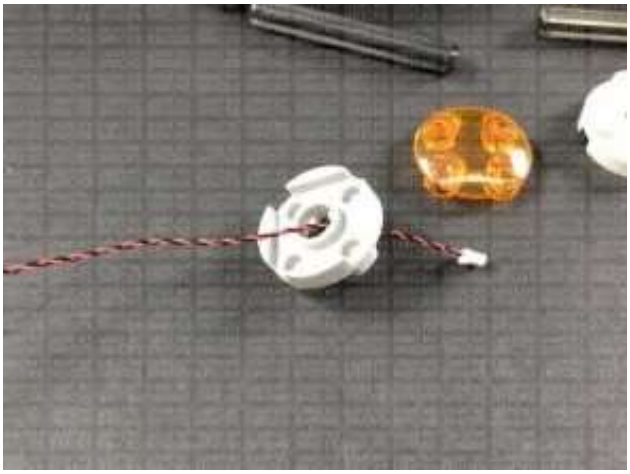
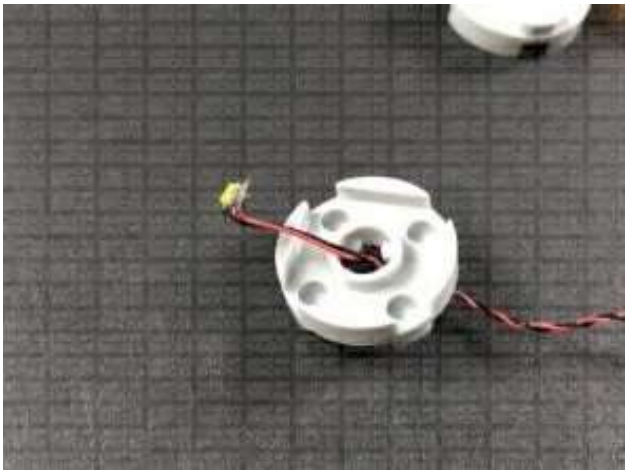
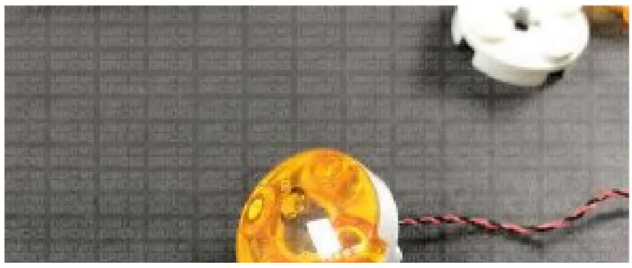


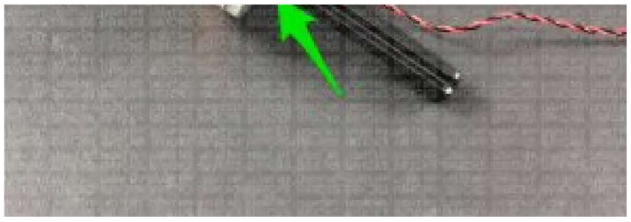
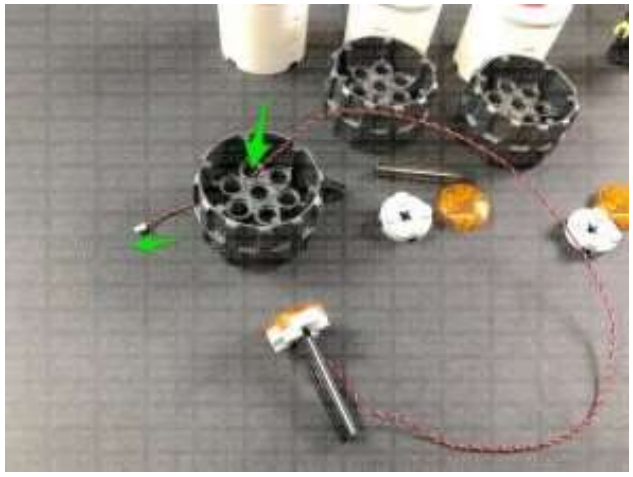
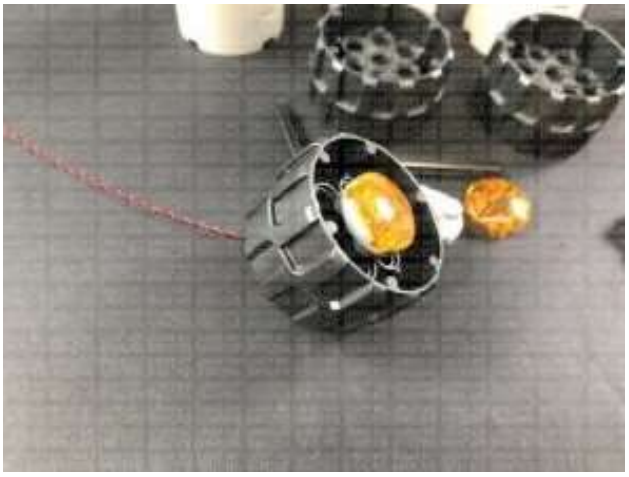
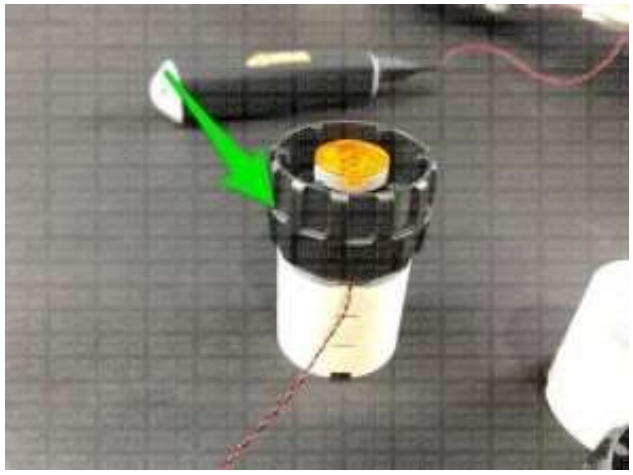
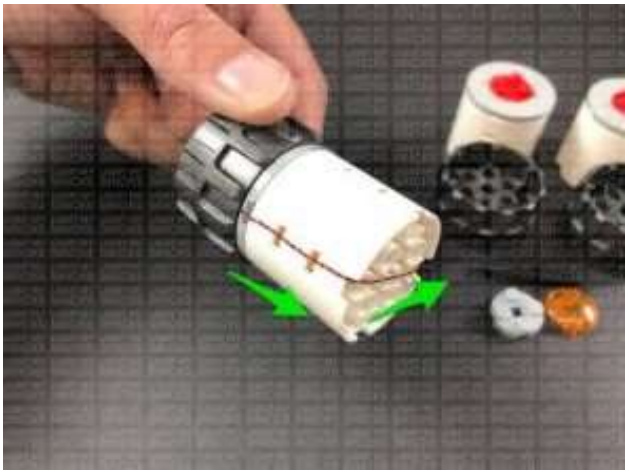
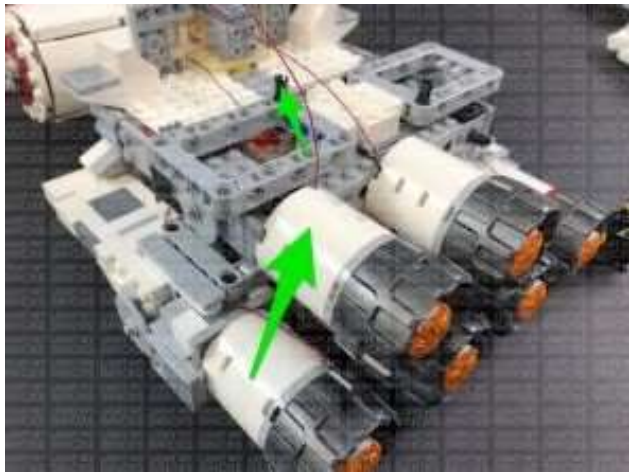
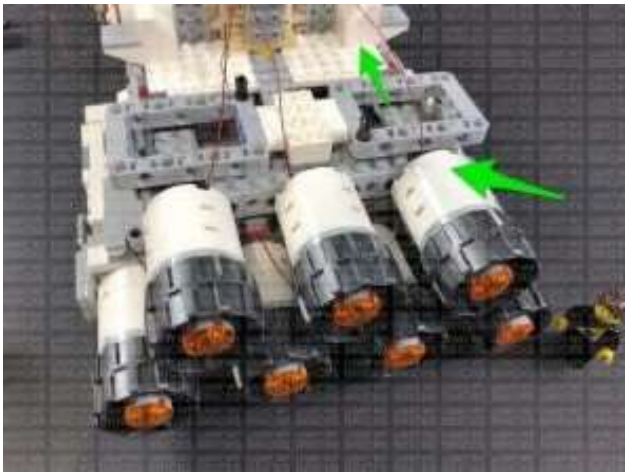




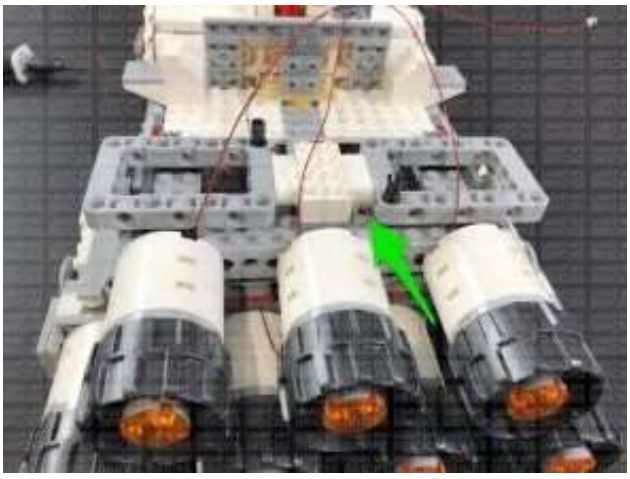


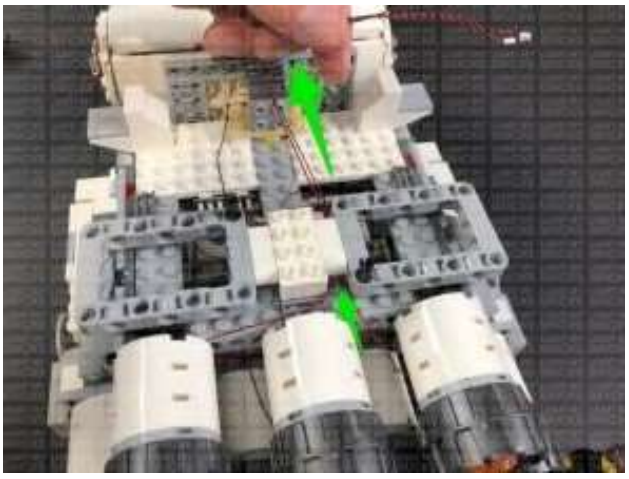
Repeat this step to install **2x White 30cm Bit Lights** to the remaining two middle jet sections, then reconnect each one to the each side of the middle jet.

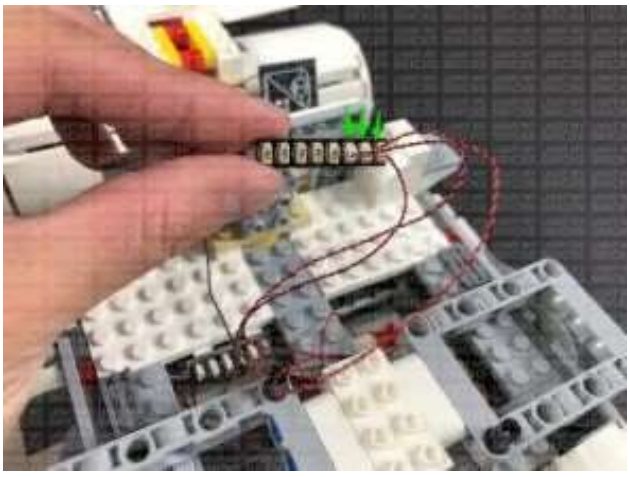




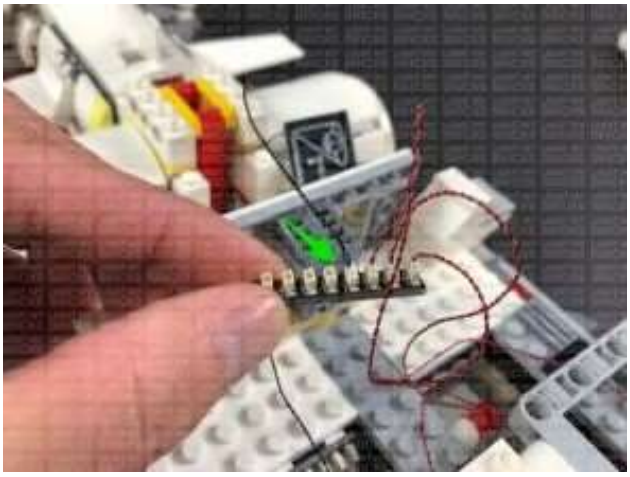
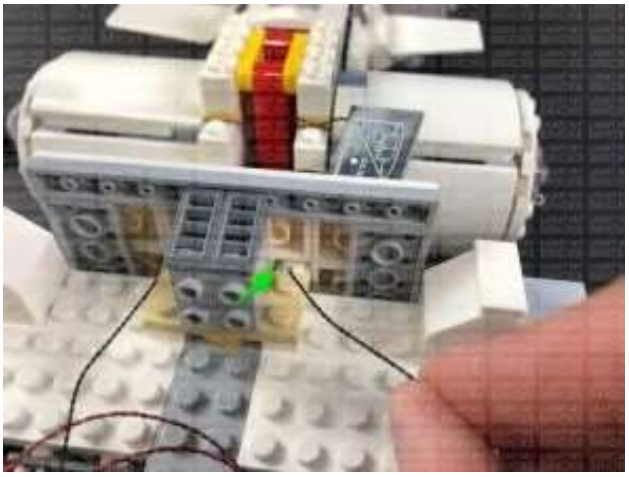
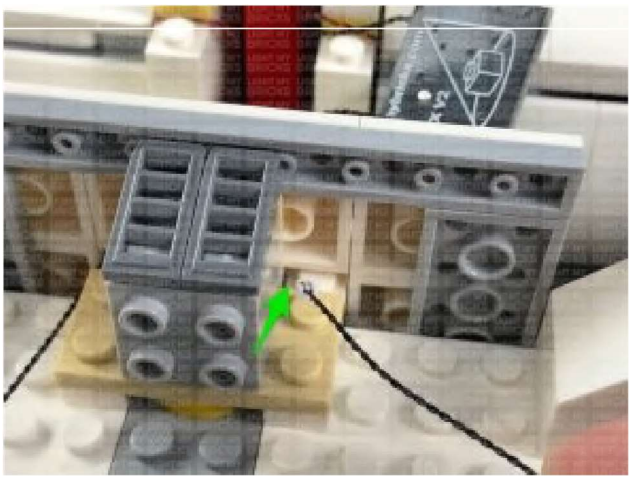
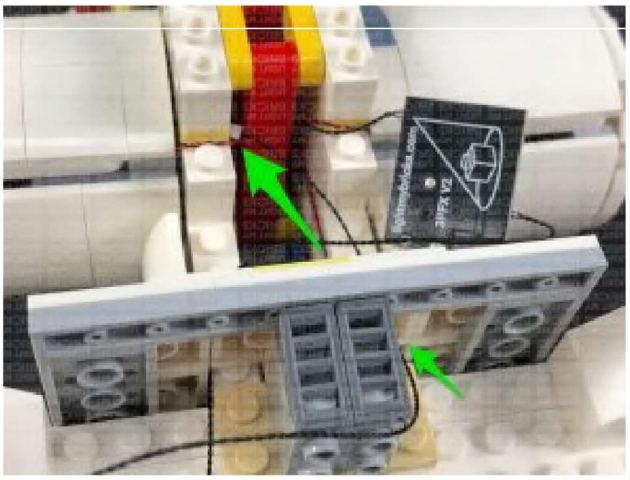
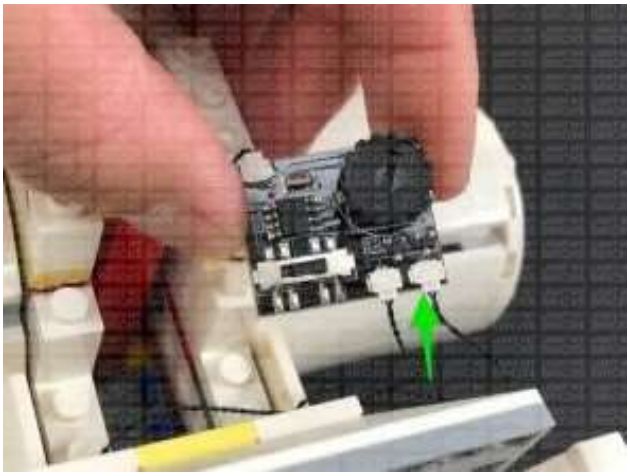
39.) Take the three Bit Light cables from the middle jets and thread themunderneath the following technic pieces, pulling them all the way out from the other side. Connect the three cables to an **8-Port Expansion Board**



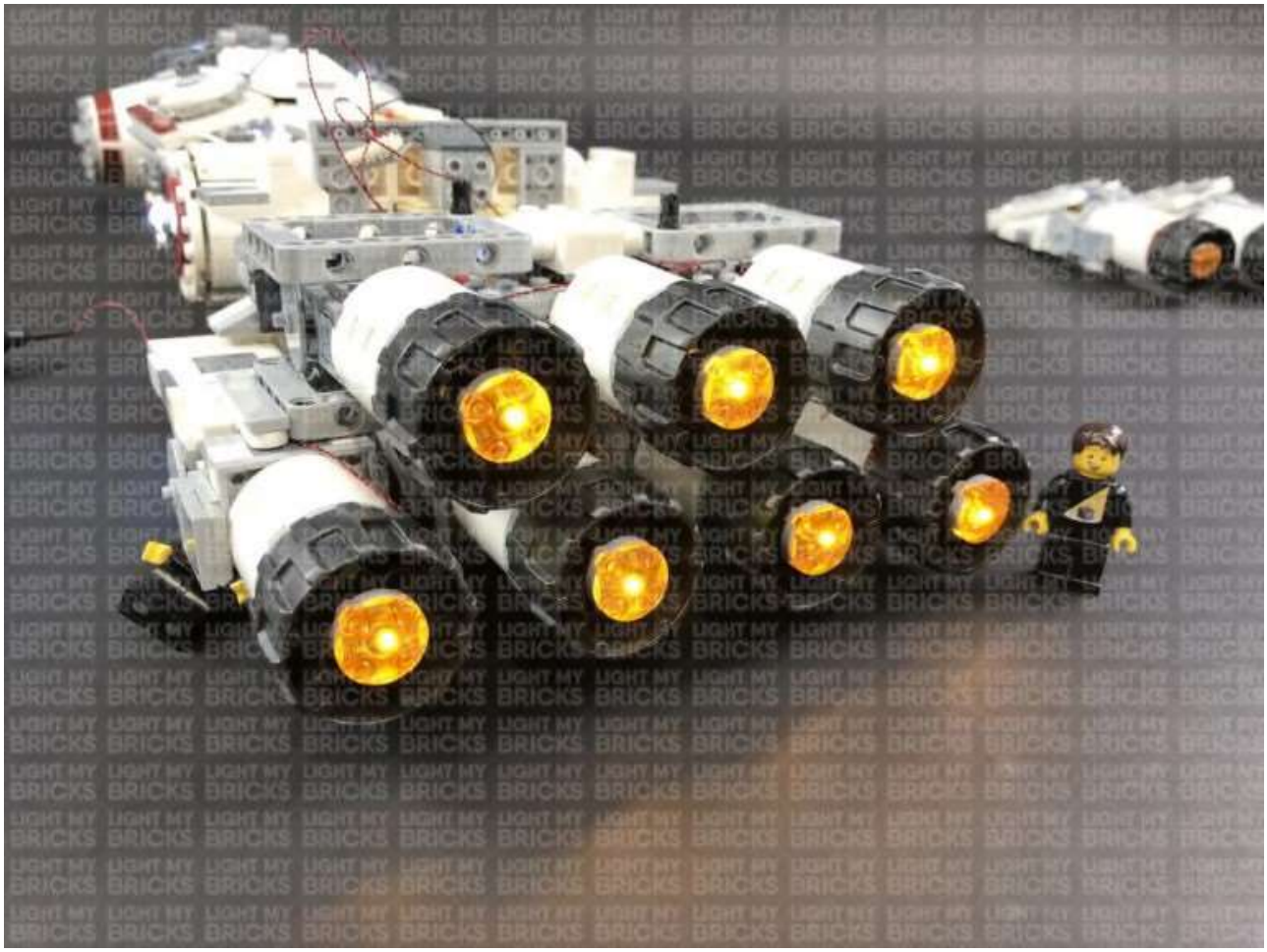




Take the remaining **15cm Connecting Cable** and connect it to the next port on the 8-Port Expansion Board. Thread the other end of the cable through the following space which leads into the area where the Multi Effects Board is. Pull the cable all the way out from the other side and connect it to the remaining OUT port on the Multi Effects Board.

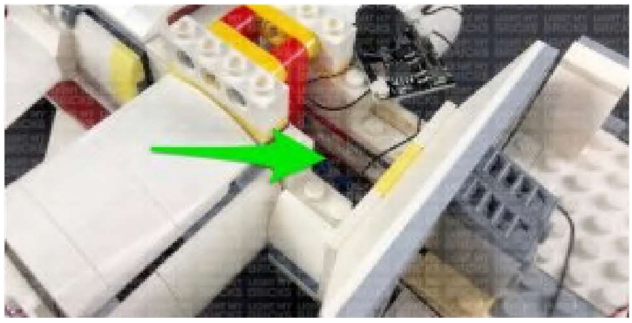
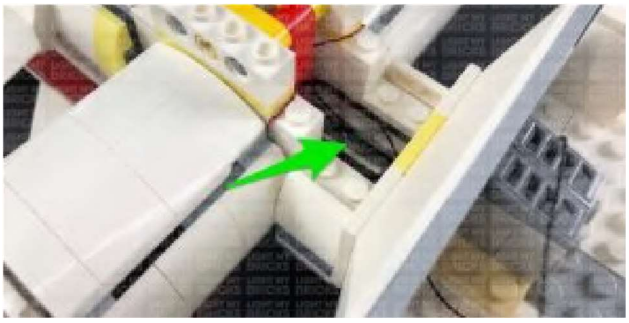
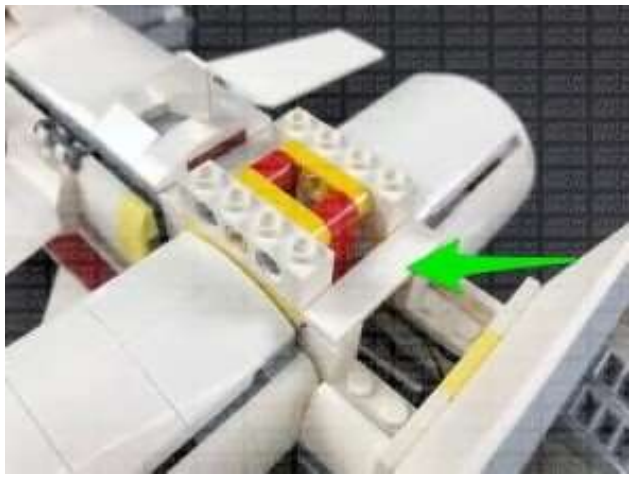
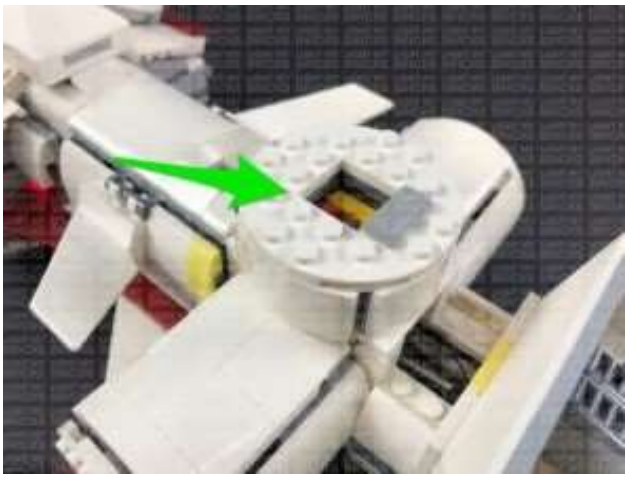
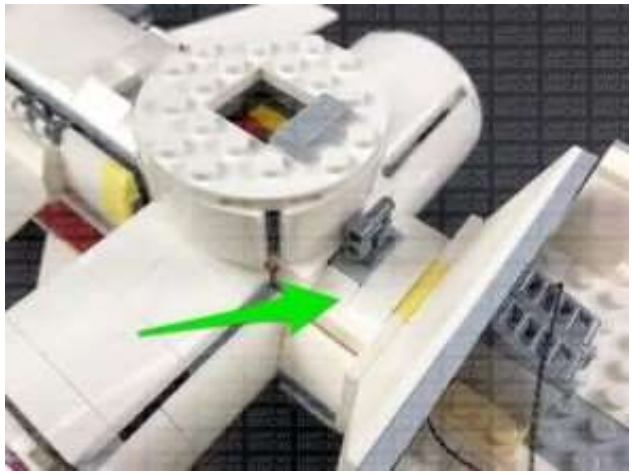






Turn the USB Power Bank ON the test the middle jets are working OK.

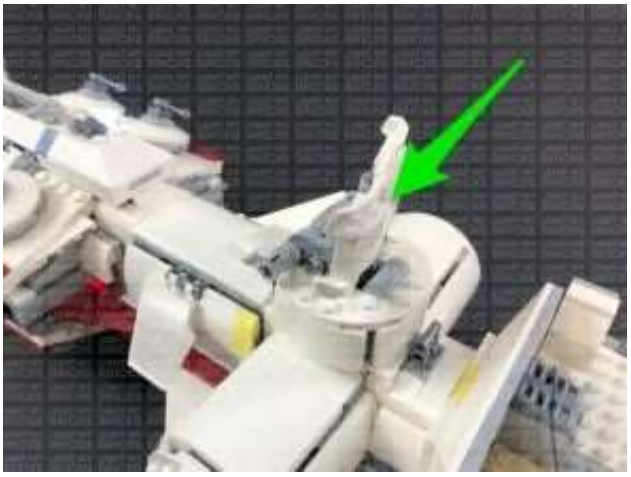


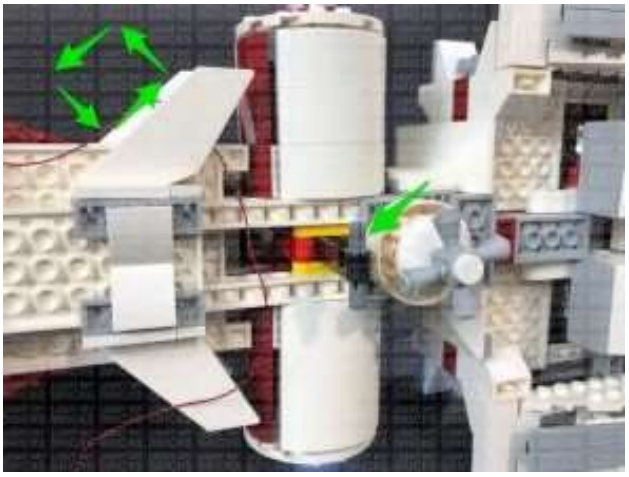
Note: If you experience any issues with the lights not working and suspect an issue with a component, please try a different port on the expansion board to verify where the fault lies (with the light or expansion board). To correct any issues with expansion board ports, please view the section addressing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

40.) Tuck the Multi Effects Board into the middle space, then reconnect thewhite 1×4 tile as well as the remaining sections we disconnected earlier.

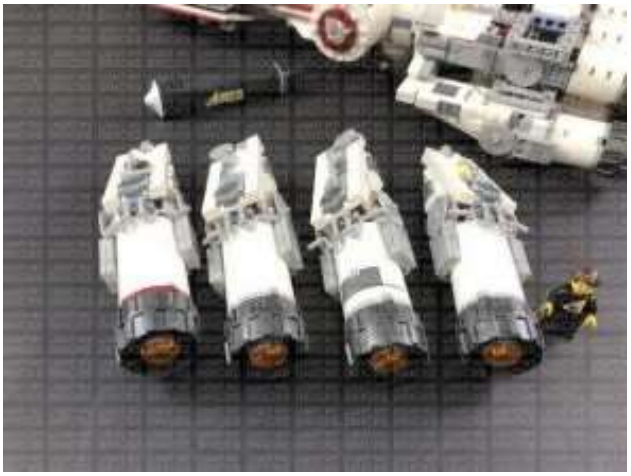






Reconnect the radar section and secure it by reconnecting the technic pin to the bottom of the black technic brick underneath the ship.

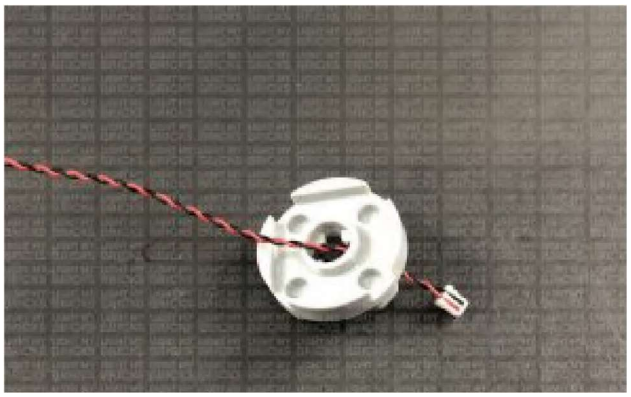


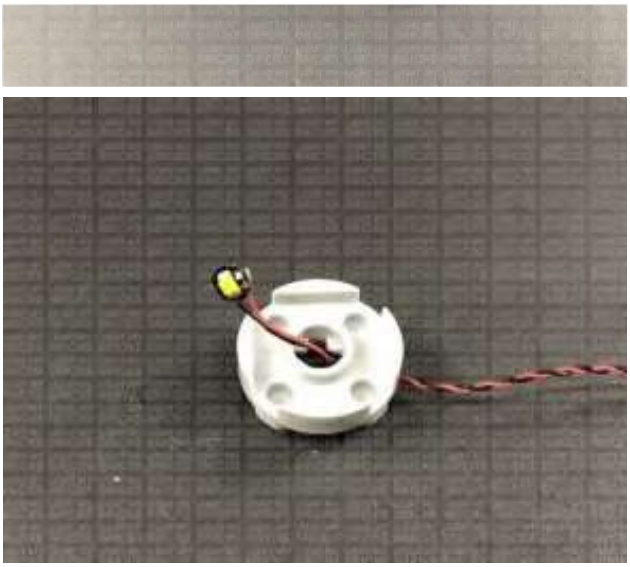
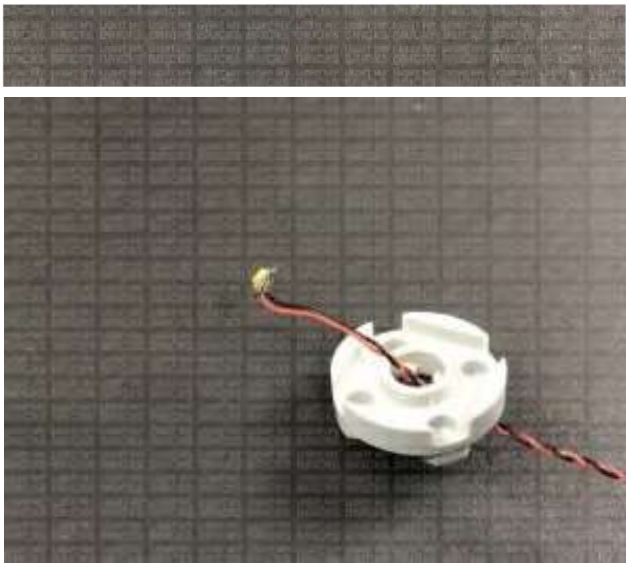
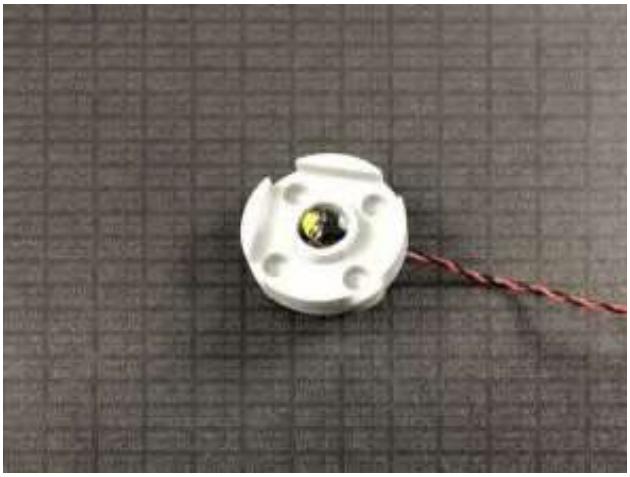


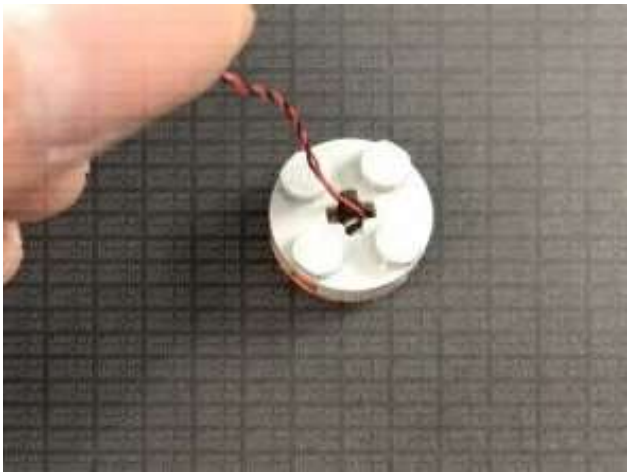
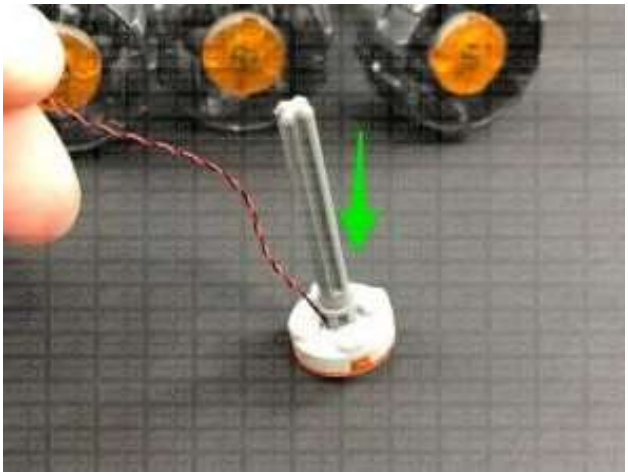
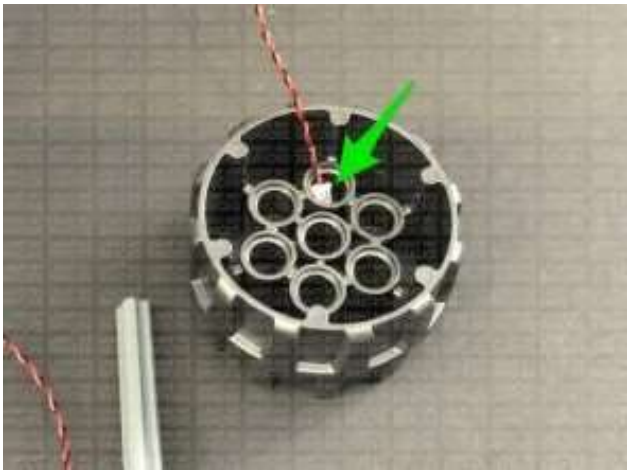
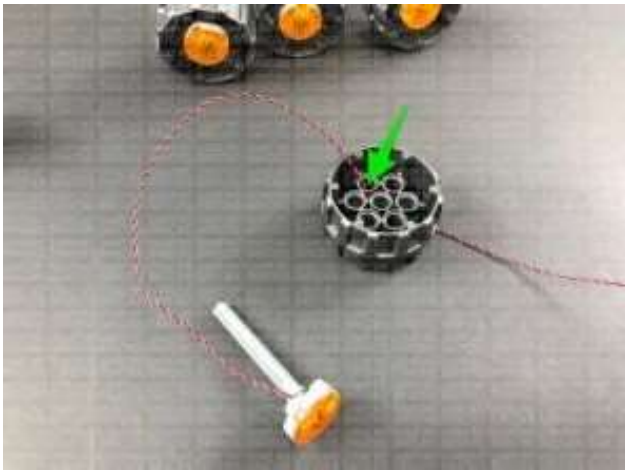
41.) Take the four upper jet sections and flip them over so that the bottom sidesare facing up, then disconnect the barrel sections from each one.

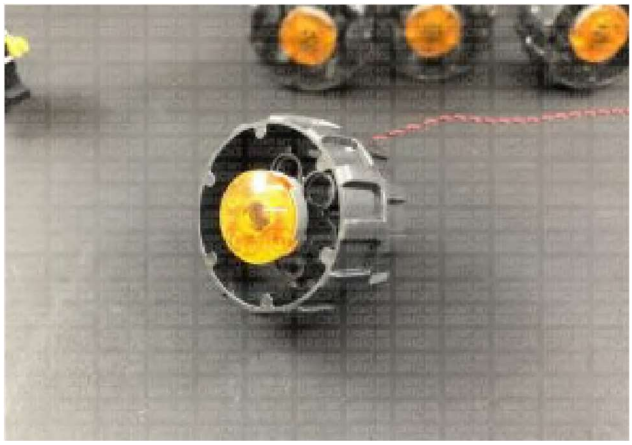
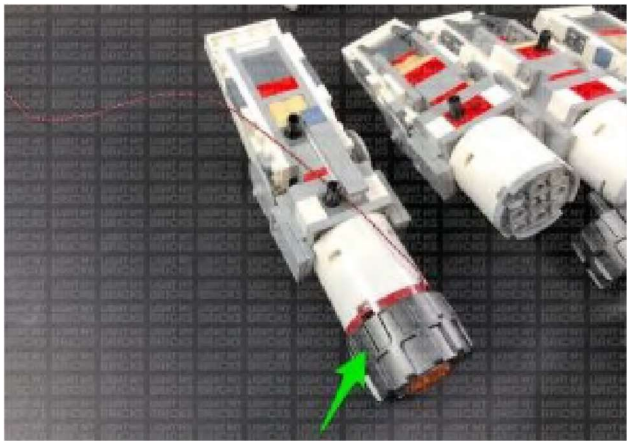
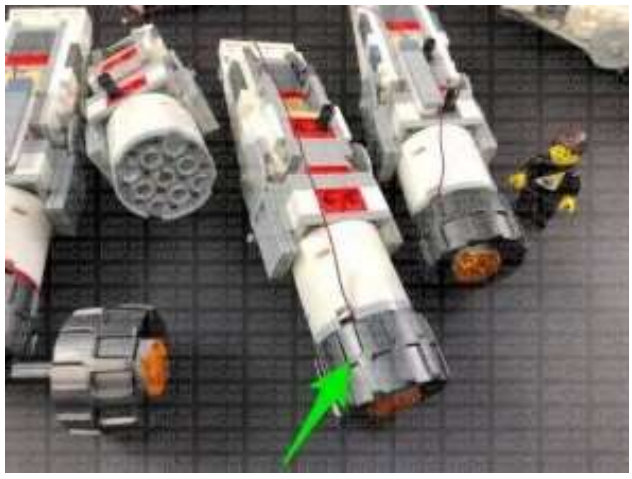


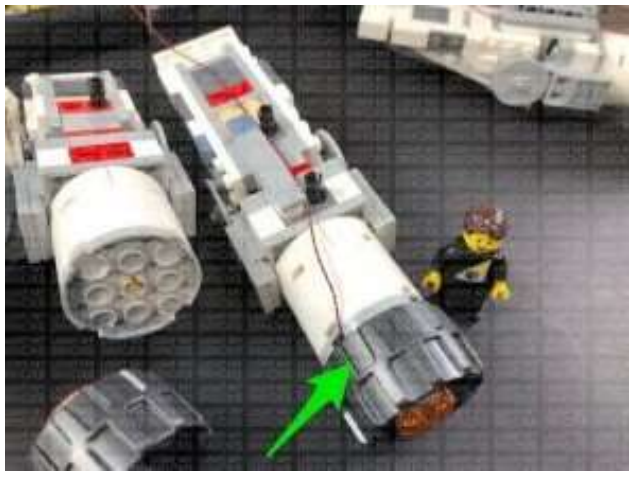
Using the same method used for the four bottom jet sections (step 30), install another **4x White 30cm Bit Lights** to the four upper jets.



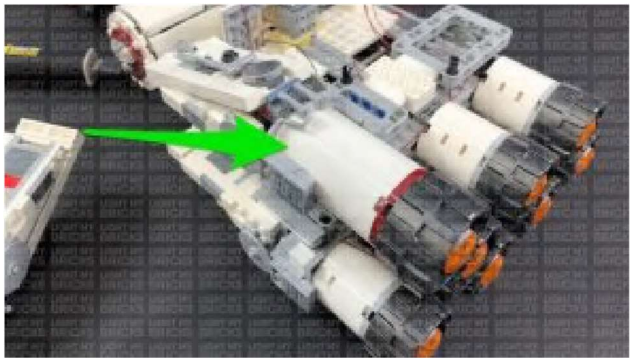
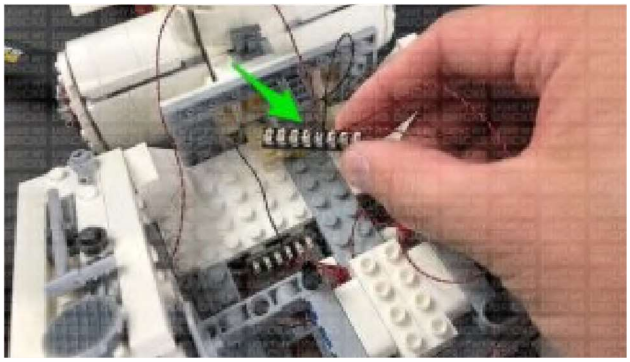




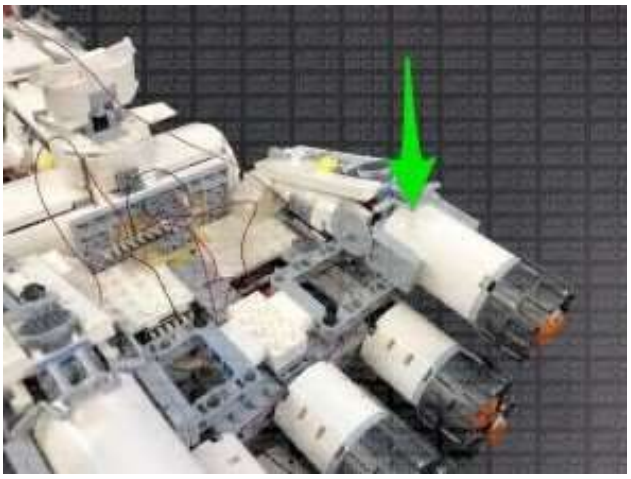
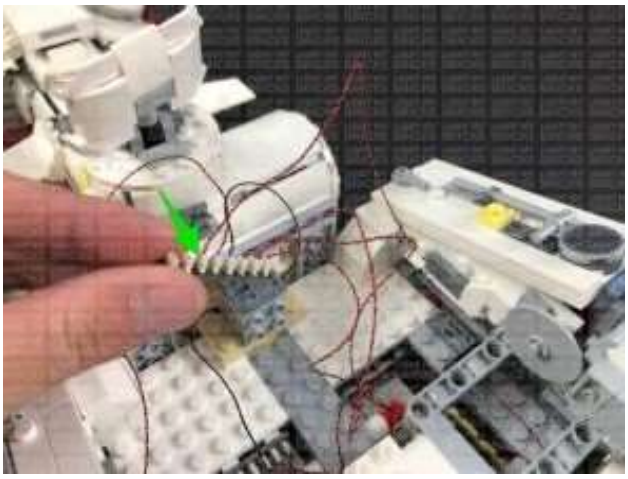






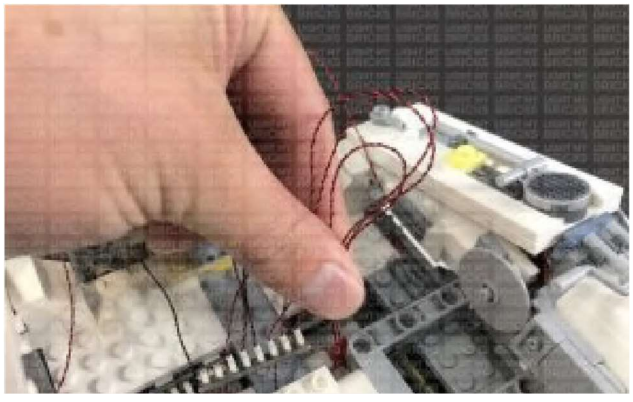
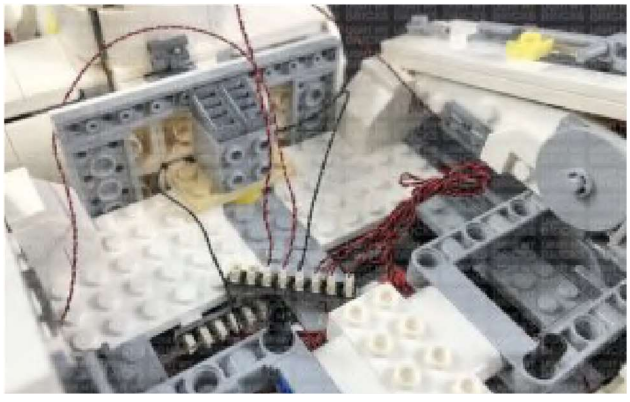
42.) Take the far left upper jet section and reconnect it to the top of the Tantive IV while ensuring the cable is facing the inside (the middle). Connect the Bit Light cable from this jet to the next available port on the 8-Port Expansion Board.

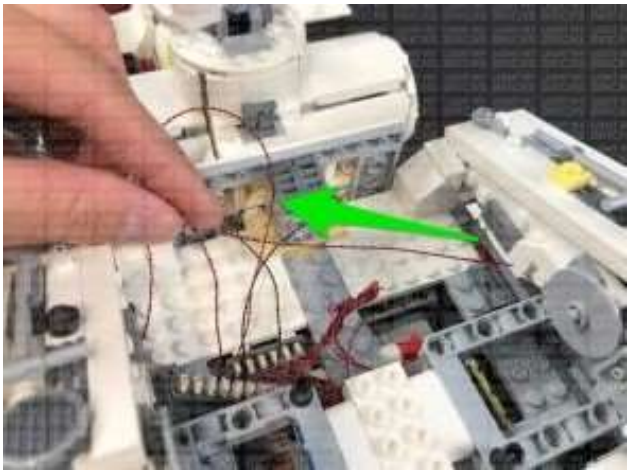
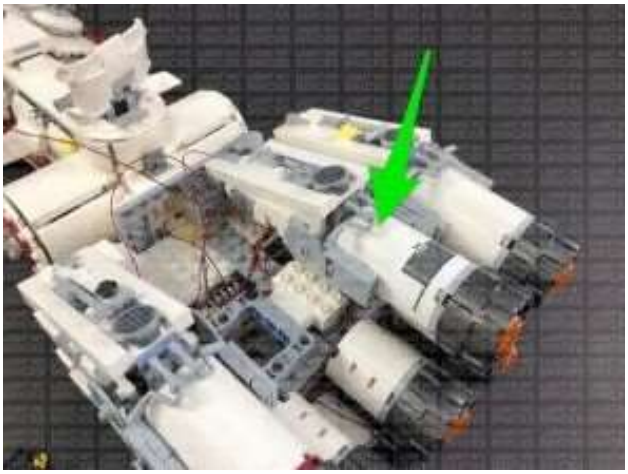
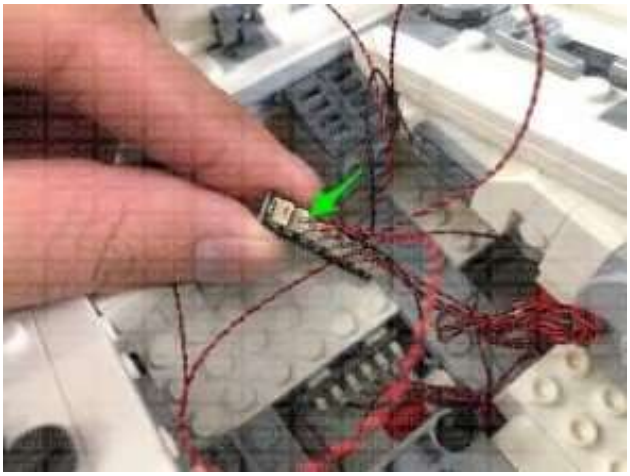
Take the far right upper jet section and reconnect it to the top of the Tantive IV while ensuring the cable is facing the inside (the middle). Connect the Bit Light cable from this jet to the next available port on the 8-Port Expansion Board.

43.) Neaten up cables from the three middle jet sections underneath, bygrouping them together and twisting and folding them around each other into a neat bunch.

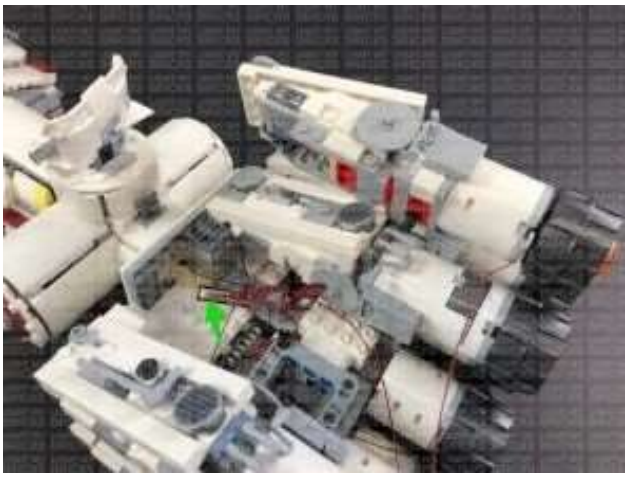



Pull the cable from the far right upper jet over to the left side before reconnecting the next jet section to the left of it. Connect it’s Bit Light Cable to the next port on the 8-Port Expansion Board.

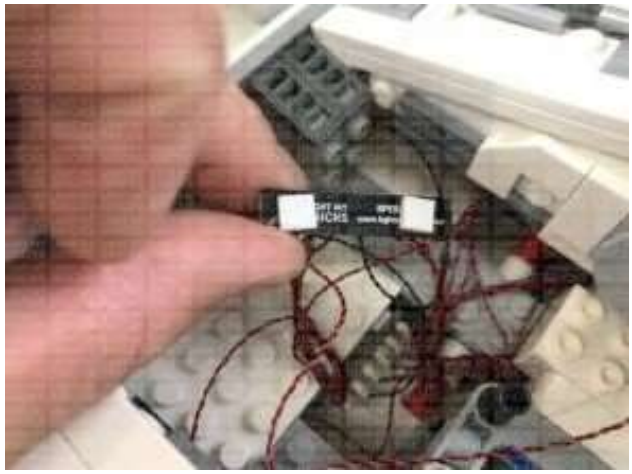
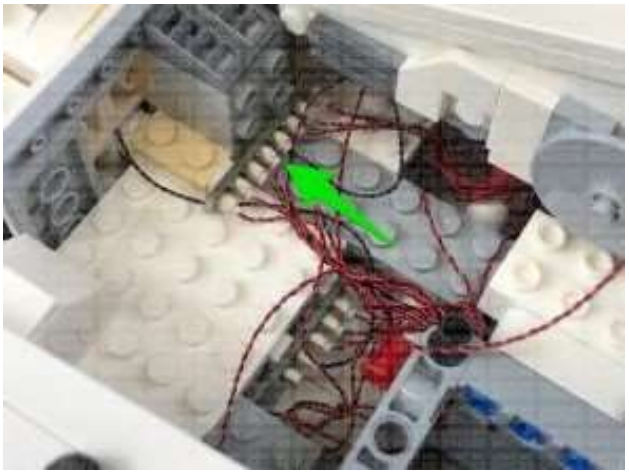




Group the three upper jet bit light cables together and twist/fold them around each other into a neat bunch.

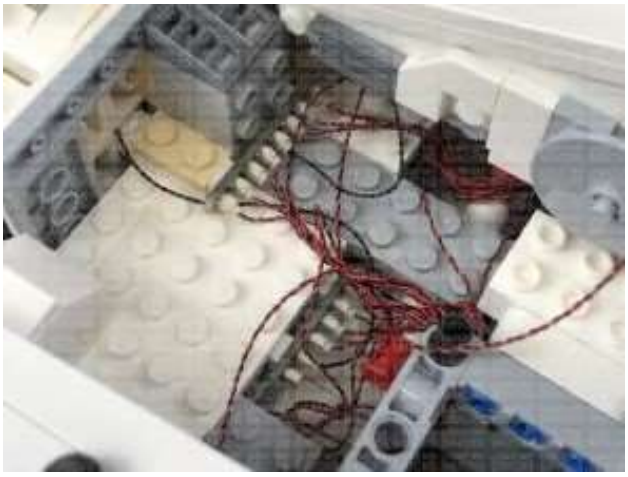
44.) Before you reconnect the remaining upper jet section, connect it's BitLight cable to the remaining port on the 8-Port Expansion Board.

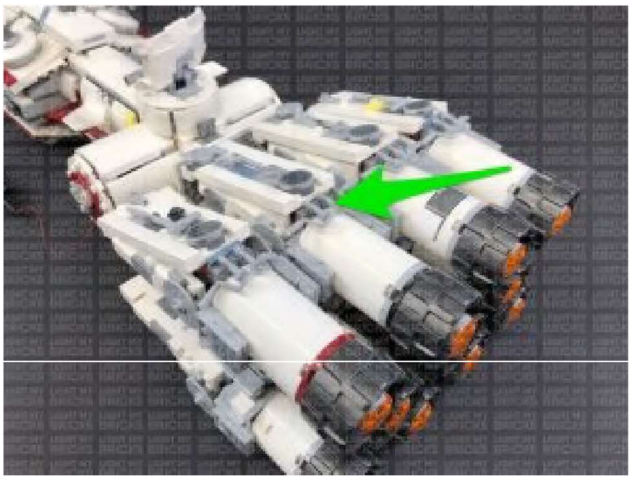


Tuck the bunch of cables from the upper jet lights into the following space, then using the remaining **2x Adhesive Squares**, mount the 8-Port Expansion Board to the back of the ship in the following position.

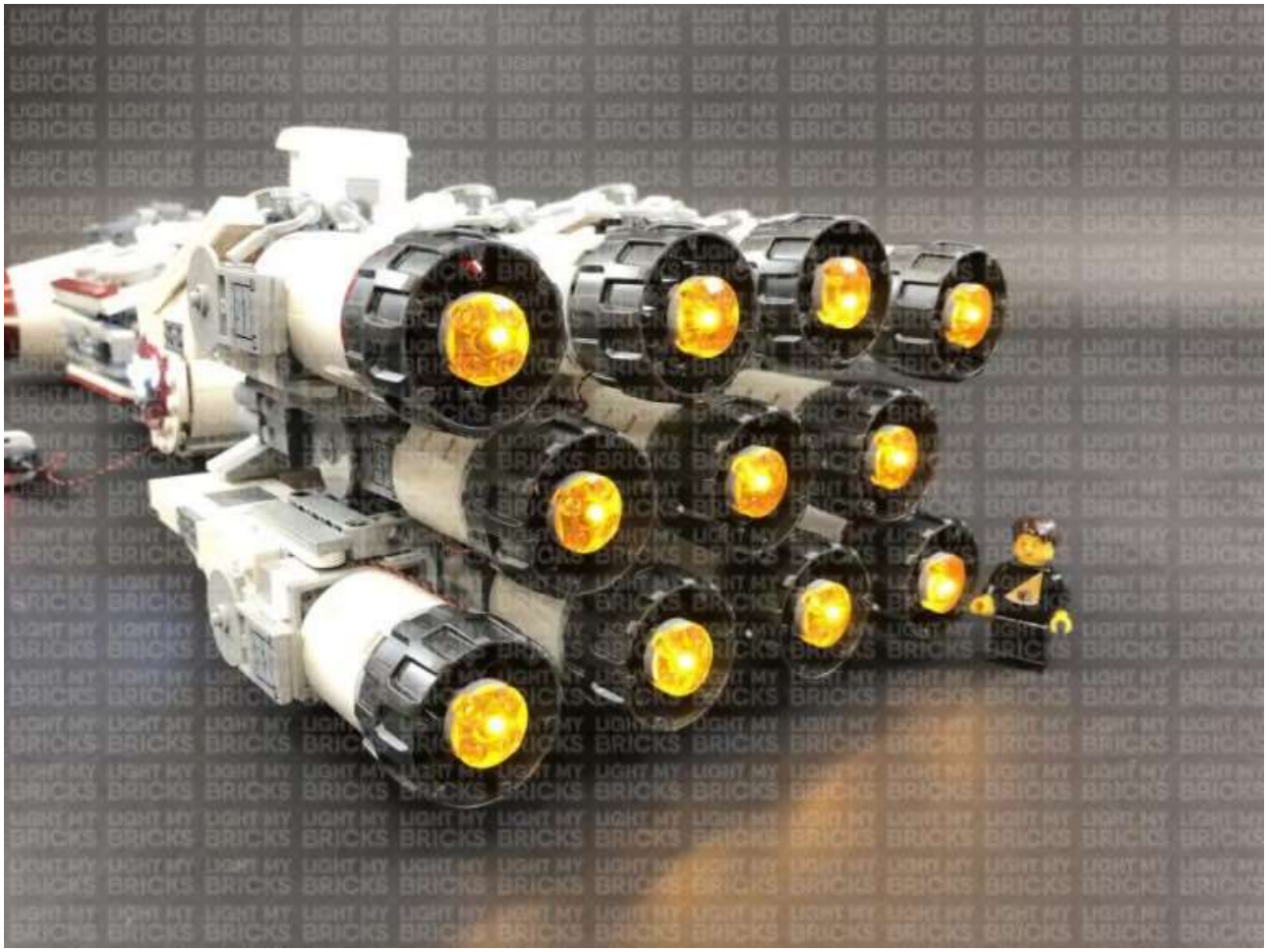



45.) Eliminate some excess cable from the remaining jet section bytwisting/folding the wire around itself into a neat bunch before securely reconnecting the remaining jet section to the top of the ship.





Turn the USB Power Bank ON to test all the rear jet 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.**

This finally completes installation of the Light My Bricks LEGO Star Wars Tantive IV Lighting Kit.

If you experience any issues during this installation, please refer to our online troubleshooting guide

We thank you for purchasing this product and hope you enjoy!

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