



SUPREME X-SERIES FRONT BAR

Ford Next GEN Raptor (2022+)

INSTALLATION MANUAL

SUPREME X-SERIES FRONT BAR - FORD NEXT GEN RAPTOR 2022+

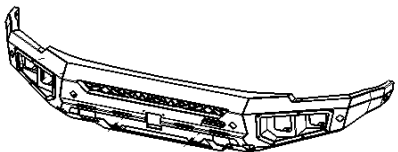
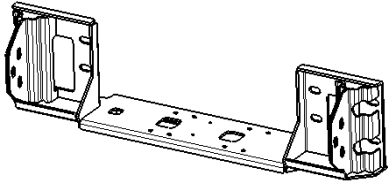
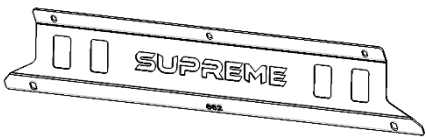
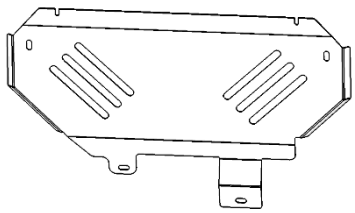
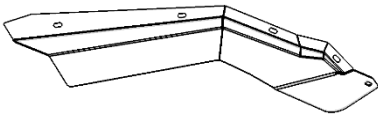
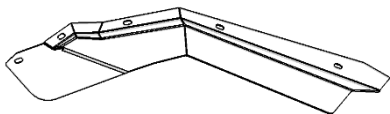
Before Installation

- Please read through the instructions before installation, this will help to avoid problems or potential damage to your vehicle during installation.
- The figures here are for reference and guidance and may differ slightly in appearance or measurements to the actual products you receive.

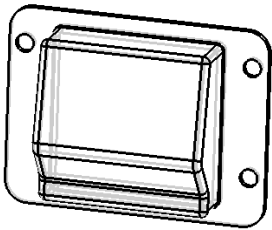
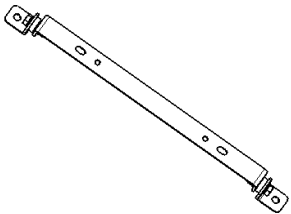
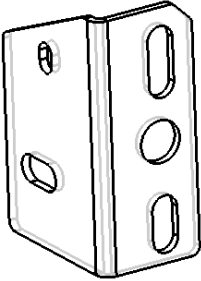
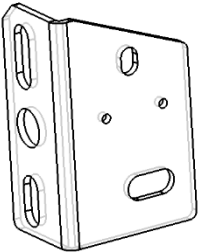
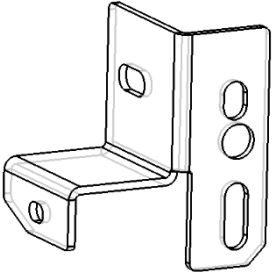
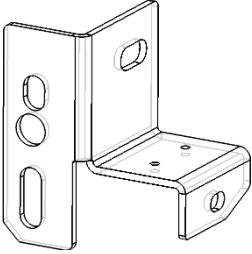
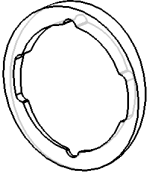
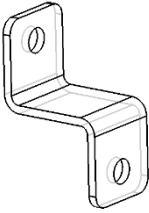
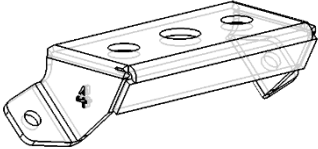

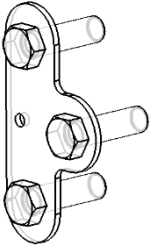
Care and Cleaning

- The Front Bar is car wash friendly and should be washed regularly to maintain a clean appearance.
- Please periodically check and retighten all the hardware for product for maintenance.

Parts list

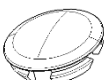
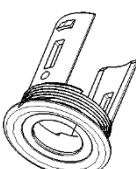

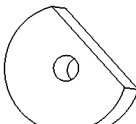
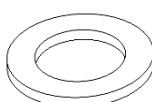
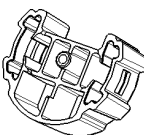
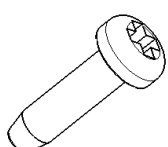
NO.	QTY	NAME	NO.	QTY	NAME
①	1	 Main bull bar assembly	②	1	 Winch frame
③	1	 Front bash plate	④	1	 Main bash plate
⑤	1	 Side Wing (L)	⑥	1	 Side Wing (R)

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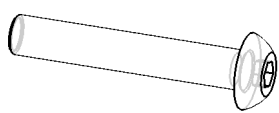
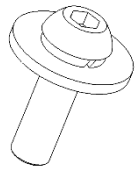






⑦	1		⑧	1	
		ACC cover			Flip number plate bracket
⑨	1		⑩	1	
		Cradle Outer bracket (L)			Cradle Outer bracket (R)
⑪	1		⑫	1	
		Cradle Inner bracket (L)			Cradle Inner bracket (R)
⑬	2		⑭	2	
		Sensor Spacer			LED light bar bracket
⑮	2		⑯	2	
		Antenna bracket			Bushing
⑰	2				
		Bolt-plate			

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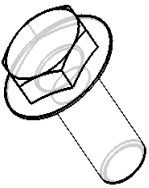
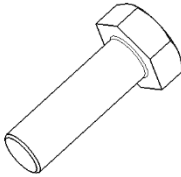
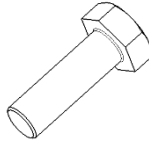
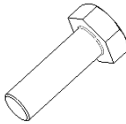


Sensor relocation kits

⑱	6	 Lid	⑲	6	 Holder
⑳	6	 Lock ring	㉑	6	 Foam packer
㉒	6	 Foam ring	㉓	6	 Base
㉔	12	 Tapping screw ST4_15			




Hardware List

㉕	3	 Hexagon socket flat round head screw M6_30	㉖	19	 Hexagon socket flat head screw and washer assembly M6_20
㉗	4	 Hex nut with flange M6	㉘	4	 Hex nut with flange M8
㉙	2	 Hex nut with flange M10	㉚	10	 Hex nut M12
㉛	3	 Large washer D6(5x15x1.2mm)	㉜	6	 Large washer D12(12x37x3mm)

Supreme X-Series Front Bar – Next GEN Raptor 2022+

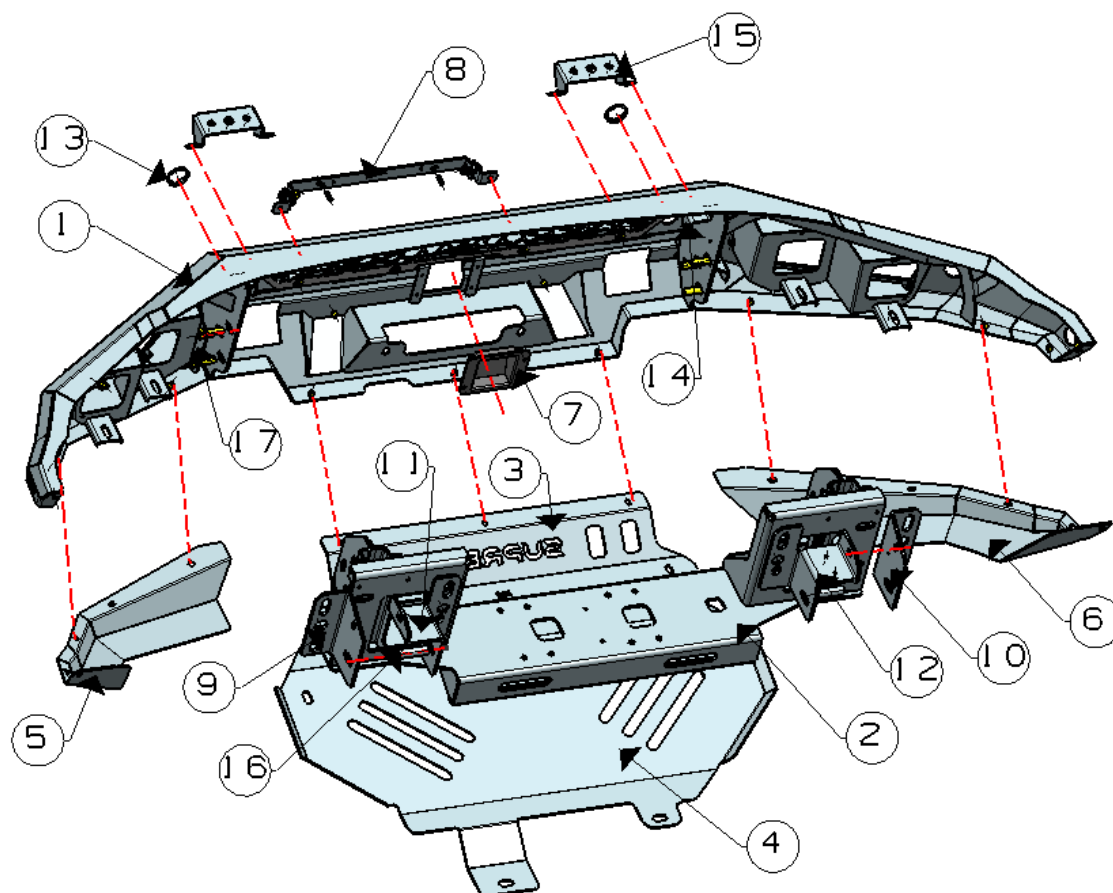
③③	6	 Flat washer D12(12x24x2.5mm)	③④	8	 Spring washer D12_32_3
③⑤	16	 Spring washer D12	③⑥	4	 Hex nut and washer assembly M8_25
③⑦	2	 Hexagon flange bolt M10_25	③⑧	2	 Hex bolt(full thread) M12_35
③⑨	2	 Hex bolt(full thread) M12_120	④⑩	6	 Hex bolt(full thread) M12x1.25_40
④①	1	 Wrench S=3	④②	1	 Wrench S=4

Hardware list of foldable license bracket

④③	8	 Flat washer D4(4x8.65x0.8mm)	④④	4	 Hex nut M4
④⑤	4	 Pan head bolt M4_16			

Installation Steps

Installation Fig.



Supreme X-Series Front Bar – Next GEN Raptor 2022+

FIRSTLY: Verify that all parts are present.

NOTE: Any factory clips, screws or bolts you remove need to be kept as it may be used in later steps.

REMOVING THE FRONT FACTORY BUMPER

1. Remove the negative battery terminal on the vehicle's battery. This is a **MUST-do** step to prevent error codes and miscalibration of the vehicle's tech pack/sensors and camera.



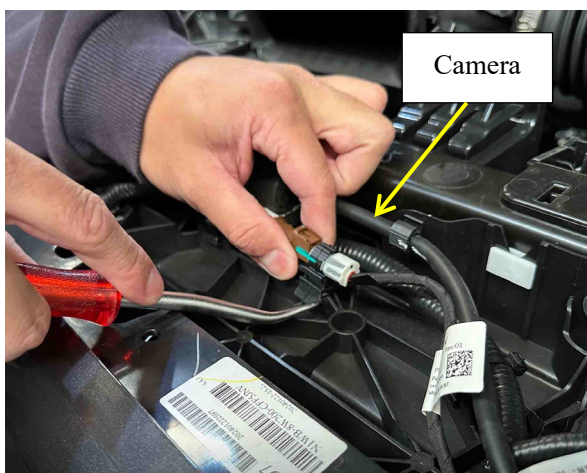
2. Remove the front plastic engine cover.



3. Remove the number plate holder.



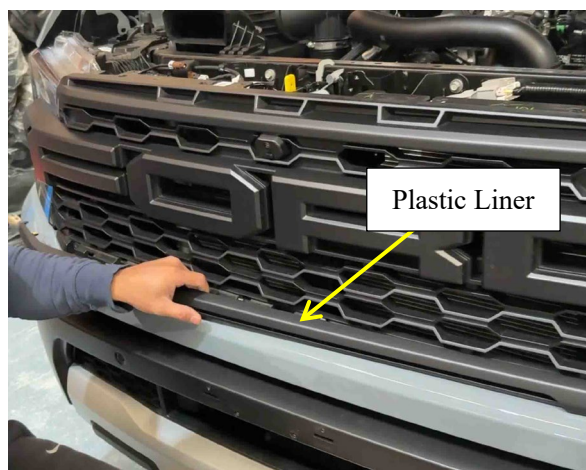
4. If there is a camera and headlight washer, pry out and disconnect camera and headlight washer.



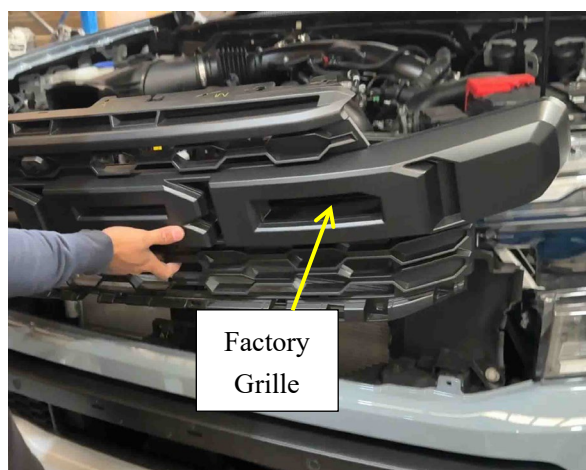
5. Disconnect the Factory Sensor/Fog Light Harness as shown.



6. Remove the plastic liner that runs below the grille by prying it off carefully.

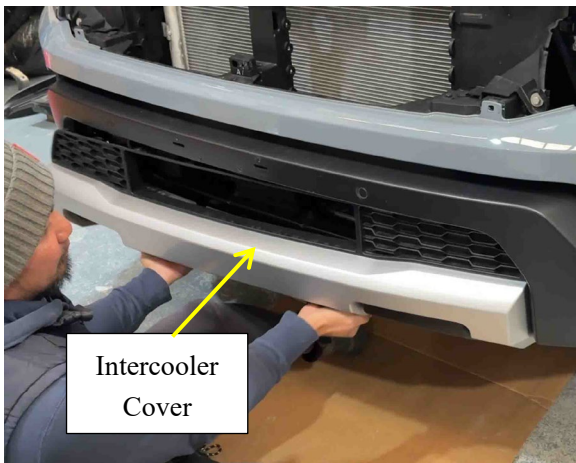


7. Remove the factory grille by removing any bolts or screws holding it in.



Supreme X-Series Front Bar – Next GEN Raptor 2022+

8. Next step is to remove the Lower Intercooler Cover that is on the Front Bumper by unclipping it carefully.



9. Remove the 6 bolts that hold the Factory Front Bumper in place (Keep these bolts for later). Then remove the Front Bumper with the Harness attached to it.

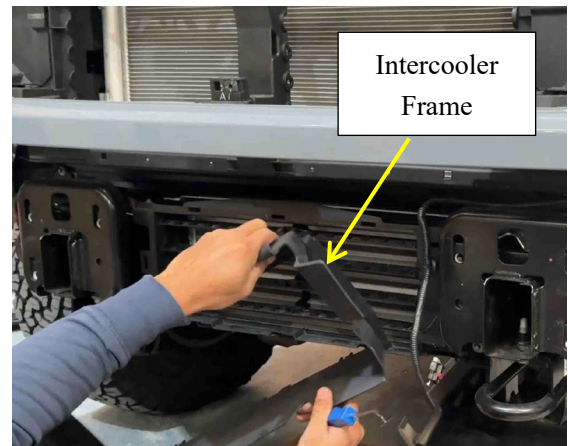
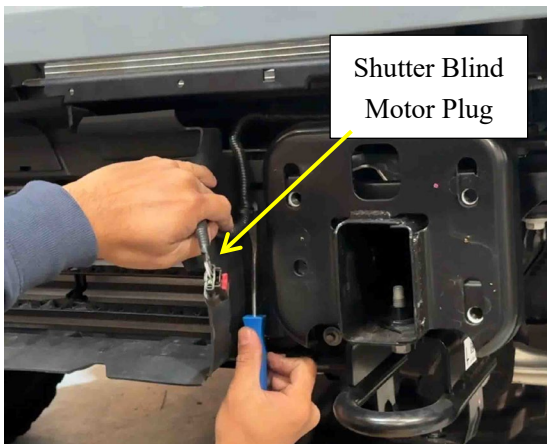


10. Remove the Factory Bash Plate and make sure to keep the bolts.

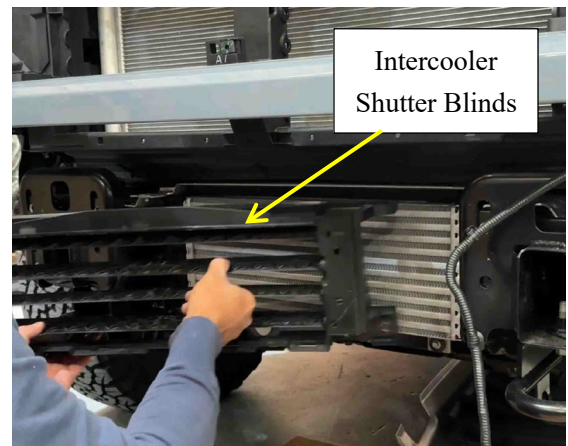


Supreme X-Series Front Bar – Next GEN Raptor 2022+

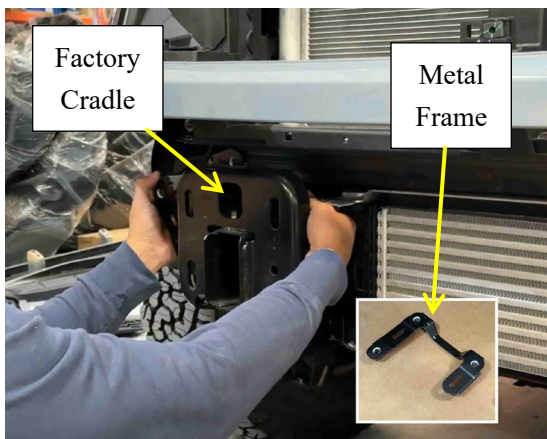
11. Unplug and unclip the Shutter Blind Motor Plug then detach the Intercooler Frame.



12. Remove the 4 bolts that hold the Intercooler Shutter Blind in place, then detach the Intercooler Shutter Blind and KEEP this aside for modifying later.

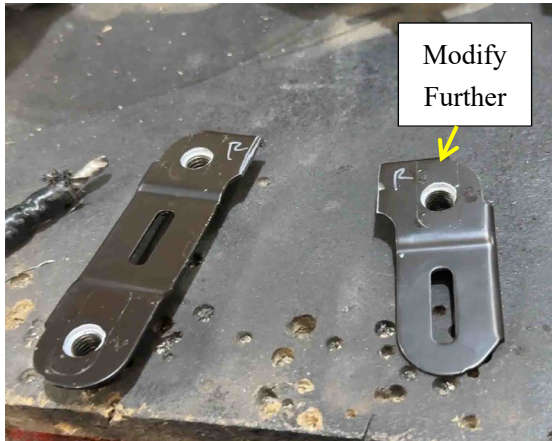


13. Remove the Metal Frames from behind each side of the Factory Cradle. Remember their orientation and position as they will go back into those positions after modifying. Label them Left and Right so you don't mix them up, they will need to be modified and refitted to the Factory Cradle.

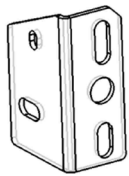


Supreme X-Series Front Bar – Next GEN Raptor 2022+

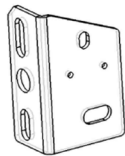
14. Modify the Metal Frame by cutting it and keeping only the Nutsert parts like shown. Make sure to apply an Anti-rust spray solution to where the cuts are made preferably a black coloured spray.



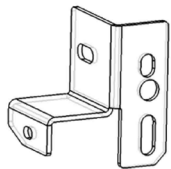
15. Place the Inner and Outer Cradle Brackets behind the Factory Cradle (back in step 13 where we removed the Metal Frames) with the holes aligned. Then place the modified Metal Frame Inserts from the previous step behind the Inner and Outer Cradle Brackets in the same position that they were removed from.



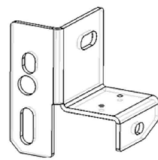
Cradle Outer bracket (L)



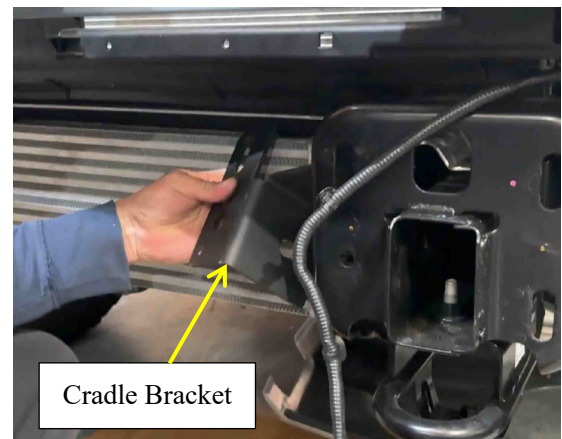
Cradle Outer bracket (R)



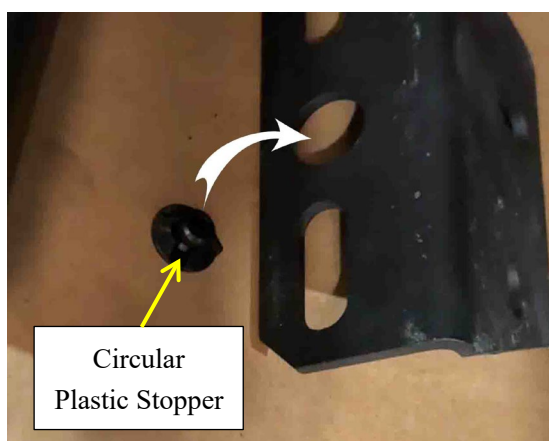
Cradle Inner bracket (L)



Cradle Inner bracket (R)

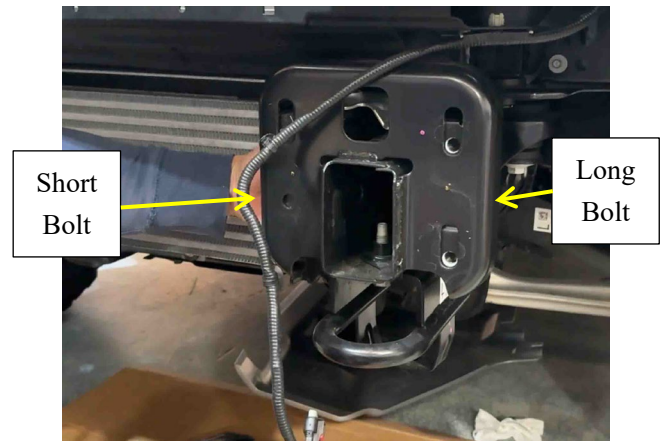
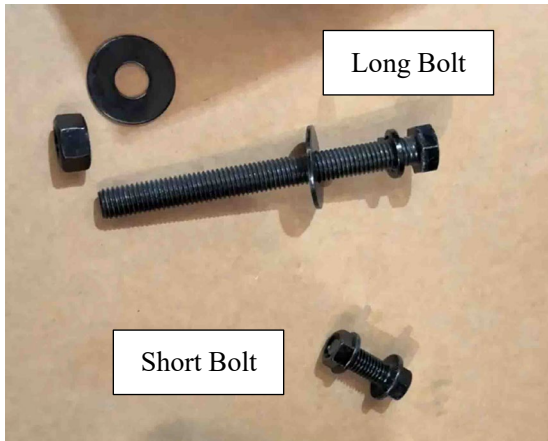


16. Put the Circular Plastic Stopper behind the Outer Cradle Bracket middle hole.

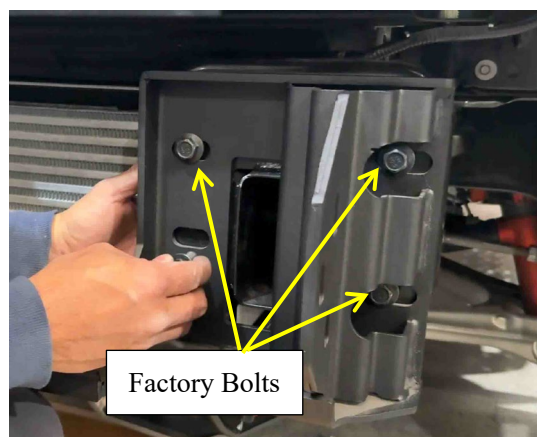
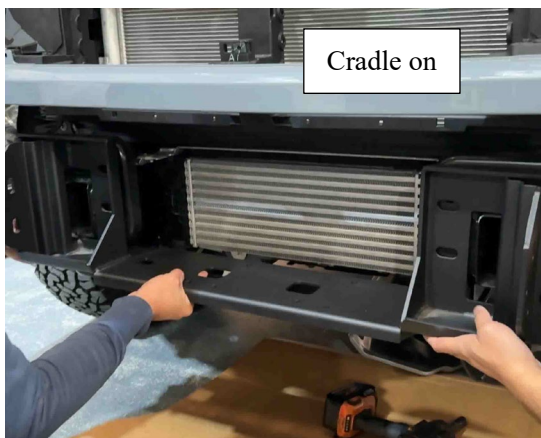


Supreme X-Series Front Bar – Next GEN Raptor 2022+

17. Then setup the Long Bolt and Short Bolt setup as shown. Then these bolts go horizontally through the Outer and Inner Cradle Brackets to secure onto the Factory Cradle. The Long Bolt is on the outside while the Short Bolt is on the inside.

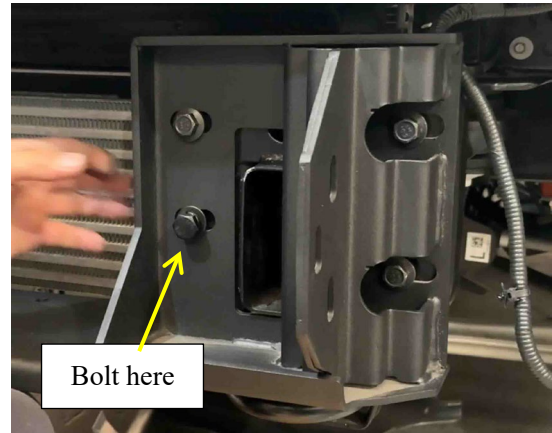


18. Fit the Winch Cradle onto the vehicle by reusing the 6 Factory Bolts to loosely secure it on. The positions of these Bolts are shown below, 2 at the top and 1 at the outer lower position, do this for both sides of the cradle.

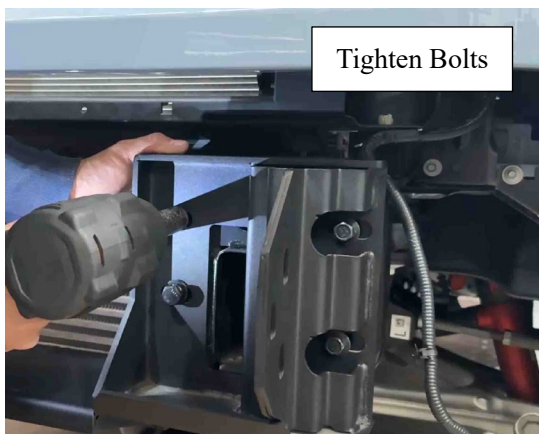


Supreme X-Series Front Bar – Next GEN Raptor 2022+

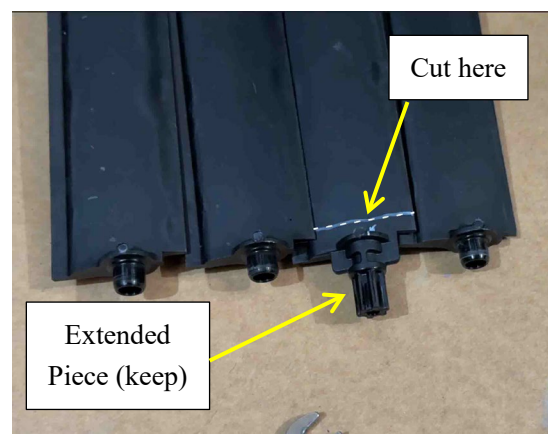
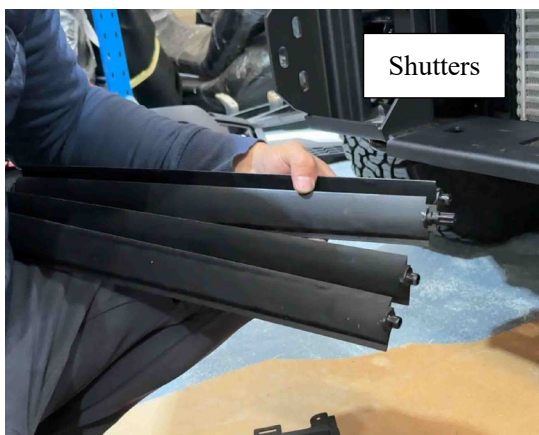
19. Setup 2 more bolts as shown, these will go in the remaining holes which are the inner lower ones on each side of the Winch Cradle, secure it loosely.



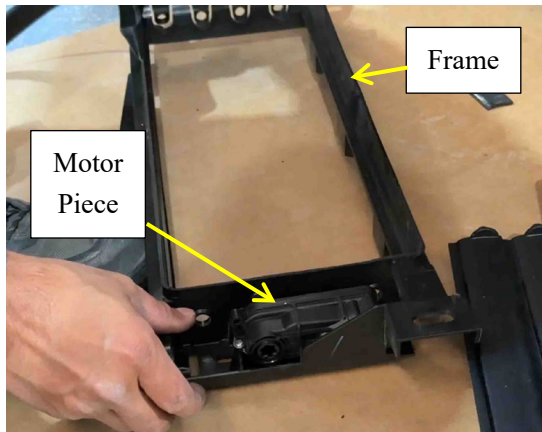
20. Once the Winch Cradle is loosely secured to the vehicle, adjust so that it is as centered as possible then tighten all the bolts.



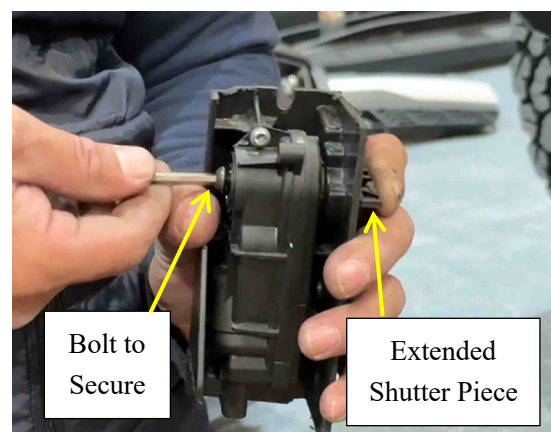
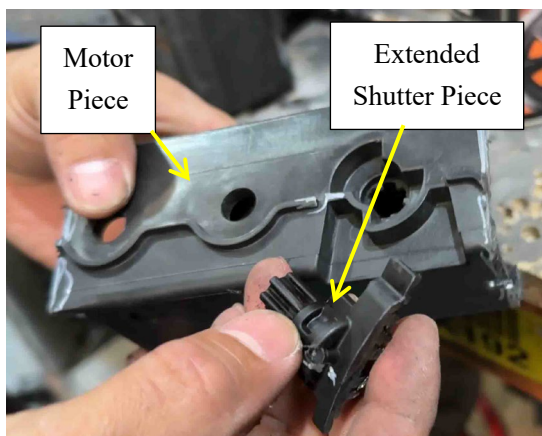
21. Take the Intercooler Shutter Blind from Step (12) and remove the Shutters, located the shutter with the extended rotary piece and modify and keep as shown.



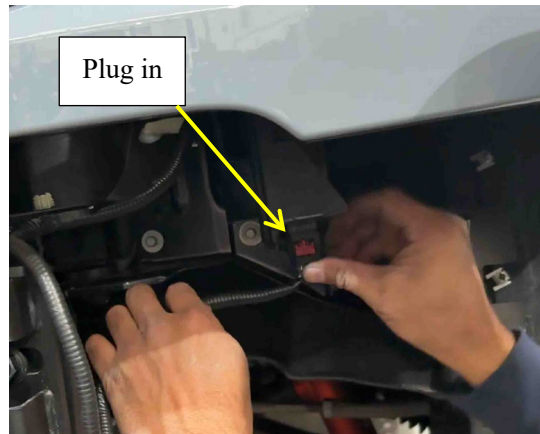
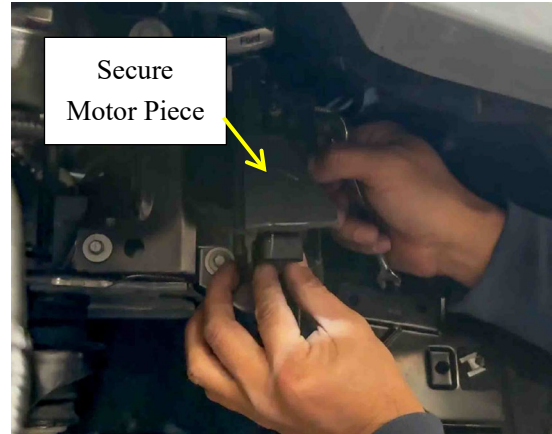
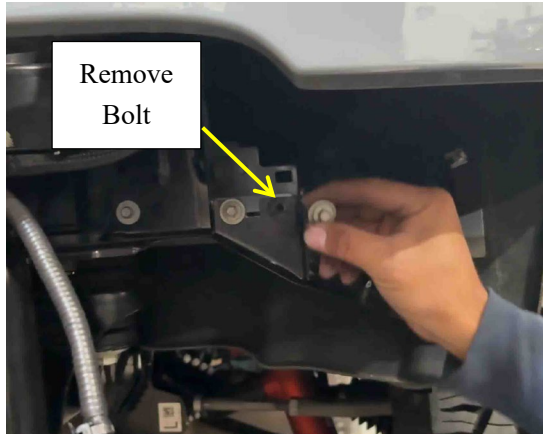
22. Take the frame of the Intercooler Shutter Blind and cut out the motor piece as shown, making sure not to damage it and keep it.



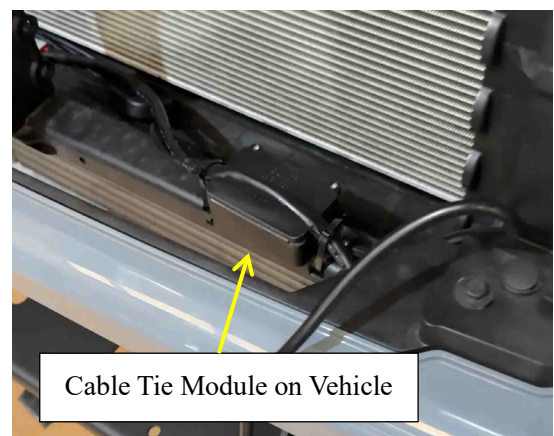
23. Take the Extended Shutter Piece from step (21) and connect it back onto the Motor Piece that was cut out in Step (22). To make the Extended Shutter Piece stay on the Motor Piece, you will need to thread the Shutter Piece then put a bolt through it on the other side to keep it in place.



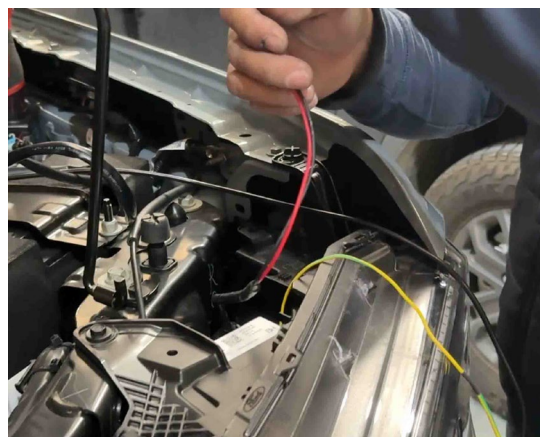
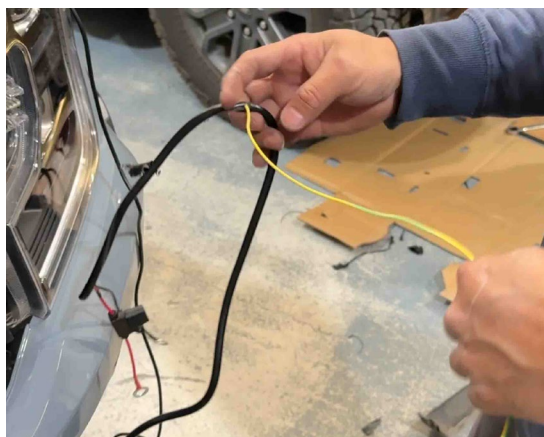
24. Relocated the Modified Shutter Motor Piece by firstly removing the bolt on the passenger side behind the Front Bumper as shown. Secure the Motor Piece onto here, then re-plug it in.



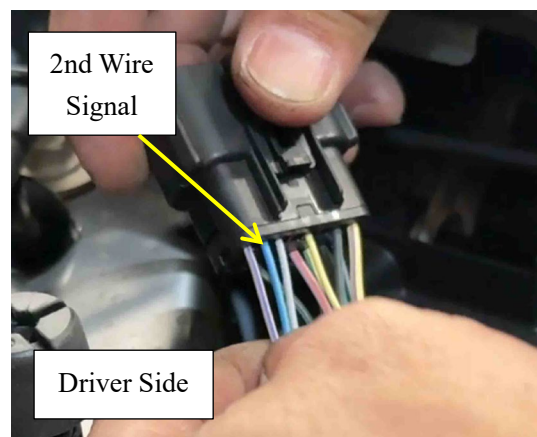
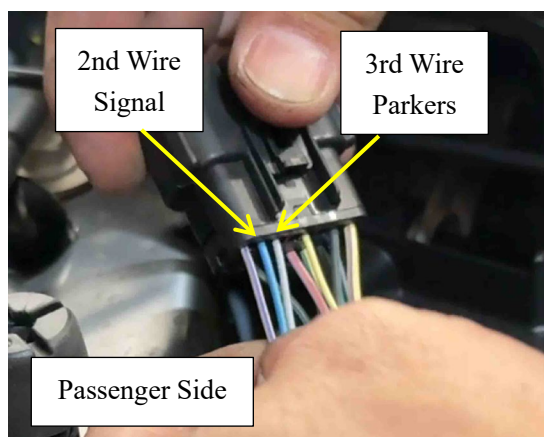
25. Take the RGB Harness and cable tie the Module to the front of the Vehicle like shown.



26. Take the RGB Harness wires and splice open the black cover to expose more of the yellow and green wire. Run all the wires up behind the passenger side headlight and into the engine bay.



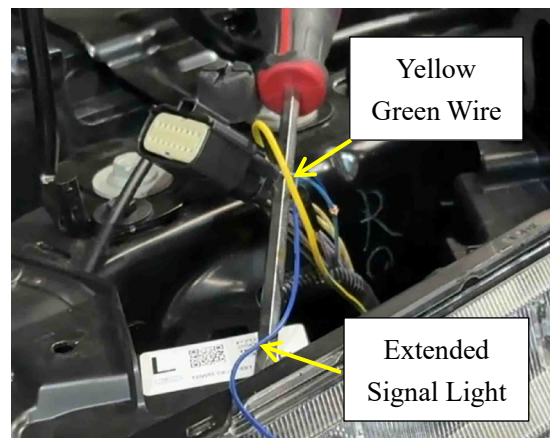
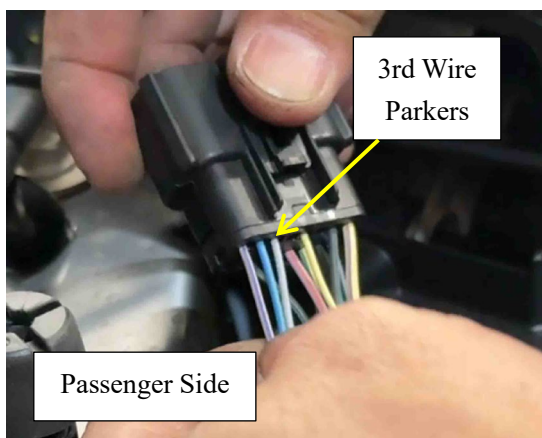
27. Unplug the Head Light Socket of the Passenger Side Headlight and unravel the wrapping to expose the wires. Turn the Head Light Socket orientation with the clip facing yourself as shown below. The 2nd wire from the left is the Signal Light (Blue in this case). While the 3rd wire from the left is the Parkers (Pale purple colour in this case). Do the same for Driver's Side - 2nd wire is Signal Light as shown below.



28. Extend the 2nd wire (signal light) on both Head Light Sockets. You will need to extend it by about 30cm to reach the Cube lights on the Front Bar. Solder and wrap the connection in electrical tape.

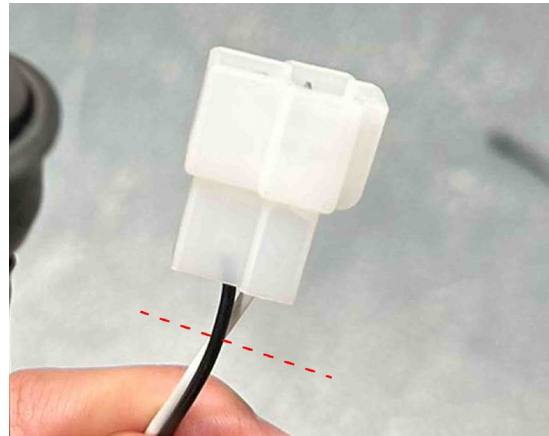
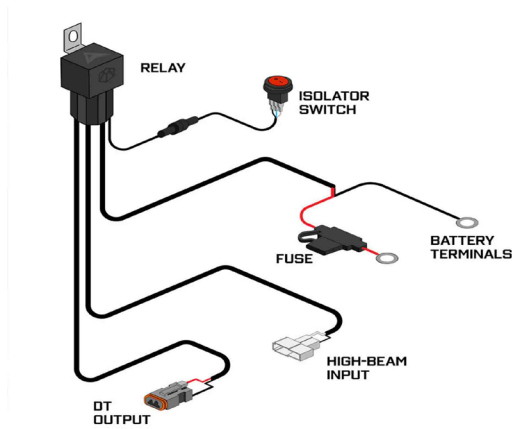


29. Take the Yellow and Green RGB Harness wire from step (26) and connect that to the Head Light Socket of the Passenger Side - 3rd Wire. Solder and Wrap in Electrical Tape.



30. After Extending the Signal Lights on both Head Light Sockets and connecting the RGB Harness Parker in the previous steps, you can reconnect the Head Light Sockets back into the Headlights.

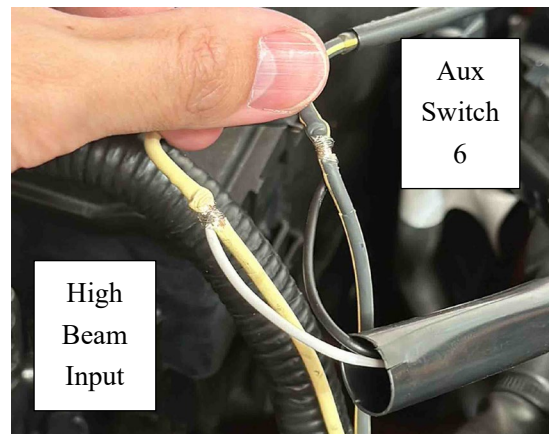
31. Take the Light Bar Harness and put it into the engine bay next to the car battery. Cut off the top of the High-Beam Input as indicated by the red dotted lines below.



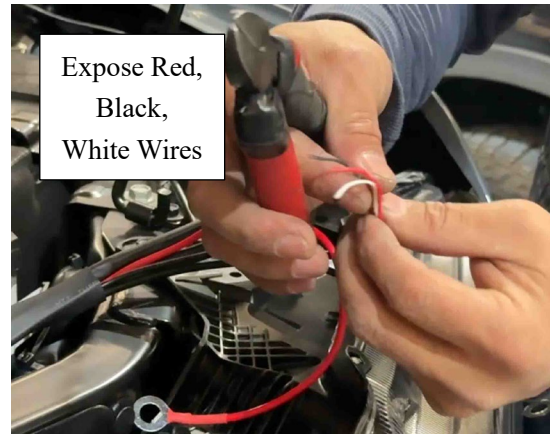
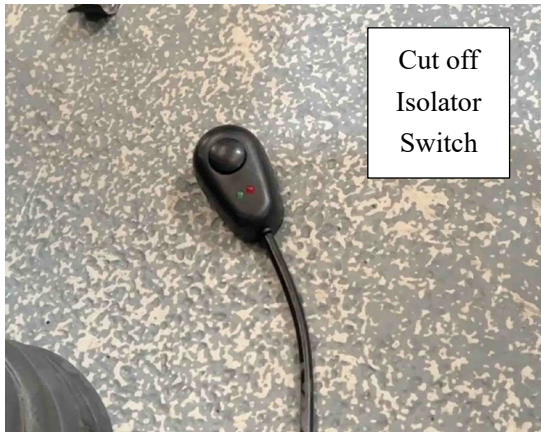
32. Located the Factory Auxiliary Switch 6 at the front of the engine bay which has a Yellow and a Yellow/Black Wire.

- Connect the High-Beam Input Black wire to the Yellow/Black - Auxiliary 6
- Connect the High-Beam Input White wire to the Yellow - Auxiliary 6

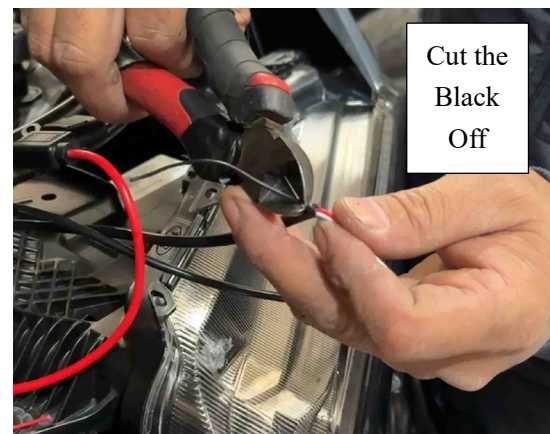
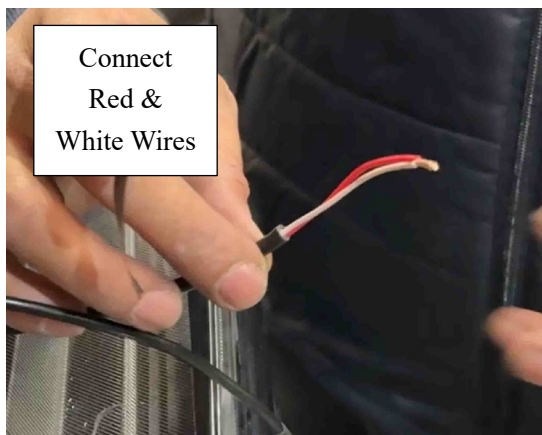
Then solder and wrap in electric tape.



33. Cut off the Isolator Switch and strip to expose the Red, Black and White Wires.



34. Connect the Red and White Wires together and solder. The Black wire can be left as is (Cut it shorter so it's not in the way). Tuck it away and secure somewhere in the engine bay.

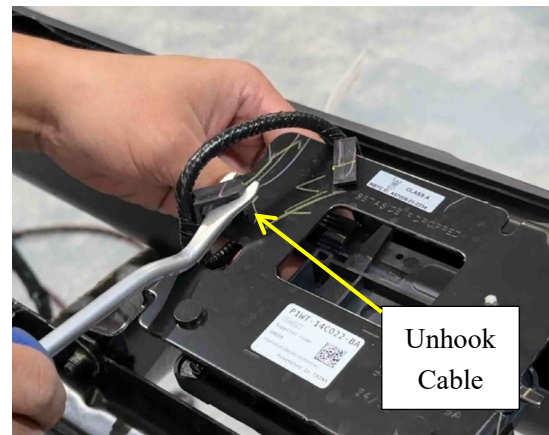


35. Take the Black Wire Rings from both the RGB and Light Bar Harnesses and connect to the Ground on the side of the engine bay by the Battery and secure with a nut. Connect the Red Wire Rings to the Positive Terminal of the Battery and secure on with a nut.

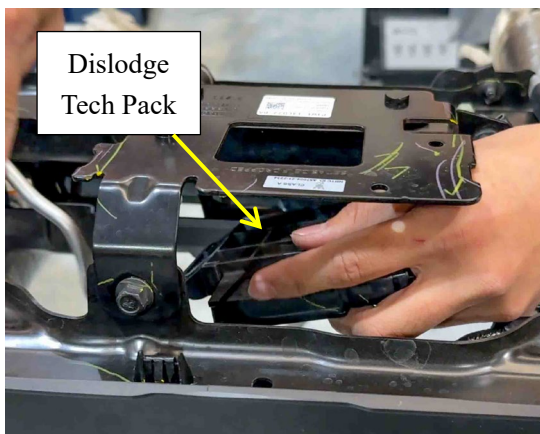


Supreme X-Series Front Bar – Next GEN Raptor 2022+

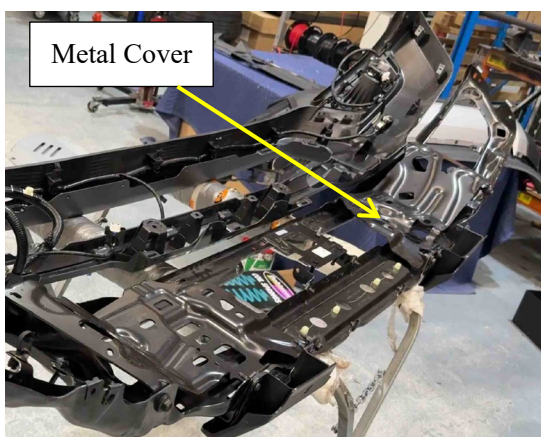
36. Remove the Tech Pack from the Factory Front Bar by firstly removing the cover then unhooking the Connection Cable.



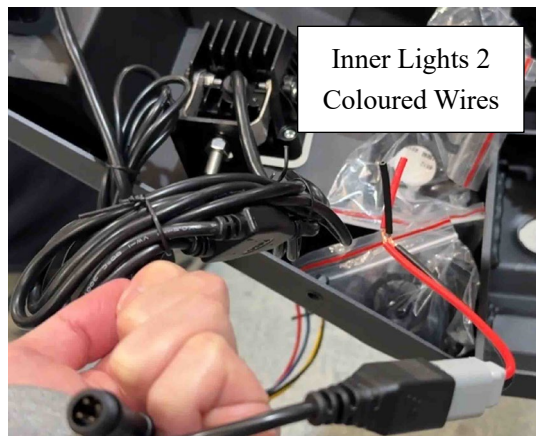
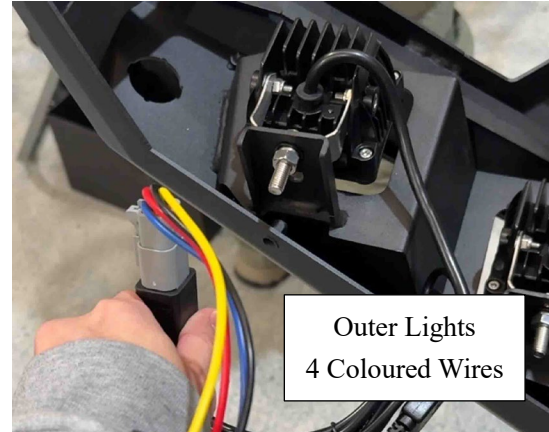
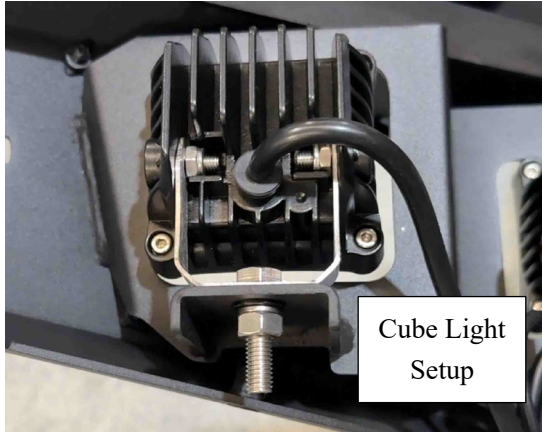
37. Dislodge the Tech Pack from the frame then unplug it. The Tech Pack will be fitted onto the Supreme Front Bar later, so keep it in a safe place and be careful as it is a sensitive sensor.



38. Remove the Metal Cover from the Factory Bumper, then you can access and remove the Factory Light and Sensory Harness that is attached to the Front Bumper, keep the Light and Sensor Harness to be installed onto the Supreme Front Bar.



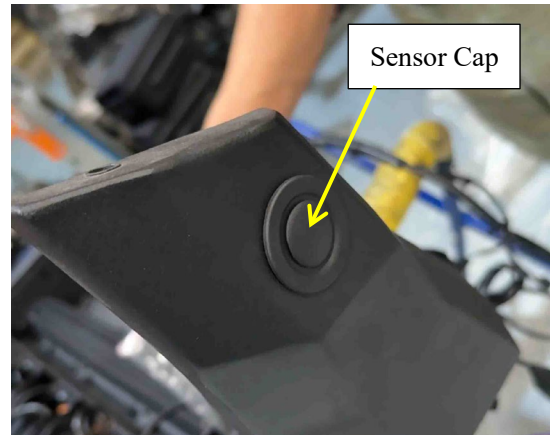
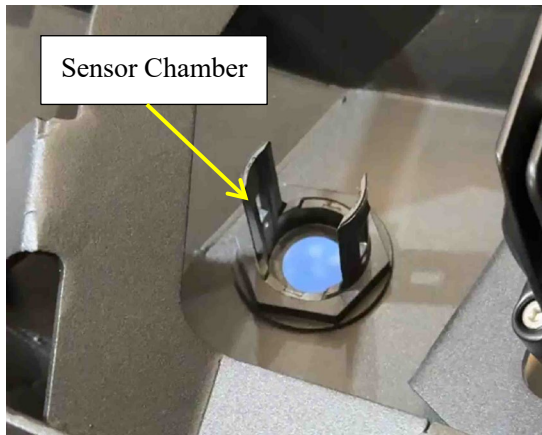
39. Setting up the Supreme Front Bar - Firstly setup your 4x Cube Lights like shown below mounted onto the brackets. The Outer Cube Lights have 4 coloured wires to them, while the inner Cube Lights will only have 2 (Red and Black).



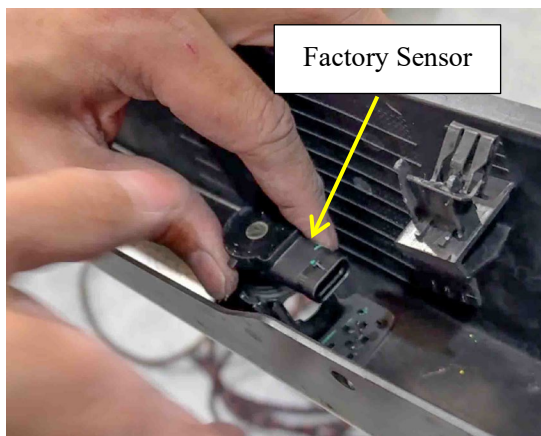
40. Fit the Light Bar onto the Supreme Front Bar with the Brackets as shown



41. Prep the Sensor Chambers onto the Supreme Bar as shown. There are 6 Sensor holes on the Supreme Bar, but only 4 Sensors on the Newer released Next GEN Raptors. For the Outer Most Sensor Holes there will be no Factory Sensor needed, so put a Sensor Cap over it as shown below. For the other 4 Sensors, don't put Sensor Caps. If it is the earlier released Raptor then it will have 6 Sensors, in which case don't need to use Sensor Cap and just fit all 6 sensors.



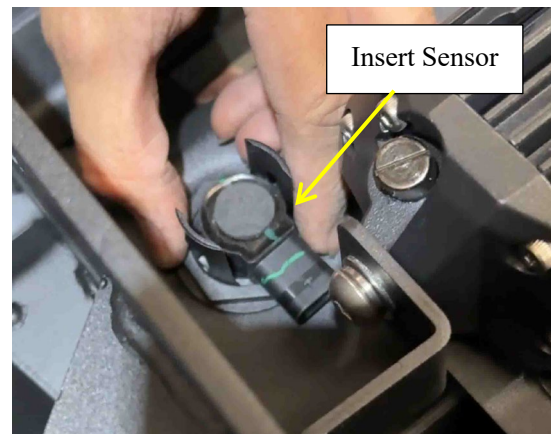
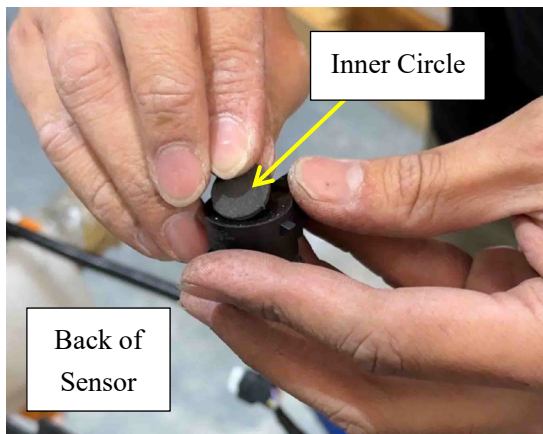
42. Take note of the positions of the Sensors on the Factory Bumper. They must be relocated to the Supreme Bar in the same positions. Remove the Sensors from the Factory Bumper one at a time for preparation.



43. From the Sensor Package that came with the Supreme Bar, take out the Circle Foam Sticker and poke out the Inner Circle (keep) and use the outer ring to stick on the front of the Sensor

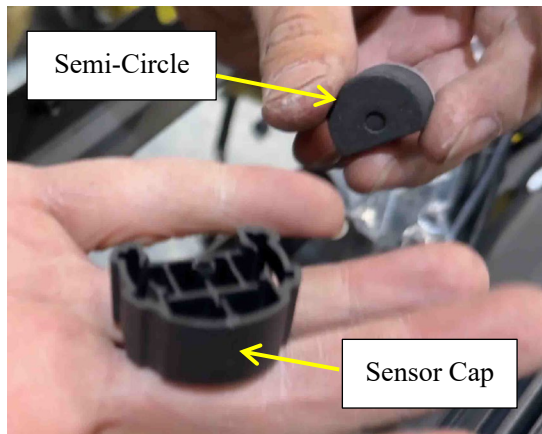


44. Now take the Inner Circle Foam Ring (poked out in previous step) and stick it to the BACK of the Sensor. Then clip in the Sensor into the Sensor Chamber on the Supreme Bar



Supreme X-Series Front Bar – Next GEN Raptor 2022+

45. Stick the Semi-Circle Foam Sticker on the Sensor Cap like shown and clip it onto the Sensor Chamber.



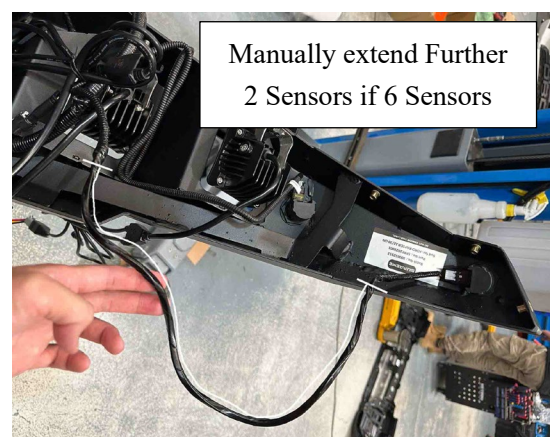
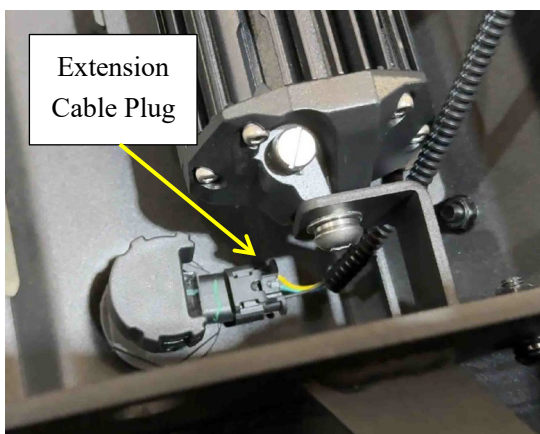
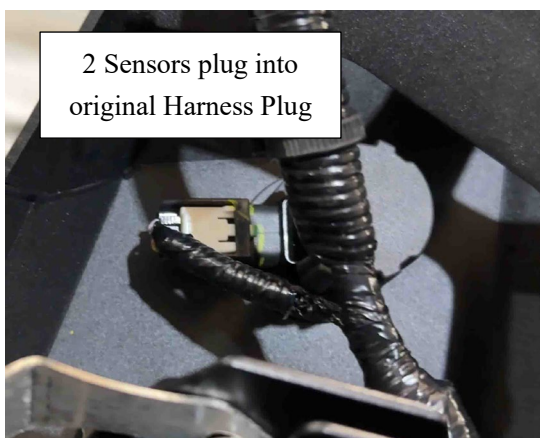
46. Sensor Plug orientations should be: Outer Sensors facing downwards. Inner Sensors facing upwards.



47. Take the Factory Light & Sensor Harness from step (38) and relocate it to the Supreme Front Bar

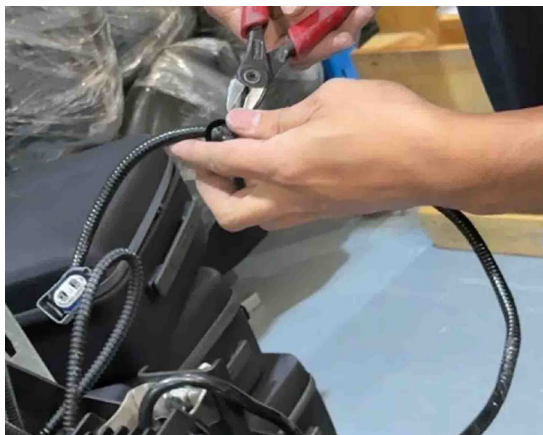


48. The Factory Harness is not long enough to reach all Sensors, so plug in 2 sensors into the Original Factory Harness and extend the other 2 sensors. If it is the 6 Sensors Raptor, then plug in 2 to the original, use extension for 2 inner sensors, and manually extend the further 2.

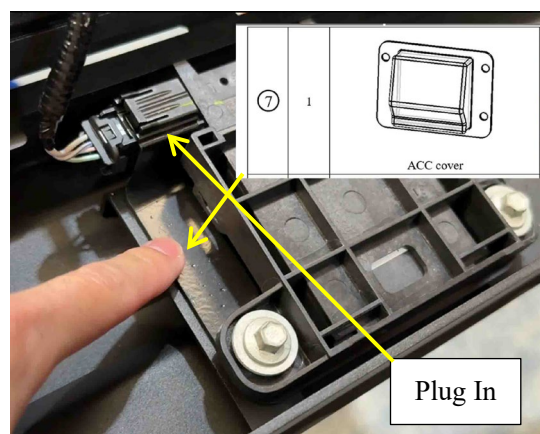
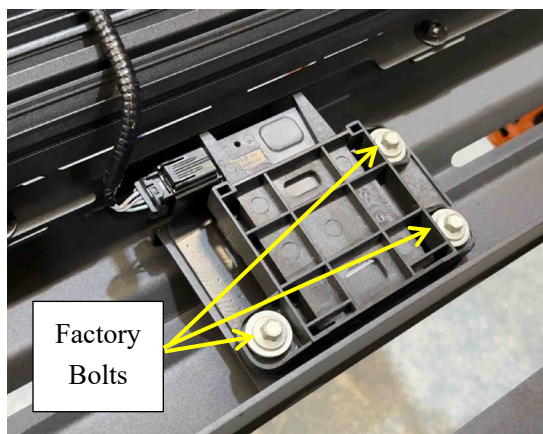


Supreme X-Series Front Bar – Next GEN Raptor 2022+

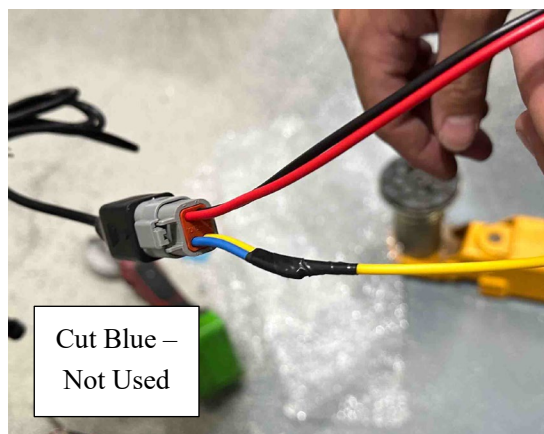
49. After all sensors are plugged in, cut off all the plastic clips and parts on the Factory Sensor/Light Harness to make it easier to neatly pack and cable tie into the Front Bar.



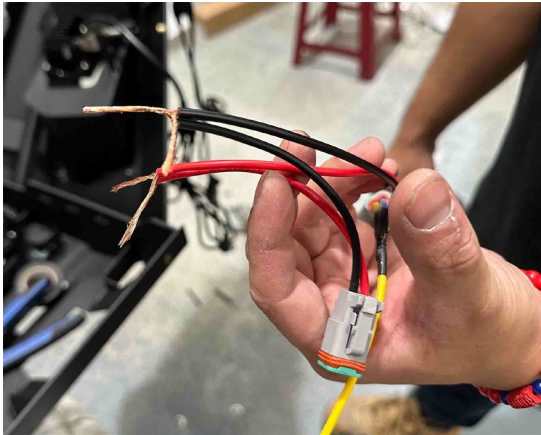
50. Take the Tech Pack that was unplugged from Step (37) and fit it onto the Supreme Front Bar, with the ACC Cover at the front and using the Factory Bolts to secure, and then plug it back in.



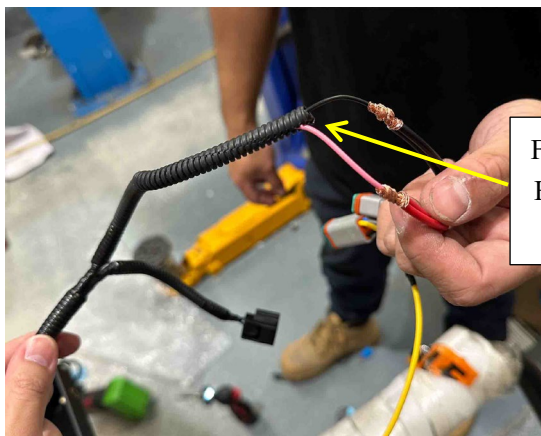
51. The Outer Cube Lights with the 4 coloured wires: Blue - Not used, cut short and taped to the side of the Yellow Wire. Yellow - Is connected to the extended Signal Wire from Step (28)



52. With the pair of Cube Lights on each side, Connect the Black Wires together and the Red Wires Together.



53. Cut off the Fog Light Plug from the Factory Sensor/Light Harness to expose the Black and Pink Wires. Connect the Black combined Cube Light Wires to the Black. Connect the Red combined Cube Light Wires to the Pink. Solder and wrap in electrical tape.



Factory Sensor/Light
Harness – Black and
Pink Wires

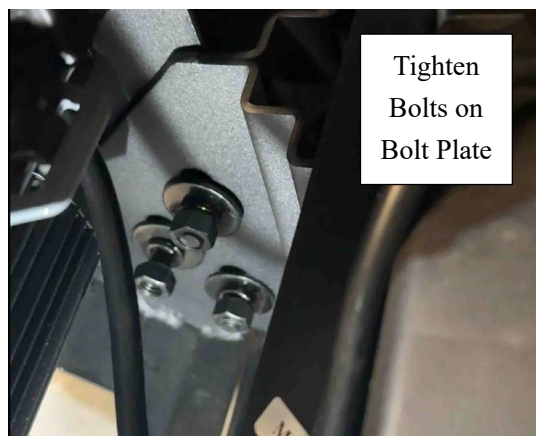
54. Fit the prepped Supreme Bar onto the Winch Cradle (Recommend have 2 people on each side supporting the Supreme Bar as for adjusting)



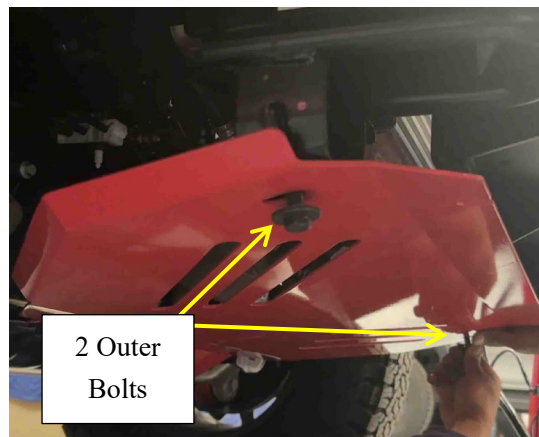
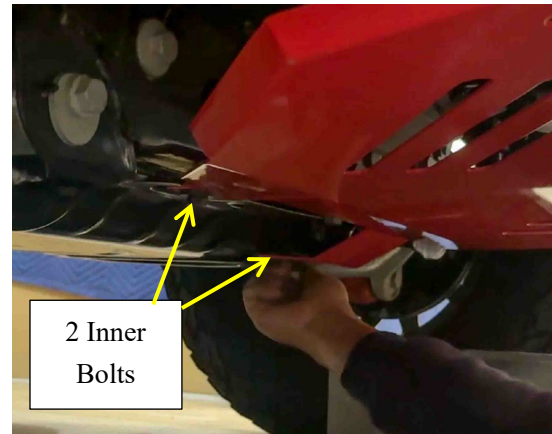
55. Use the Bolt Plate Bracket shown below on each side to support the Supreme Bar to the Winch Cradle as you adjust it.



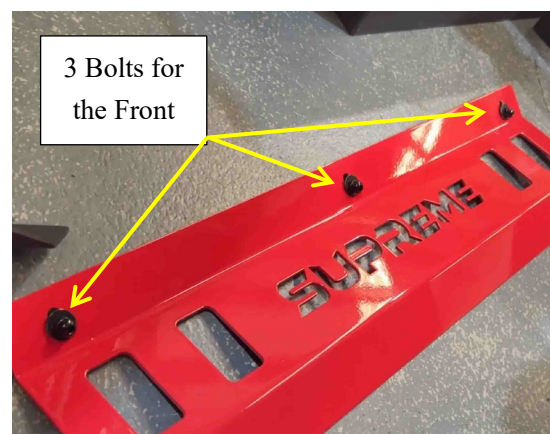
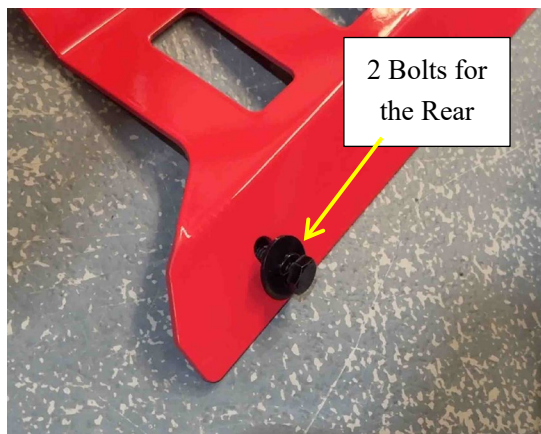
56. Adjust the Supreme Bar to be aligned as best you can. **IMPORTANT:** Ensure there is a 15-20mm gap between the Bar and the Vehicle, then tighten the Bolt Plate Bracket through the holes at the front to secure the Supreme Bar onto the Winch Cradle.



57. Take off the 4 Factory Bolts under the vehicle that corresponds to the inner Bash Plate bolt positions. Reuse those 4 Factory Bolts to secure the Inner Bash Plate to the vehicle.



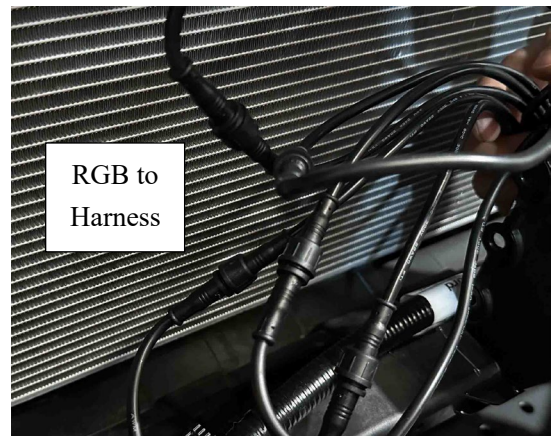
58. The Outer Bash Plate uses the Supreme provided bolts with the rear part needing 2 bolts as shown below, while the frontal part will use 3 bolts as shown.



59. Secure the Frontal Bash Plate with the rear part overlapping the Inner Bash Plate.



60. Plug in the Light Bar to the Light Bar Harness and Plug in all the RGB Lights to the RGB Harness which has 6 plugs. (There will only be 5 RGB lights that need plugging, so 1 will be spare)



61. Reconnect the Factory Head Light Harness, the Camera and re-plug the Head Light Washer.



Supreme X-Series Front Bar – Next GEN Raptor 2022+

62. Put the Factory Grille Back on with all the factory clips, bolts or screws and put the Plastic Engine Cover back on.



63. Fit the Side Wings onto each side under the Supreme Bar using bolts provided.

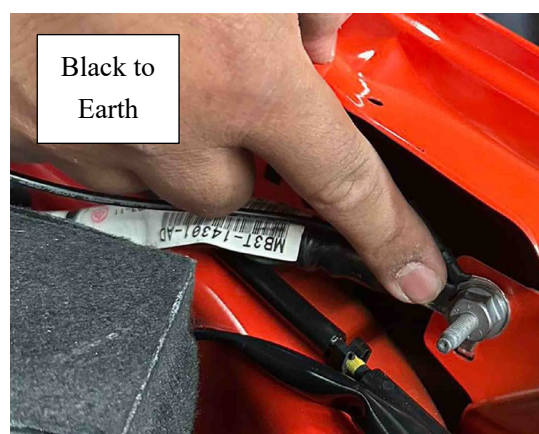


64. Fit the Number Plate Bracket on with the bolts provided and refit the Plastic Grille Liner back on the front.



Supreme X-Series Front Bar – Next GEN Raptor 2022+

65. Take the Red Wires with Rings from both RGB and Light Harness and connect it to the Positive Terminal of the car battery. Now Take the Black Wires and connect those to the Earth as shown.

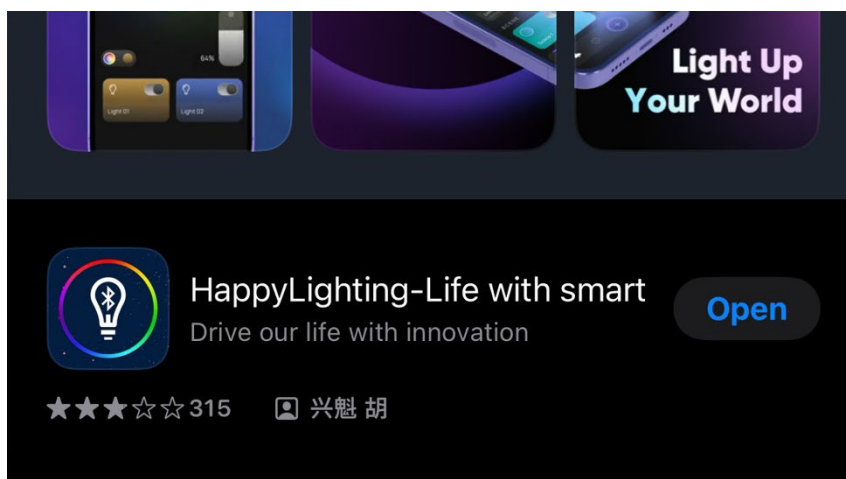


66. Finally reconnect the Negative Battery Terminal that was removed in Step (1)



Operation the RGB Lights

The RGB on the Cube Lights & Light Bar are operated using a phone app you can download for free. Visit your mobile app store and download “HappyLighting” and open the App. It will connect to your vehicles RGB lights automatically via Bluetooth.



Supreme X-Series Front Bar – Next GEN Raptor 2022+

Test that all lights on the vehicle are working, including fog lights, high beam and indicators.

Test that all sensors are functioning properly.

If any of these are not functioning properly, refer back to the steps in the instructions associated with these areas and double check all steps are performed correctly.

And that concludes the whole installation of the Supreme X-Series Front Bar for the Next GEN Raptor (2022+)

Take a step back, give yourself a pat on the back and admire your work of art.

NOTE

Any damage caused by improper installation and/or application of this product will void our product quality warranty.