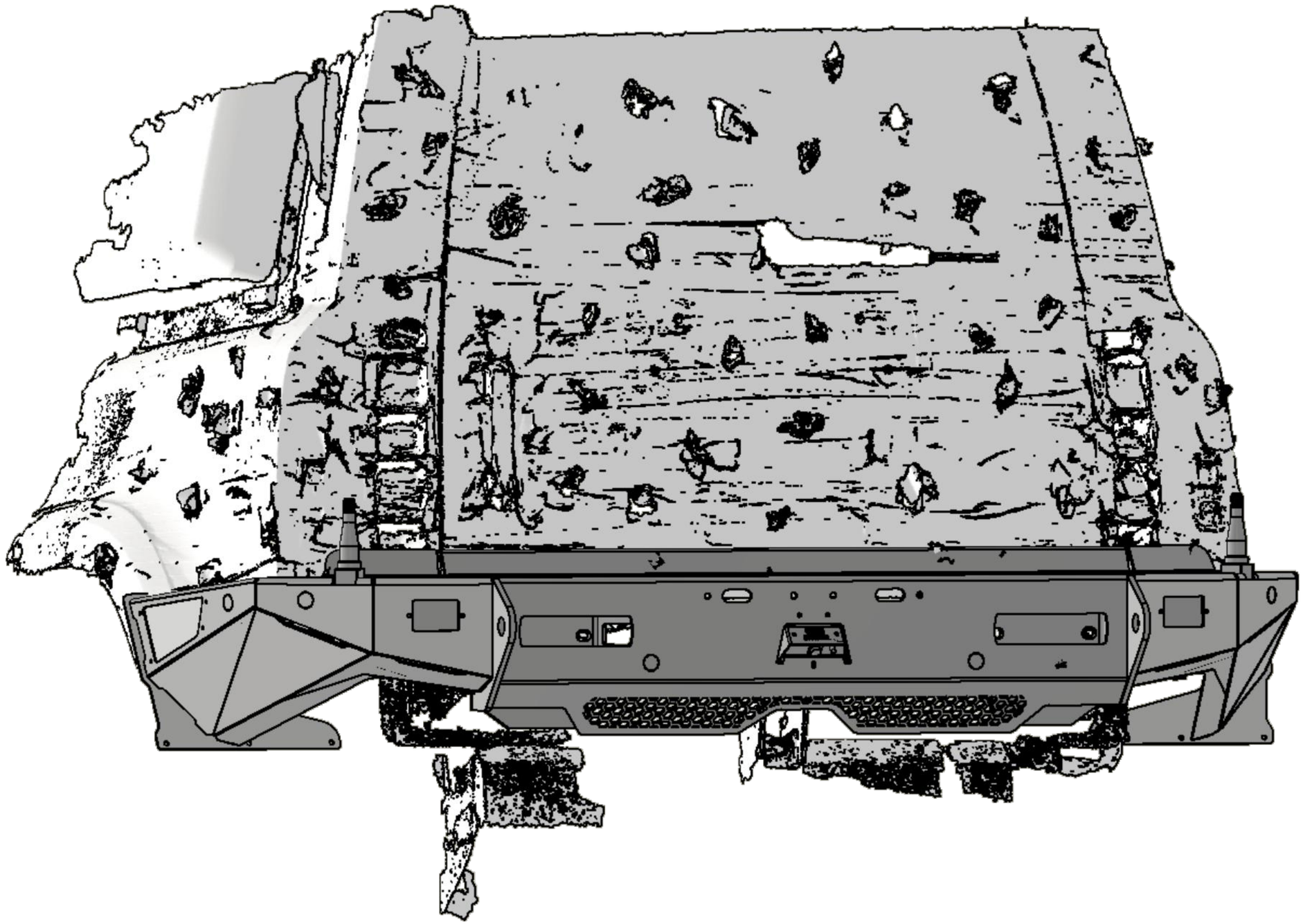
TCC (2020+) DEFENDER REAR BAR

TECHNICAL DATA SHEET & FITTING INSTRUCTIONS

*** BAR BASE ONLY - JERRY HOLDER, CARRIER ARM, LATCH & TYRE UPRIGHT**
INSTRUCTIONS FOUND AT: www.thecruisercompany.com.au

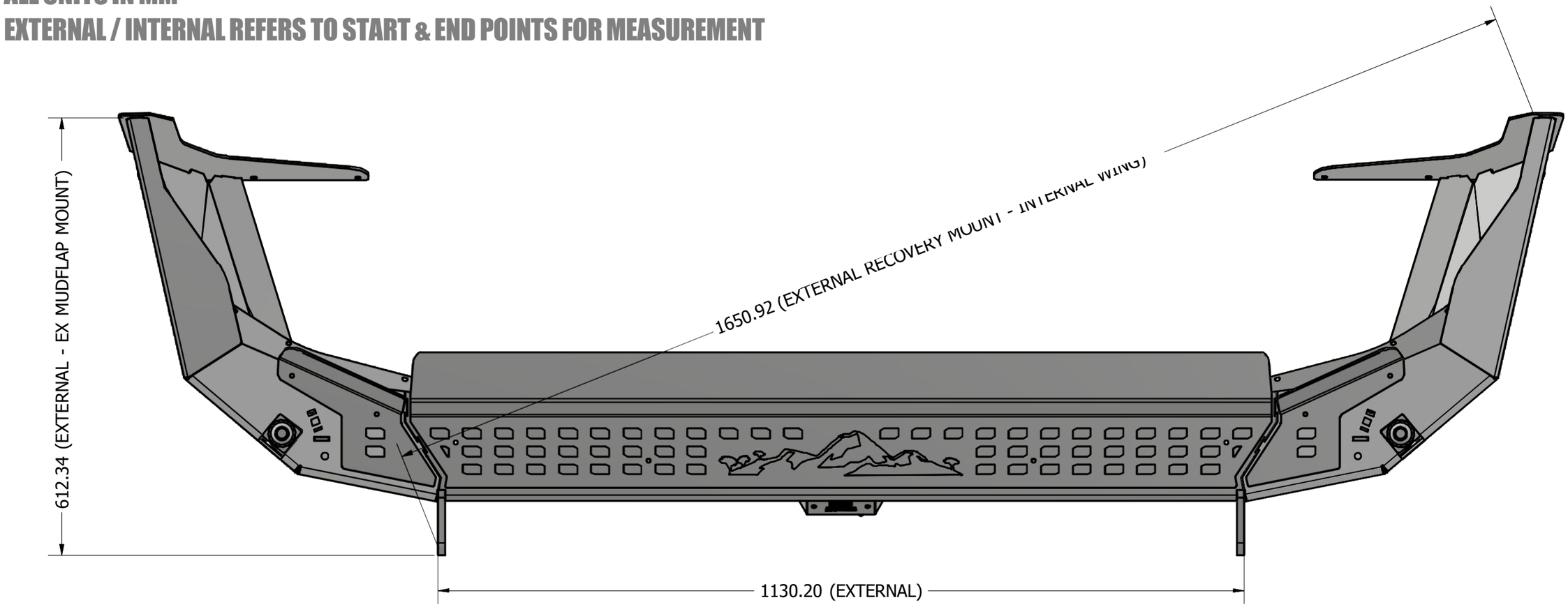


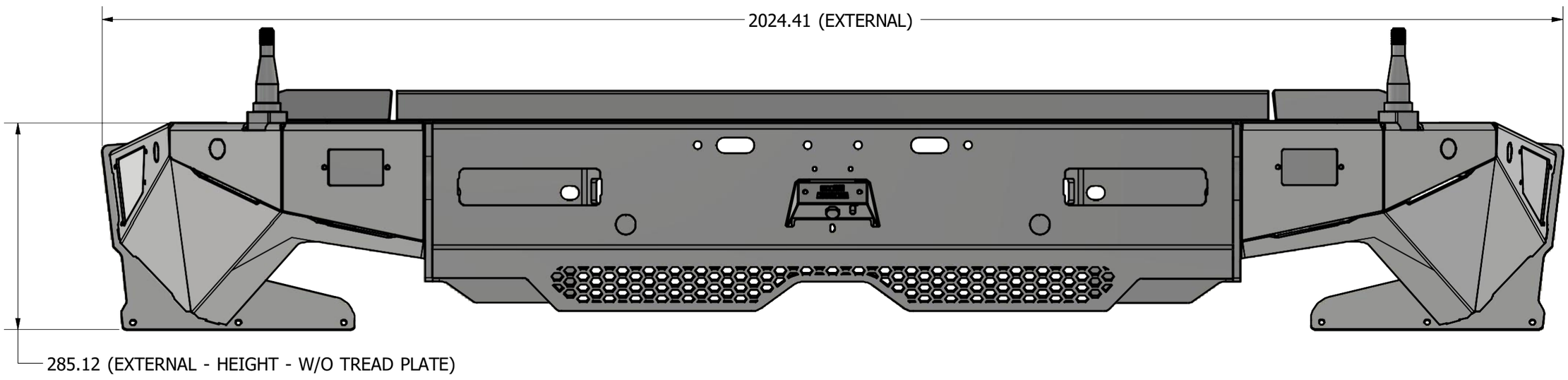
AUSTRALIAN MADE®

GENERAL DIMENSIONS

ALL UNITS IN MM

EXTERNAL / INTERNAL REFERS TO START & END POINTS FOR MEASUREMENT

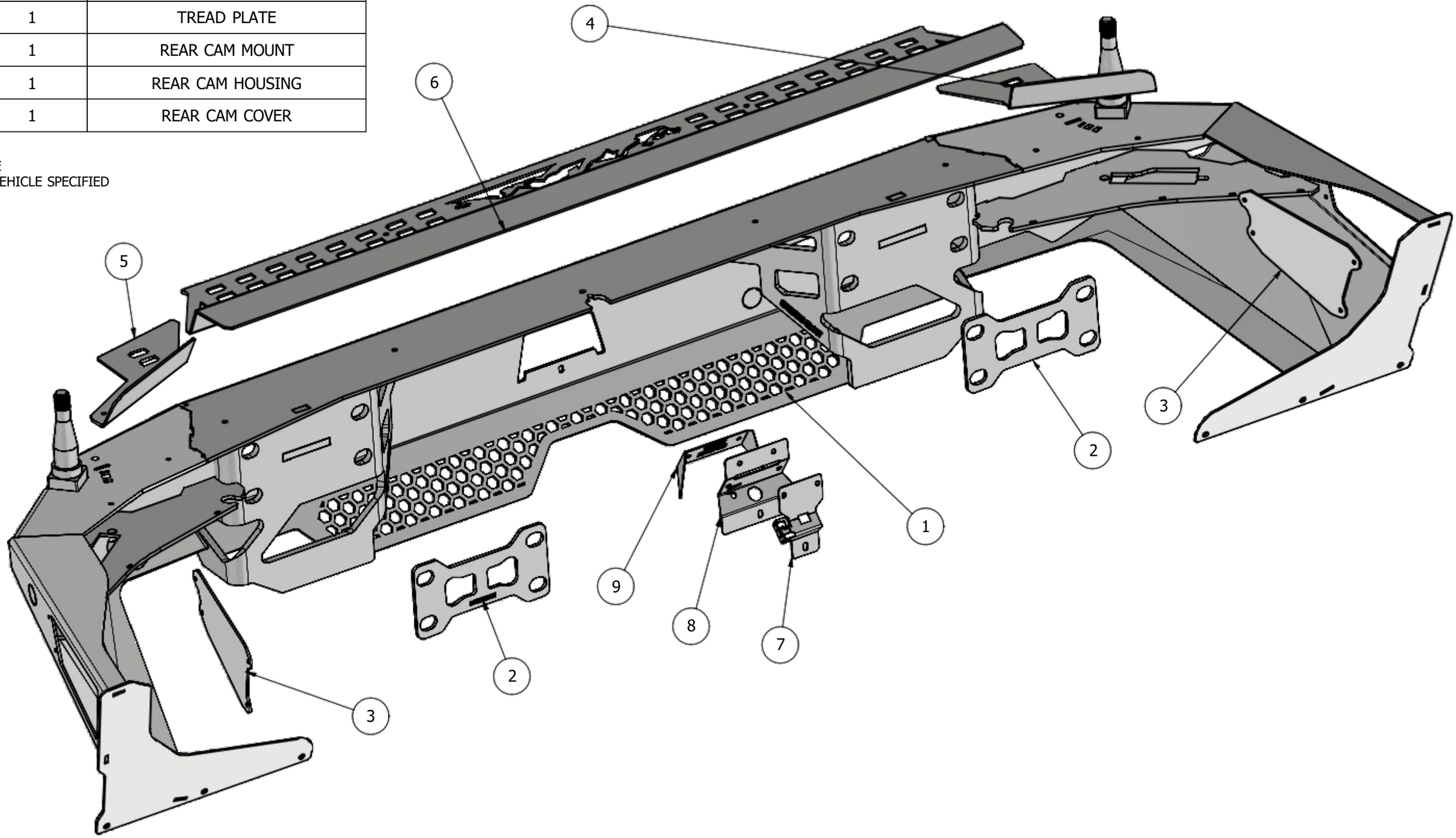




BAR BASE ASSEMBLY

PARTS LIST		
ITEM	QTY	PART NAME
1	1	DEFENDER REAR BAR BASE
2	2	CHASSIS MOUNT SHIM
3	2	BLIND SPOT SENSOR COVER
4	1	TREAD PLATE CORNER (PS)
5	1	TREAD PLATE CORNER (DS)
6	1	TREAD PLATE
7	1	REAR CAM MOUNT
8	1	REAR CAM HOUSING
9	1	REAR CAM COVER

* DS = DRIVERS SIDE
  PS = PASSENGER SIDE
  RIGHT HAND DRIVE VEHICLE SPECIFIED



1. PREPARING FOR INSTALL

TOOLS REQUIRED - NOT INCLUDED

SIKAFLEX
ALLEN KEY SET
SPANNER SET (UP TO 22MM)
SOCKET SET (UP TO 22MM)
SHIFTER
STANLEY KNIFE
12V WIRING EQUIPMENT (SOLDERING IRON ETC)
5 CORE TRAILER WIRE (APPROX. 2 METERS)
LOCTITE
BEARING GREASE
BASIC CLIP REMOVAL TOOLS
TORX SET
AUTOMOTIVE DOUBLE SIDED TAPE

PLEASE USE LOCTITE ON ALL FASTENERS.



1. PREPARING FOR INSTALL

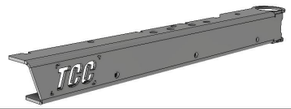
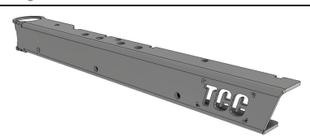
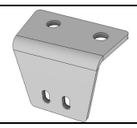
ACCESSORIES INCLUDED IN BOX

WHEN ORDERED IN A STANDARD CONFIGURATION

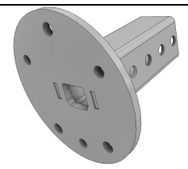
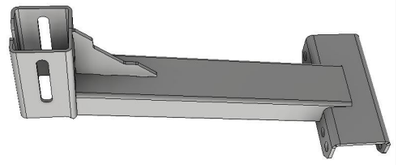
BAR BASE - DETAILED IN ASSEMBLY VIEW (PAGE 3)

QTY	PART NAME	PART IMAGE	PACKED (OFFICE USE ONLY)
2	ROADVISION TAIL LIGHTS		
2	ROADVISION REVERSE LIGHTS		

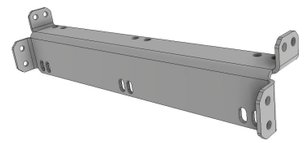
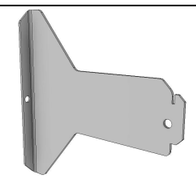
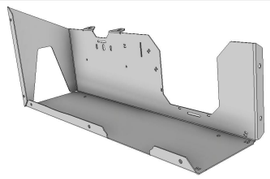
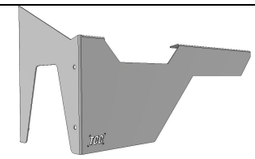
CARRIER ARMS

QTY	PART NAME	PART IMAGE	PACKED (OFFICE USE ONLY)
1	DRIVERS SIDE CARRIER ARM		
1	PASSENGER SIDE CARRIER ARM		
2	LATCH DROP DOWNS		

TYRE CARRIER

QTY	PART NAME	PART IMAGE	PACKED (OFFICE USE ONLY)
1	TYRE HEAD		
1	TYRE UPRIGHT		

JERRY HOLDER

QTY	PART NAME	PART IMAGE	PACKED (OFFICE USE ONLY)
1	UNIVERSAL SHELF BASE		
1	JERRY DIVIDER		
2	JERRY LOWER GUSSETS		
1	JERRY INTERNAL		
1	JERRY FRONT COVER		

HARDWARE KITS

QTY	PART NAME	PART IMAGE	PACKED (OFFICE USE ONLY)
1	VEHICLE SPECIFIC MOUNTING KIT	REF QTYS ON BAG LABEL	
1	TYRE CARRIER BOLT BAG	REF QTYS ON BAG LABEL	
1	JERRY HOLDER BOLT BAG	REF QTYS ON BAG LABEL	
1	CARRIER ARM (PAIR) BOLT BAG	REF QTYS ON BAG LABEL	
1	LATCH KIT (PAIR)	REF QTYS ON BAG LABEL	
1	TREAD PLATE BOLT BAG	REF QTYS ON BAG LABEL	
1	BEARING KIT (PAIR)	REF QTYS ON BAG LABEL	

2. REMOVE FACTORY REAR BUMPER

**** TIP **** We found this community produced YouTube video to be quite helpful at this stage:

https://www.youtube.com/watch?v=dhquhNBzt4M&ab_channel=powerfulukltd

CREATOR: powerfulukltd

2.1. Put suspension in offroad mode (just to get some more height – not necessary on a hoist).

2.2. Remove three clips (each side) to release wheel liner from rear bumper.

2.3. Remove screws that hold bumper to body / heat shield underneath bumper and behind wheel liner.

2.4. Reach behind RHS wheel liner and unclip fuel filler breather hose from factory bumper.

2.5. Reach behind LHS wheel liner and unplug bumper wiring from body.

2.6. Pull plastic flare and unclip from body (this flare keys into the bumper and will make removal difficult).

2.7. Pull down and out on bumper wing and it will unclip from the body and hang.

2.8. Grip bumper and pull directly back. This will break free clips at bottom of rear door jamb (these clips can be quite tight). The bumper will then hang loose with only a few wiring connections holding it in place.

2.9. Unplug all remaining electrical connections to bumper and disconnect factory camera washer hose (washer hose is on the RHS).

2.10. Take bumper away from vehicle and lay it on a worksurface with the inside facing up.

2. REMOVE FACTORY REAR BUMPER

2.11. Locate the lane departure radars that are still mounted to the body on the sides where the bumper was removed.

2.12. Unbolt radar from radar mount and unplug from body.

2.13. Put both the left and right radars aside in a safe place – these will be installed in the rear bar at a later stage.

2.14. Remove the plastic bracket that the radar was mounted to from the body (this is not being re-used).

2.15. Remove left and right tow hook mounts from the body, leaving behind 4 empty bolt holes each side.

2.16. Remove the factory spare wheel mount from door. To do this you will need to remove the centre plastic trim from the inside of the rear door. Once inside the rear door you will see 2x nuts, these will need to be removed along with the 5x bolts that are accessed from the outside of the door. Once the spare wheel mount is removed, re-install all of the bolts to fill the holes.

2.17. Remove parking sensors from factory bumper. Pry sensor housing free from factory bumper and note position of sensors when removed to ensure they are installed appropriately.

3. GENERAL CARE INSTRUCTIONS

PLEASE NOTE THAT THIS PRODUCT REQUIRES A LEVEL OF PROFESSIONAL FITTING ABILITY. INEXPERIENCED FITTERS MAY FIND THIS TO BE A DIFFICULT TASK.

To ensure your product is properly cared for and lasts as expected, please consider the following:

- Ensure all components are properly adjusted during install so that they all align with one another.

- Check bolts after 1000km, then regularly every 10,000km.

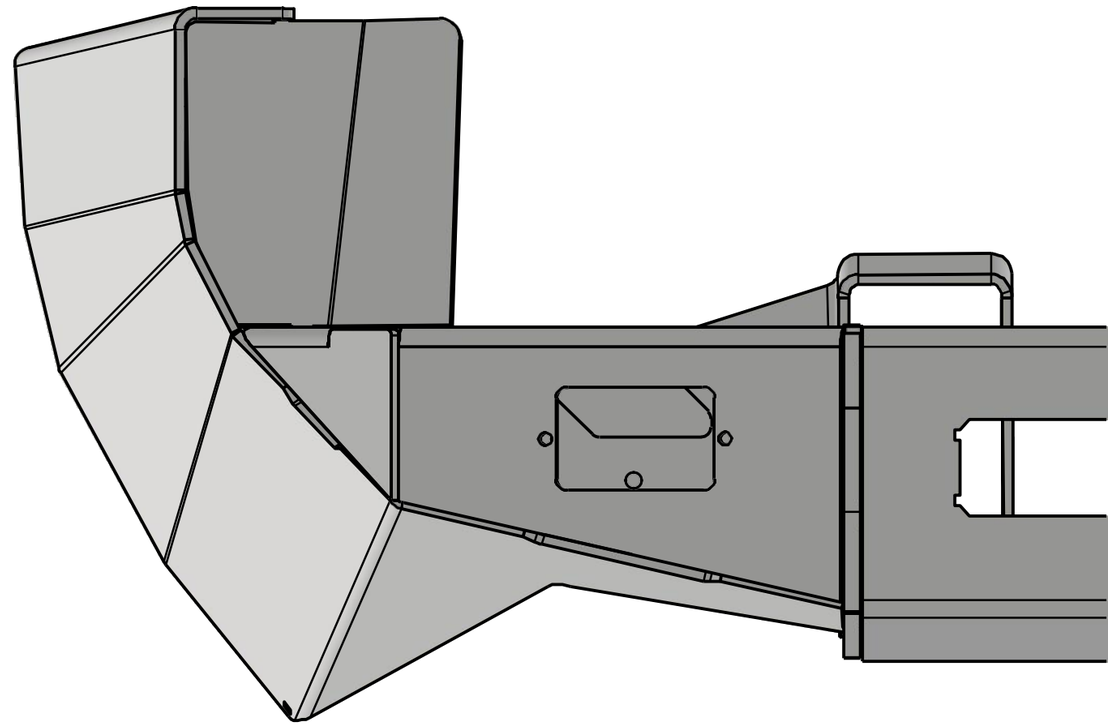
- Keep external joins and moving components properly protected with a lubricant such as Lanolin.

- Use a high quality grease and pack bearing sleeve full.

- Do not expose the product to salt water or salty conditions.

- Do not wash the product with any harsh chemicals.

- Do not over load product or use it for any purpose that it is not intended for.



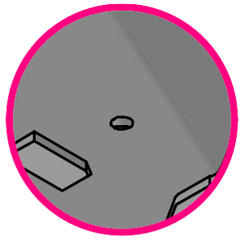
4. REAR BAR INSTALL

FITTING THE PARKING SENSORS & ACCESSORIES

4.2. SIKAFLEX SENSOR HOUSING TO SENSOR CUTOUTS IN BAR FROM BEHIND
NOTE: HOUSINGS WILL NEED TO BE TRIMMED TO FIT.
NOTE: ENSURE HOUSING IS INSTALLED IN THE SAME ORIENTATION AS FACTORY.

4.1. KNOCK OUT SENSOR INFILLS MARKED ORANGE

4.3. INSERT FACTORY SENSORS INTO REMOUNTED SENSOR HOUSINGS
NOTE: ENSURE SIKAFLEX IS DRY BEFORE ATTCHING SENSORS



4.9. **M6 BOLTS**
M6 NUTS

NOTE: LEAVE CENTER TREAD PLATE OFF FOR NOW (ITEM #6)

4

5

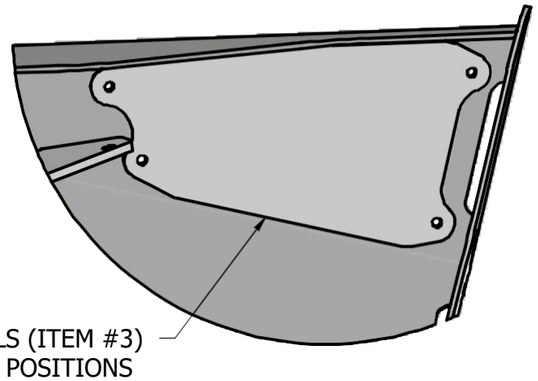
INSERT M5 BOLTS FROM THIS SIDE

4.5. INSTALL GAS STRUT BALLS

4.6. INSTALL REVERSE LIGHTS

4.7. INSTALL TAIL LIGHTS

4.8. INSTALL LATCH HOOK PLATES AND ARM SUPPORT PLATES



4.4. INSERT ABS PANELS (ITEM #3) AFFIX WITH M5 BOLTS IN POSITIONS MARKED YELLOW

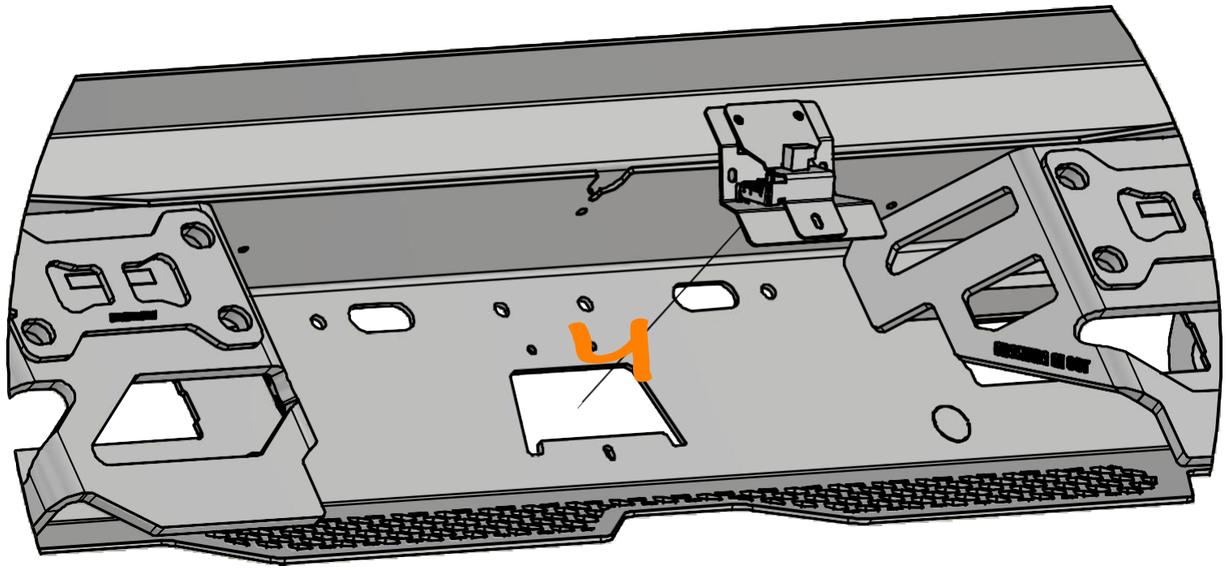
5. REAR BAR INSTALL

FITTING THE REAR CAMERA AND SPRAY NOZZLE

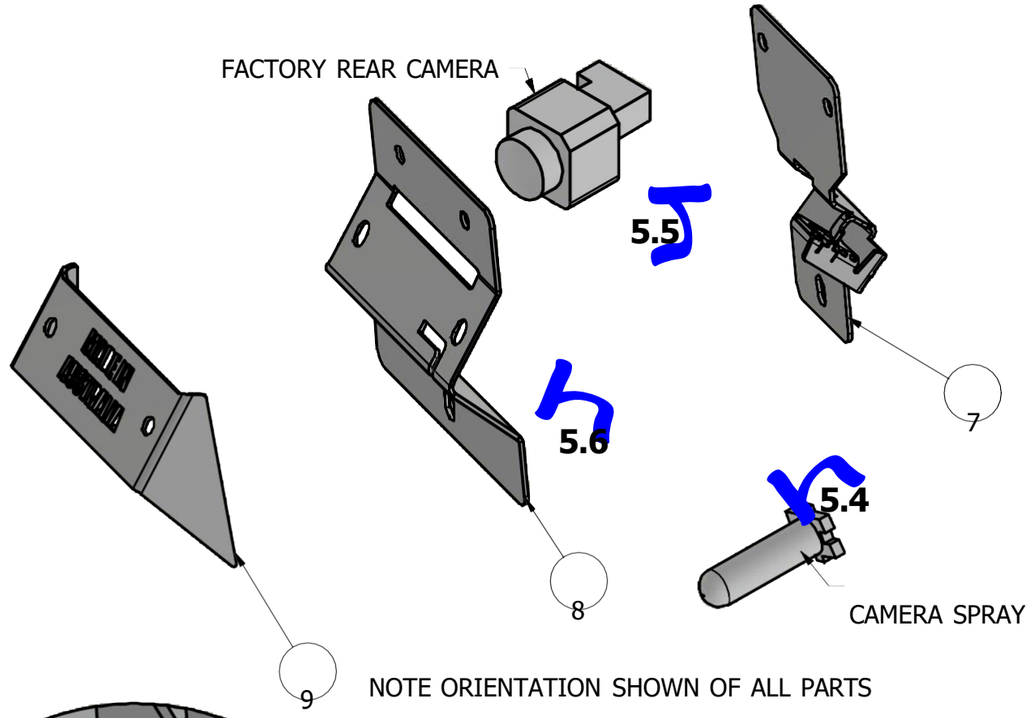
5.1. Locate the factory reverse camera in the centre of the plastic bumper and remove this by unscrewing the three torx screws.

5.2. The reverse camera will come loose from the plastic bumper along with a plastic bracket.

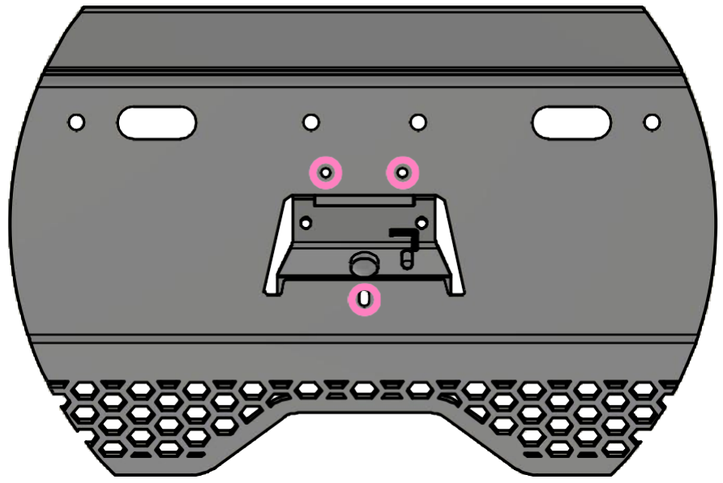
5.3. Separate the camera from the plastic camera bracket (the factory camera bracket does not get re-used).



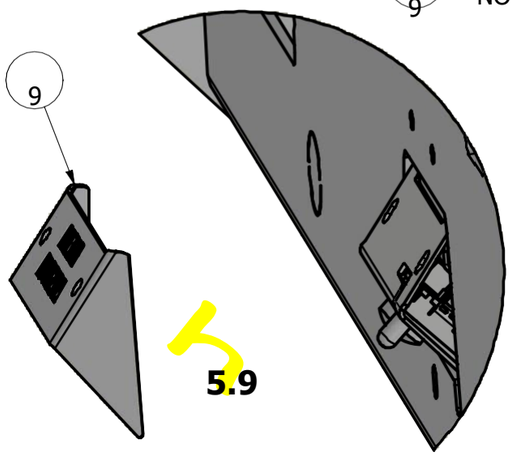
5.7 (REAR VIEW)

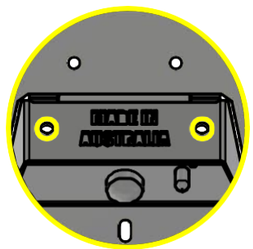


NOTE ORIENTATION SHOWN OF ALL PARTS

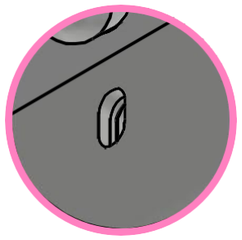


5.8 (FRONT VIEW)





M6 BOLTS



M6 BOLTS
M6 NUTS

M6 NUTS

6. REAR BAR INSTALL

FITTING THE WIRING HARNESS AND RADARS

6.1. Wiring must be completed by taping into the tail light harness - if trailer plug harness is used, vehicle will operate as if trailer is connected.

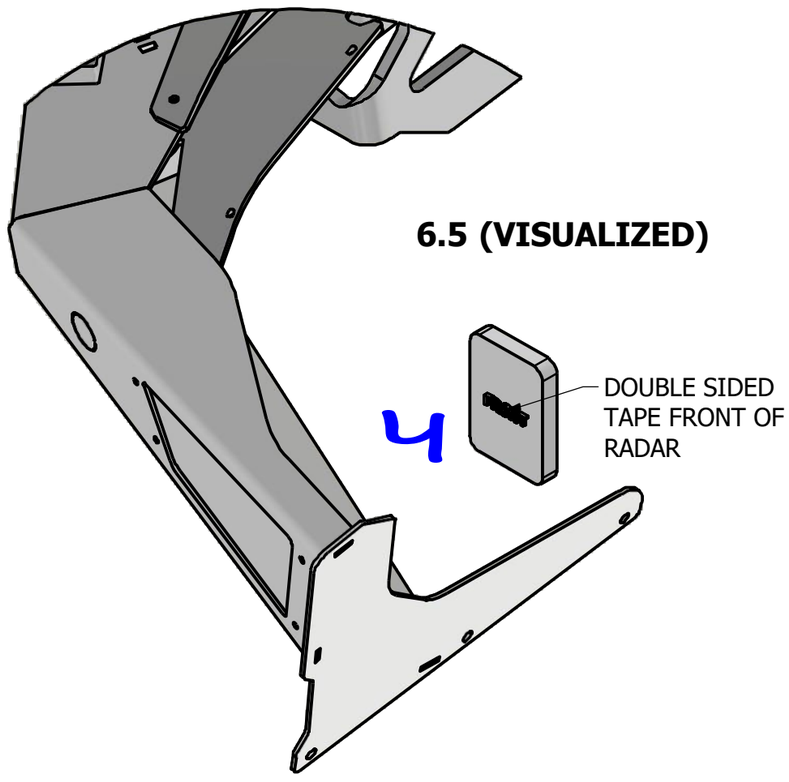
**** if unsure of your ability to wire the lights, please seek the help of an automotive professional****

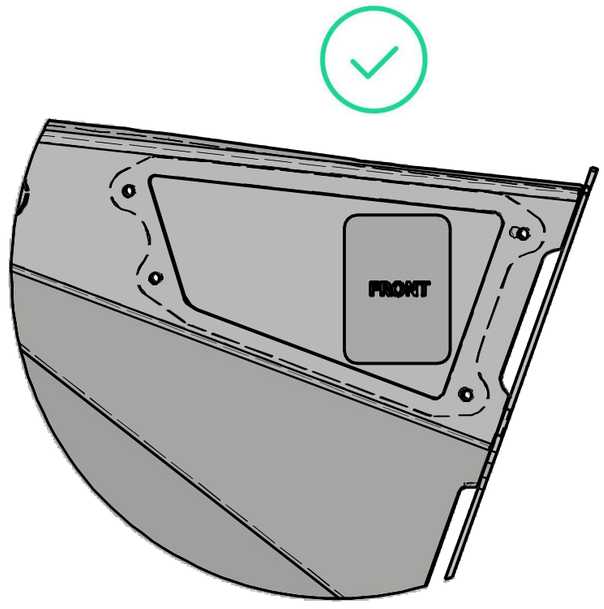
6.2. Locate the wiring loom that runs across the inside of the factory plastic bumper and unclip this and set it aside.
Take the loom that was removed and plug it into all of the sensors and camera that has been installed in the new rear bar.

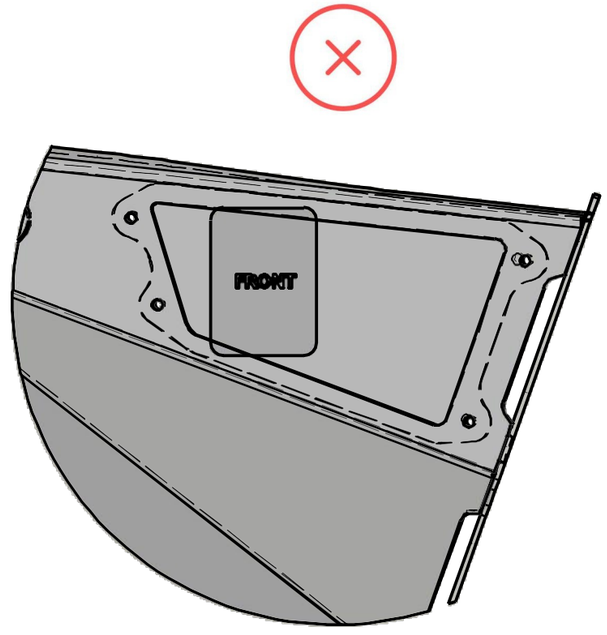
6.3. Locate the factory tail light wiring looms which will be coming out of the body directly below the tail lights. Please use a test light to ensure you have located the correct wiring loom.

6.4. Take the 5 core trailer plug wiring and tap into the factory tail light looms. Also tap the length of 2 core wire into the factory tail light loom (parker lights) on the LHS (this will be used for the number plate light that is mounted to the jerry holder).
Leave an appropriate length of wire that is long enough to reach the rear bar taillights.
Connect the corresponding wires to the plugs provided for the road vision lights that are installed in the new rear bar.

6.5. Take the radars that were previously removed and double sided tape the radars to the inside of the ABS plastic radar panels on the new rear bar. Please ensure that the steel rear bar wing does not overlap the radar. If you find you are having radar / blind spot monitor issues at the end of the install, please revisit this stage and ensure the radar is not being obstructed by any metal.



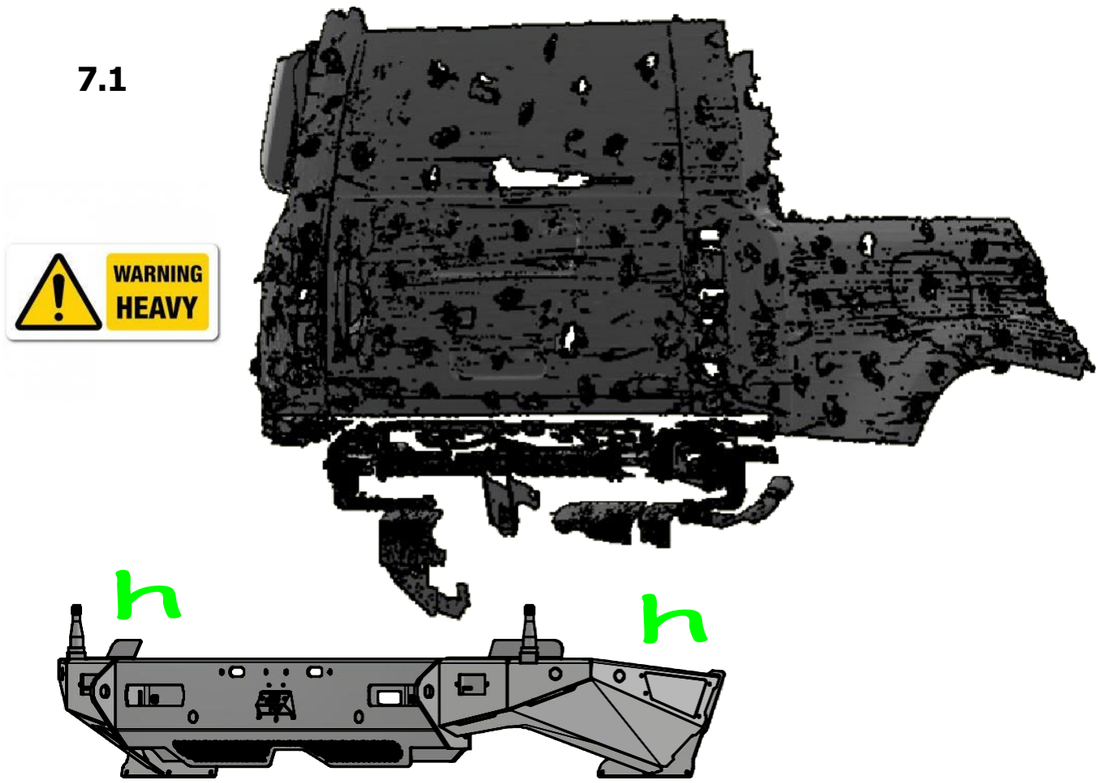




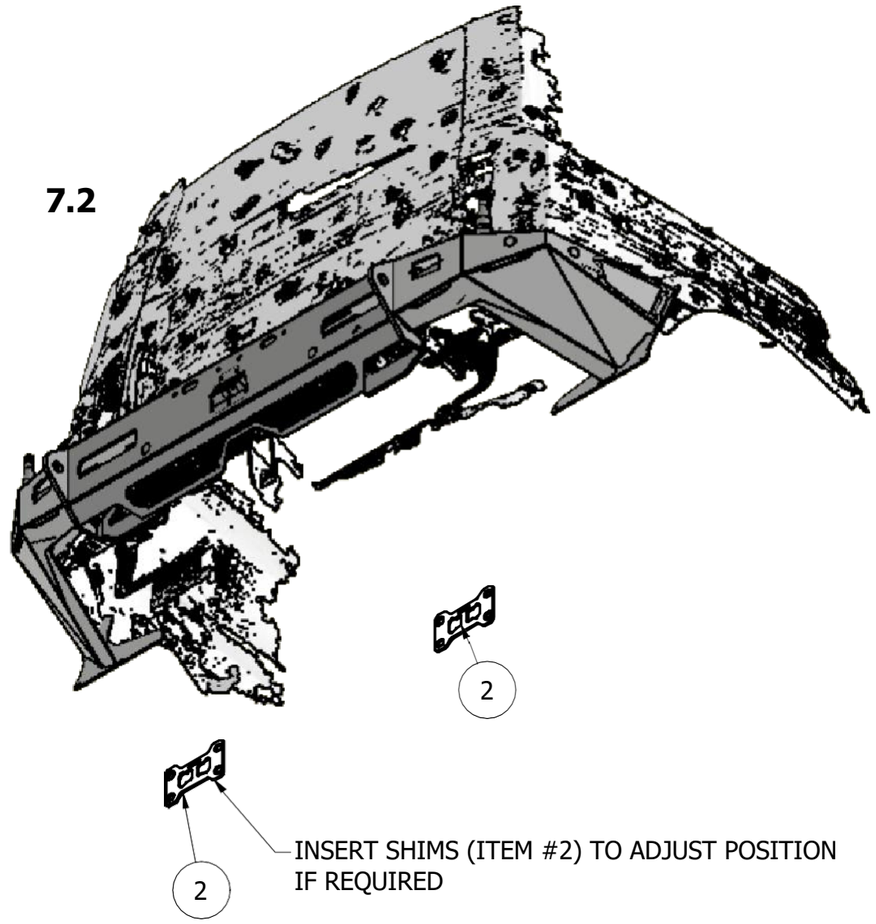
7. REAR BAR INSTALL

FITTING THE REAR BAR TO THE VEHICLE

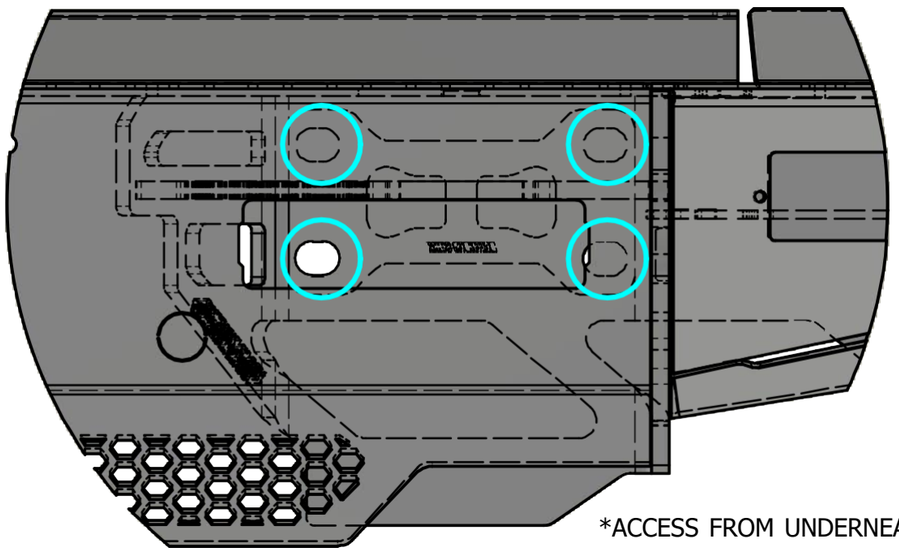
7.1



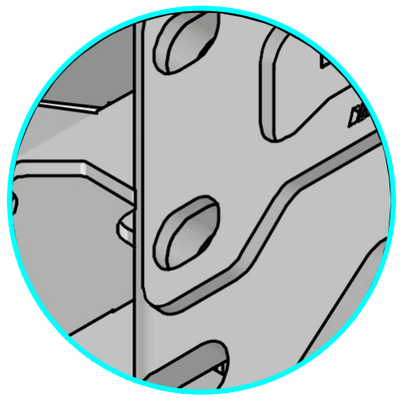
7.2



7.3



*ACCESS FROM UNDERNEATH



USE BOLTS REMOVED FROM FACTORY TOW POINTS FOR HOLES MARKED BLUE

8. REAR BAR INSTALL

FINAL STEPS

8.1. Plug in the previously prepared wiring and test lights.

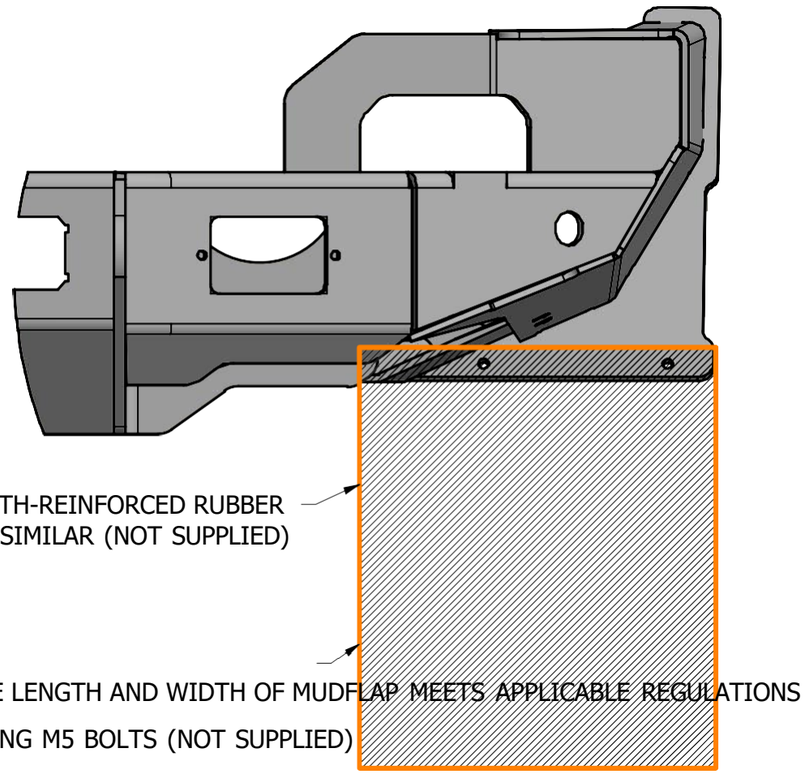
8.2. Plug in the radars.

8.3. Plug in the bumper sensor loom.

8.4 Reconnect camera washer hose.

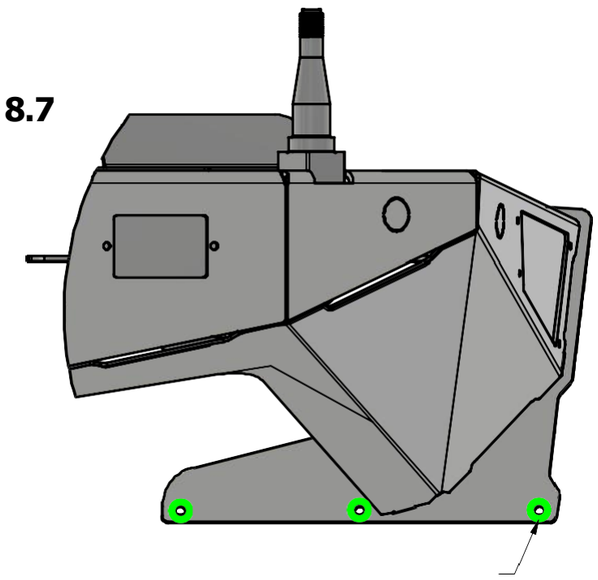
8.5. Trim and cable tie fuel filler breather line.

8.6



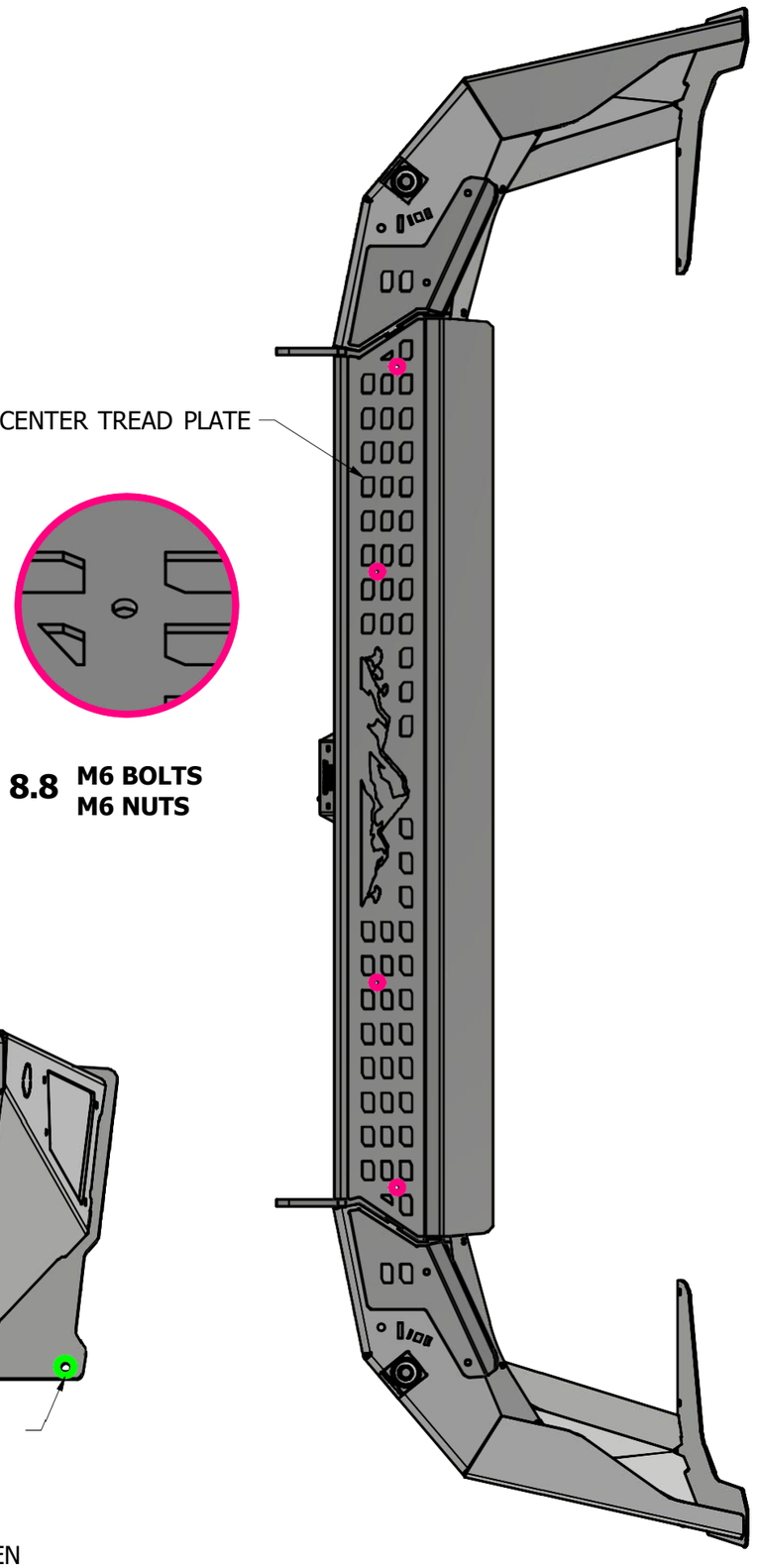
NOTE: IT CAN BE A GOOD IDEA TO ALSO MOUNT THE GUARD LINER TO THE MUDFLAP MOUNTS.

8.7



IN HOLES MARKED GREEN

8.8 **M6 BOLTS**
M6 NUTS



TCC LATCH ASSEMBLY

ASSEMBLY INSTRUCTIONS

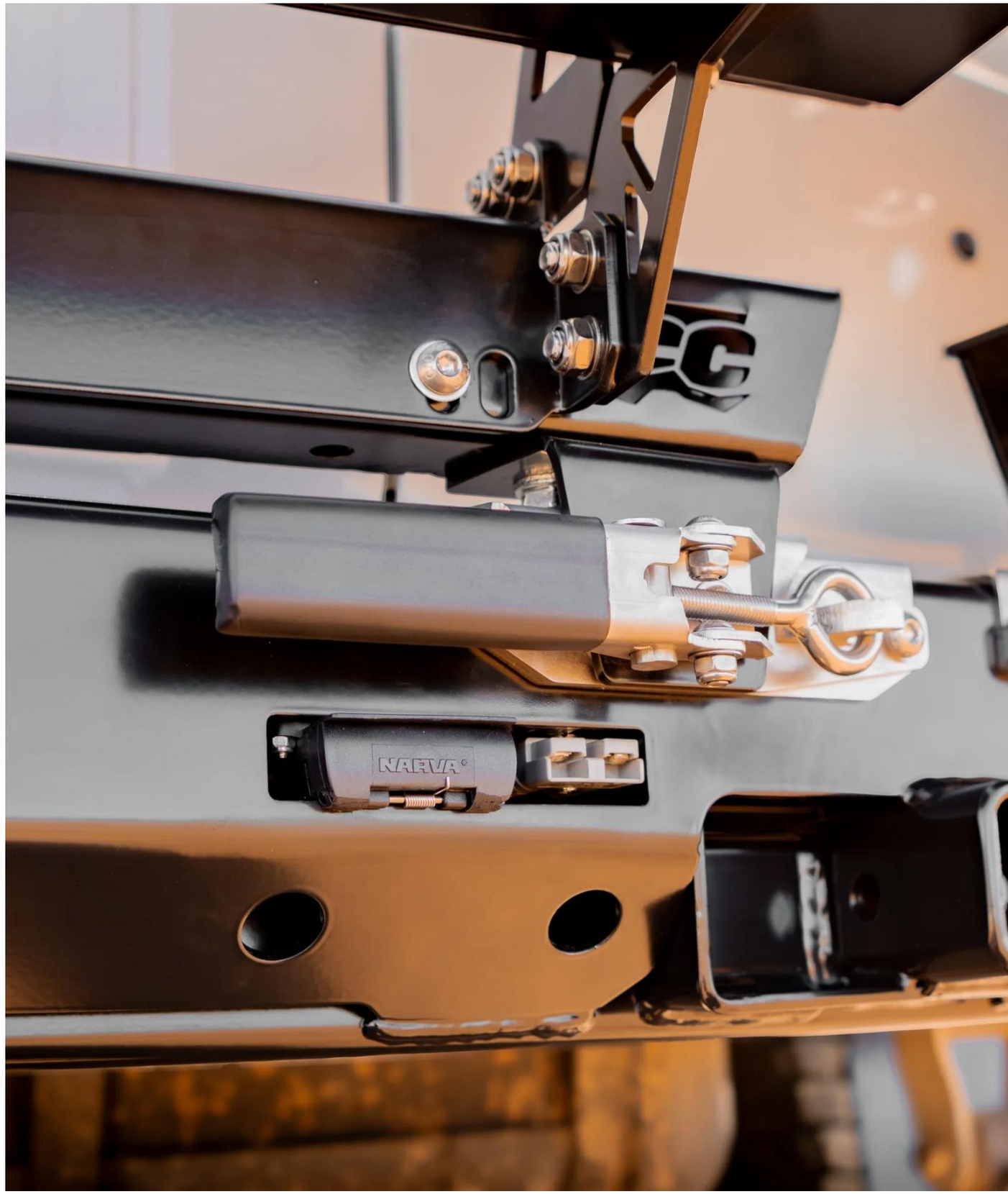
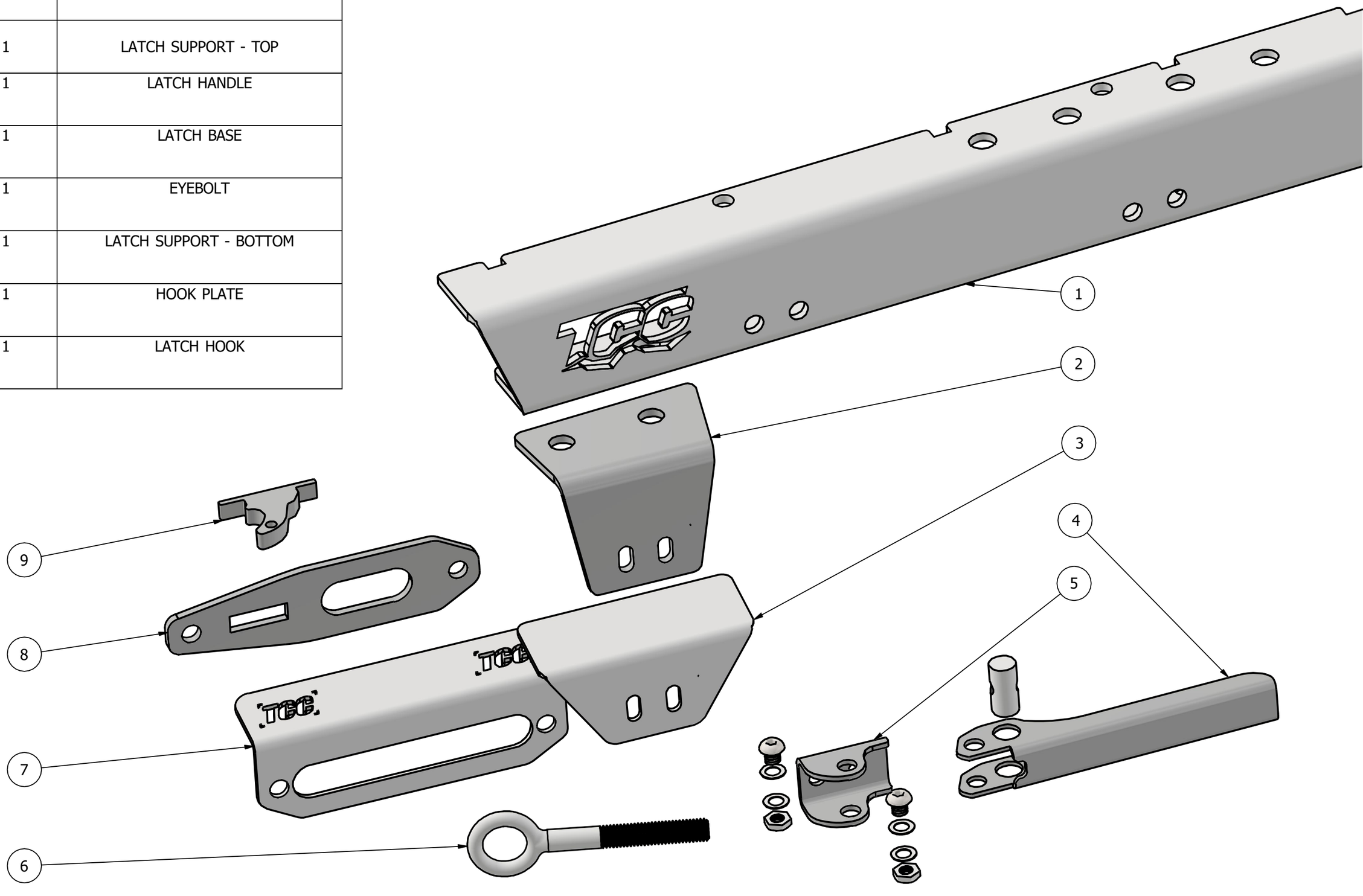


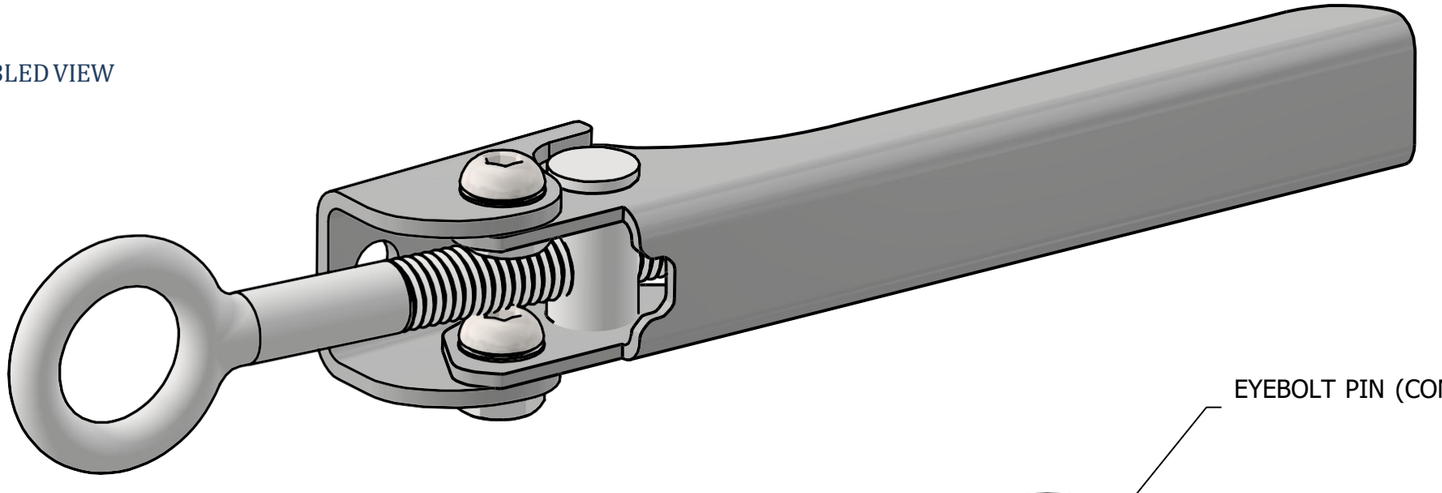
TABLE		
ITEM	QTY	ITEM NAME
1	1	TCC CARRIER ARM
2	1	LATCH DROP DOWN
3	1	LATCH SUPPORT - TOP
4	1	LATCH HANDLE
5	1	LATCH BASE
6	1	EYEBOLT
7	1	LATCH SUPPORT - BOTTOM
8	1	HOOK PLATE
9	1	LATCH HOOK



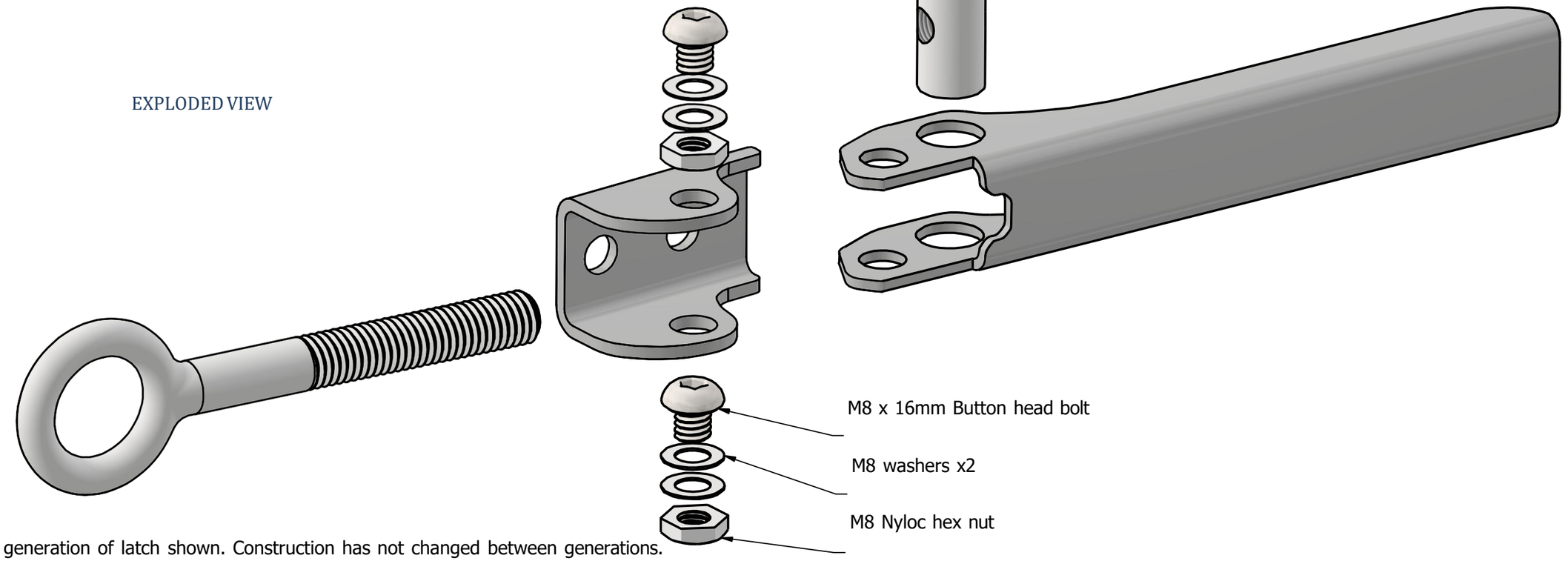
1. LATCH ASSEMBLY

1.1 Your latches will arrive pre-assembled. The diagram below shows how the latches are constructed in the rare event that they require reassembly. Please use Loctite on all fasteners if reassembling.

ASSEMBLED VIEW



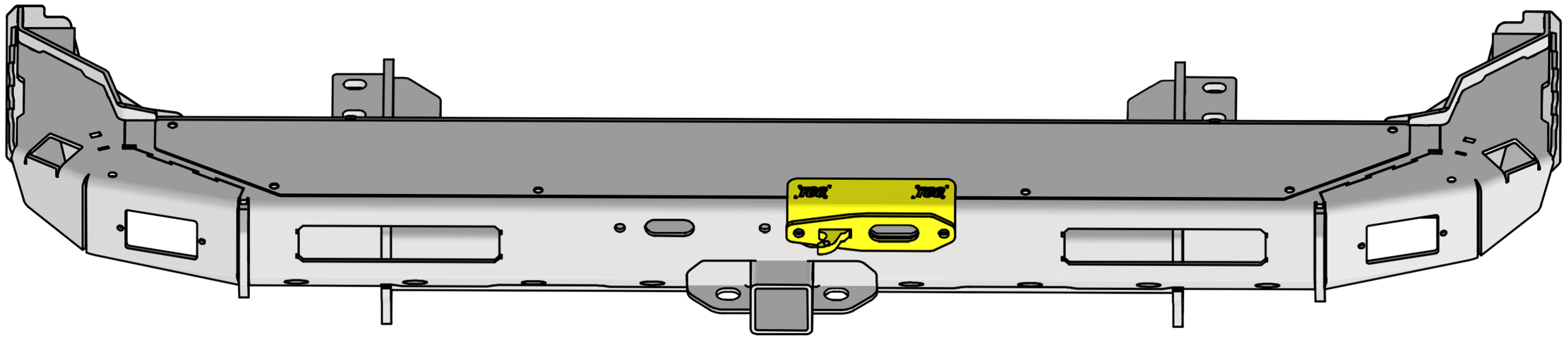
EXPLODED VIEW



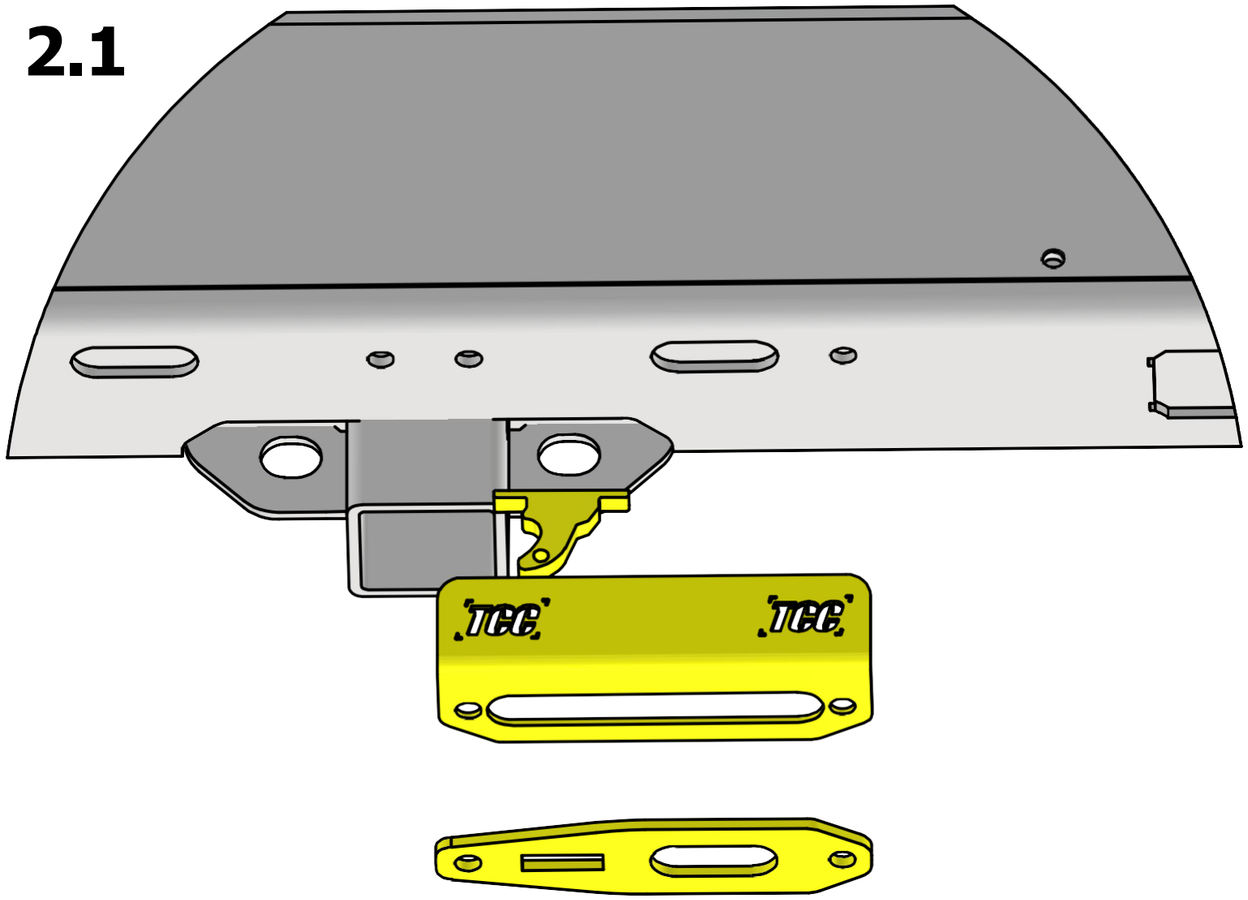
please note: previous generation of latch shown. Construction has not changed between generations.

2. JOINING LATCH TO REAR BAR

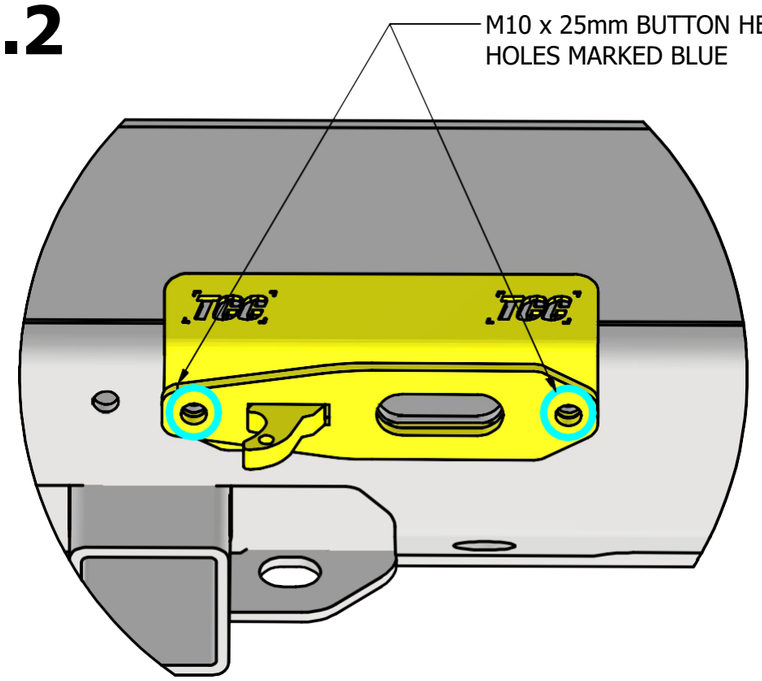
BAR BASE



2.1



2.2



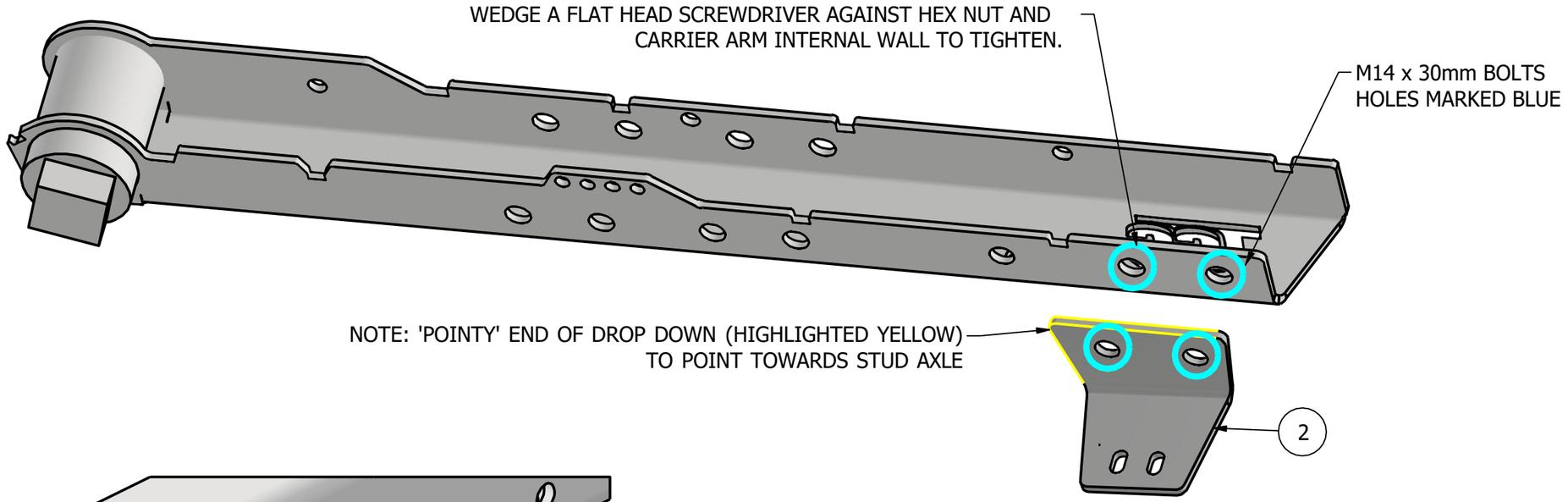
NOTE ORIENTATION OF ALL PARTS SHOWN

3. JOINING LATCH TO REAR BAR

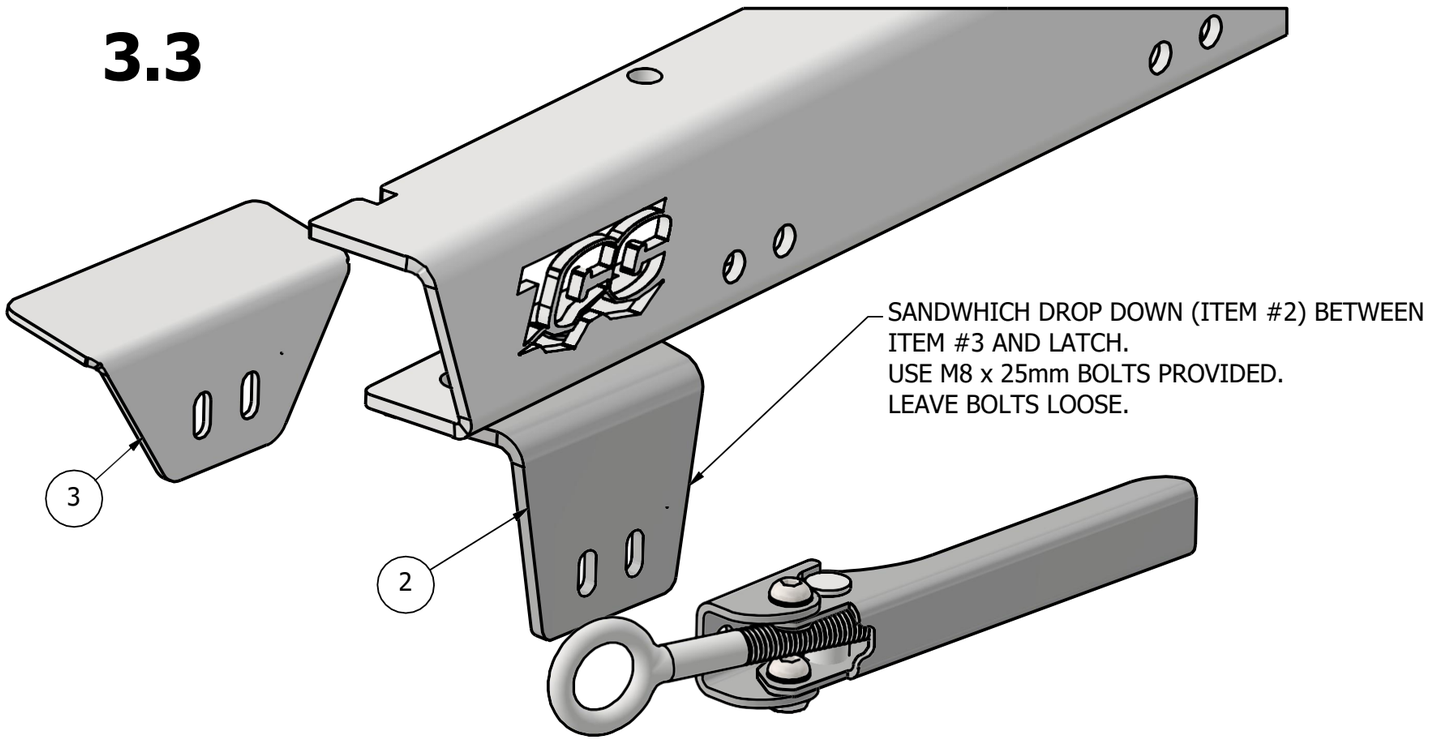
CARRIER ARM

3.1 Please ensure carrier arm is installed to bar base before proceeding to this step.

3.2 REAR VIEW OF PASSENGER SIDE ARM



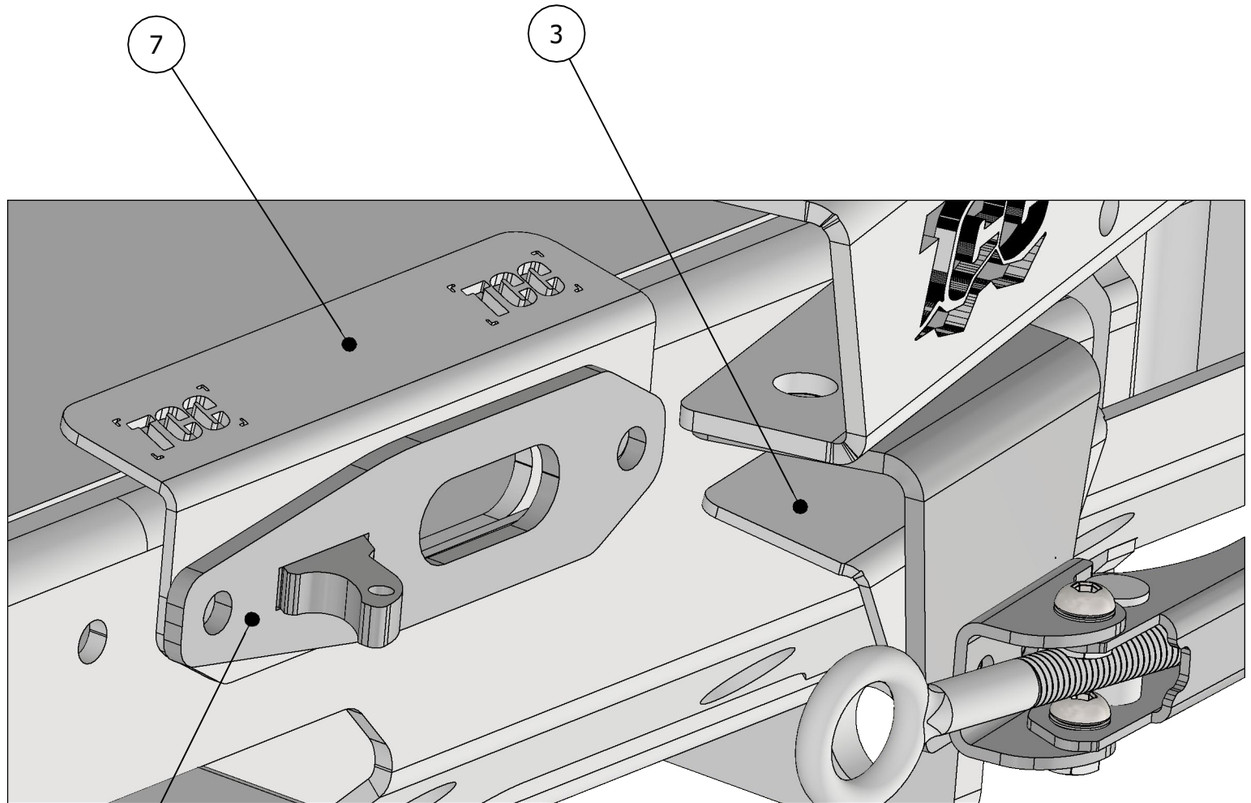
3.3



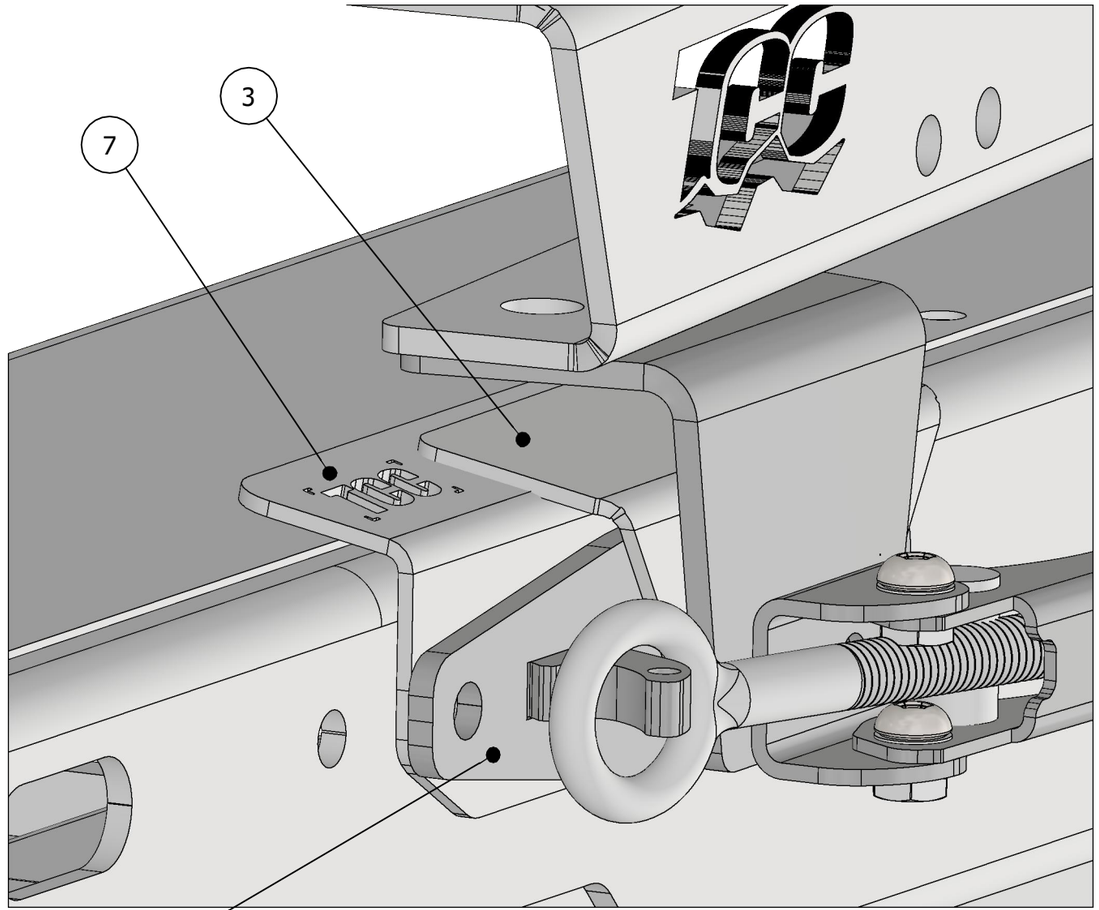
3. JOINING LATCH TO REAR BAR

CARRIER ARM

3.4 With latch M8 x 25mm bolts loose, open and close carrier arm. Nuts on the M8 x 25mm bolts should not interfere on the hook plate (**ITEM #8**). Top support plate (**ITEM #3**) should be adjusted in a way that friction is felt between it & **ITEM 7** when closed. Apply a small amount of lubricant between **ITEM #3** & **ITEM #7**.



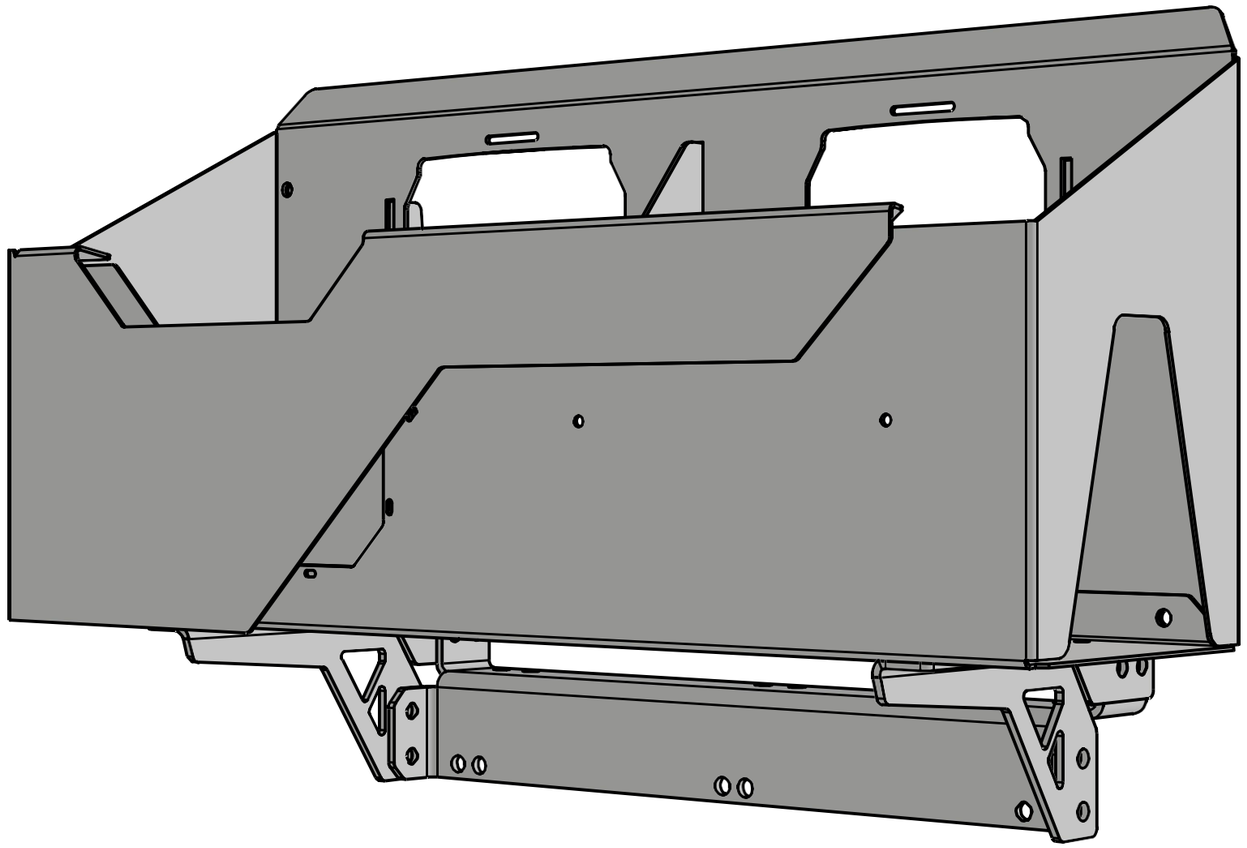
CARRIER ARM OPEN

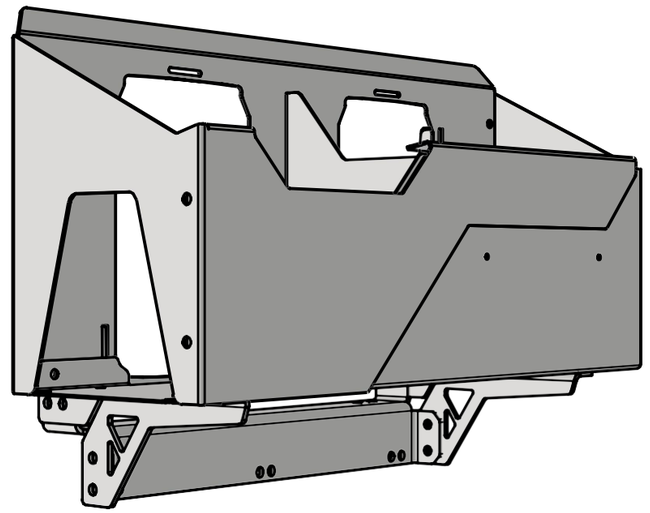


CARRIER ARM CLOSED

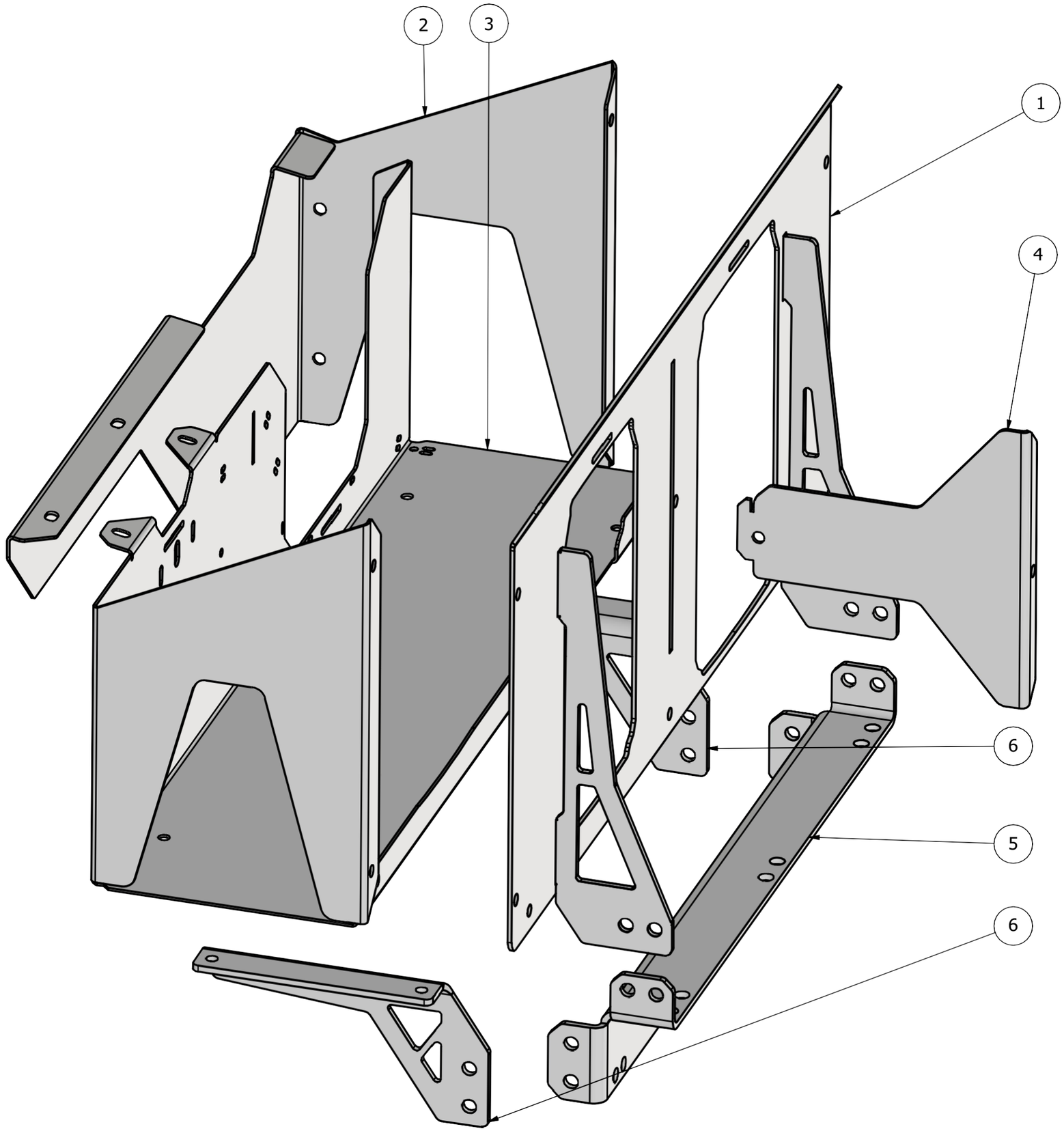
TCC JERRY/GAS HOLDER

ASSEMBLY INSTRUCTIONS



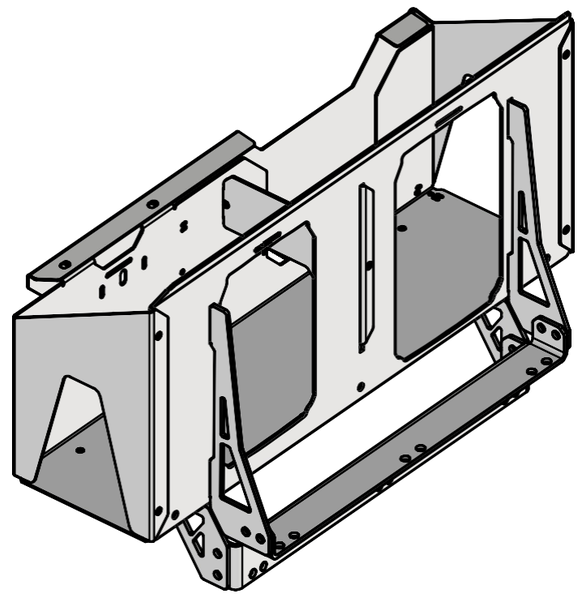


AUSTRALIAN MADE



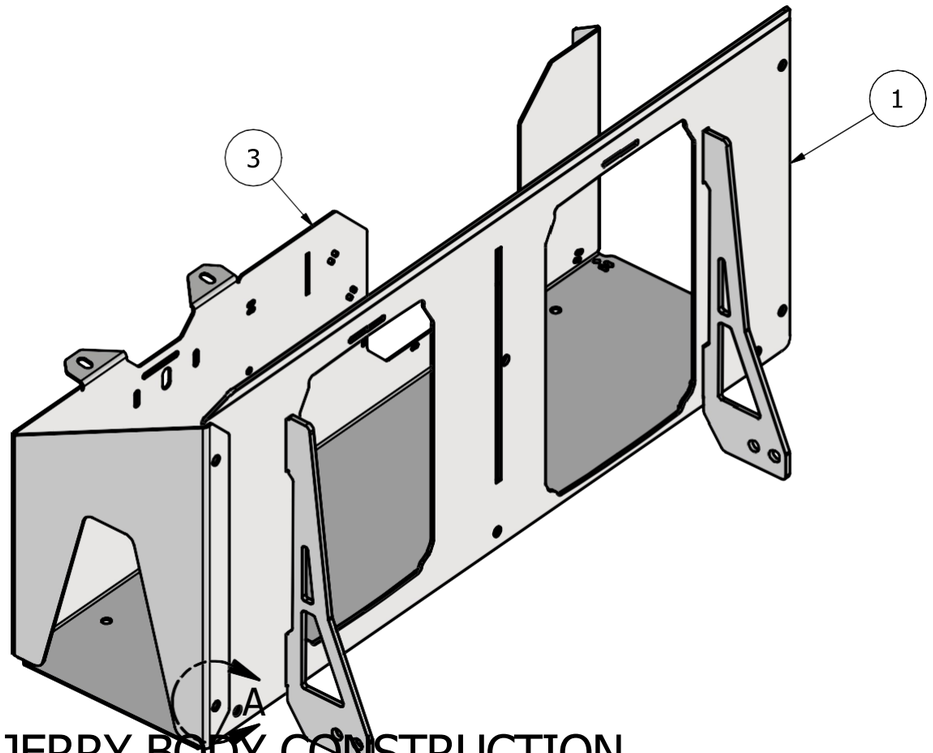
PARTS LIST		
ITEM	QTY	DESCRIPTION
1	1	JERRY BACKING
2	1	JERRY FRONT COVER
3	1	JERRY INTERNAL
4	1	JERRY DIVIDER
5	1	UNIVERSAL SHELF BASE
6	2	JERRY LOWER GUSSET

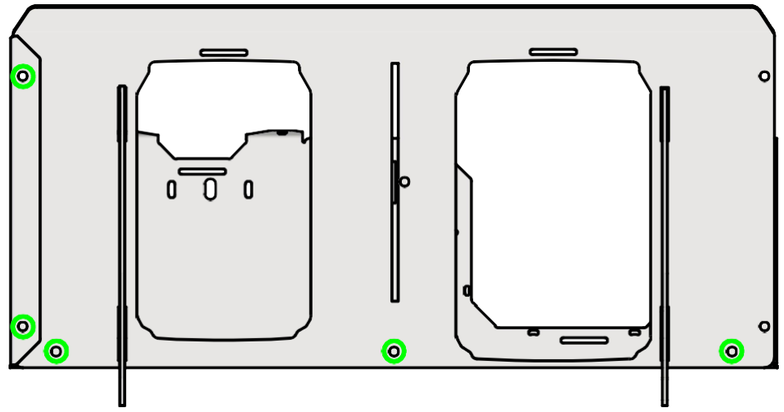
HARDWARE KIT (INCLUDED)	
QTY	DESCRIPTION
8	M10 X 25mm BUTTON HEAD BOLTS
6	M10 X 20mm BUTTON HEAD BOLTS
28	M10 WASHERS
14	M10 NUTS
16	M8 x 20mm BUTTON HEAD BOLTS
32	M8 WASHERS
16	M8 NUTS



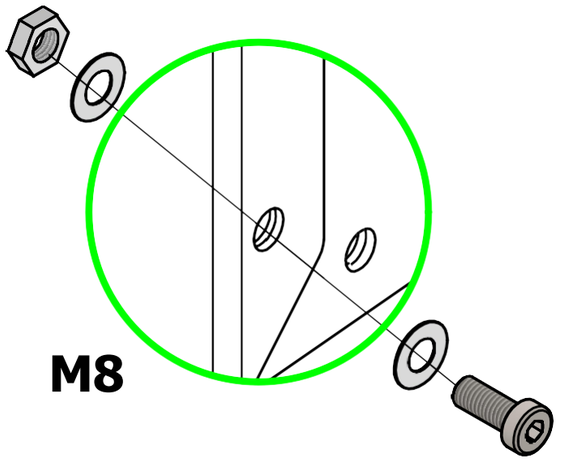
FULLY ASSEMBLED

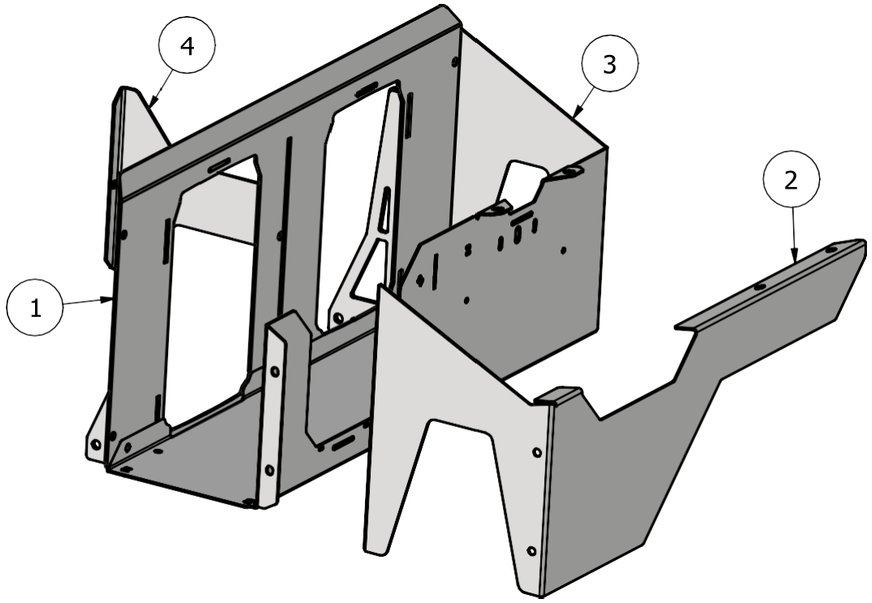
1. JERRY BODY CONSTRUCTION

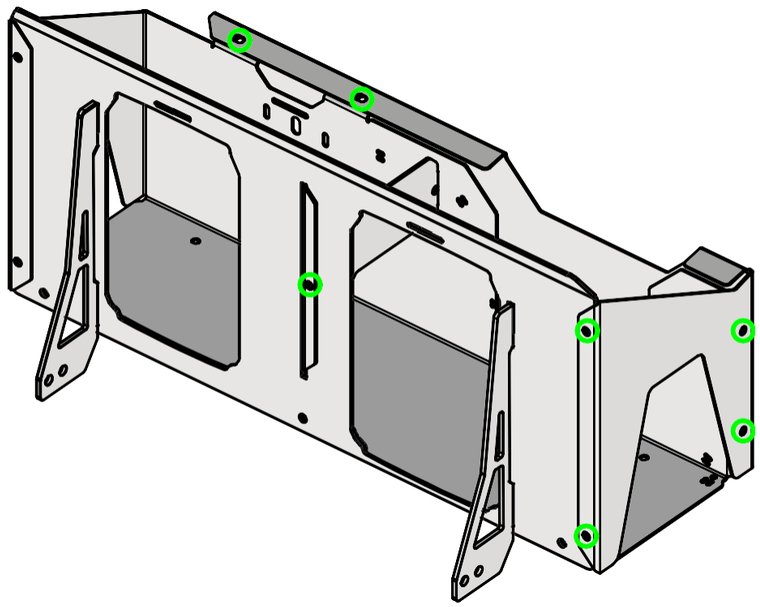




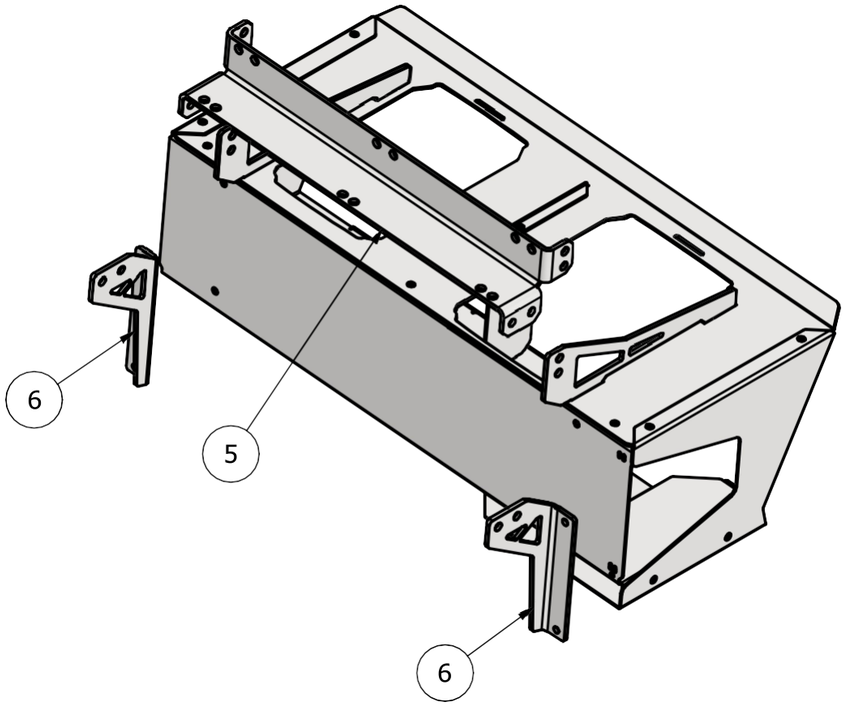
2. JERRY BODY CONSTRUCTION

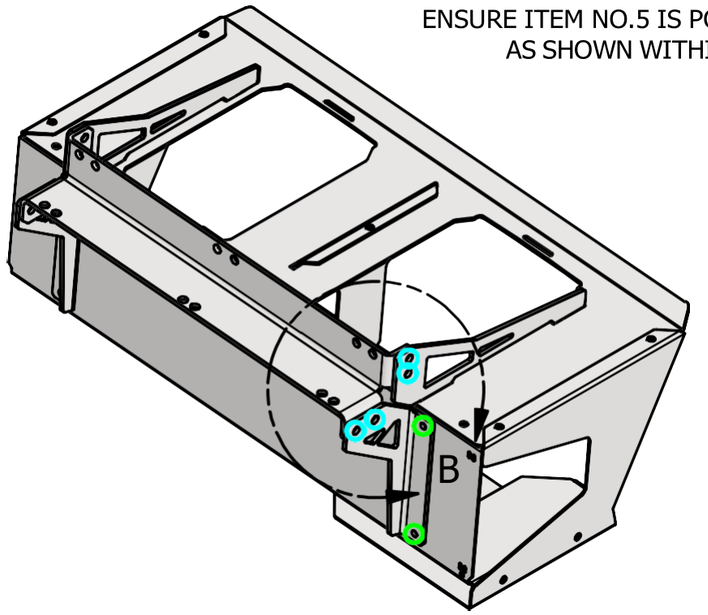




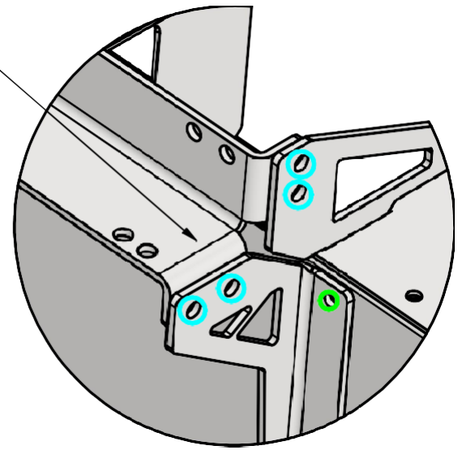


3. ATTACH UNIVERSAL MOUNT

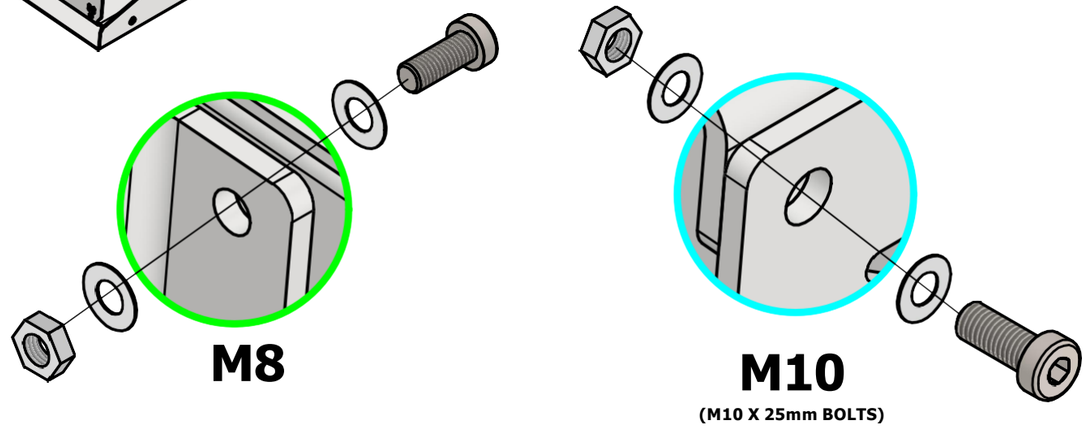




ENSURE ITEM NO.5 IS POSITIONED AS SHOWN WITHIN MOUNTS



DETAIL B



4. ATTACH ASSEMBLY TO CARRIER ARM

