TCC LC 100 & 105 REAR BAR

TECHNICAL DATA SHEET & FITTING INSTRUCTIONS

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

PLEASE NOTE: While the fitting procedure shown in this manual applies to both the LC100 & LC105 rear bars, these products **cannot** be swapped between vehicles. Please ensure you purchase the correct bar for your vehicle.



*Note: Roadmaster Combination Led Lamps
wire color codes: Ground - White
Stop - Red
Tail - Brown

Indicator - Green or Yellow

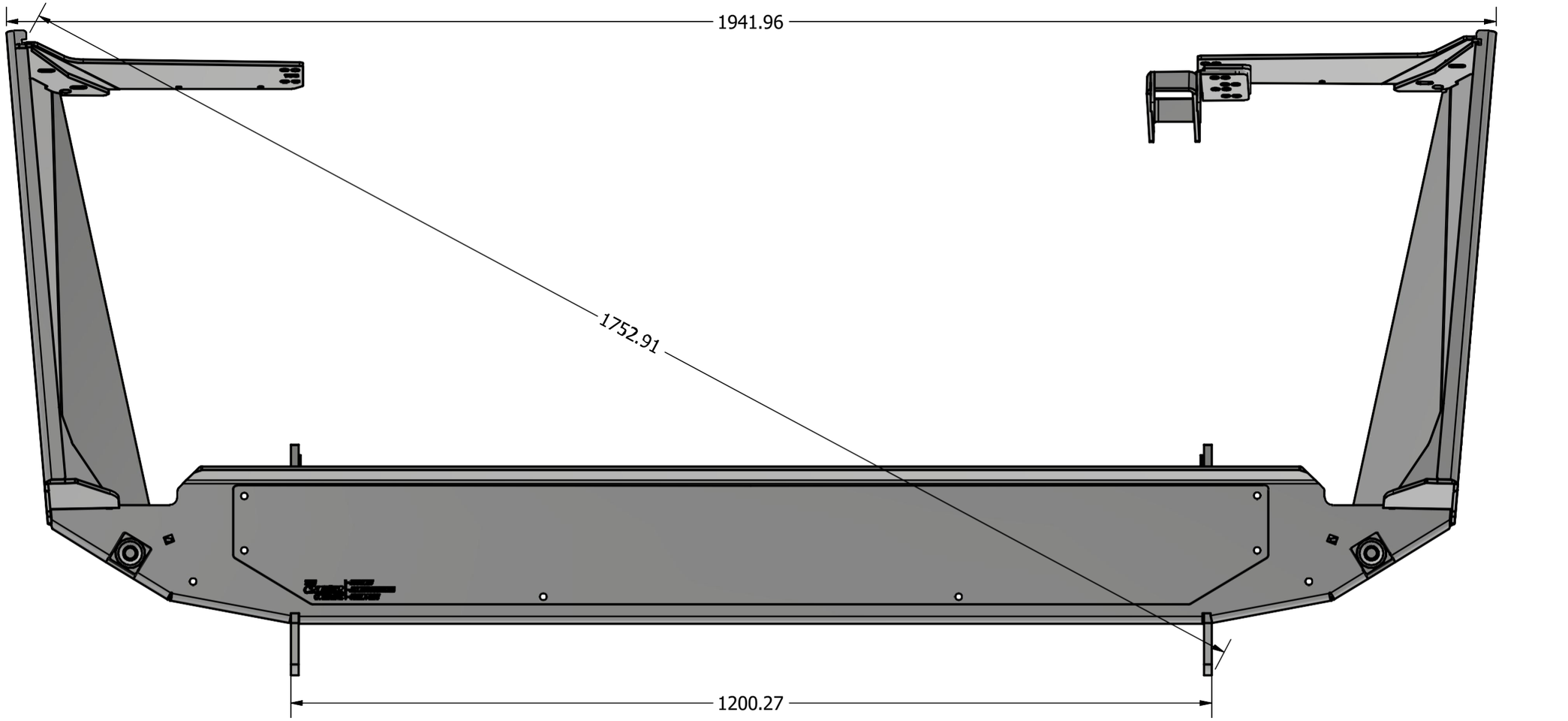
AUSTRALIAN MADE

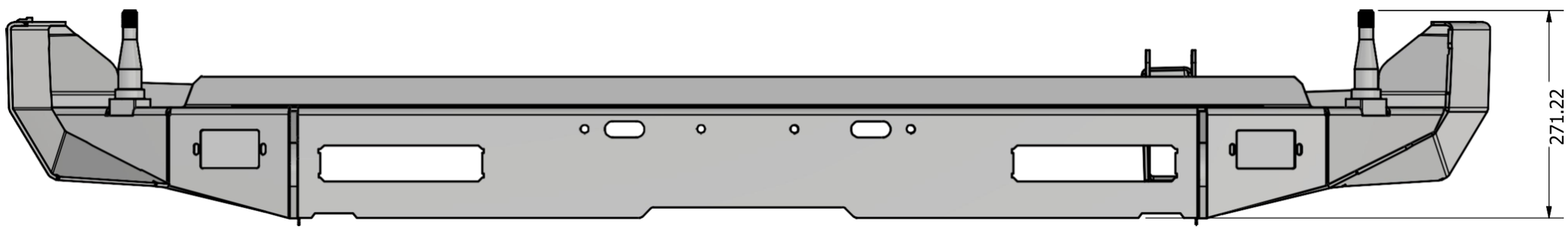
GENERAL DIMENSIONS

ALL UNITS IN MM

EXTERNAL/ INTERNAL REFERS TO START & END POINTS FOR MEASUREMENT

LC105 BAR SHOWN

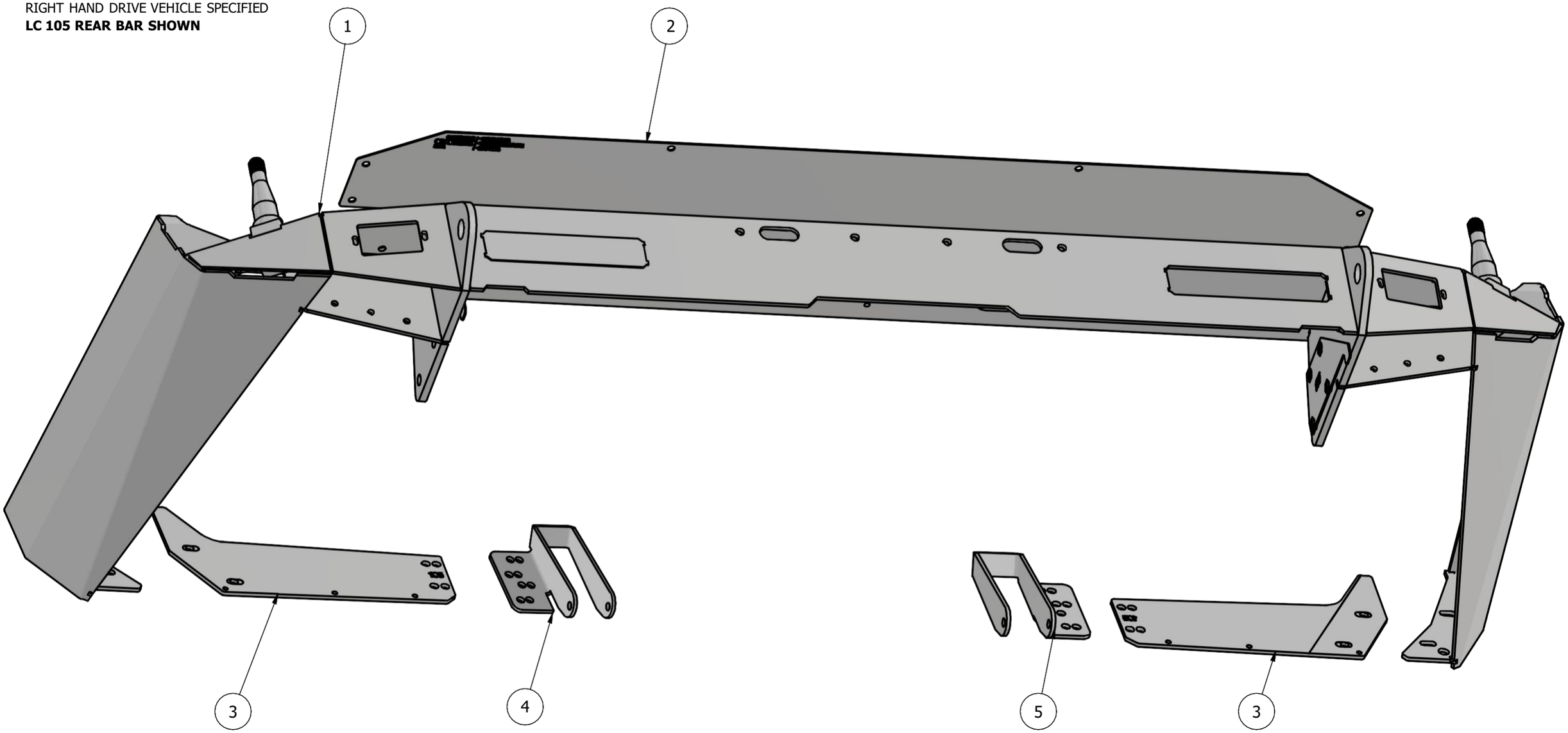




BAR BASE ASSEMBLY

PARTS LIST		
ITEM	QTY	PART NAME
1	1	LC 100 / 105 REAR BAR BASE
2	1	TREAD PLATE
3	2	WING TO CHASSIS BRACE
4	1	CHASSIS CLAMP (PS)
5	1	CHASSIS CLAMP (DS)

* DS = DRIVERS SIDE
PS = PASSENGER SIDE
RIGHT HAND DRIVE VEHICLE SPECIFIED
LC 105 REAR BAR SHOWN



1. PREPARING FOR INSTALL

TOOLS REQUIRED

NOT INCLUDED

SIKAFLEX
ALLEN KEY SET
SPANNER SET (UP TO 22MM)
SOCKET SET (UP TO 22MM)
SHIFTER
PINCHWELD
12V WIRING EQUIPMENT (SOLDERING IRON ETC)
5 CORE TRAILER WIRE (APPROX. 2 METERS)
LOCTITE
BEARING GREASE
BASIC CLIP REMOVAL TOOLS
OSCILLATING MULTITOOL
SIKAFLEX OR SIMILAR

VEHICLE SPECIFIC MOUNTING HARDWARE

HARDWARE	QTY	POSITION
M10 x 1.5 x 80mm BOLTS	2	CHASSIS CLAMPS
M10 WASHERS	40	CHASSIS CLAMPS & WING TO CHASSIS BRACE & NUTPLATES
M10 x 1.5 HEX NUTS	10	CHASSIS CLAMPS & WING TO CHASSIS BRACE
100 / 105 SPECIFIC NUT PLATES	2	INTO CHASSIS
M10 x 35mm BOLTS	8	BOLT INTO NUT PLATES

WARNING! ONLY USE HARDWARE SUPPLIED.

Using aftermarket hardware my void warranty and damage vehicle. The Cruiser Company (TCC) will not be held liable for any damage the occurs as a result of incorrect fitting and/or hardware.

Please follow bolt grade and thread pitch requirements as shown in '*Vehicle Specific Mounting Hardware*' table above if replacing hardware lost during install.

Please use Loctite on all fasterners.

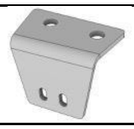


1. PREPARING FOR INSTALL

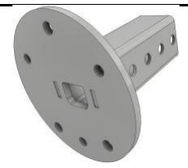
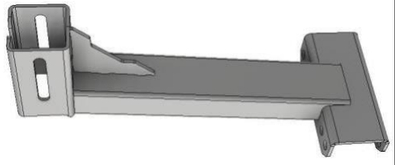
BAR BASE - DETAILED IN ASSEMBLY VIEW (PAGE 3)

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		

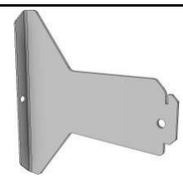
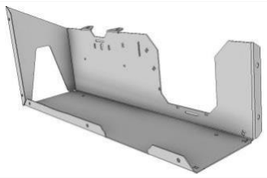
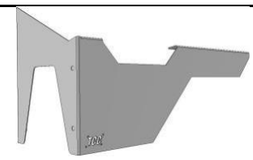
TYRE CARRIER

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

ACCESSORIES INCLUDED IN BOX

WHEN ORDERED IN A STANDARD CONFIGURATION

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 ** If you are having difficulty removing the bumper, there are many videos on Youtube that can help. Below is a simple step by step of the process for an LC100:**

2.1. Remove 4 x bolts on the underside of the factory rear bumper.

2.2 Remove 3 x bolts holding mudflap in place (each side).

2.3 With the aid of a second person, pop the bumper free from the body and place it in a safe location.

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.

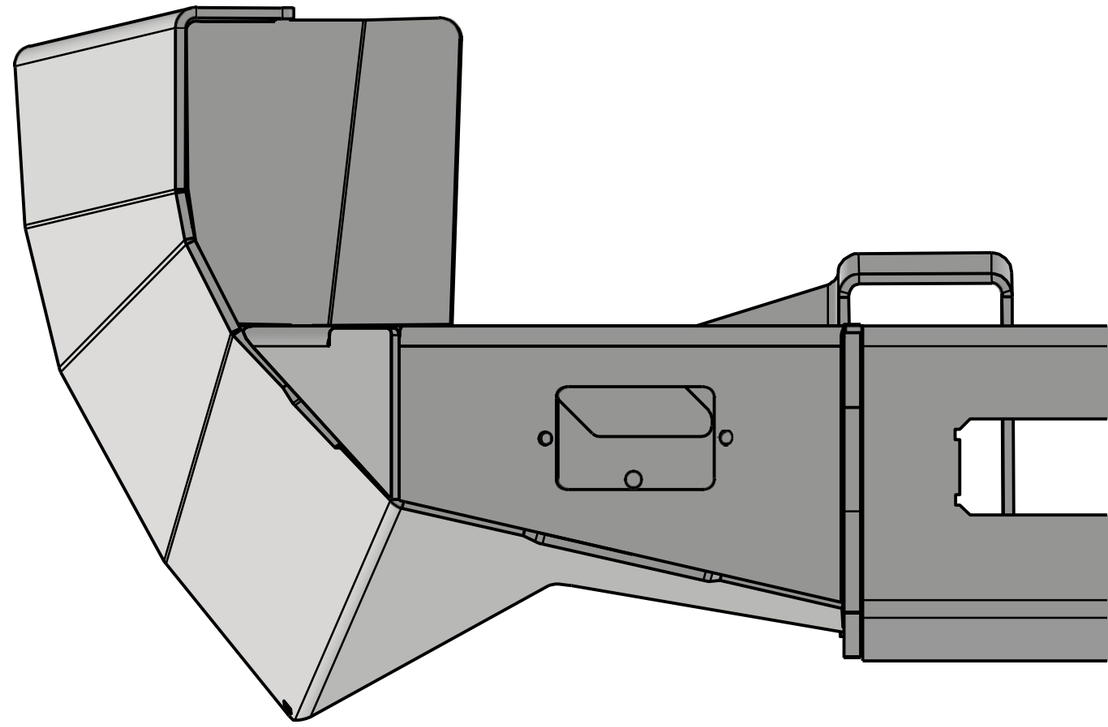
- Keep external joins and moving components properly protected with a lubricant such as Lanolin.

- 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. PREPARE CHASSIS

4.1. Your new TCC rear bar utilises exisiting holes on the LC105 & LC100 chassis (marked green arrows). To ensure strength and reliabilty of your rear bar, these holes must be drilled to **14mm** as shown in FIGURE 4.A. **DO NOT CUT OR GRIND CHASSIS RAILS.**



FIGURE 4.A (LC 100 shown for reference)

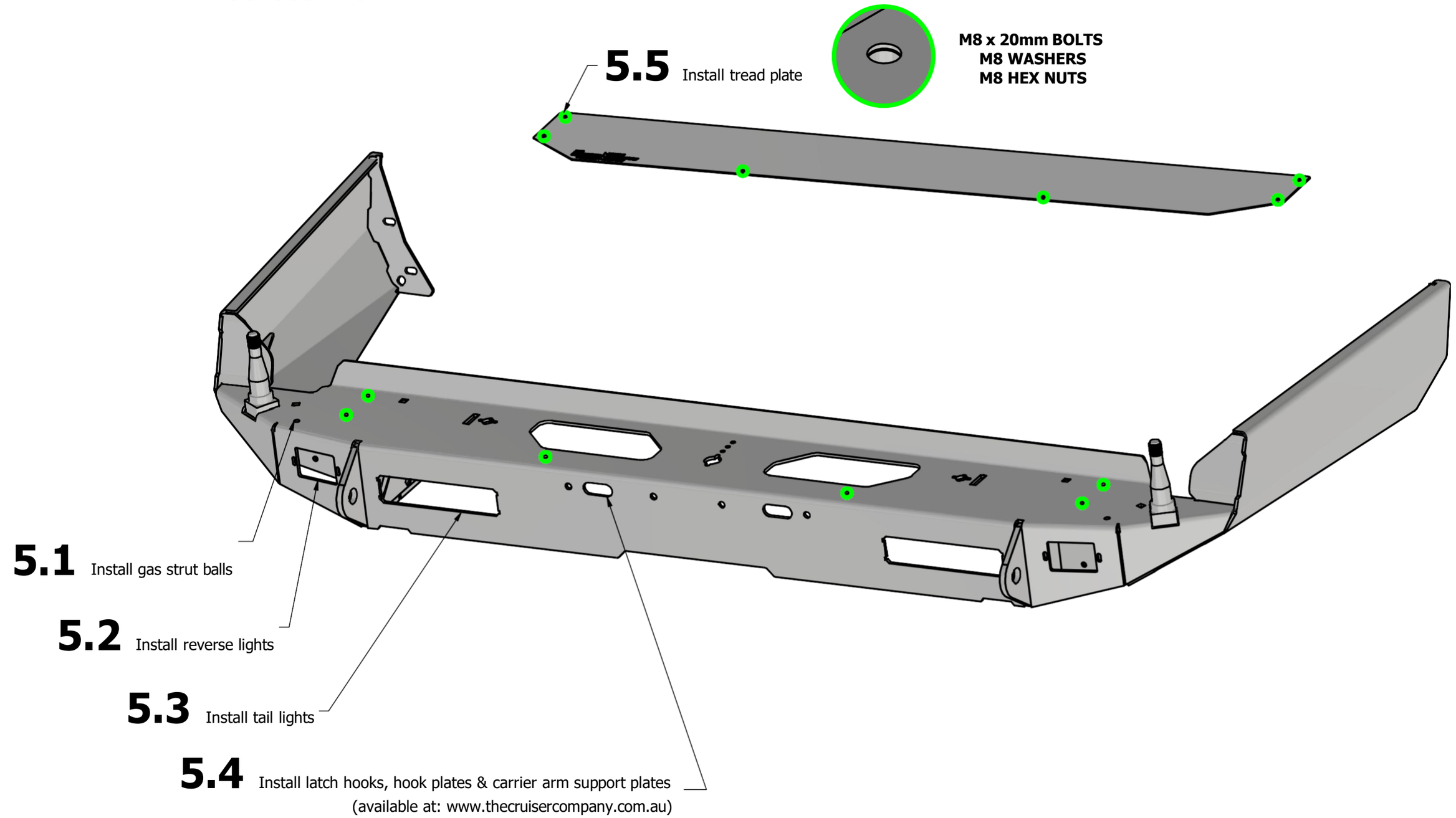
4.2. Please note that this process must be done for both the LC105 & LC100.

IMPORTANT! If fitting a TCC towbar incorporated rear bar - please refer to relevant instructions.

4.3. Insert nutplates into chassis. Ensure that holes line up and that flat surface of nutplate sits against chassis wall.

5. REAR BAR INSTALL

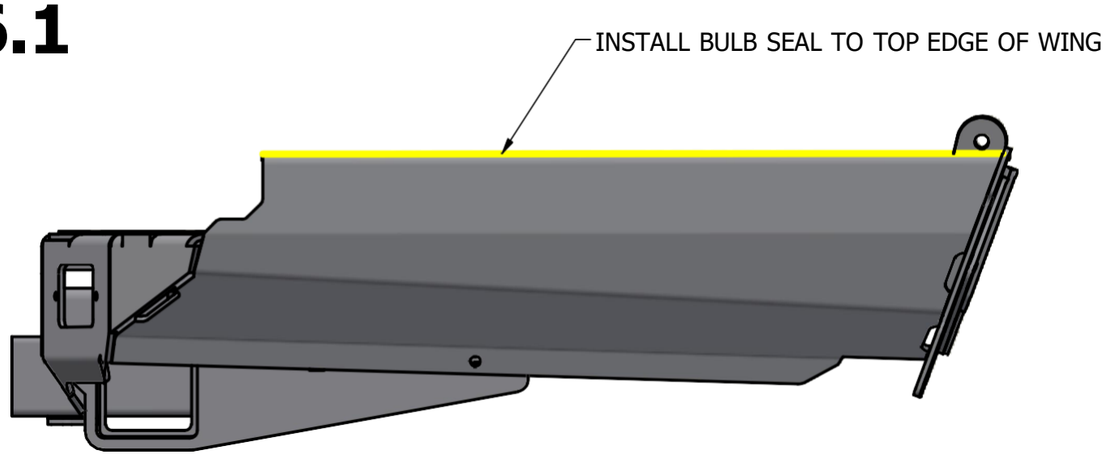
FITTING THE ACCESSORIES



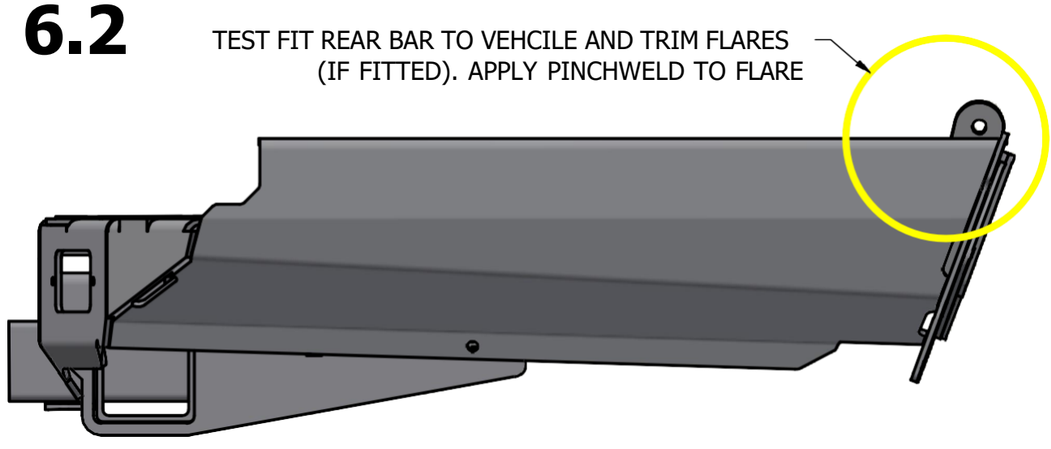
6. REAR BAR INSTALL

PREPARING FOR FITMENT TO THE VEHICLE

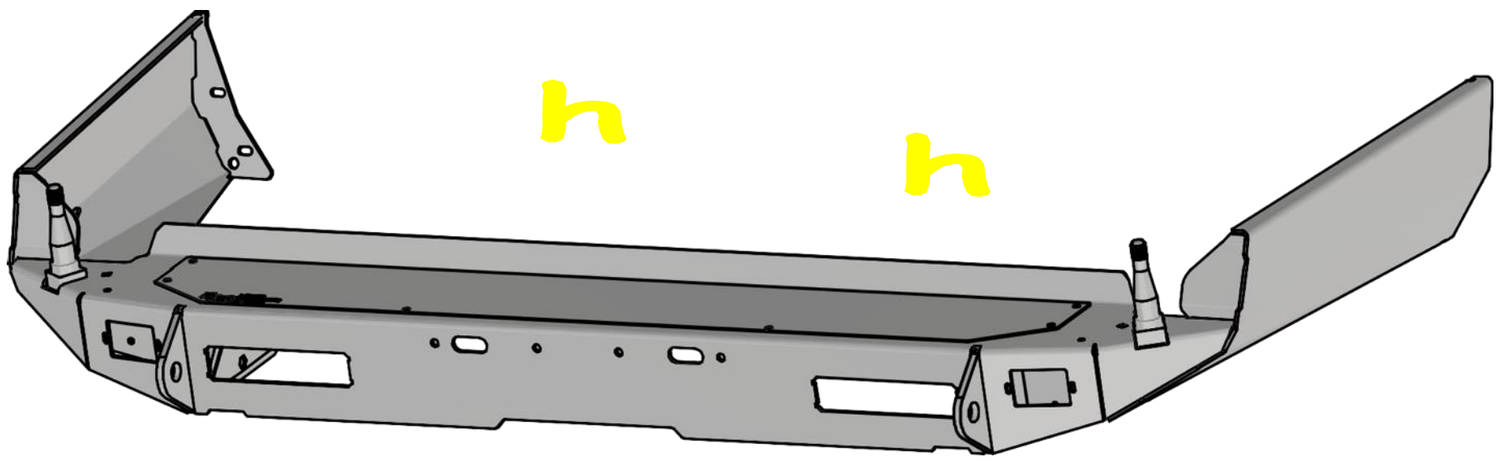
6.1



6.2



6.3 LIFT BAR ONTO VEHICLE

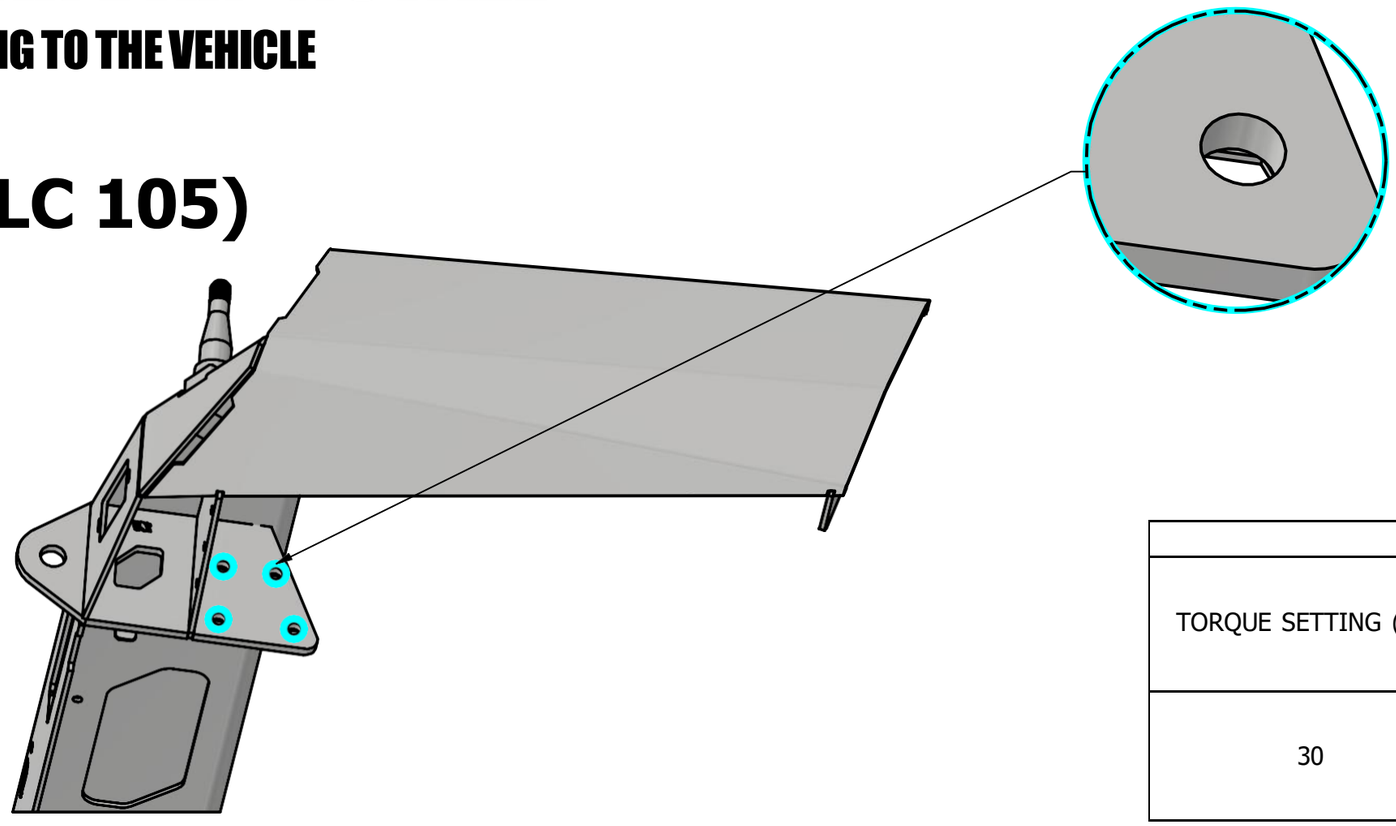




7. REAR BAR INSTALL

FITTING TO THE VEHICLE

7.1 (LC 105)

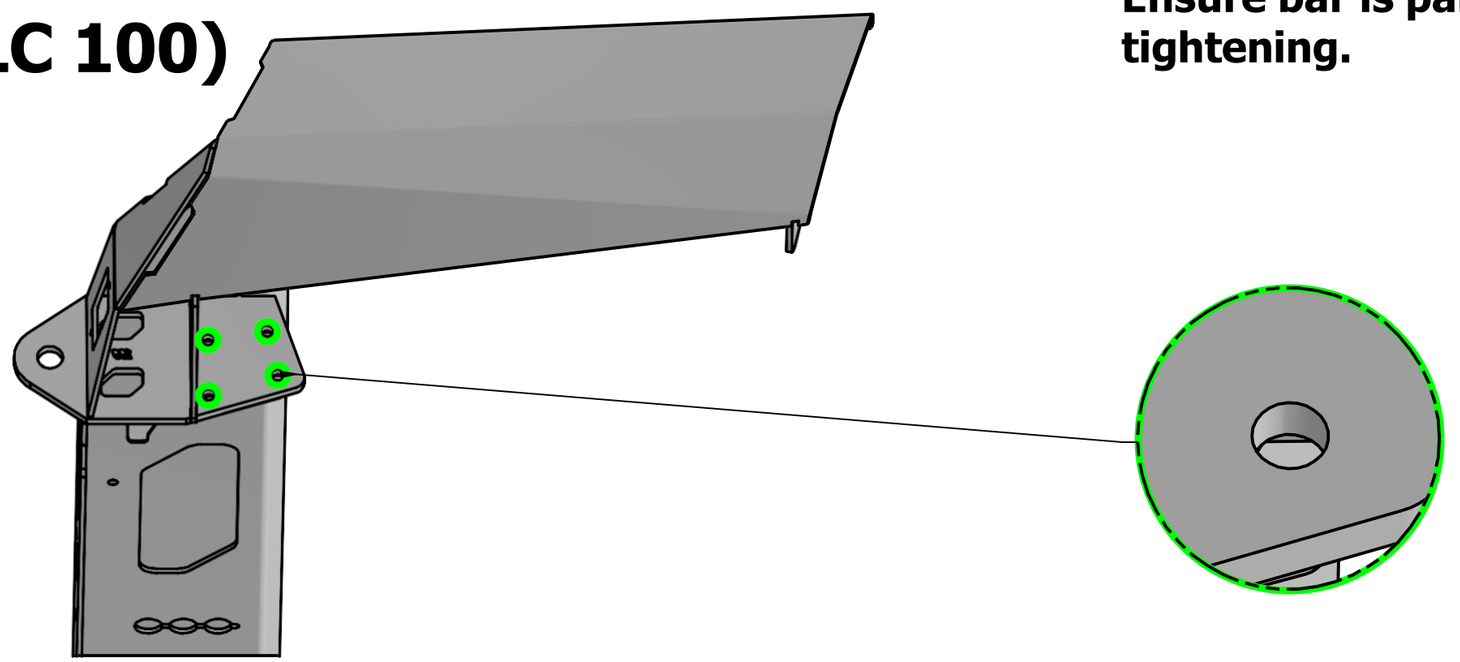


M10 x 35mm BOLTS
INTO 105 NUTPLATE
M10 WASHERS

MOUNTING BOLT TORQUE SPEC		
TORQUE SETTING (NM)	BOLT TYPE	LOCATION
30	M10 x 35mm	INTO NUTPLATES

**** TIP **** Leave bolts loose until all bolts installed. Ensure bar is paralell to body lines on vehicle before tightening.

7.1 (LC 100)

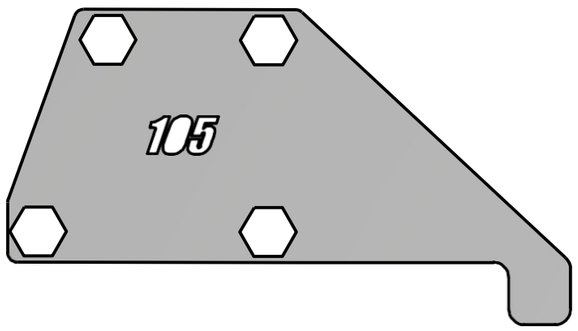


M10 x 35mm BOLTS
INTO 100 NUTPLATE
M10 WASHERS

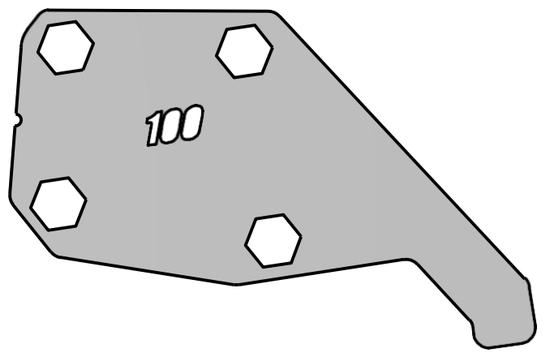
8. REAR BAR INSTALL

SHIMS

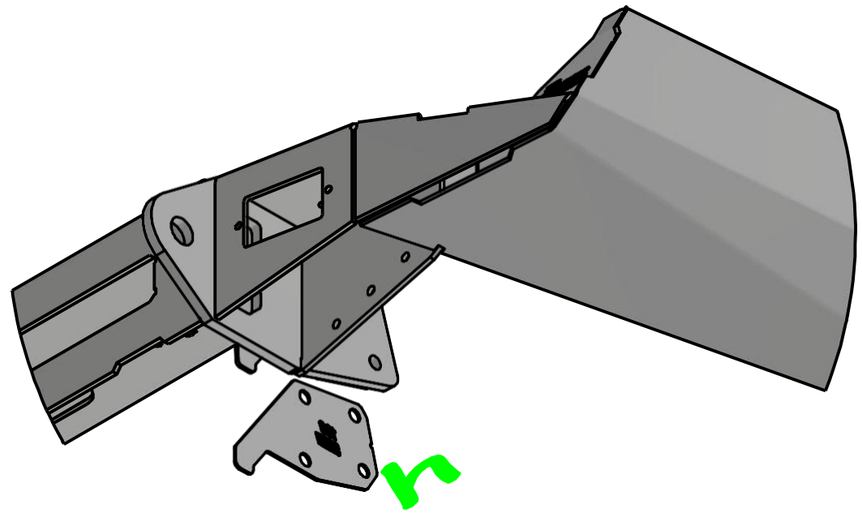
8.1 Due to varying vehicle ages and conditions, shims may be required as pictured below. Insert as many shims as possible between TCC rear bar chassis mount and chassis until TCC rear bar is parallel with body lines and centered on vehicle.



LC 105 SHIM



LC 100 SHIM



8.2 TCC rear bar should be positioned as shown:

LC 105



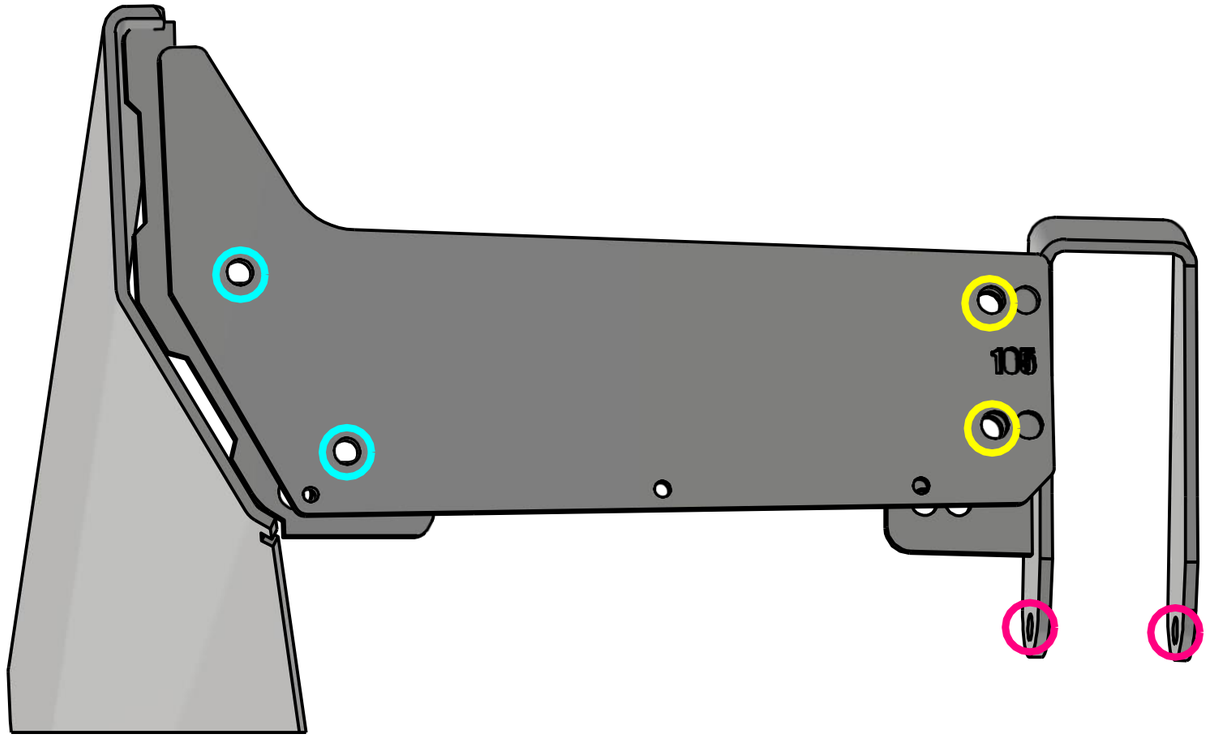
LC 100



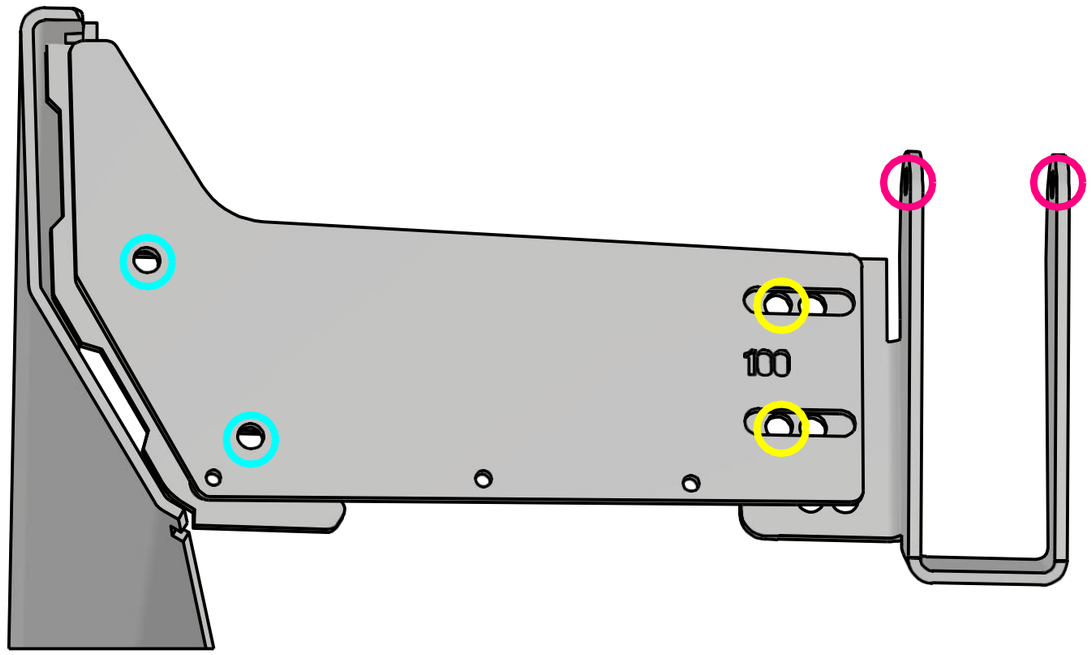
9. REAR BAR INSTALL

WING TO CHASSIS BRACES

LC 105

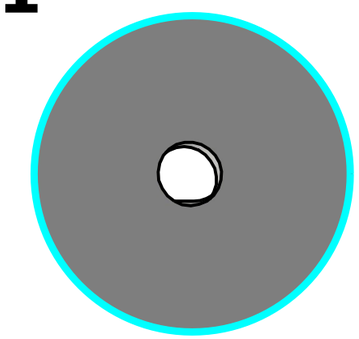


LC 100



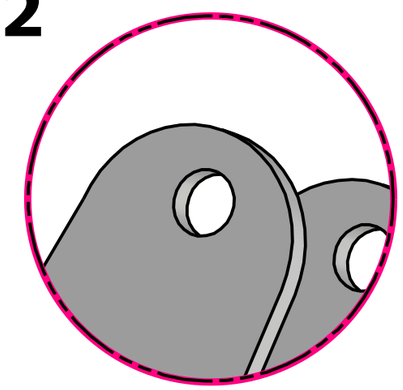
IMPORTANT! ENSURE BOLTS ARE ORIENTATED SO THAT
THEY DO NOT CONTACT THE TYRE WHEN VEHICLE IS FLEXED

9.1



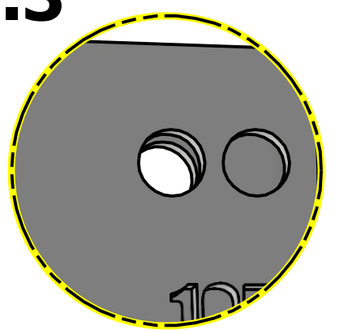
M10 x 35mm BOLTS
M10 WASHERS
M10 HEX NUTS

9.2



M10 x 80mm BOLTS
M10 WASHERS
M10 HEX NUTS

9.3



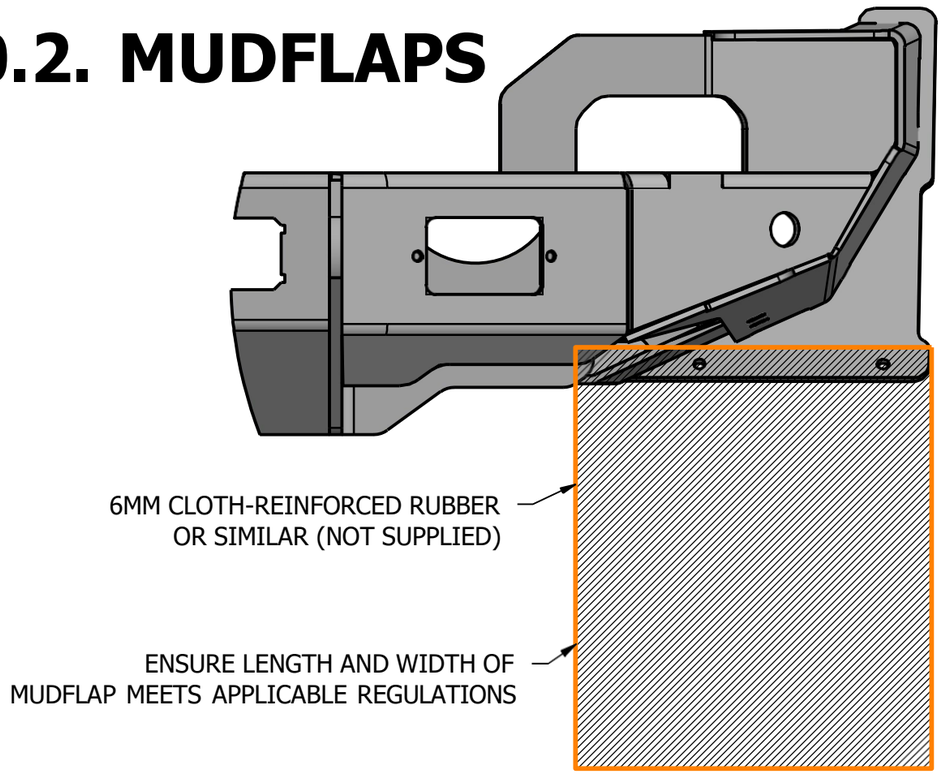
M10 x 35mm BOLTS
M10 WASHERS
M10 HEX NUTS

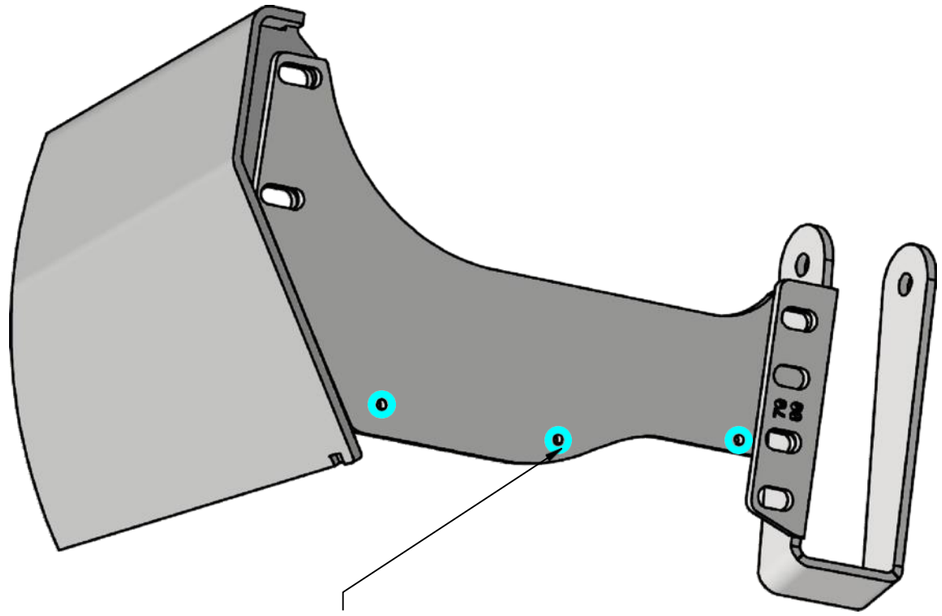
10. REAR BAR INSTALL

FINAL STEPS

10.1. Wiring for the lights can be tapped into the trailer plug. If unsure how to wire lights please seek an automotive professional.

10.2. MUDFLAPS





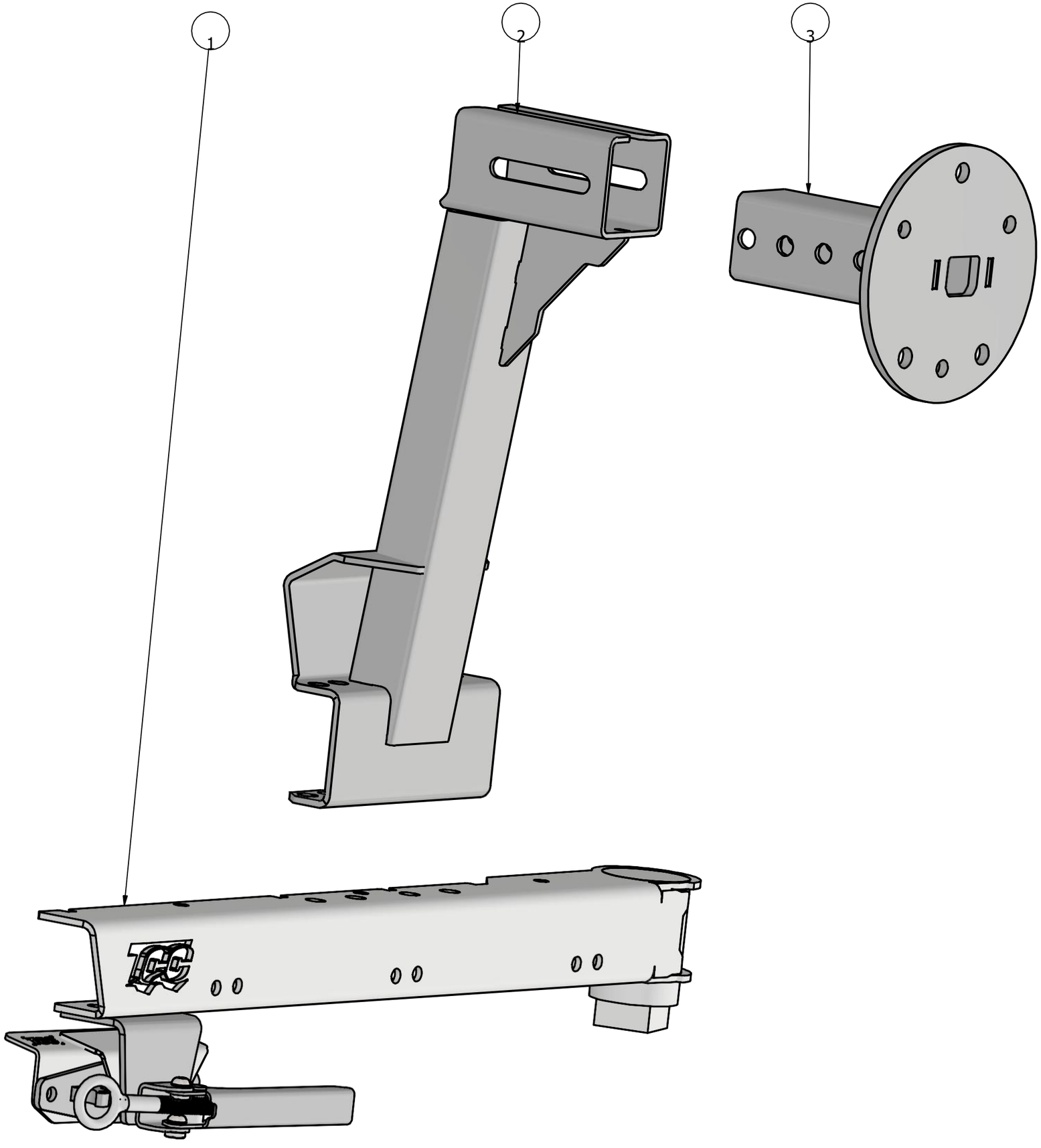
JERRY HOLDER, CARRIER ARM, LATCH & TYRE UPRIGHT INSTRUCTIONS FOUND AT:
www.thecruisercompany.com.au

TCC TYRE UPRIGHT & TYRE HEAD

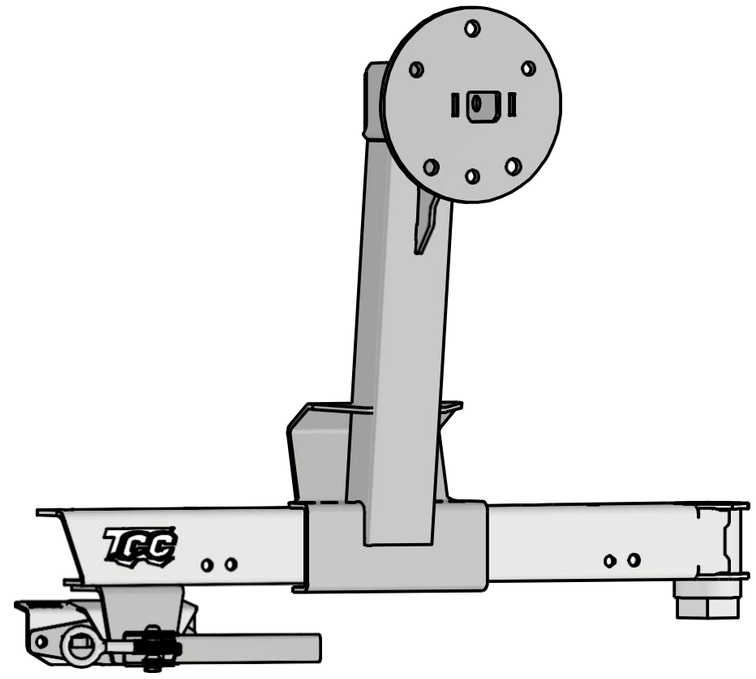
ASSEMBLY INSTRUCTIONS




AUSTRALIAN MADE



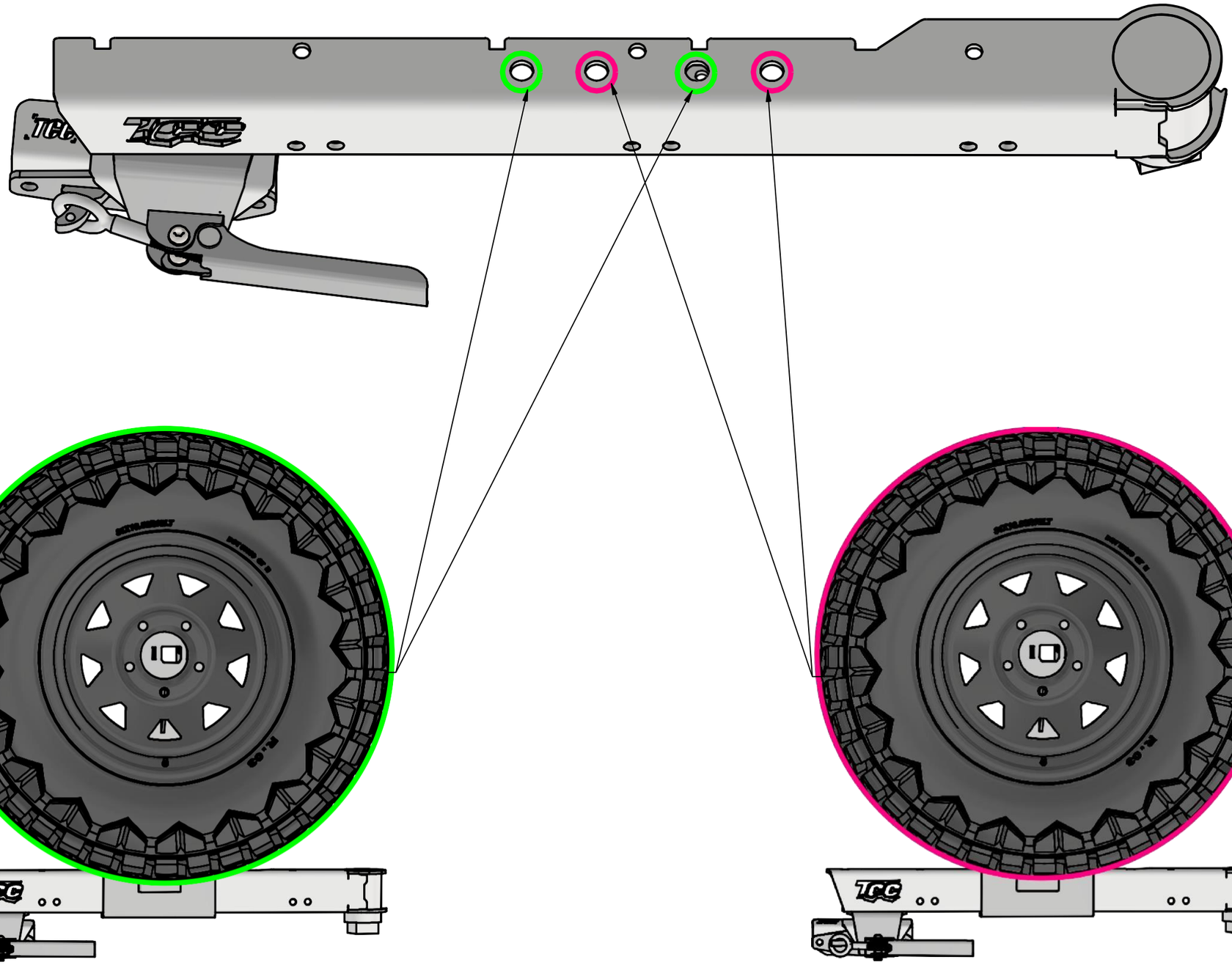
PARTS LIST		
ITEM #	QTY	PART NAME
1	1	TCC CARRIER ARM ASSEMBLY
2	1	TYRE UPRIGHT
3	1	TYRE HEAD



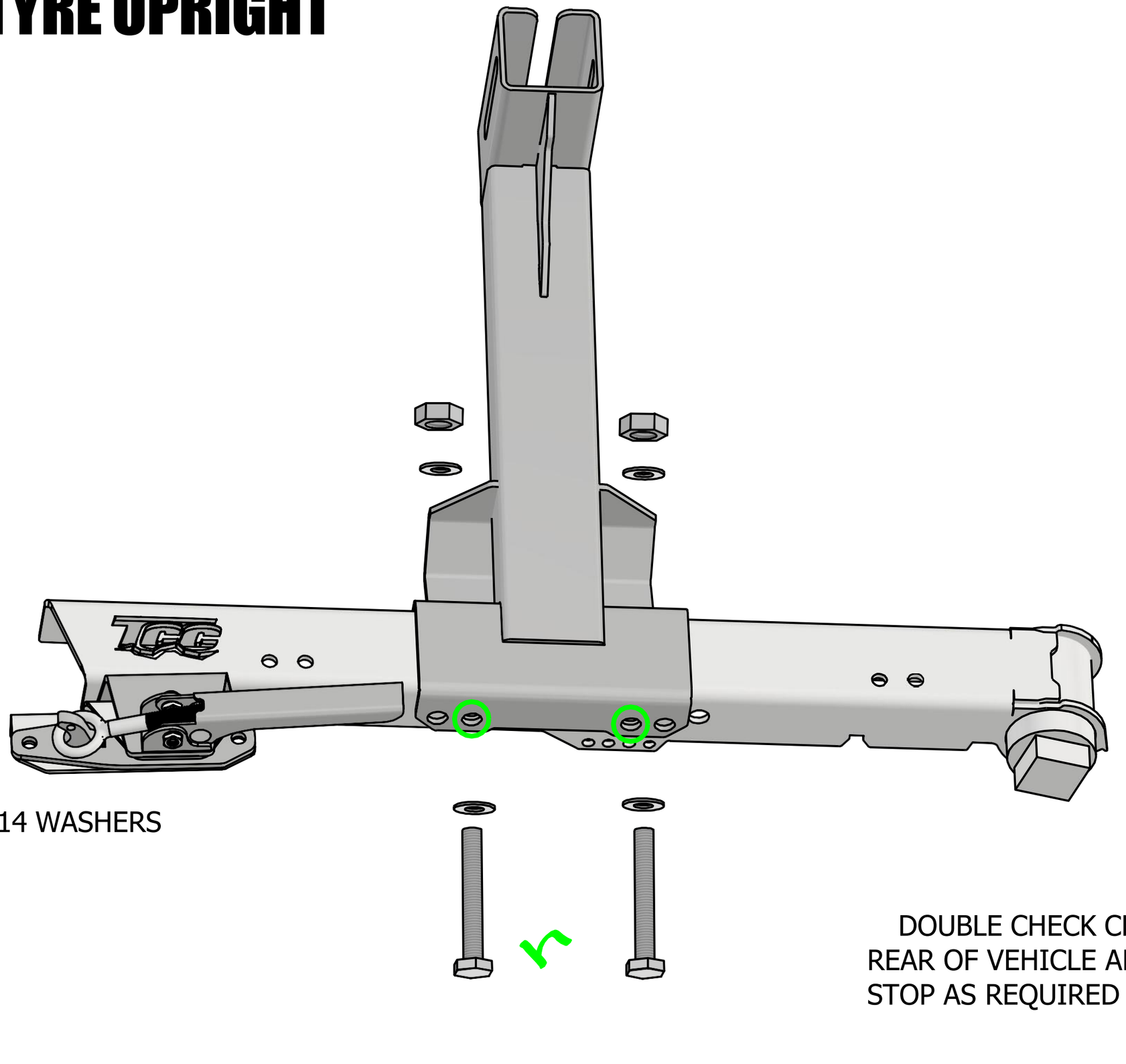
ASSEMBLED VIEW

1. INSTALL THE TYRE UPRIGHT

TCC Carrier Arm must be assembled prior to installation



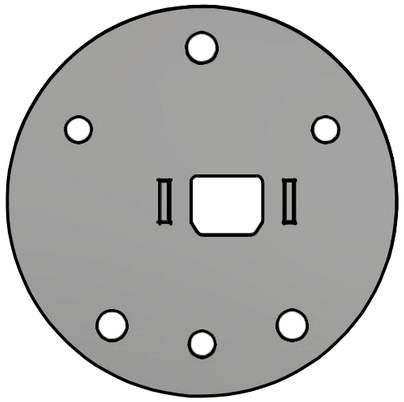
2. INSTALL TYRE UPRIGHT

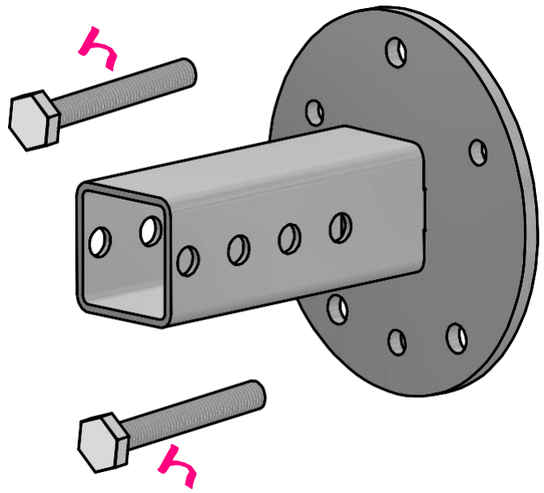


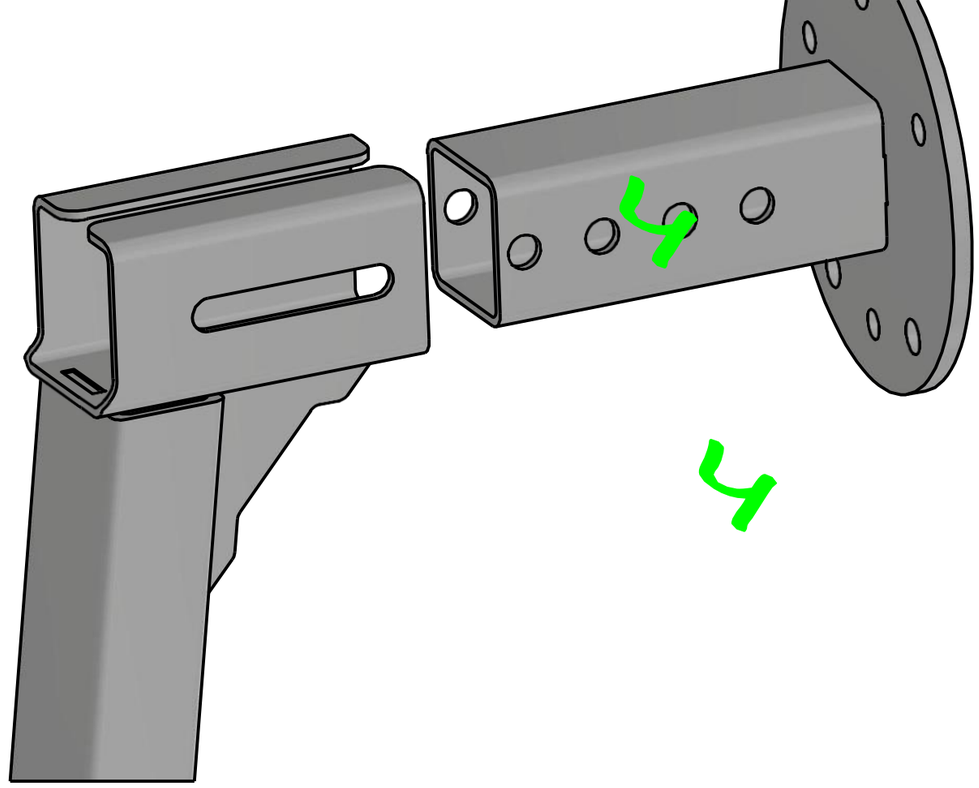
M14 x 110mm BOLTS M14 WASHERS
M14 NUTS

DOUBLE CHECK CLEARANCE TO REAR OF VEHICLE ADJUST BUMP STOP AS REQUIRED

3. MOUNT TYRE HEAD

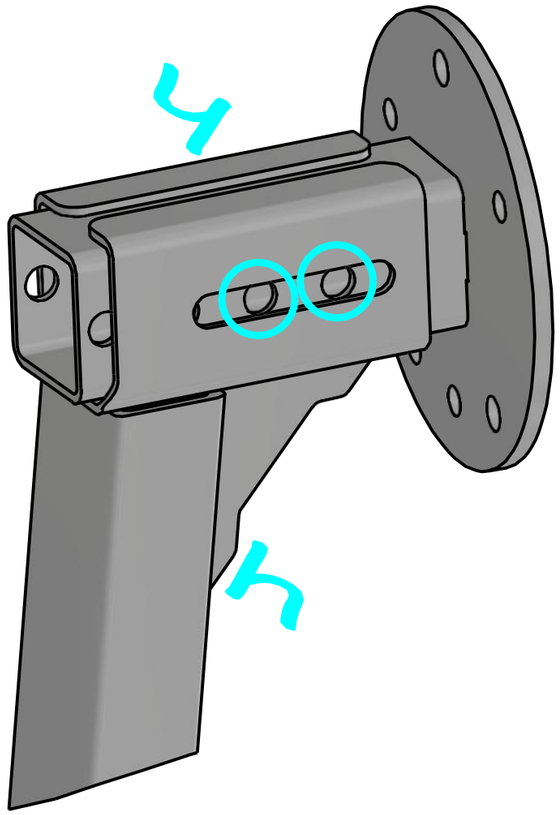






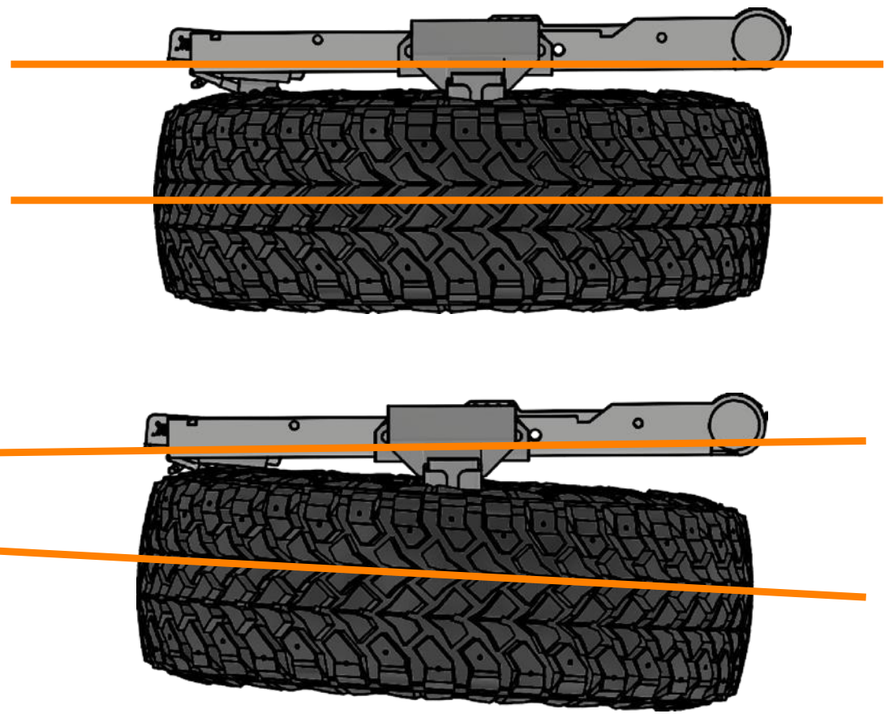
LARGE HOLES: 5 X 150 STUD PATTERN SMALL

HOLES: 6 X 139.7 STUD PATTERN



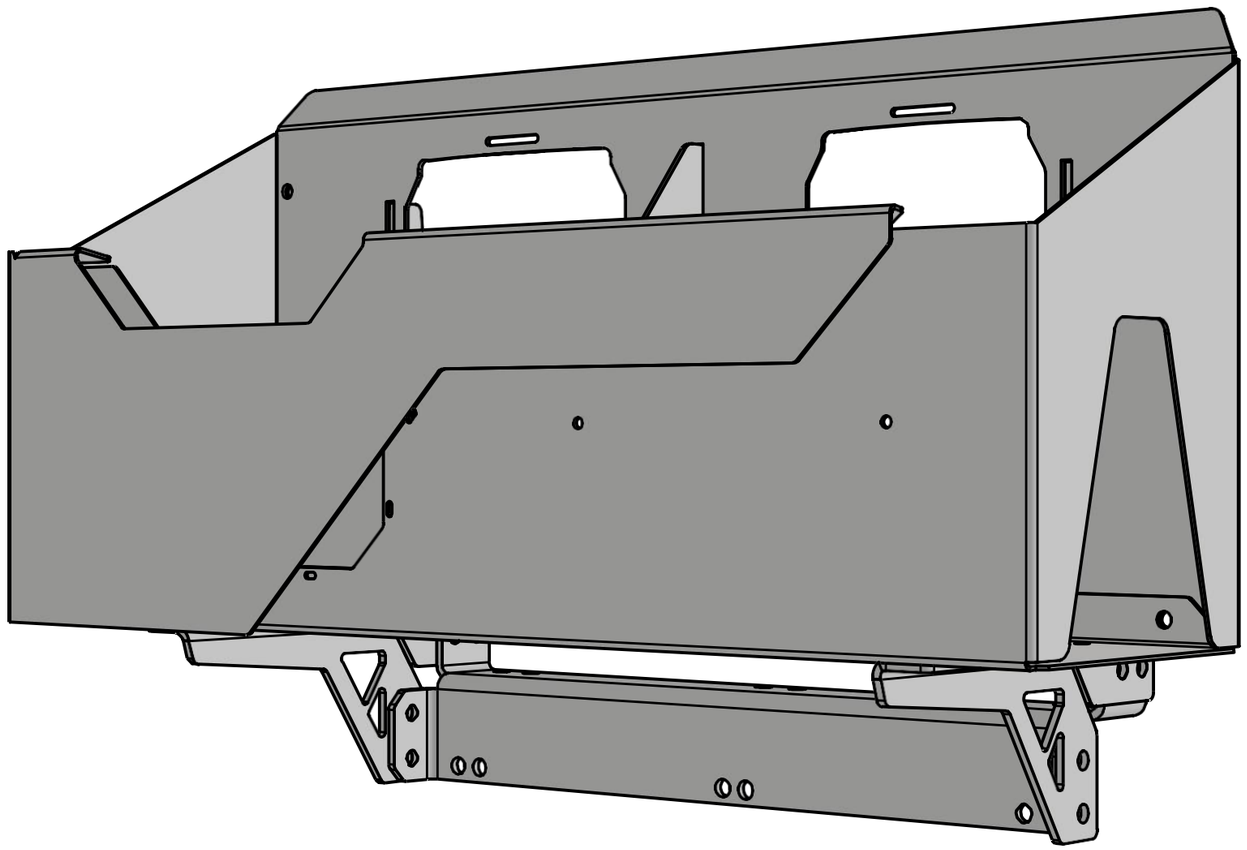
ADJUST IN/OUT
FOR WHEEL
OFFSET

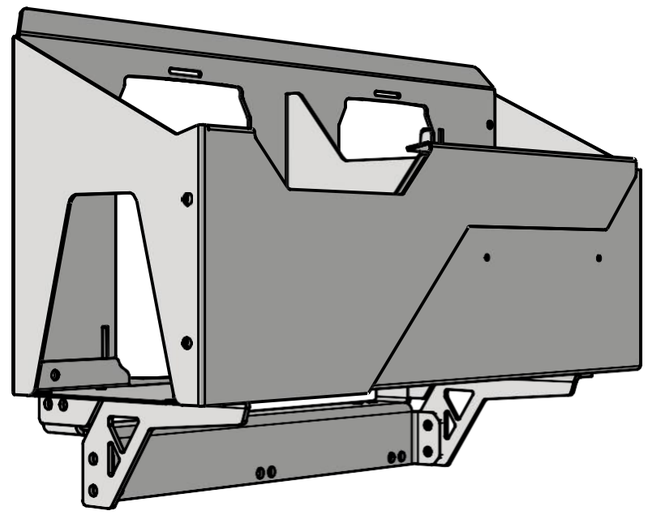
M14 x 30mm BOLTS
M14 WASHERS
M14 NUTS



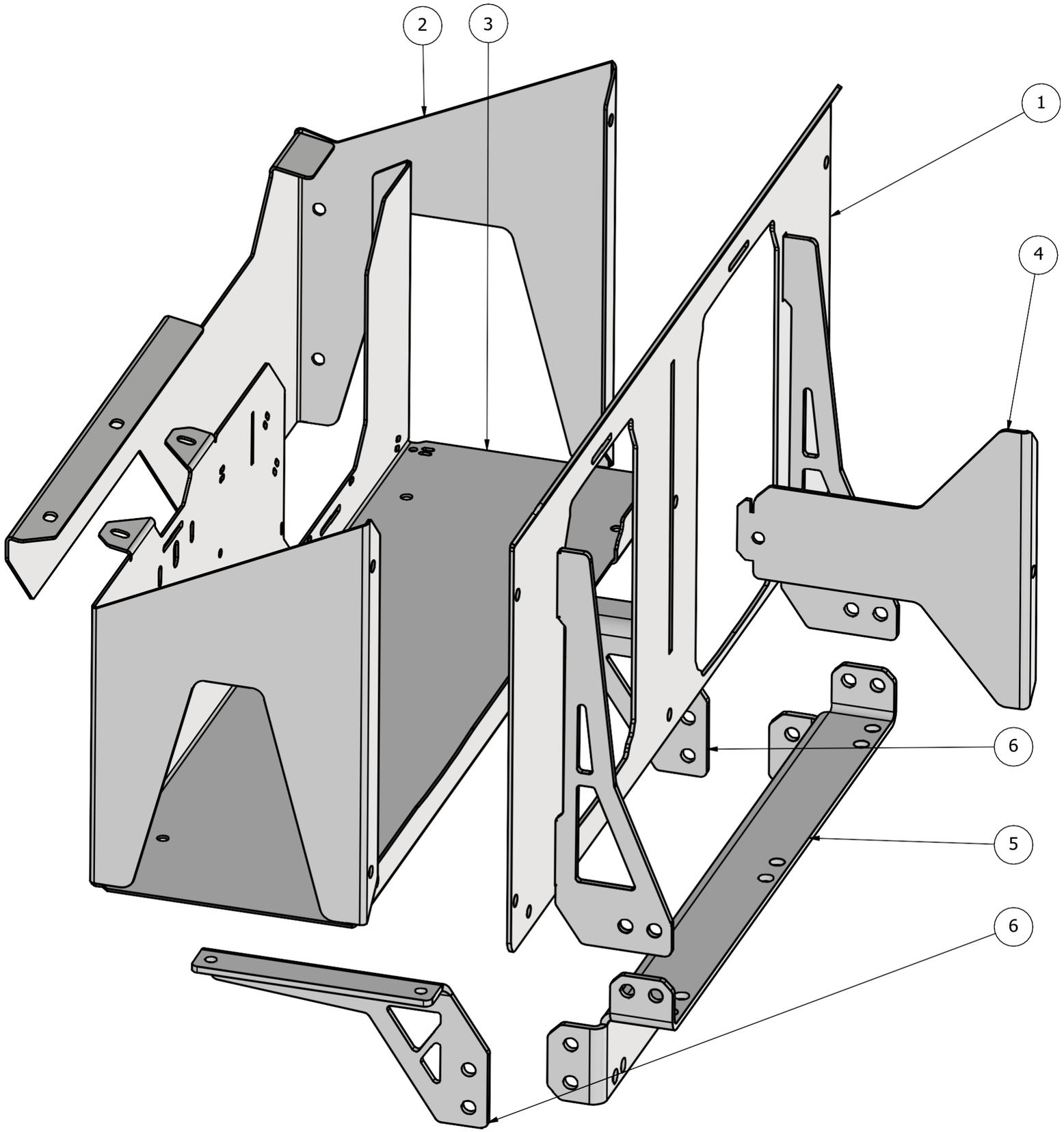
TCC JERRY/GAS HOLDER

ASSEMBLY INSTRUCTIONS



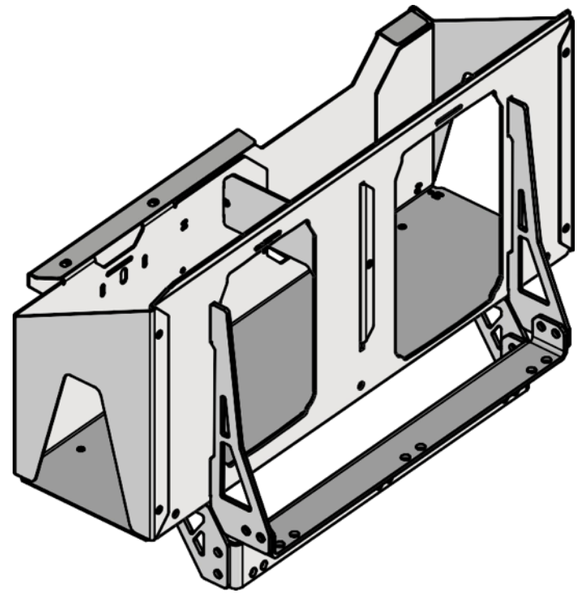


AUSTRALIAN MADE



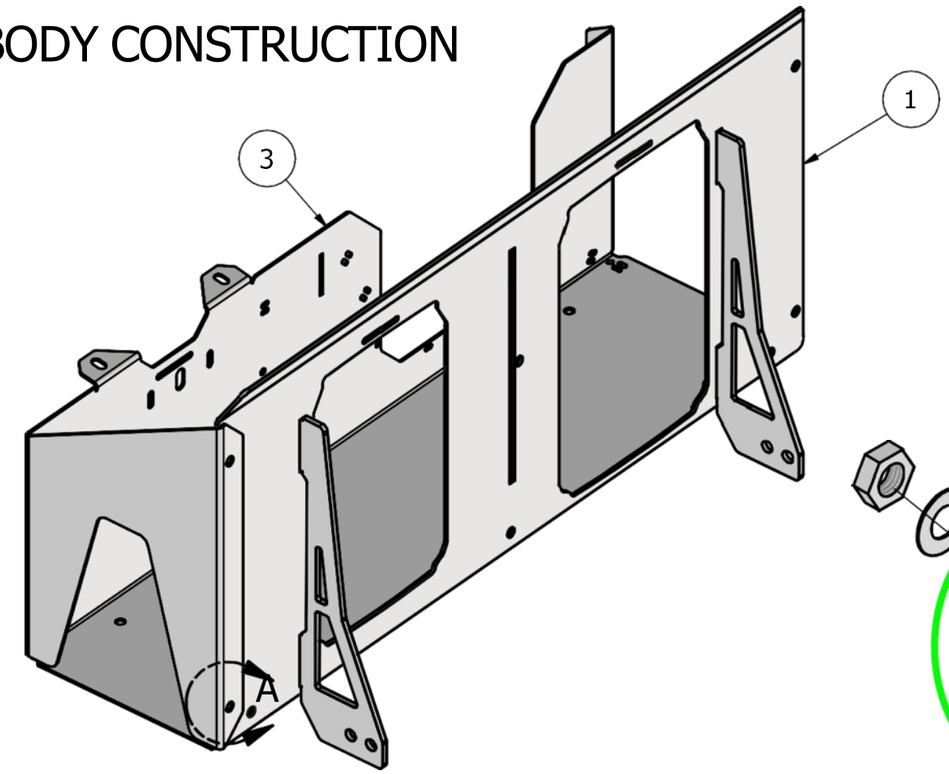
PARTS LIST		
ITEM	QTY	DESCRIPTION
1	1	JERRY BACKING
2	1	JERRY FRONT COVER
3	1	JERRY INTERNAL
4	1	JERRY DIVIDER
5	1	UNIVERSAL SHELF BASE
6	2	JERRY LOWER GUSSET

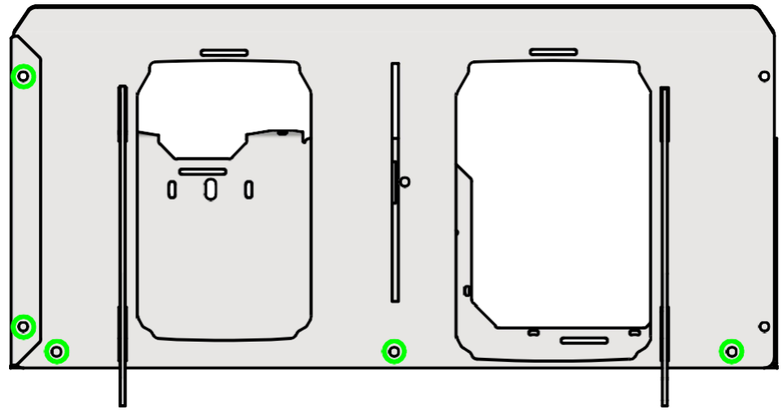
HARDWARE KIT (INCLUDED)	
QTY	DESCRIPTION
8	M10 X 25mm BUTTON HEAD BOLTS
6	M10 X 20mm BUTTON HEAD BOLTS
28	M10 WASHERS
14	M10 NUTS
16	M8 x 20mm BUTTON HEAD BOLTS
32	M8 WASHERS
16	M8 NUTS

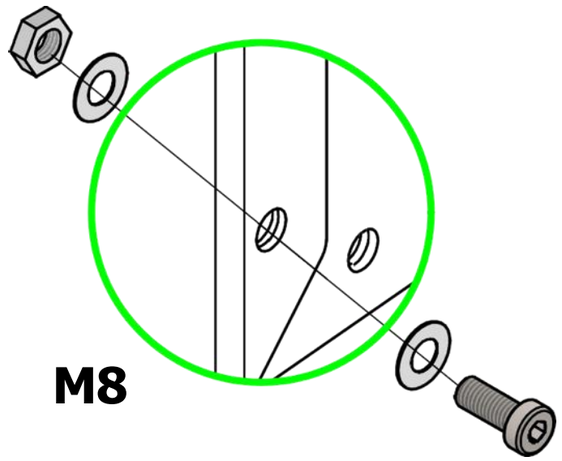


FULLY ASSEMBLED

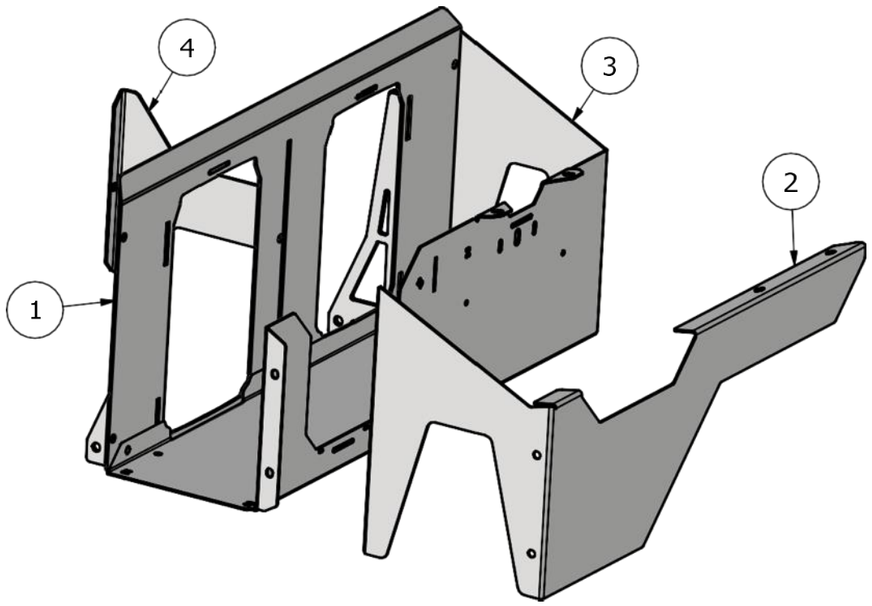
1. JERRY BODY CONSTRUCTION

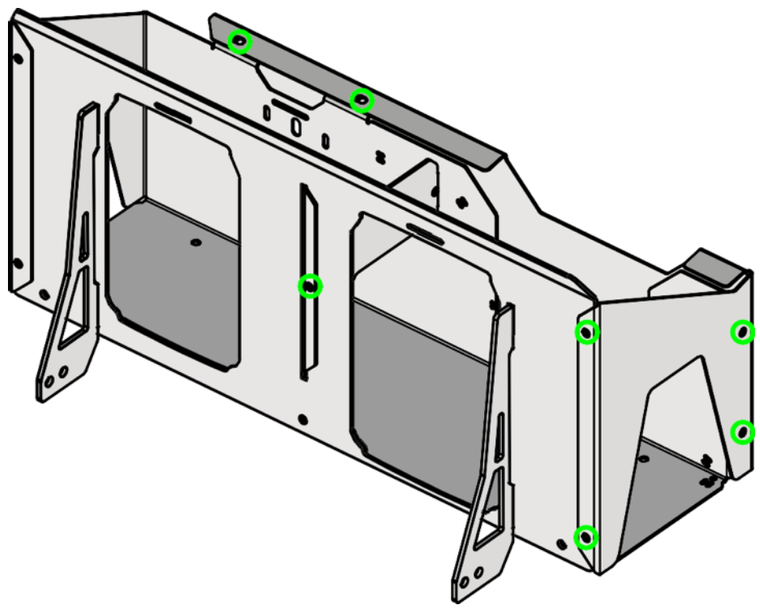




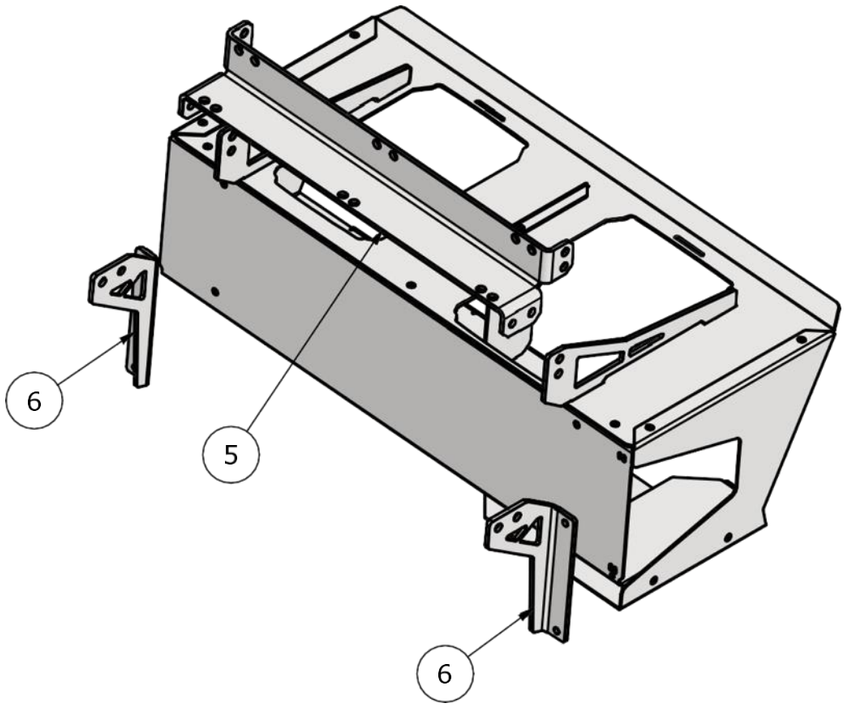


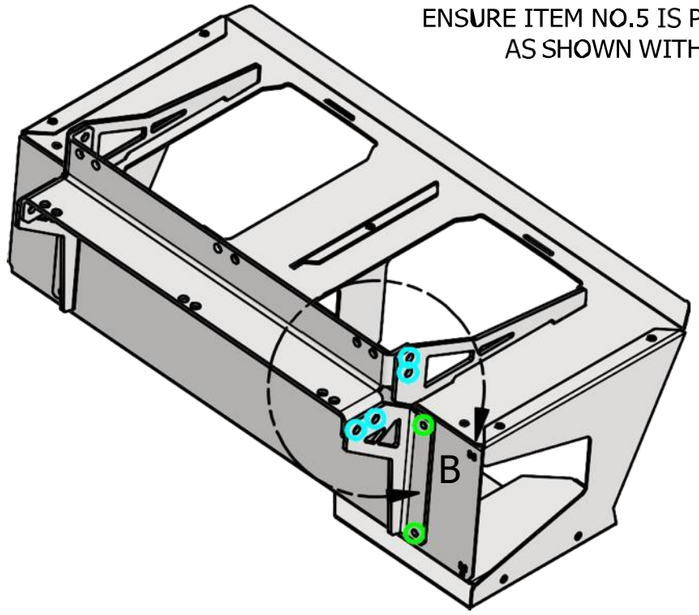
2. JERRY BODY CONSTRUCTION



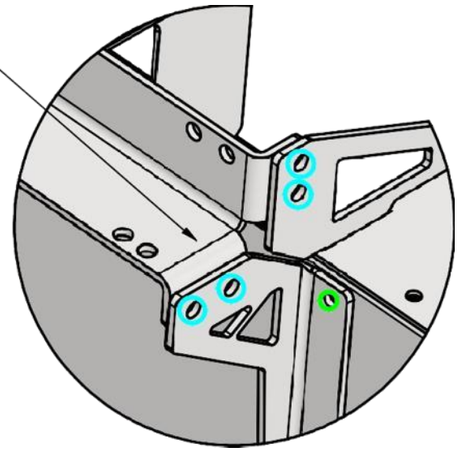


3. ATTACH UNIVERSAL MOUNT

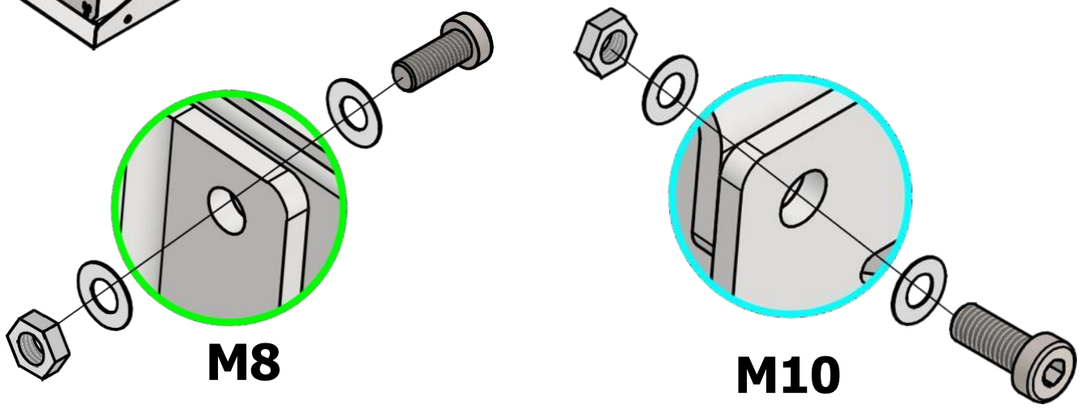




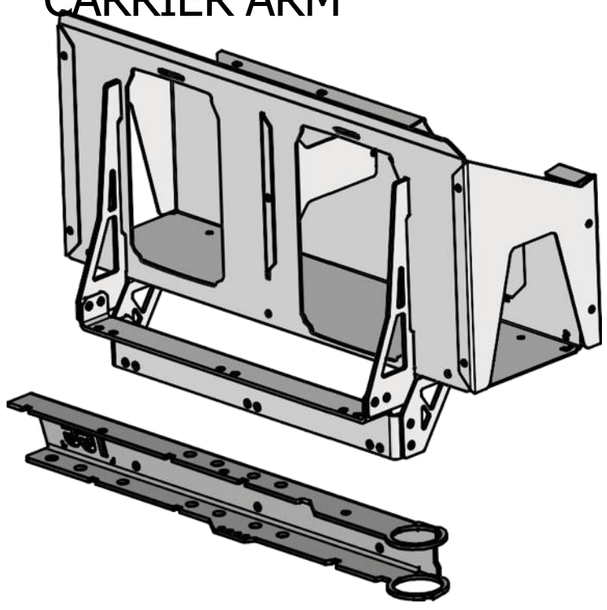
ENSURE ITEM NO.5 IS POSITIONED AS SHOWN WITHIN MOUNTS

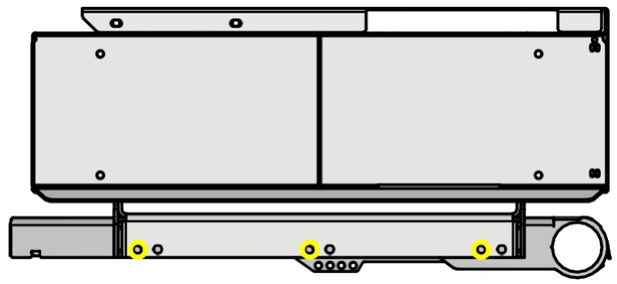


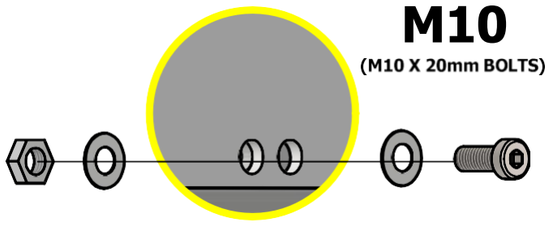
DETAIL B

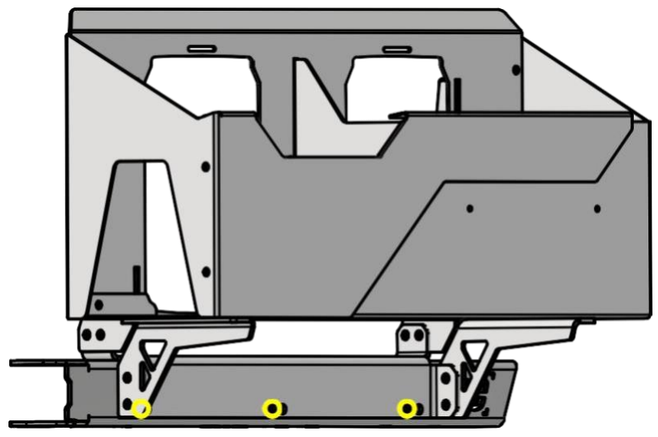


4. ATTACH ASSEMBLY TO CARRIER ARM









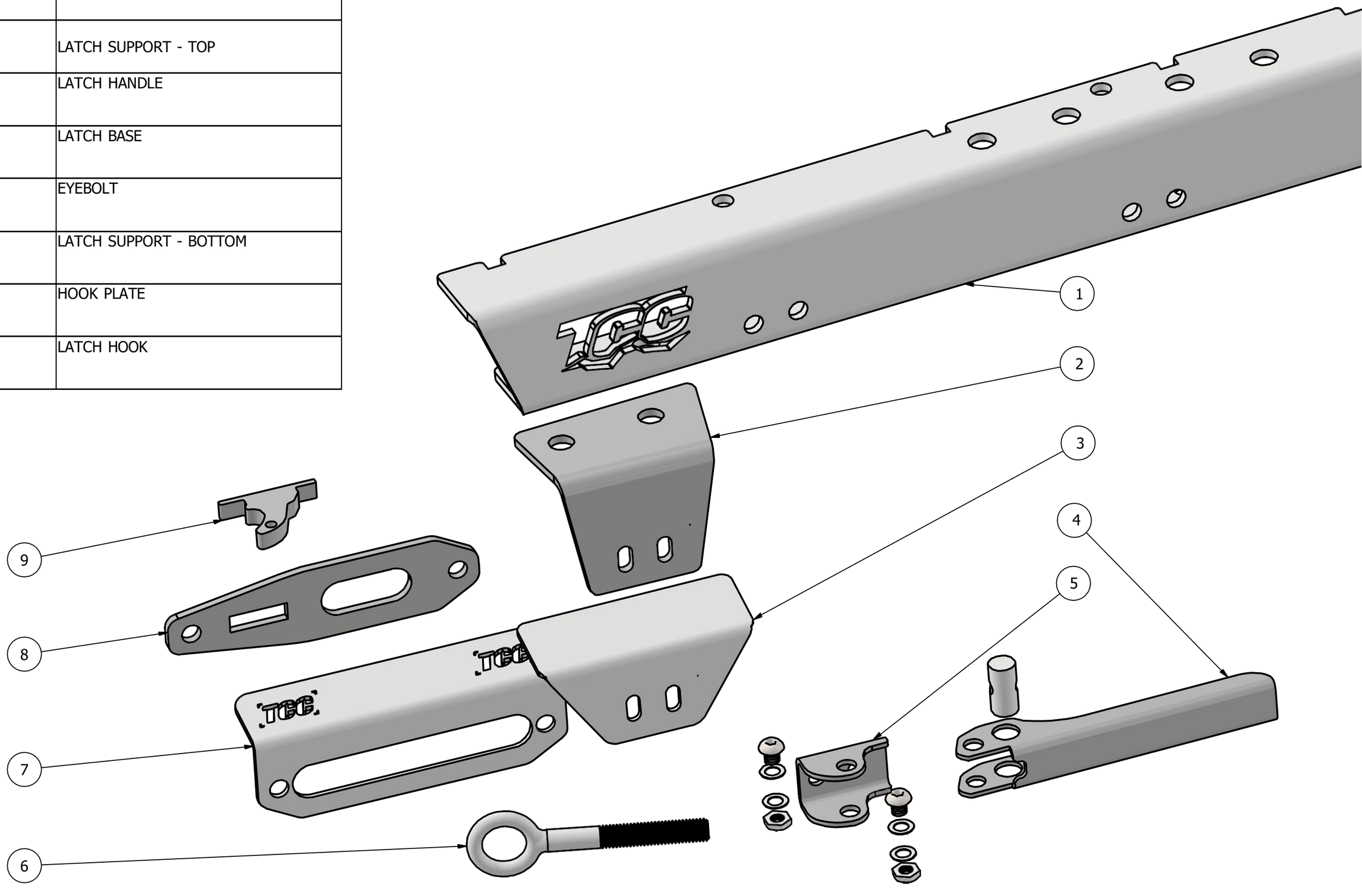
TCC LATCH ASSEMBLY

ASSEMBLY INSTRUCTIONS

AUSTRALIAN MADE



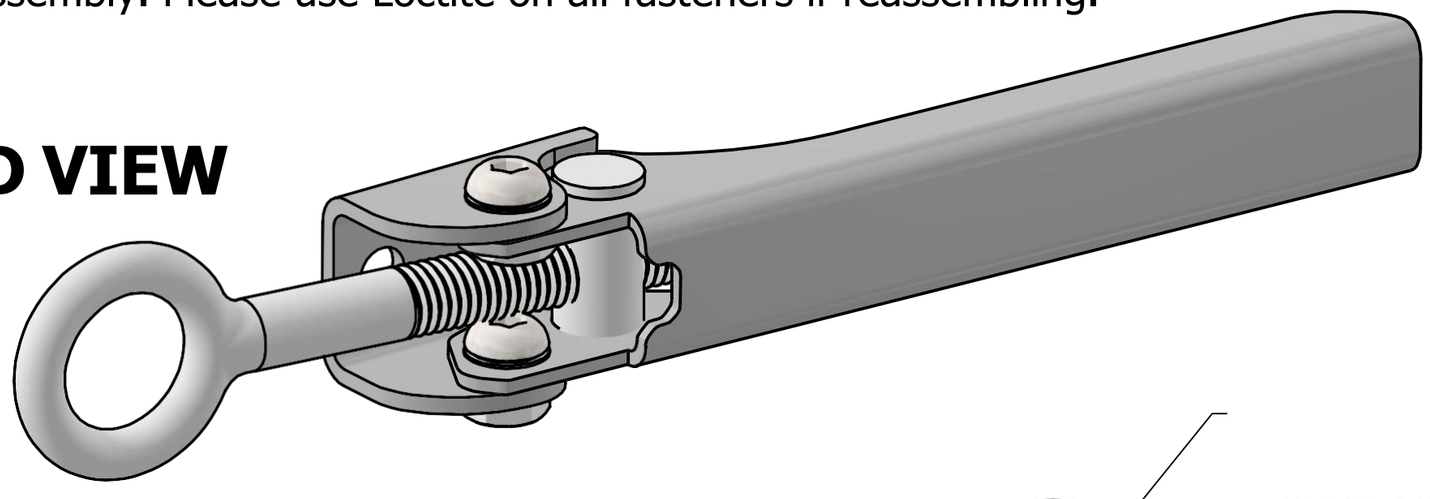
TABLE		
ITEM	QTY	ITEM NAME
1	1	TCC CARRIER ARM
2	1	LATCH DROP DOWN
3	1	LATCH SUPPORT - TOP
4	1	LATCH HANDLE
5	1	LATCH BASE
6	1	EYEBOLT
7	1	LATCH SUPPORT - BOTTOM
8	1	HOOK PLATE
9	1	LATCH HOOK



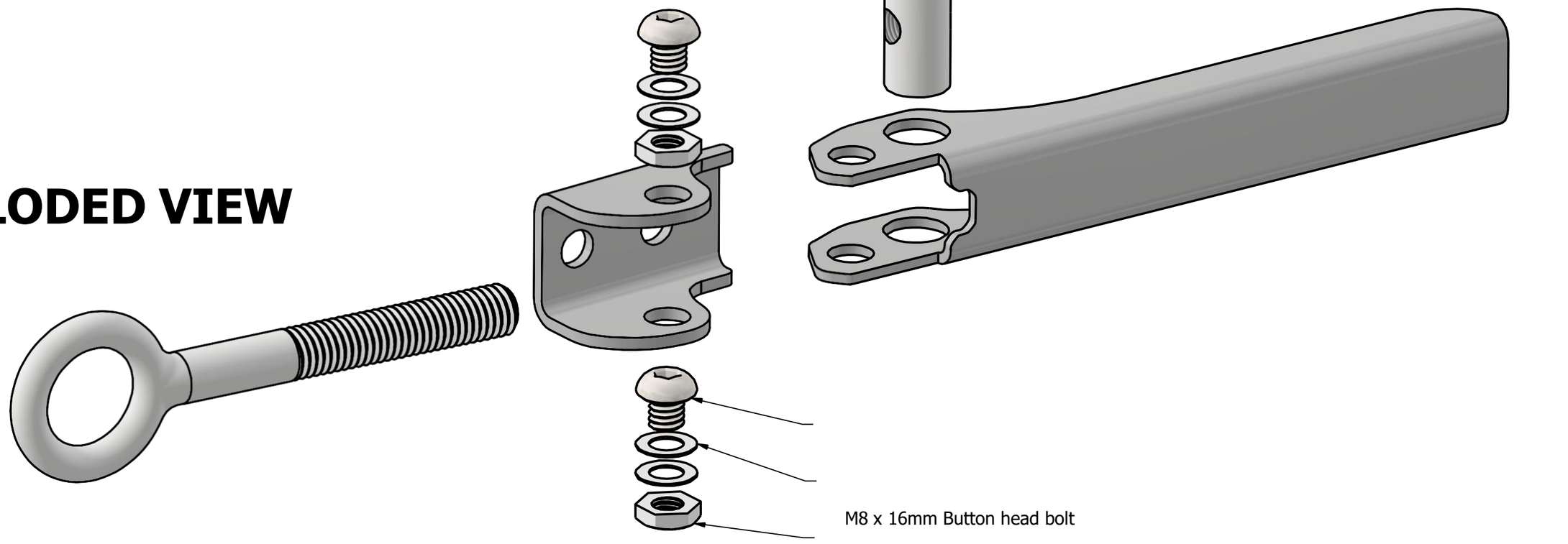
1. LATCH ASSEMBLY

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

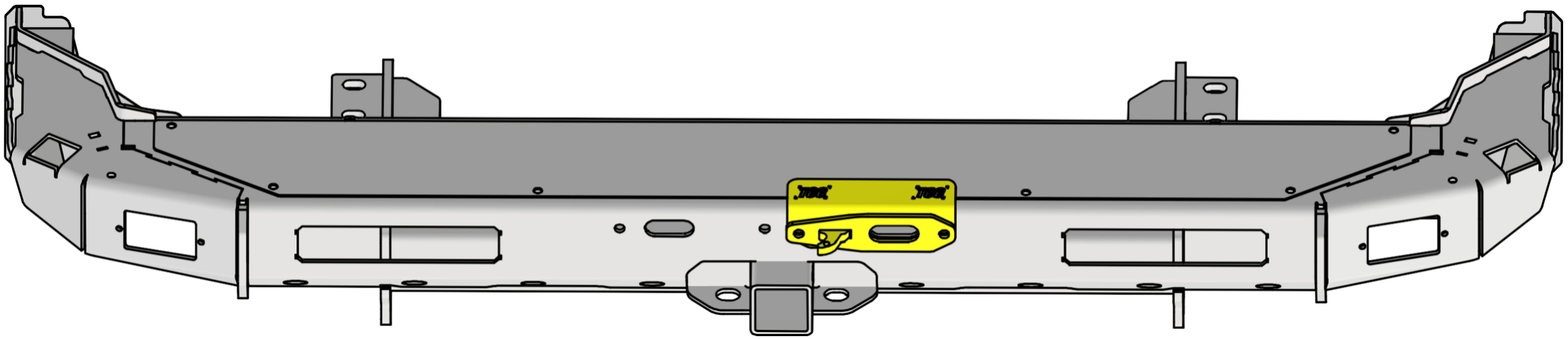


EXPLODED VIEW

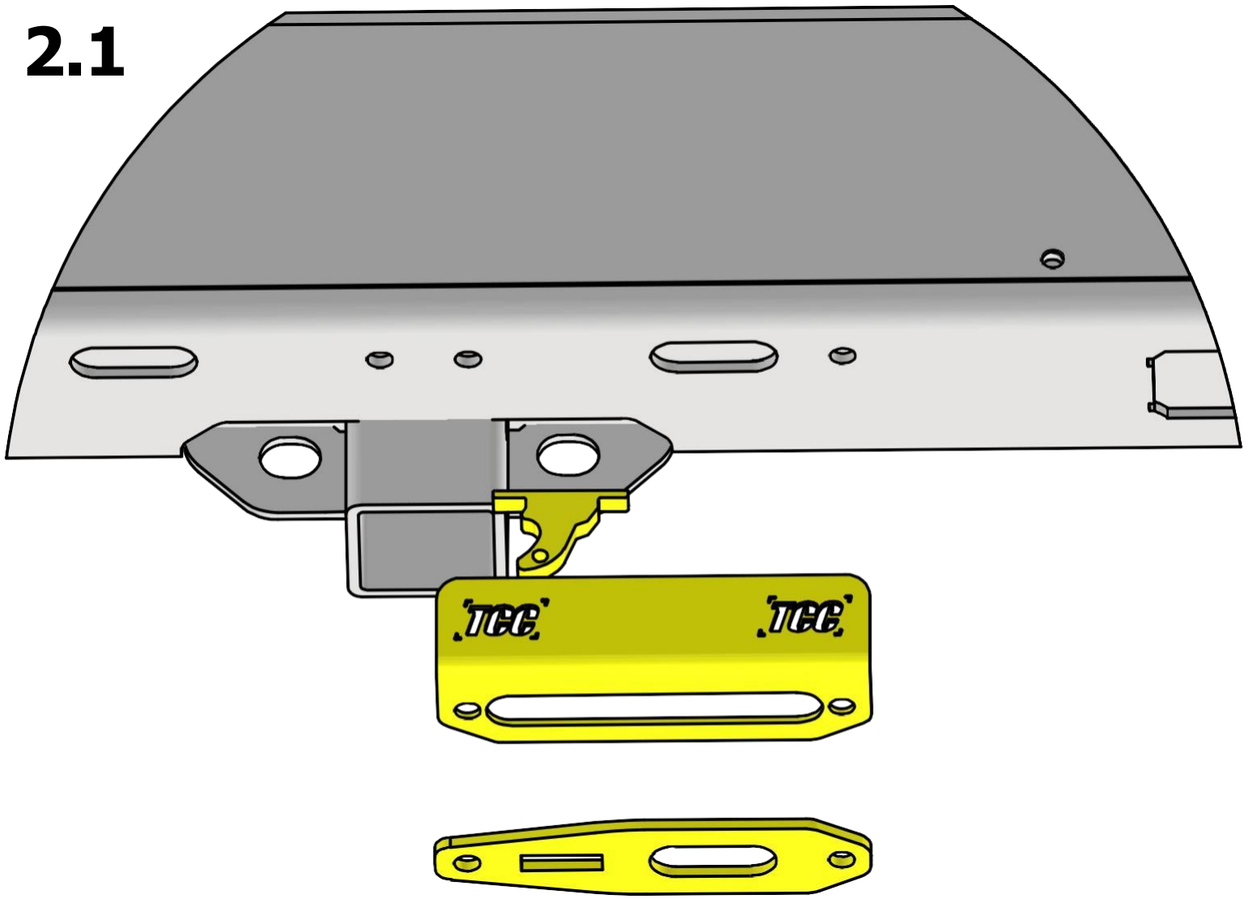


2. JOINING LATCH TO REAR BAR

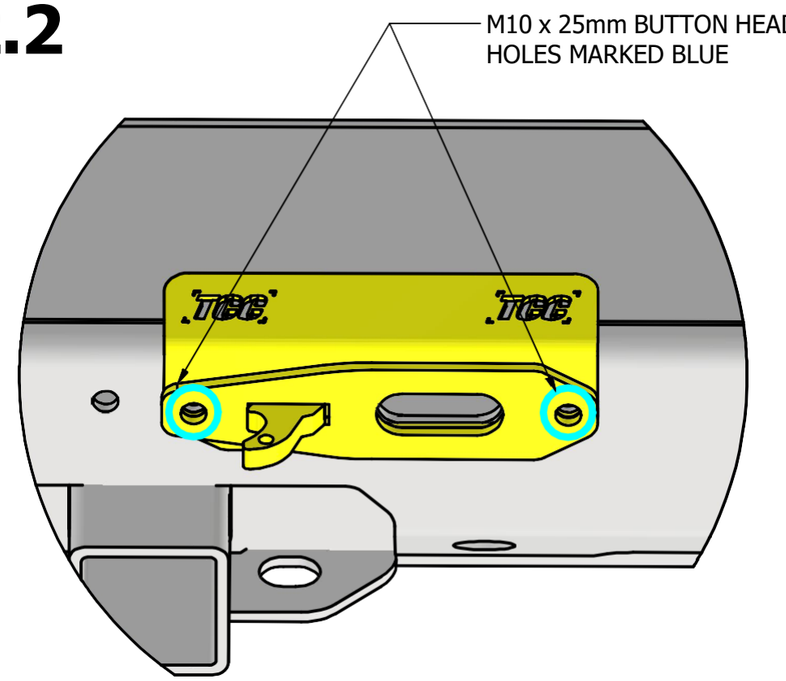
BAR BASE



2.1



2.2



NOTE ORIENTATION OF ALL PARTS SHOWN

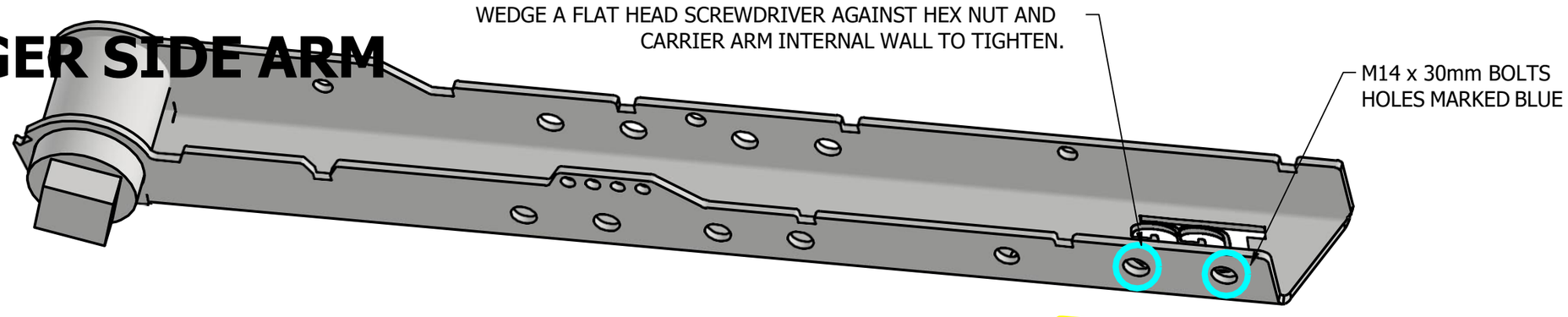
3. JOINING LATCH TO REAR BAR

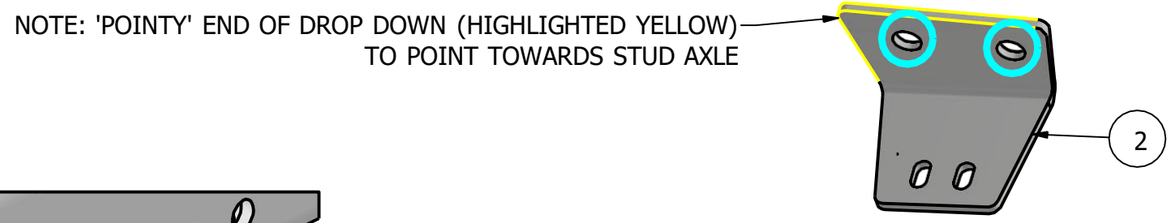
CARRIER ARM

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

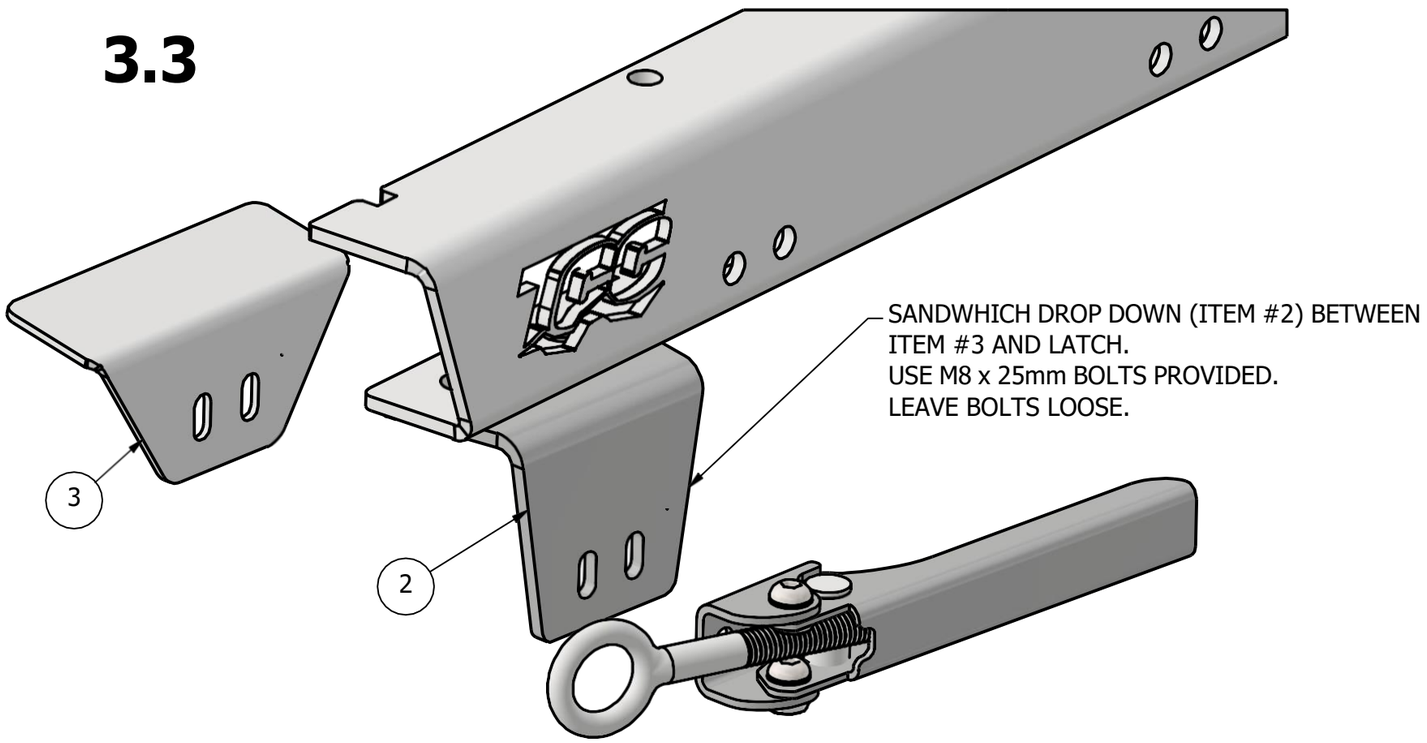
3.2

REAR VIEW OF PASSENGER SIDE ARM





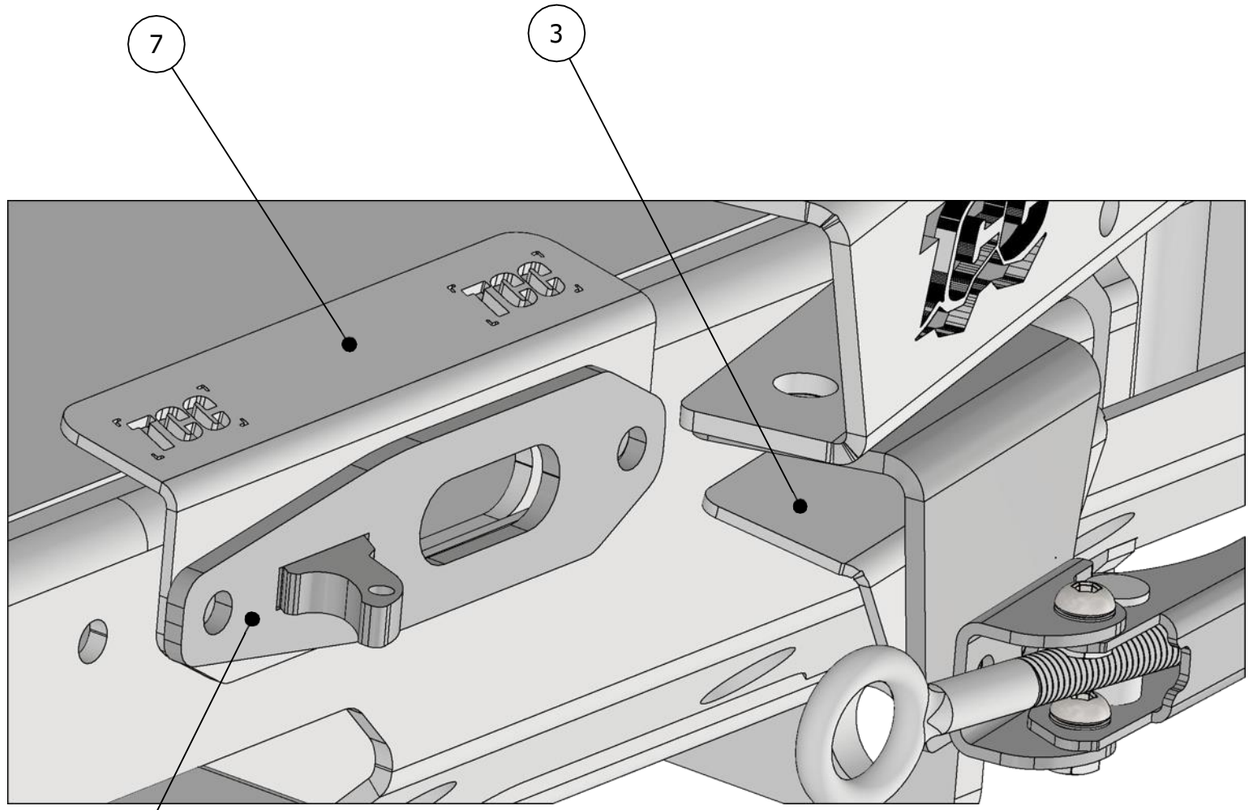
3.3



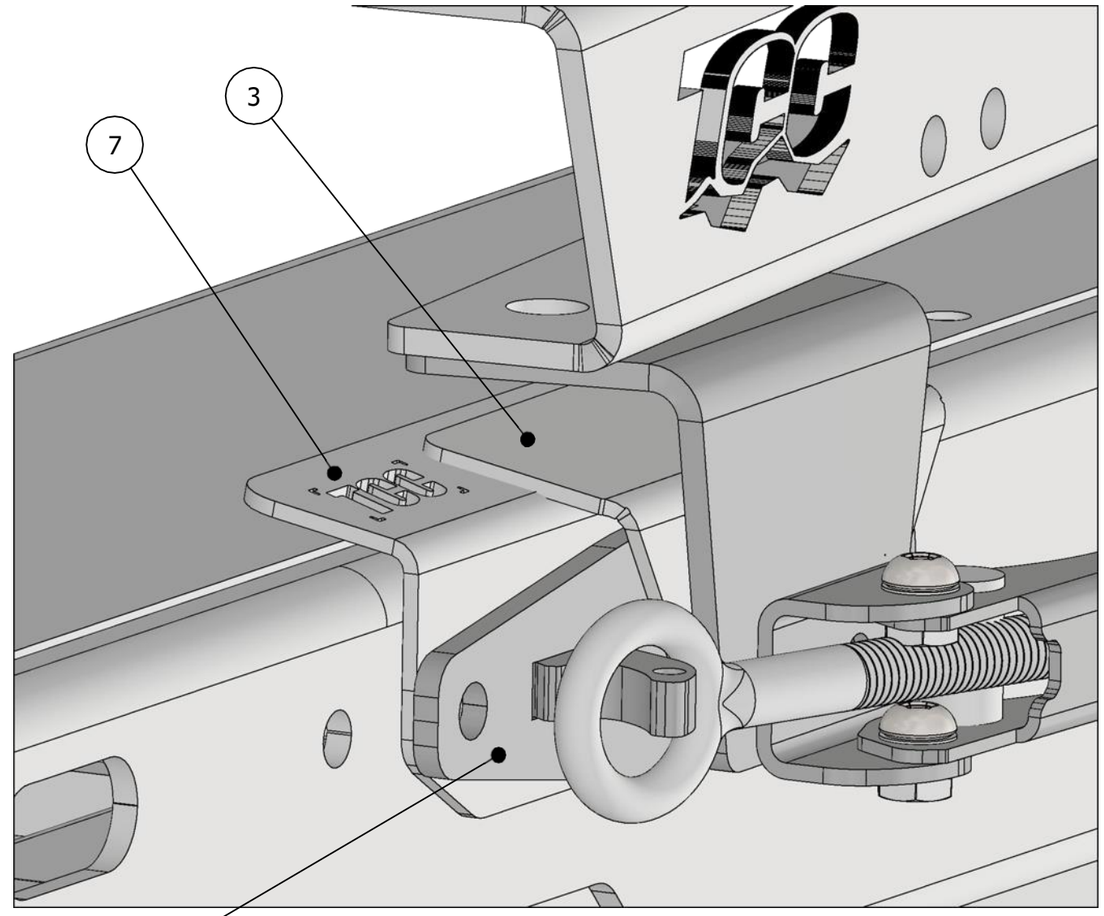
3. JOINING LATCH TO REAR BAR

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