TCC LC80 TOWBAR INCORPORATED 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 READ THIS MANUAL ALL THE WAY THROUGH BEFORE BEGINNING INSTALL PROCEDURE

VERSION 1 - 31/10/24

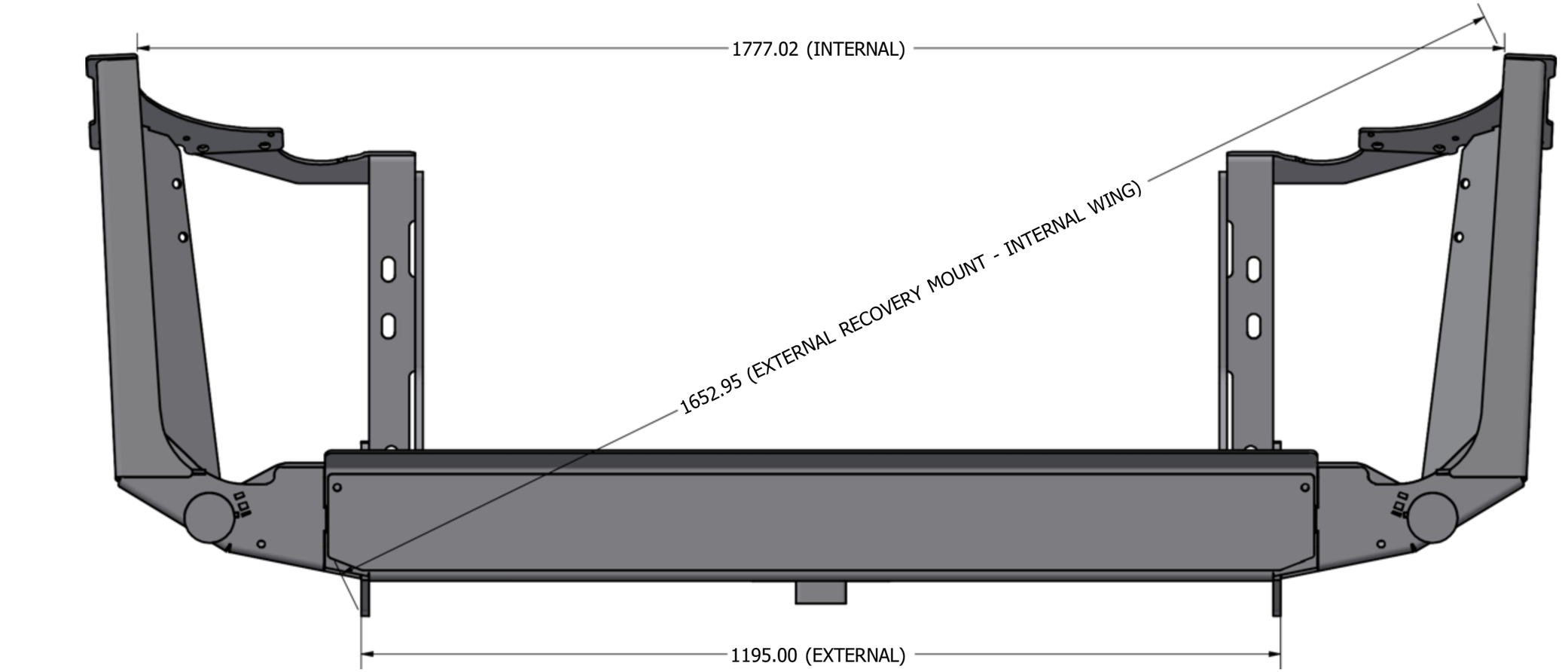


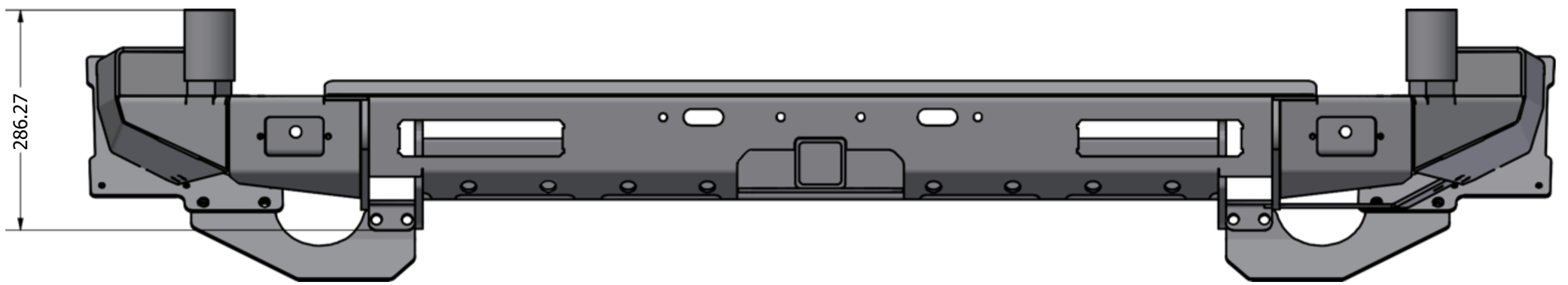
AUSTRALIAN MADE

GENERAL DIMENSIONS

ALL UNITS IN MM

EXTERNAL / INTERNAL REFERS TO START & END POINTS FOR MEASUREMENT

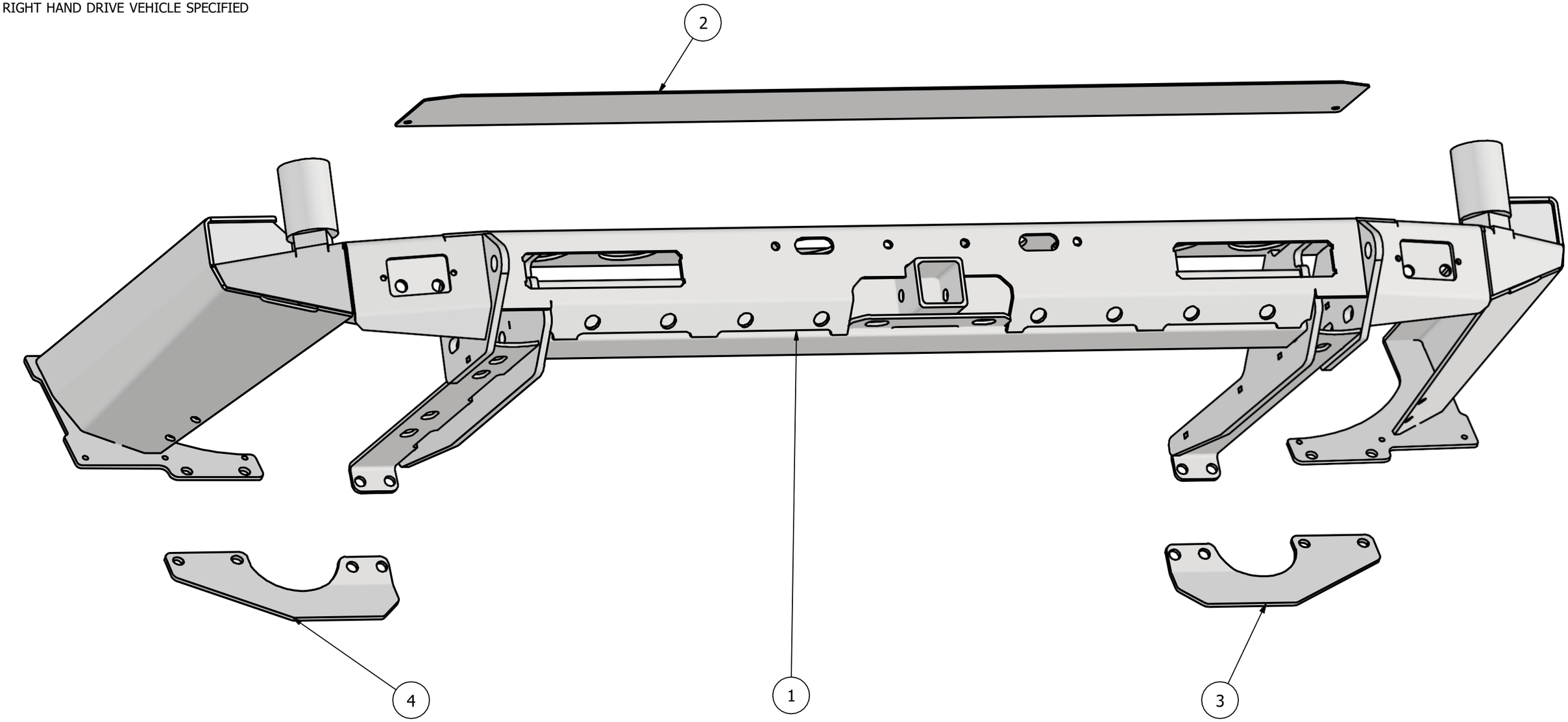




BAR BASE ASSEMBLY

PARTS LIST		
ITEM	QTY	PART NAME
1	1	LC80 INC TOWBAR BAR BASE
2	1	TREAD PLATE
3	1	WING BRACE (DS)
4	1	WING BRACE (PS)

* 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
TORQUE WRENCH
12V WIRING EQUIPMENT (SOLDERING IRON ETC)
5 CORE TRAILER WIRE (APPROX. 2 METERS)
LOCTITE
BEARING GREASE
BASIC CLIP REMOVAL TOOLS

VEHICLE SPECIFIC MOUNTING HARDWARE

M8 BOLTS	2
M8 NUTS	2
M8 WASHERS	4
NUTPLATES	2
M10 x 35mm BOLT	4
M10 GOLD WASHER	4
M12 x 50 BOLT	18
M12 WASHER	18
M12 NUT STICK	14

WARNING! ONLY USE HARDWARE SUPPLIED.

Using aftermarket hardware may void warranty and damage vehicle.
The Cruiser Company (TCC) will not be held liable for any damage that 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 when replacing hardware lost during the install procedure.

Please use loctite on all fasteners.

MOUNTING BOLT TORQUE SPEC			
TORQUE SETTING (NM)	BOLT TYPE	LOCATION	COLOUR (AS SHOWN IN DRAWING)
30	M10 x 35mm	INTO NUTPLATES	B
50	M12 x 50mm	CHASSIS MOUNTS	A

1. PREPARING FOR INSTALL

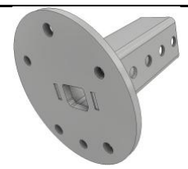
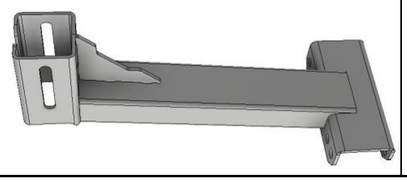
BAR BASE - DETAILED IN ASSEMBLY VIEW (PAGE 3)

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		

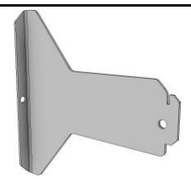
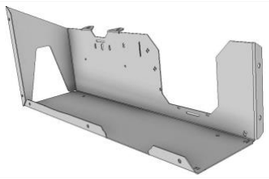
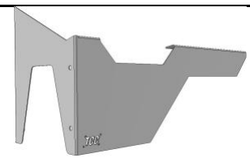
TYRE CARRIER

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 PAGE 4	
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 BUMPER & PREPARE CROSSMEMBER DELETE

2.1. Remove factory rear plastic bumpers and factory aluminum step. The chassis at the rear of the car should be exposed as shown in **FIGURE 2.A** before progressing.



FIGURE 2.A (100 SERIES SHOWN FOR REFERENCE ONLY)

2.1. Identify factory welds joining the rear crossmember to the frame (**FIGURE 2.B & 2.C**). **Note that only the welds are to be cut for the fitment of this rear bar. DO NOT CUT OR GRIND CHASSIS RAILS**



FIGURE 2.B



FIGURE 2.C

2. REMOVE FACTORY BUMPER & PREPARE CROSSMEMBER DELETE

2.3. Carefully cut welds as identified in **STEP 2.2.** Repeat for both drivers side and passenger side of crossmember. **NOTE:** Be mindful of any wiring hidden inside the rear crossmember.

2.4. Set crossmember aside in a safe place.

2.5. Locate mounting holes as shown in **FIGURE 2.C.** Tap the captive nuts out of the frame using a hammer and chisel for holes marked GREEN. A 14mm drill bit can be used to drill out the captive nut if preferred. Repeat for passenger side and drivers side.

2.6. Insert nutplates into the chassis, ensuring nuts line up with holes marked BLUE. Repeat for both sides. **NOTE: Ensure nutplate sits flush against chassis wall.**

2.7. Touch up any exposed metal from crossmember & captive nut removal to prevent corrosion.

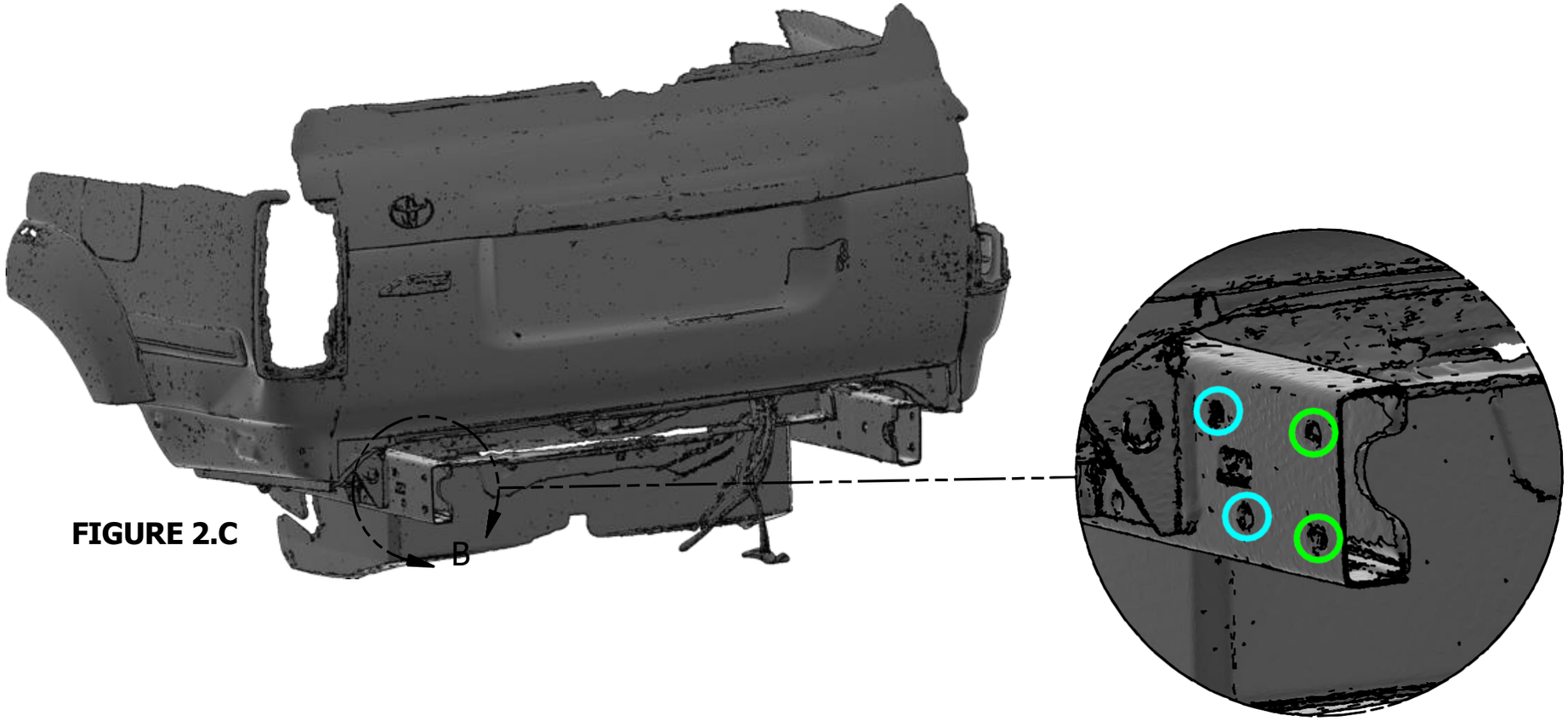


FIGURE 2.C

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.

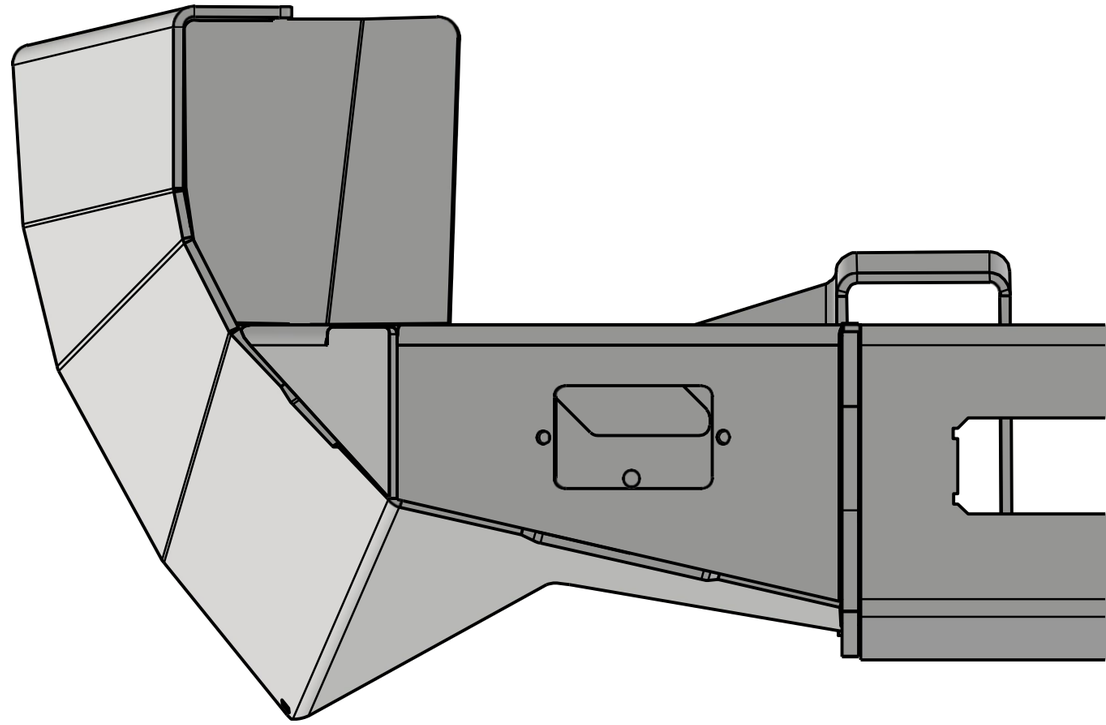
- Keep external joins and moving components properly protected with a lubricant such as Lanolin.

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

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

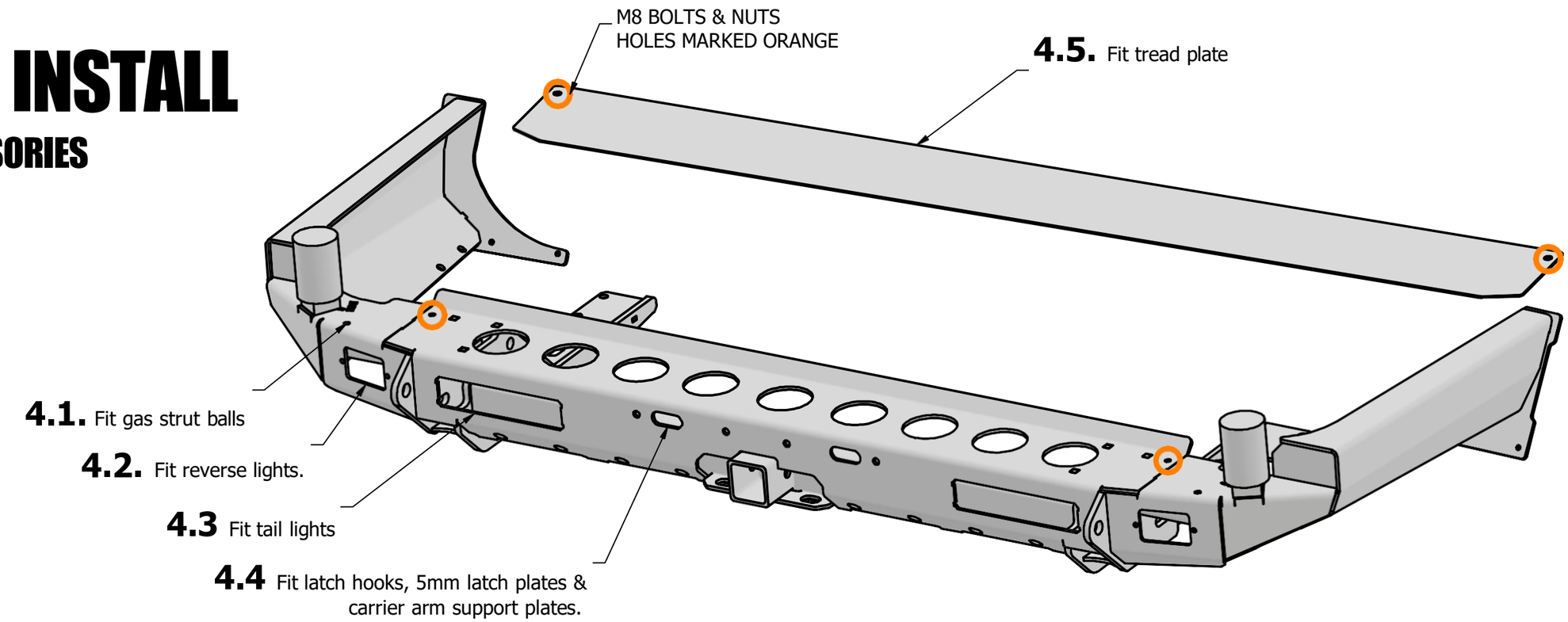
- Do not wash the product with any harsh chemicals.

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

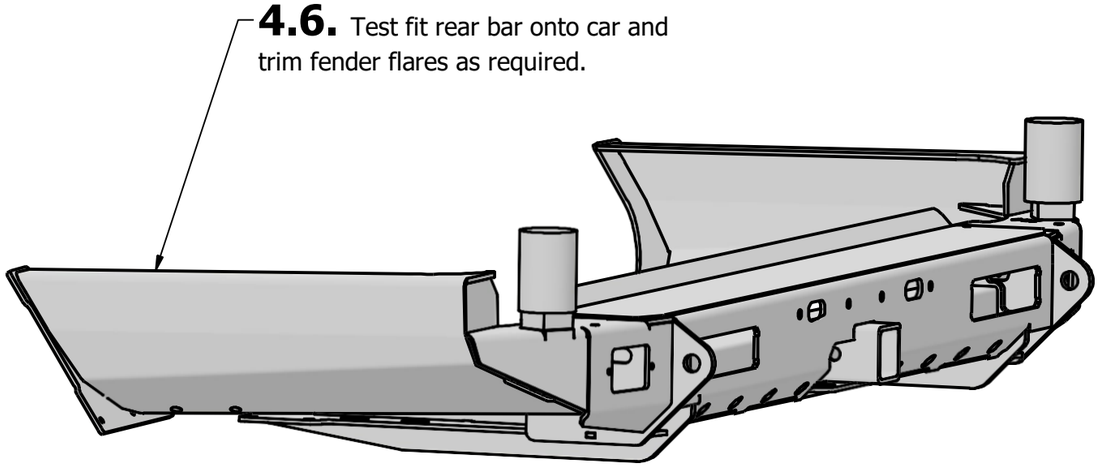


4. REAR BAR INSTALL

FITTING THE ACCESSORIES



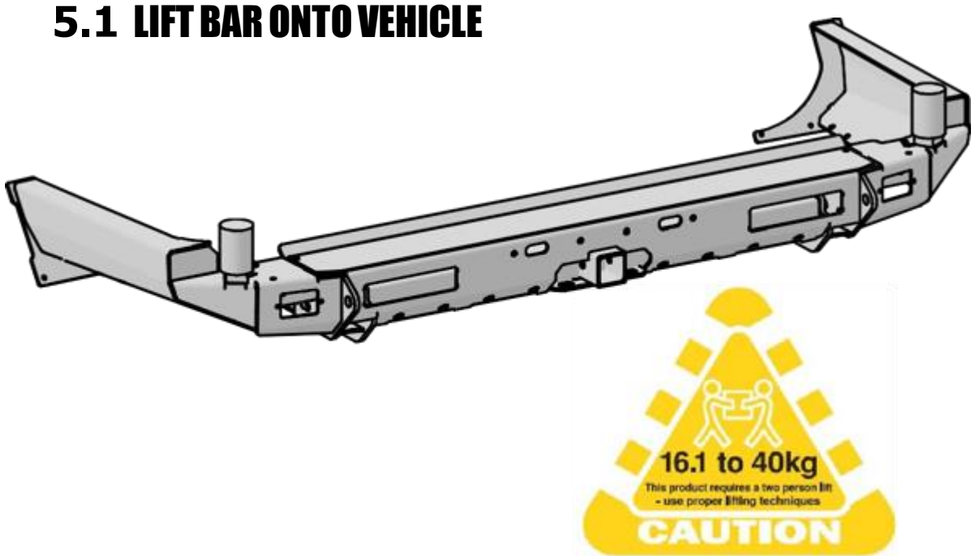
MOUNTING BOLT TORQUE SPEC			
TORQUE SETTING (NM)	BOLT TYPE	LOCATION	COLOUR (AS SHOWN IN DRAWING)
30	M10 x 35mm	INTO NUTPLATES	B
50	M12 x 50mm	CHASSIS MOUNTS	A



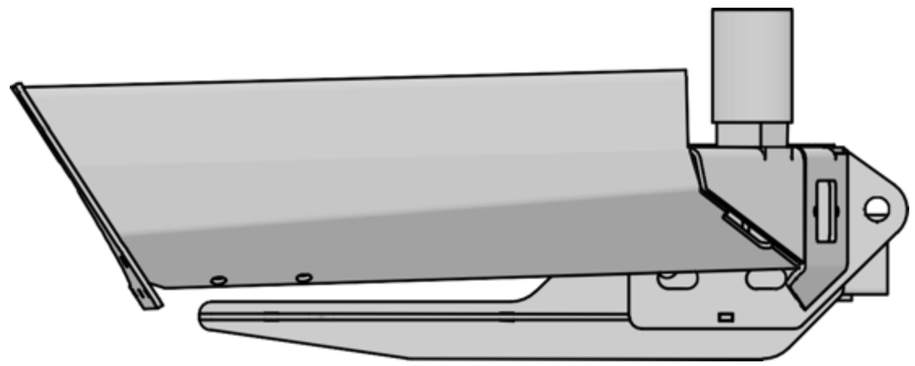
5. REAR BAR INSTALL

FITTING THE REAR BAR TO THE VEHICLE

5.1 LIFT BAR ONTO VEHICLE

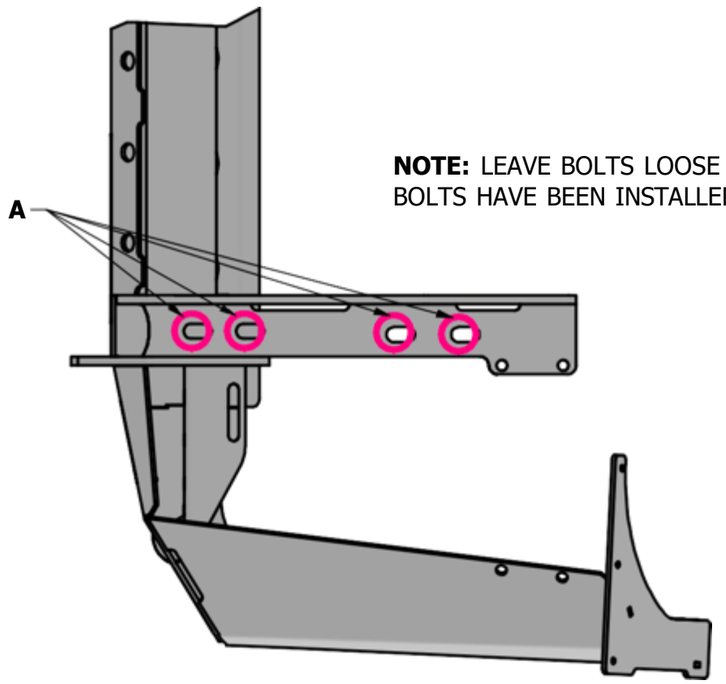


5.2



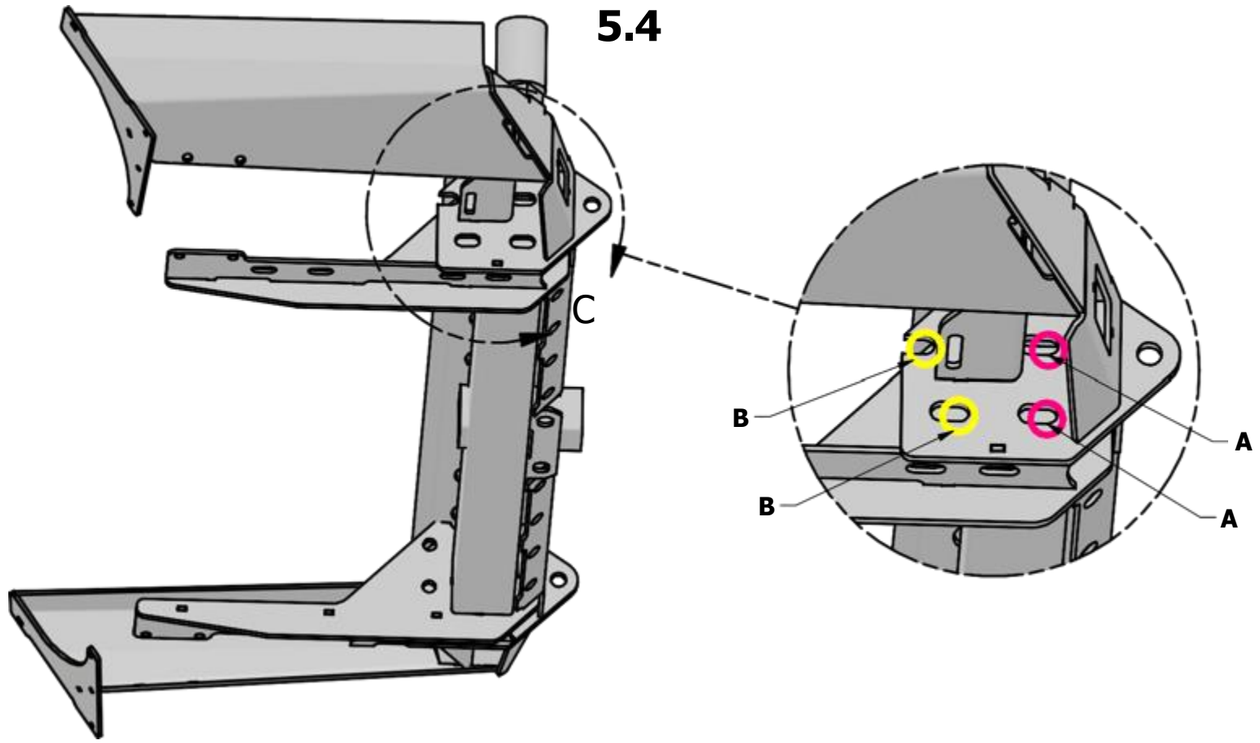
LOCATE BAR AS FAR FORWARD AS POSSIBLE ON VEHICLE

5.3



NOTE: LEAVE BOLTS LOOSE UNTIL ALL BOLTS HAVE BEEN INSTALLED.

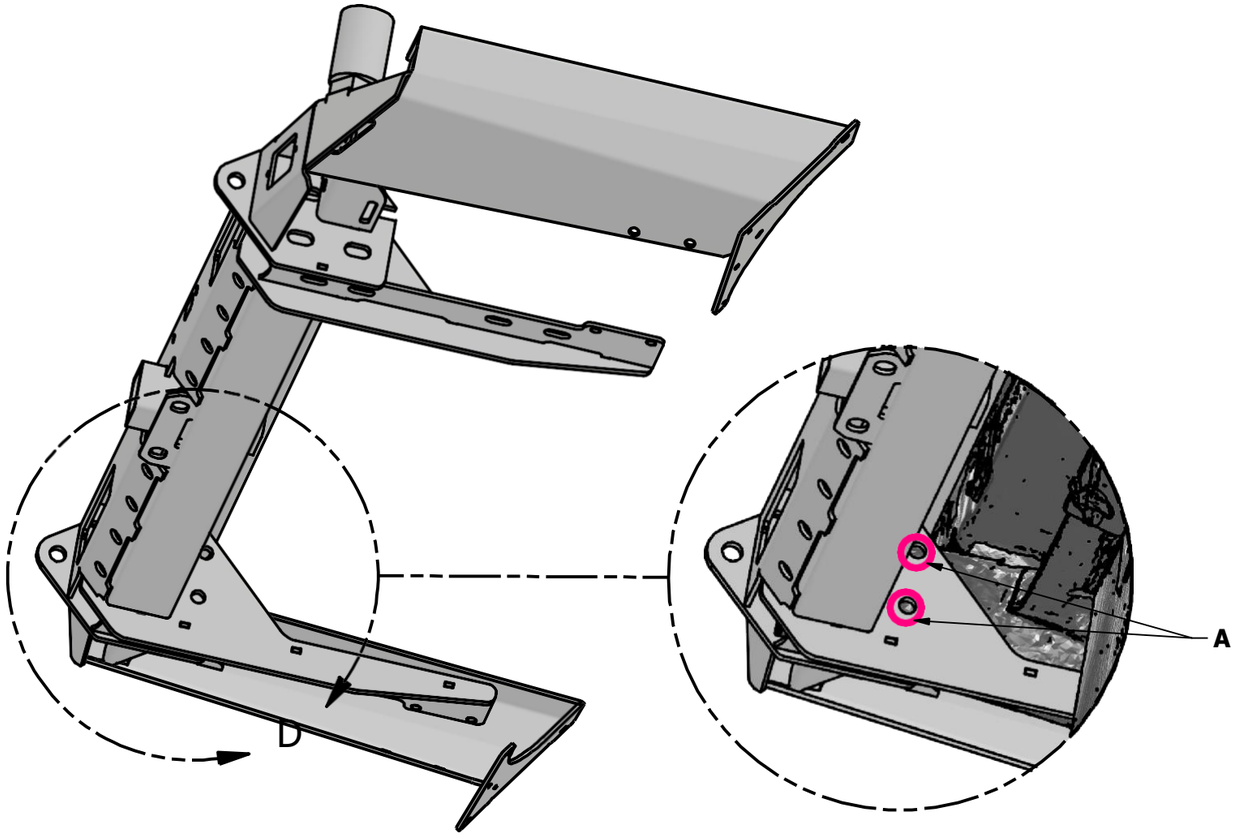
5.4



6. REAR BAR INSTALL

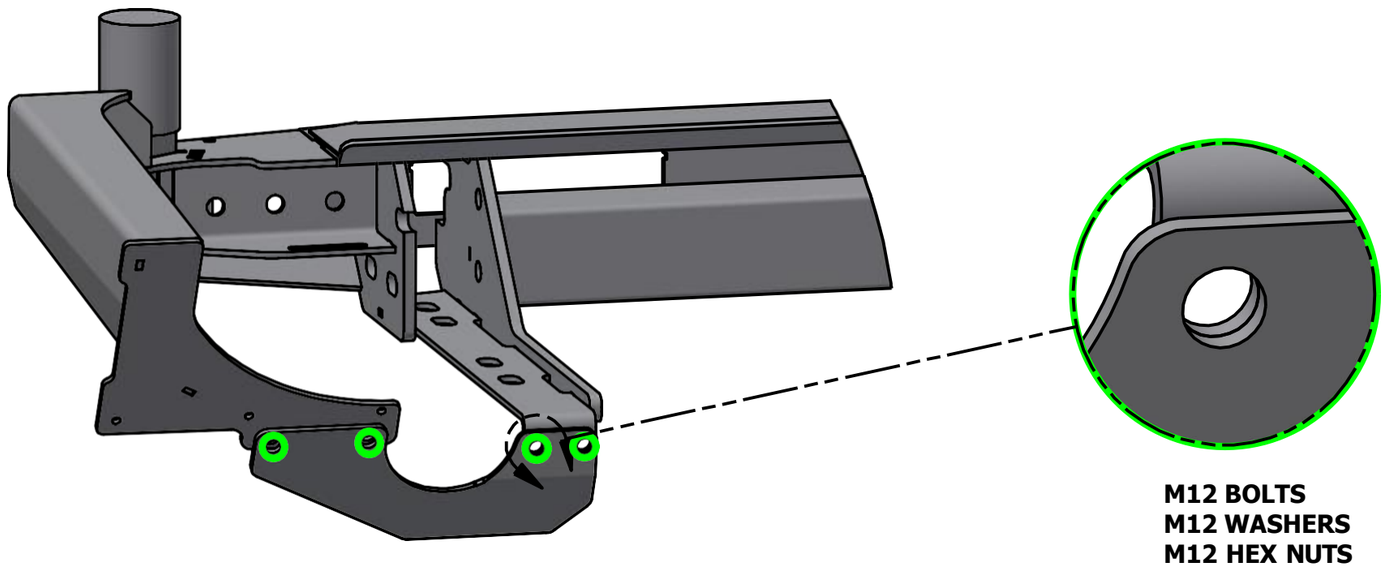
TORQUE SPECS & WING TO CHASSIS BRACES

5.5



MOUNTING BOLT TORQUE SPEC			
TORQUE SETTING (NM)	BOLT TYPE	LOCATION	COLOUR (AS SHOWN IN DRAWING)
30	M10 x 35mm	INTO NUTPLATES	B
50	M12 x 50mm	CHASSIS MOUNTS	A

5.6



M12 BOLTS
M12 WASHERS
M12 HEX NUTS

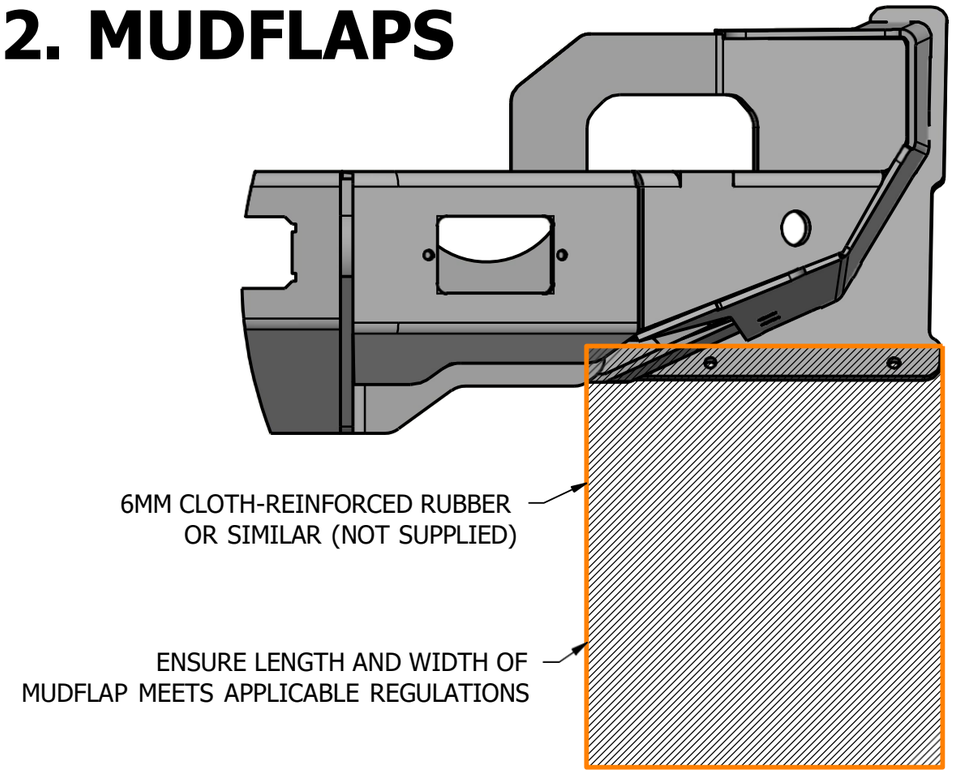
ENSURE WING TO CHASSIS PLATES AND ALL BOLTS
ARE ORIENTATED IN A WAY THAT THEY DO NOT INTERFERE WITH
WHEEL WHEN THE VEHICLE IS FLEXED.

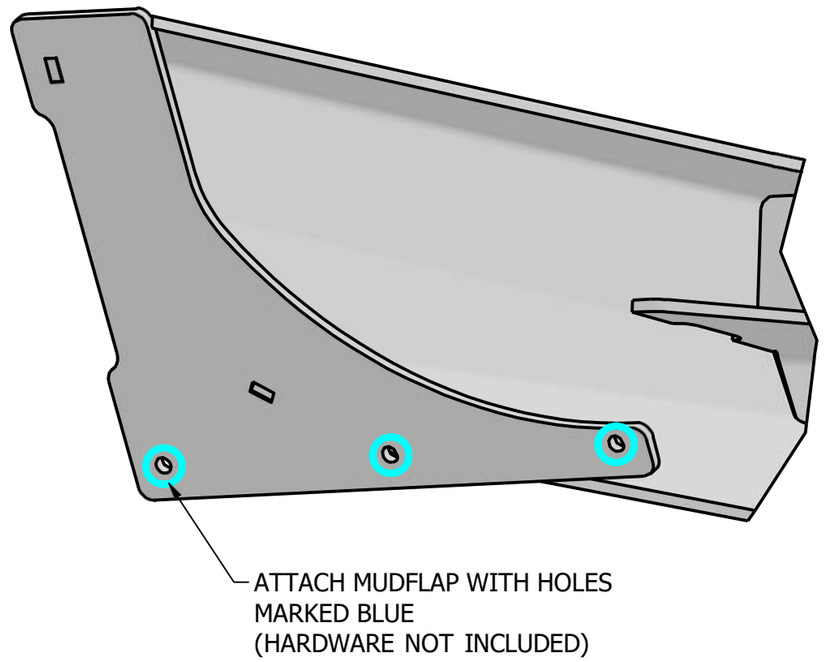
7. REAR BAR INSTALL

FINAL STEPS

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

7.2. MUDFLAPS





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

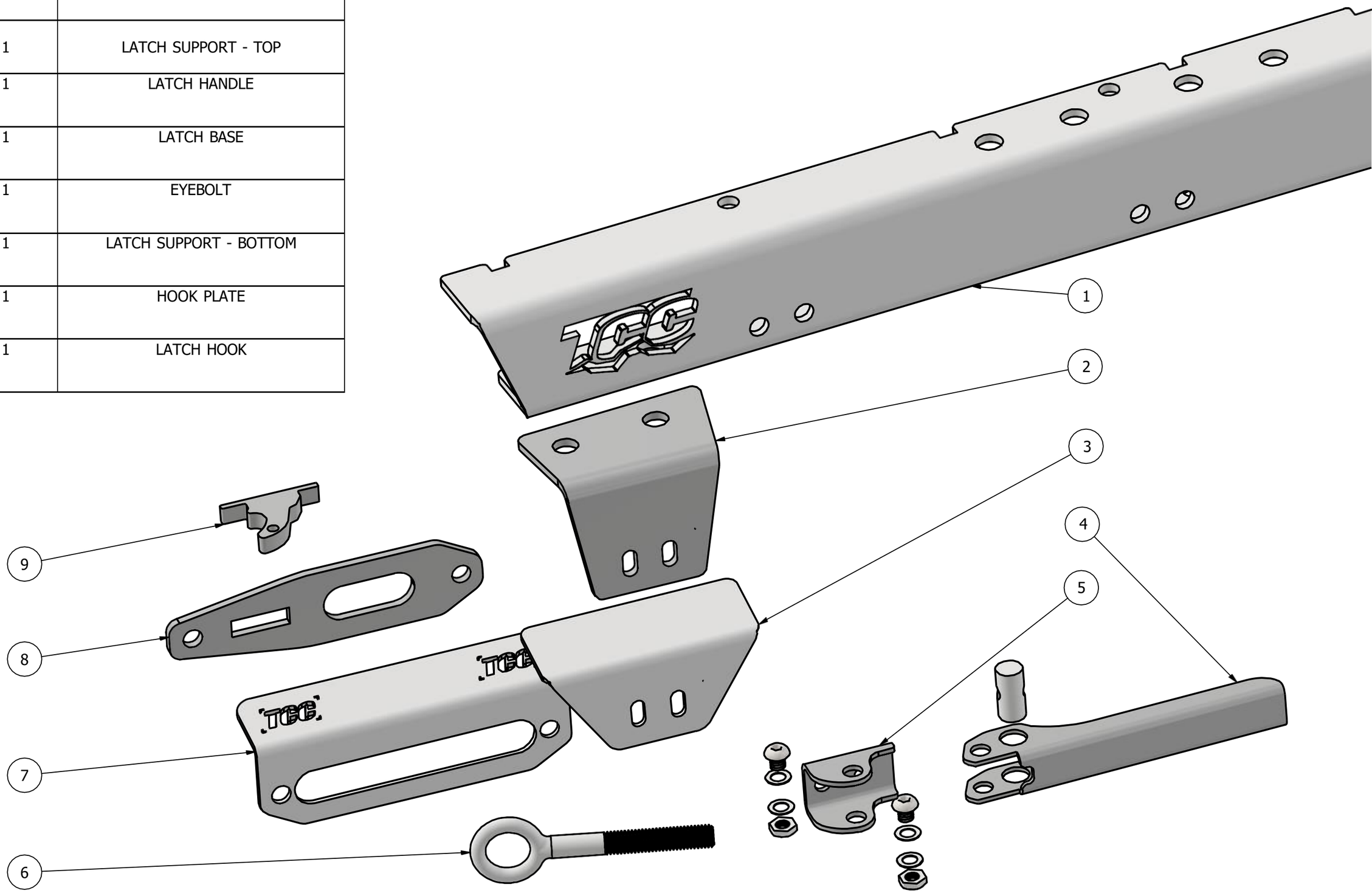
TCC LATCH ASSEMBLY

ASSEMBLY INSTRUCTIONS

AUSTRALIAN MADE



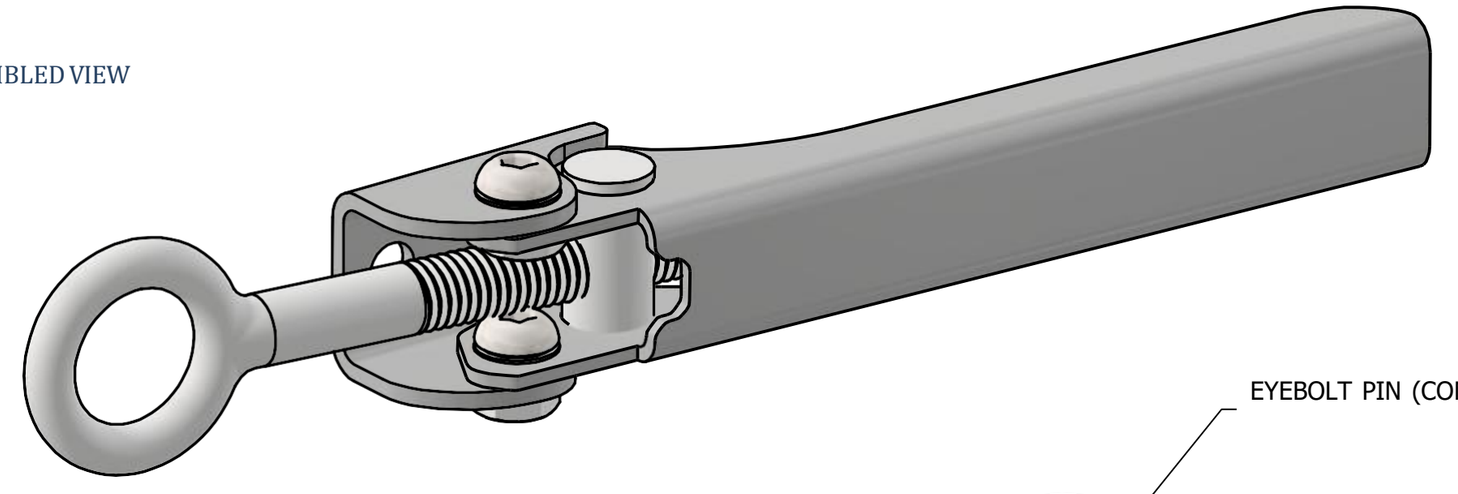
TABLE		
ITEM	QTY	ITEM NAME
1	1	TCC CARRIER ARM
2	1	LATCH DROP DOWN
3	1	LATCH SUPPORT - TOP
4	1	LATCH HANDLE
5	1	LATCH BASE
6	1	EYEBOLT
7	1	LATCH SUPPORT - BOTTOM
8	1	HOOK PLATE
9	1	LATCH HOOK



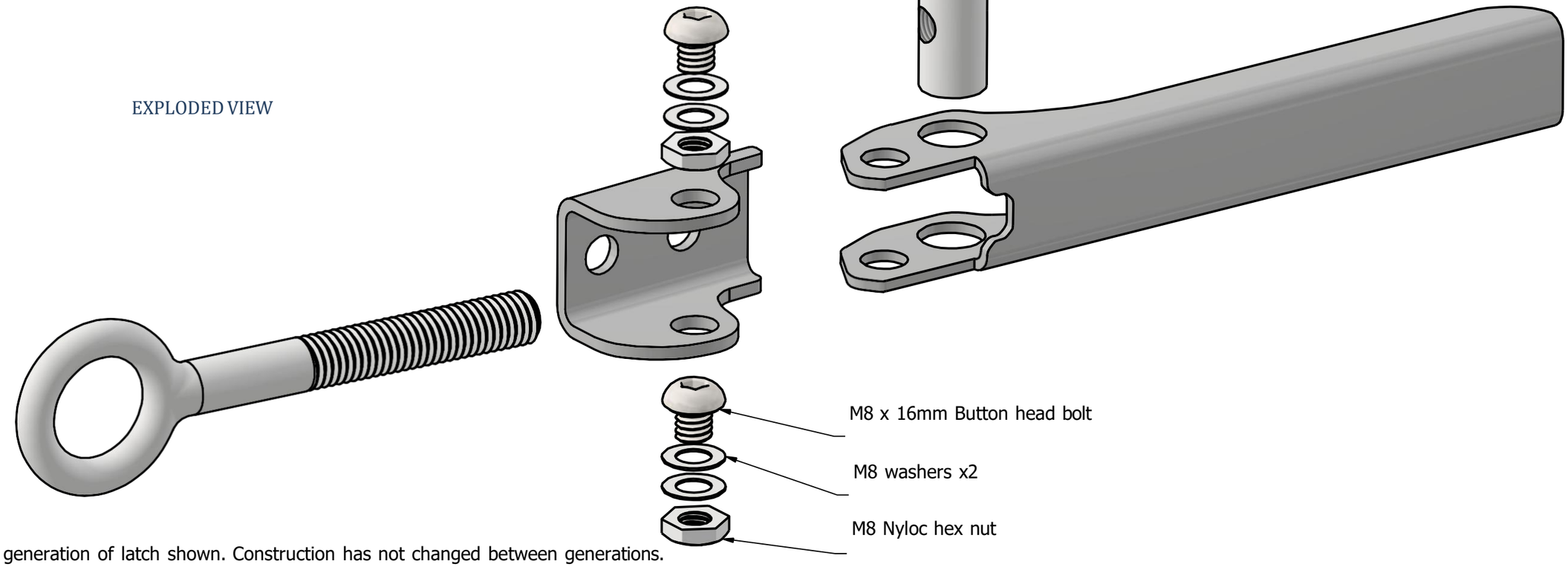
1. LATCH ASSEMBLY

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



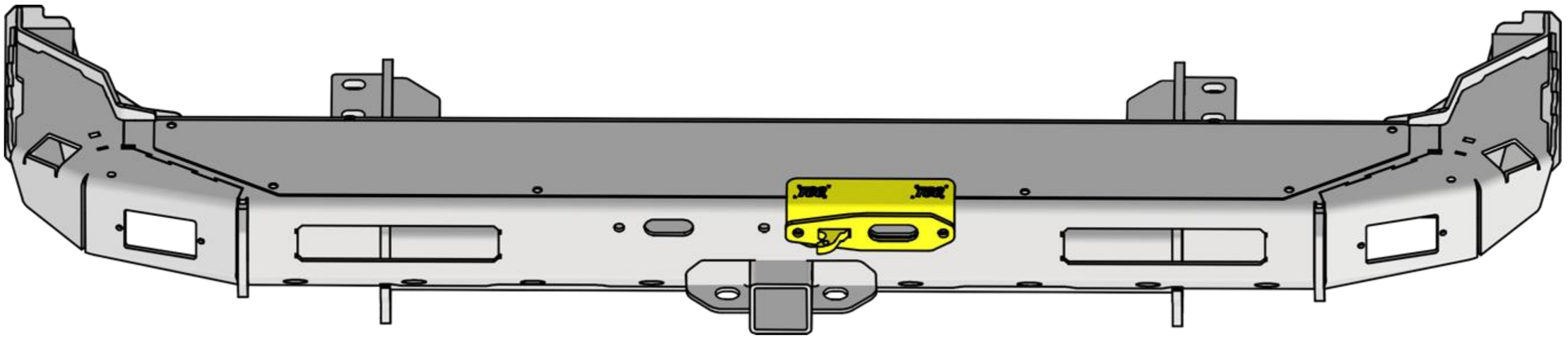
EXPLODED VIEW



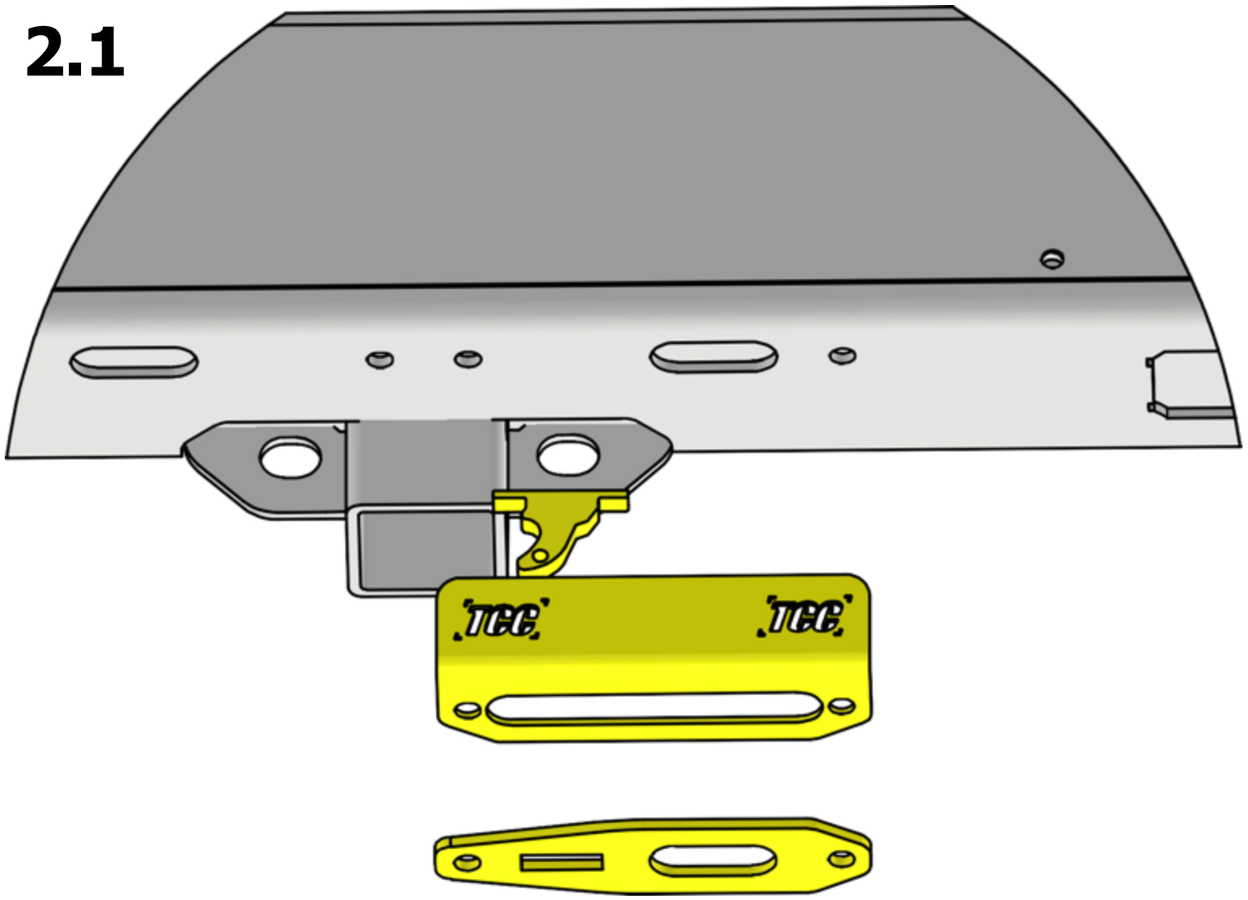
please note: previous generation of latch shown. Construction has not changed between generations.

2. JOINING LATCH TO REAR BAR

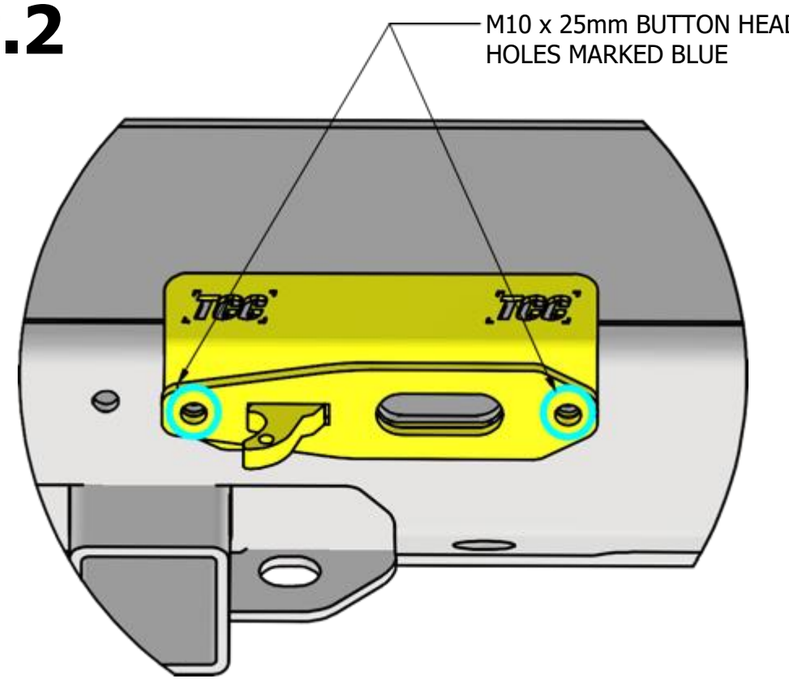
BAR BASE



2.1



2.2



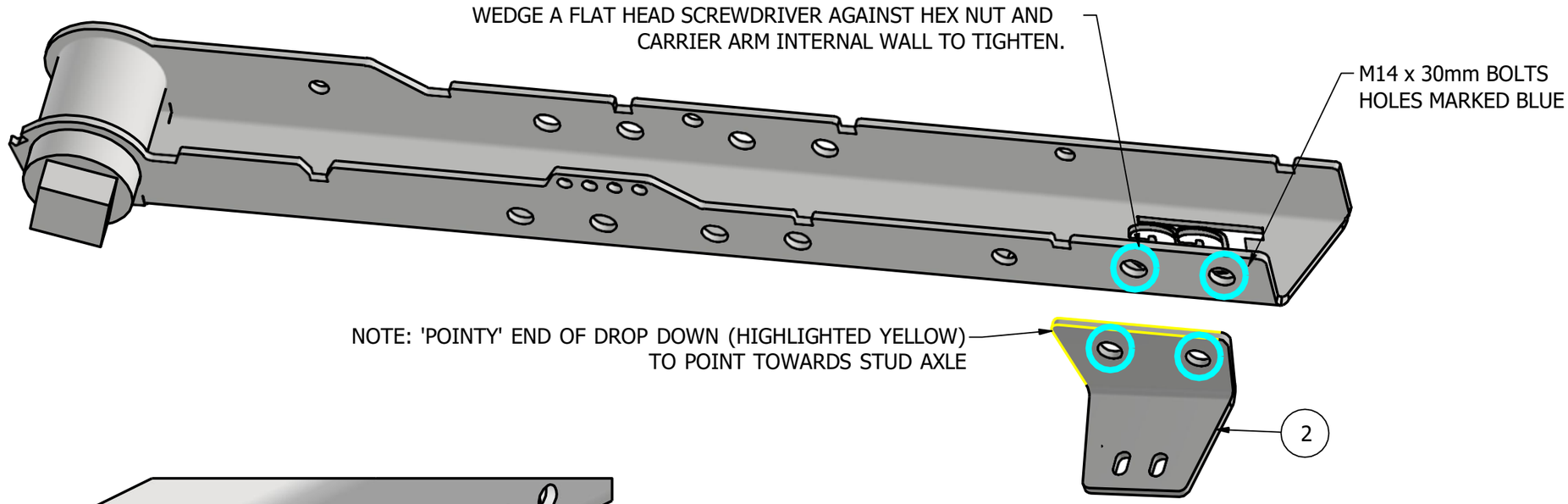
NOTE ORIENTATION OF ALL PARTS SHOWN

3. JOINING LATCH TO REAR BAR

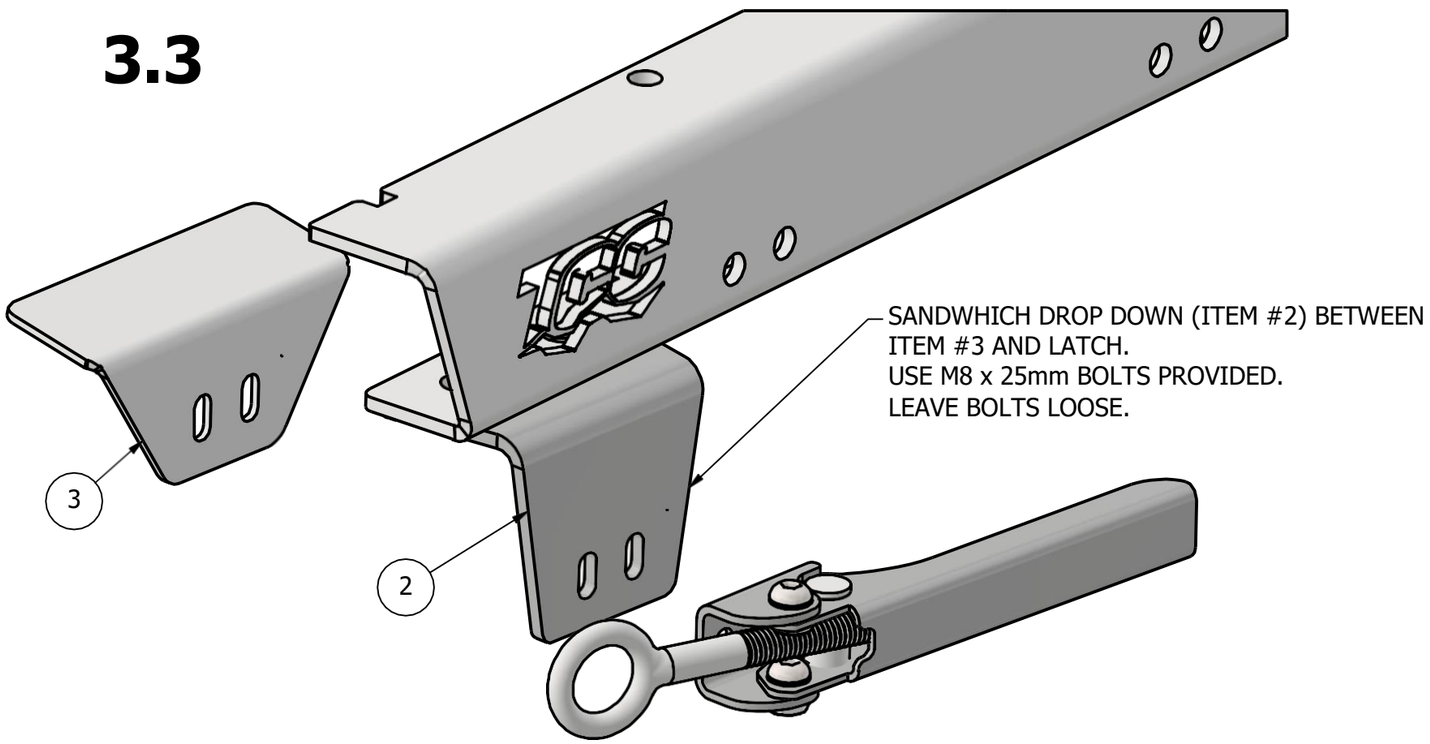
CARRIER ARM

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

3.2 REAR VIEW OF PASSENGER SIDE ARM



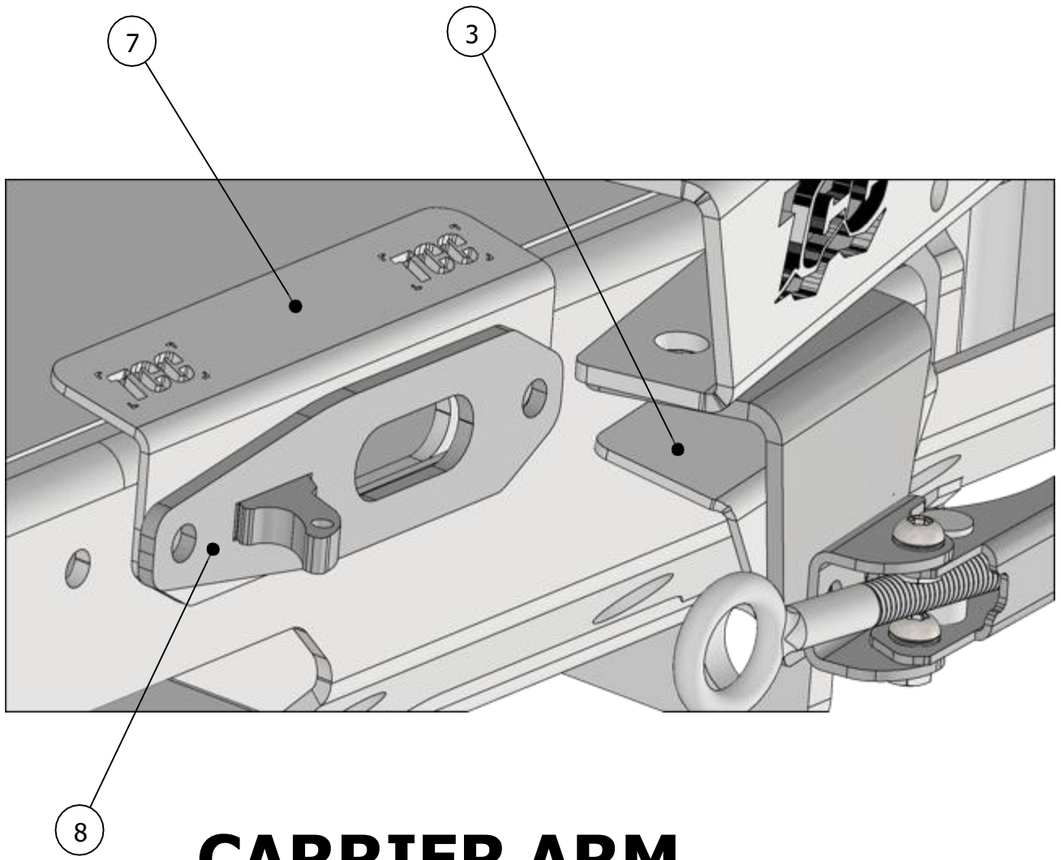
3.3



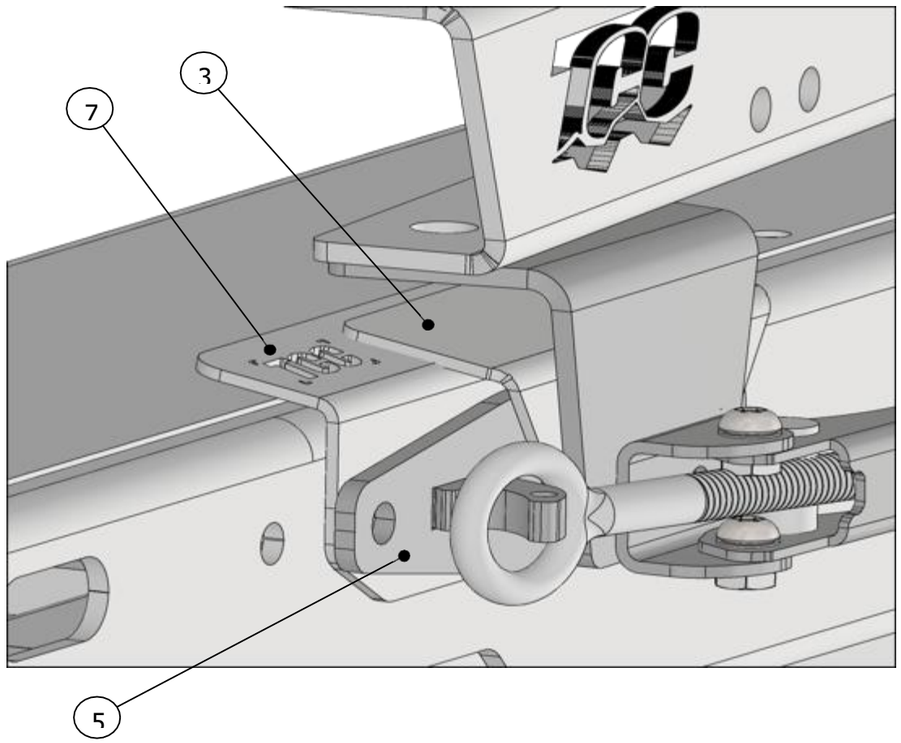
3. JOINING LATCH TO REAR BAR

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**.



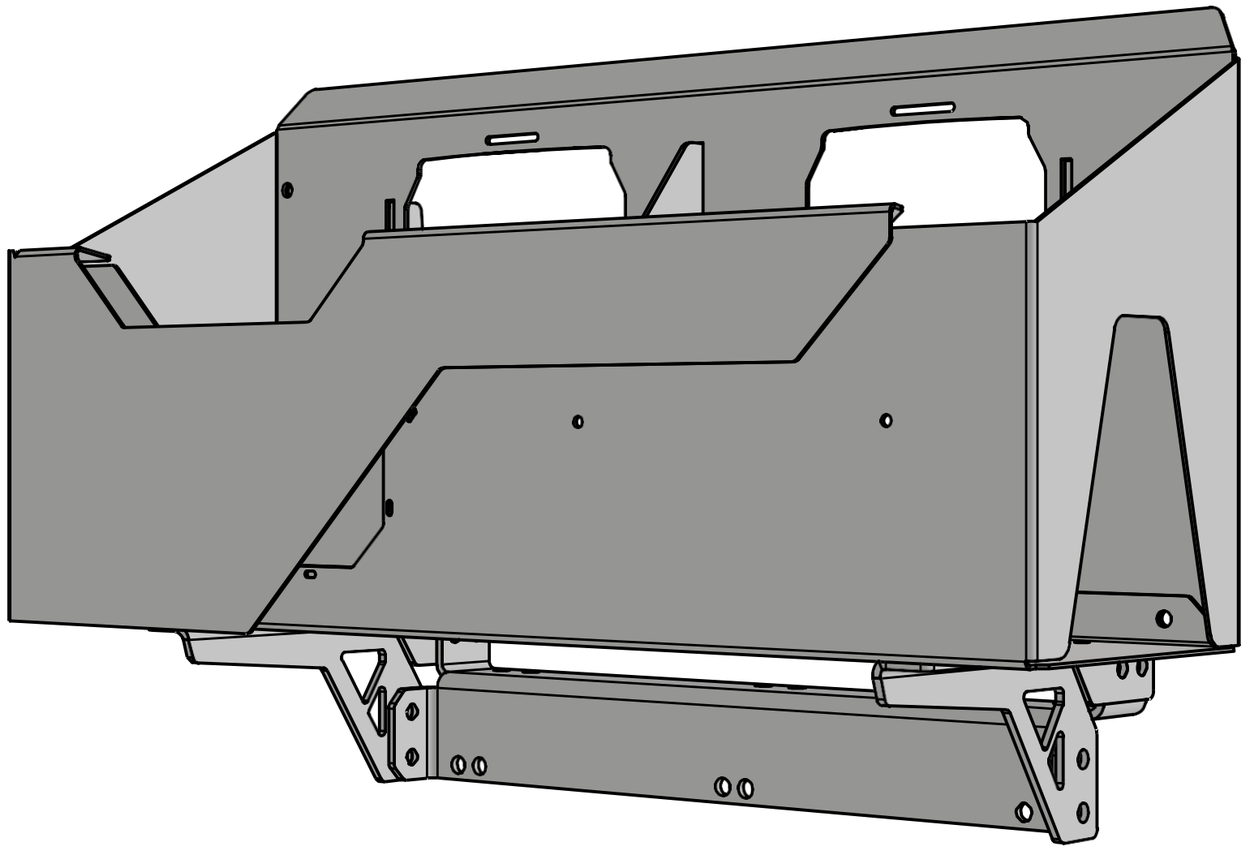
CARRIER ARM

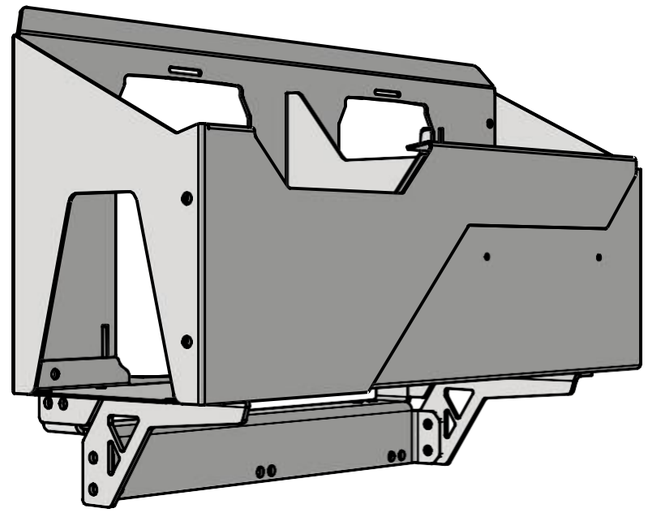


CARRIER ARM CLOSED

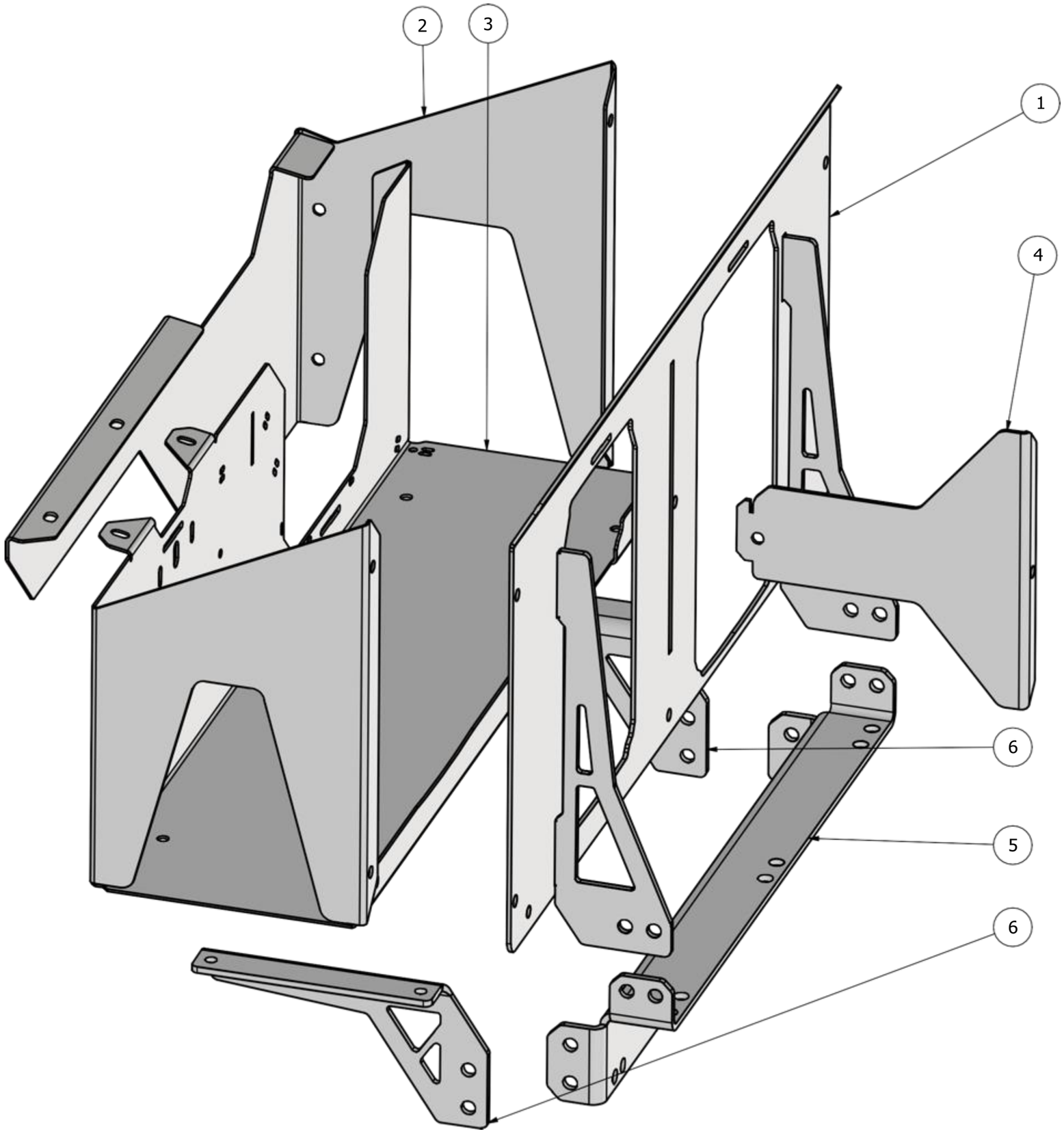
TCC JERRY/GAS HOLDER

ASSEMBLY INSTRUCTIONS



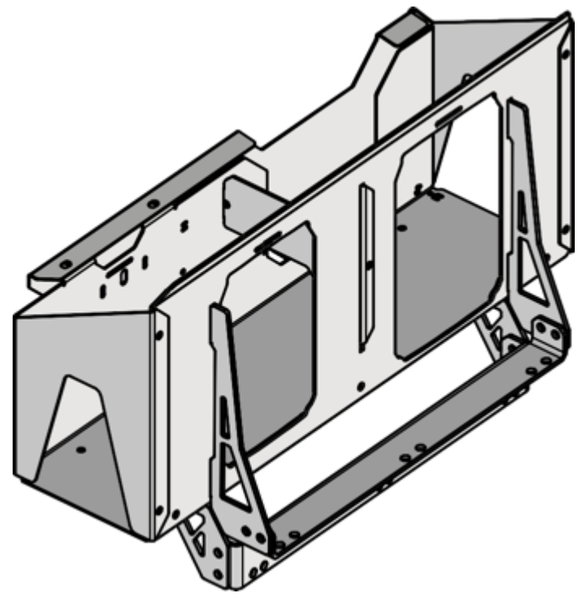


AUSTRALIAN MADE



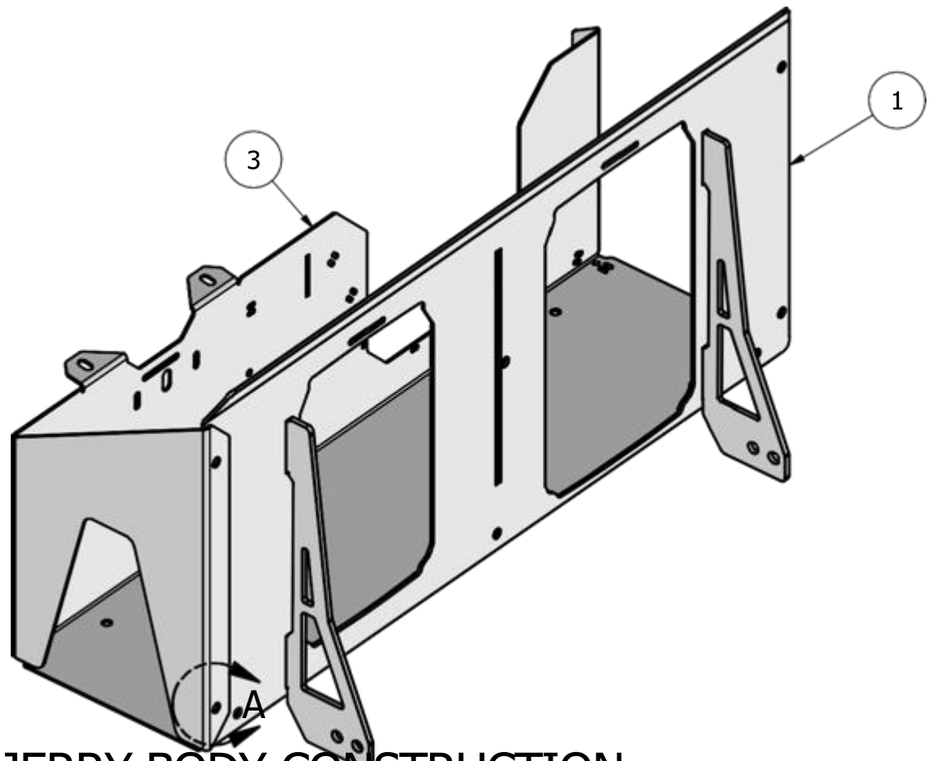
PARTS LIST		
ITEM	QTY	DESCRIPTION
1	1	JERRY BACKING
2	1	JERRY FRONT COVER
3	1	JERRY INTERNAL
4	1	JERRY DIVIDER
5	1	UNIVERSAL SHELF BASE
6	2	JERRY LOWER GUSSET

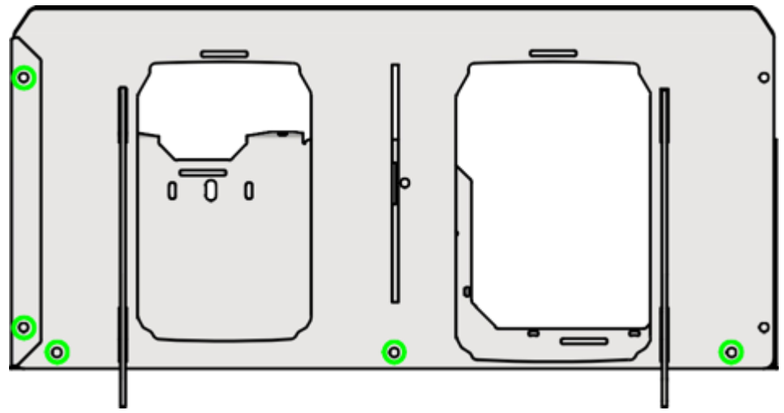
HARDWARE KIT (INCLUDED)	
QTY	DESCRIPTION
8	M10 X 25mm BUTTON HEAD BOLTS
6	M10 X 20mm BUTTON HEAD BOLTS
28	M10 WASHERS
14	M10 NUTS
16	M8 x 20mm BUTTON HEAD BOLTS
32	M8 WASHERS
16	M8 NUTS

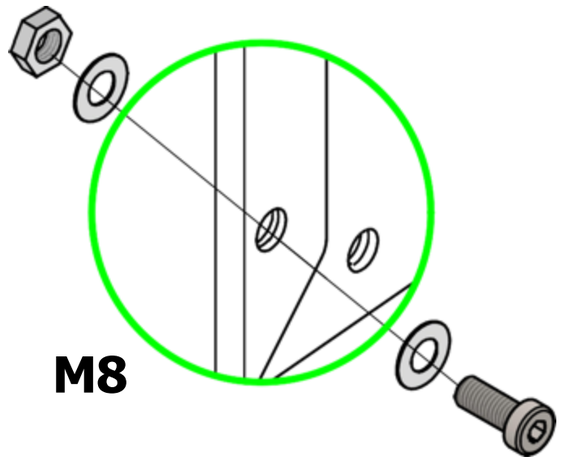


FULLY ASSEMBLED

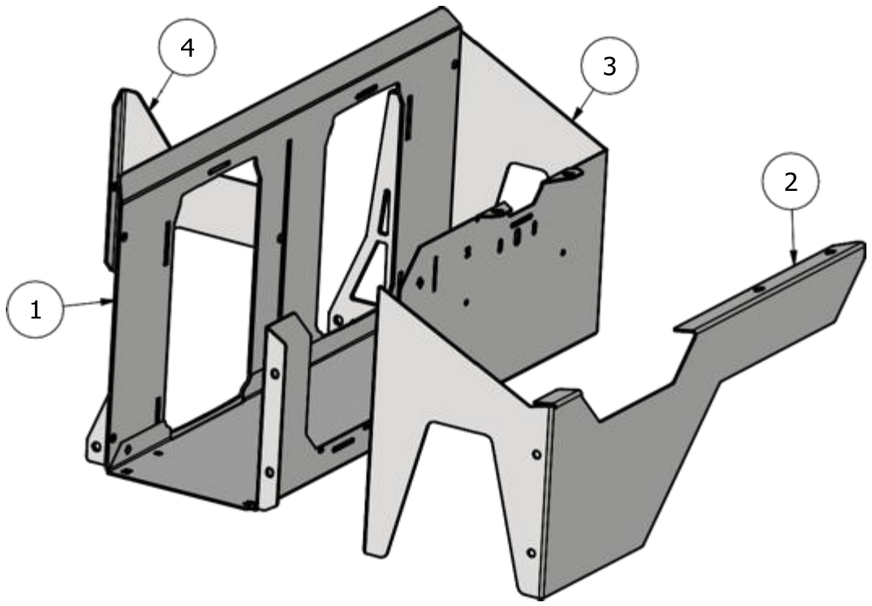
1. JERRY BODY CONSTRUCTION

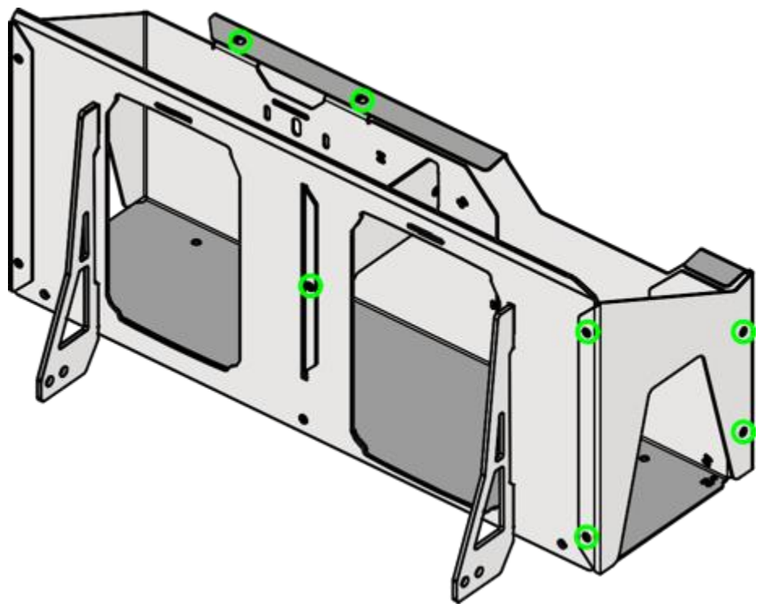




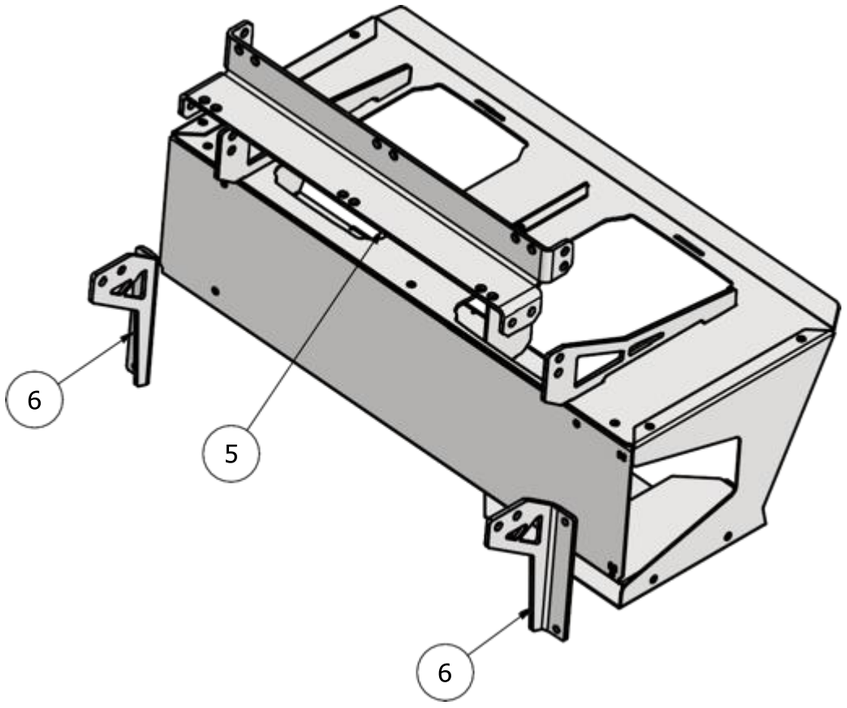


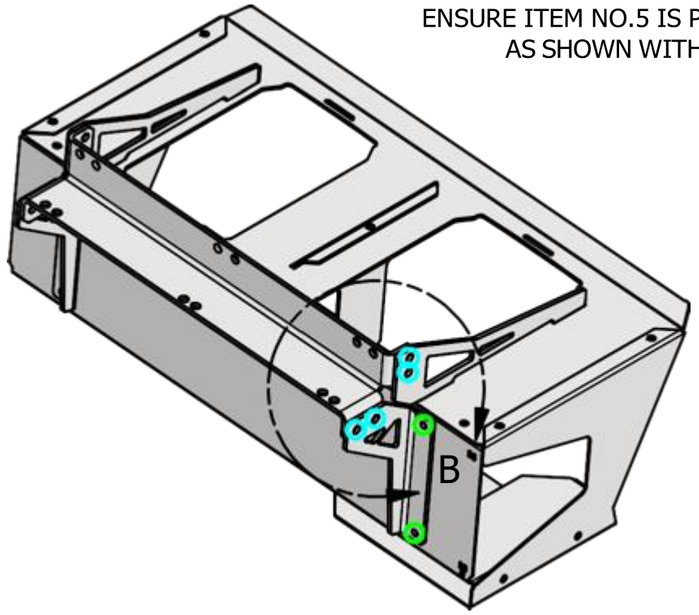
2. JERRY BODY CONSTRUCTION



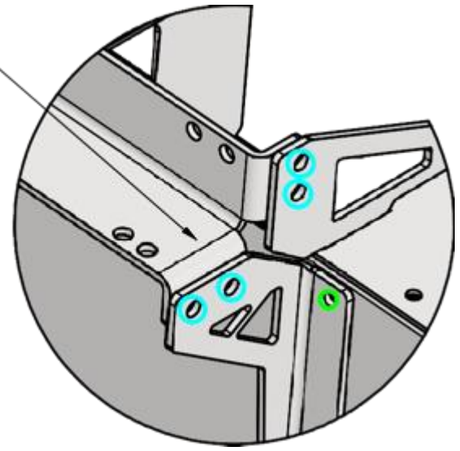


3. ATTACH UNIVERSAL MOUNT

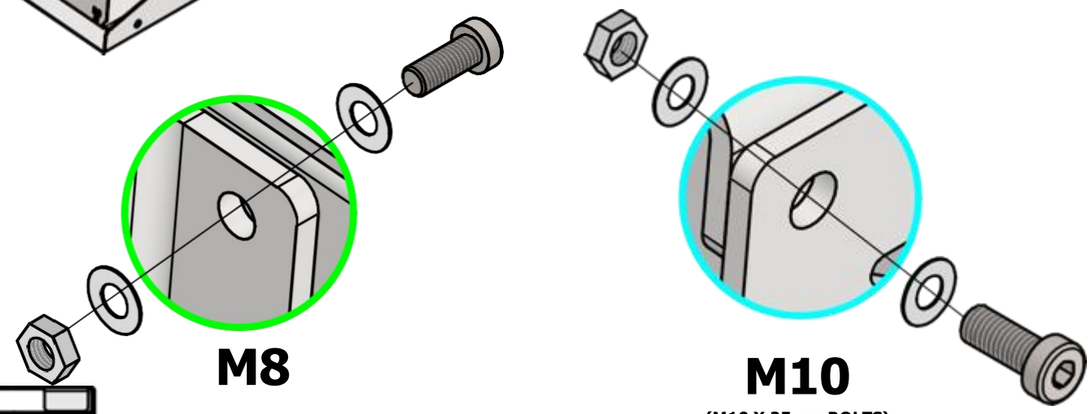




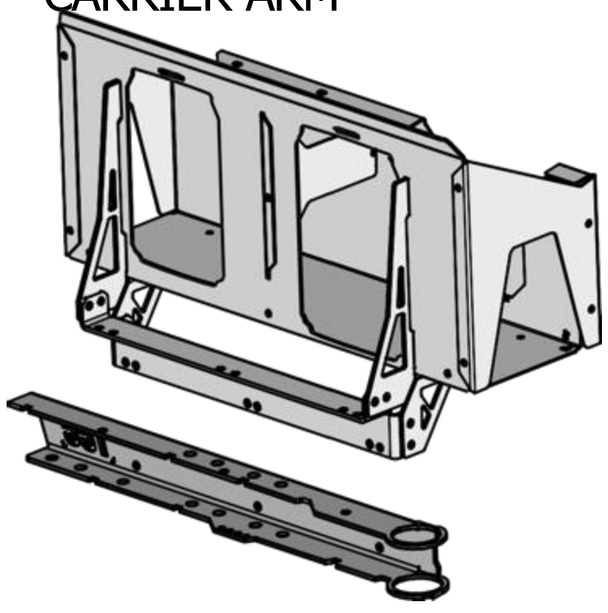
ENSURE ITEM NO.5 IS POSITIONED AS SHOWN WITHIN MOUNTS

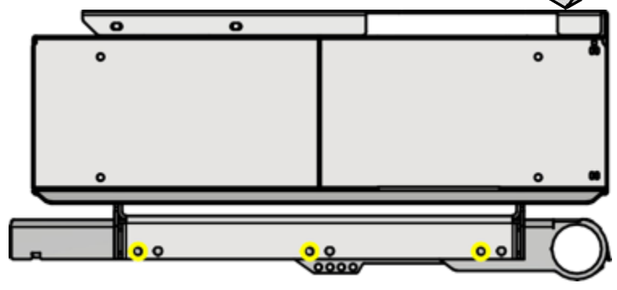


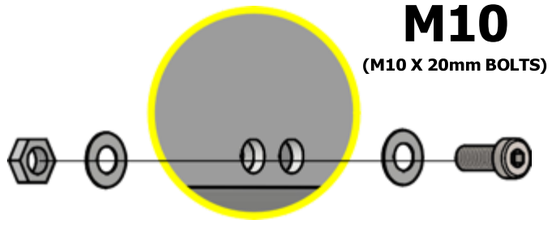
DETAIL B

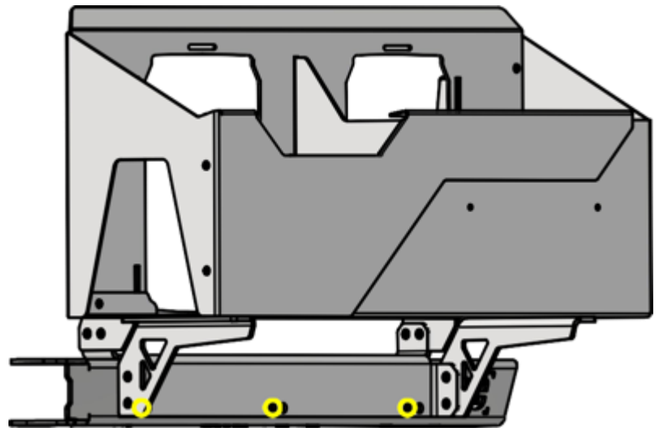


4. ATTACH ASSEMBLY TO CARRIER ARM







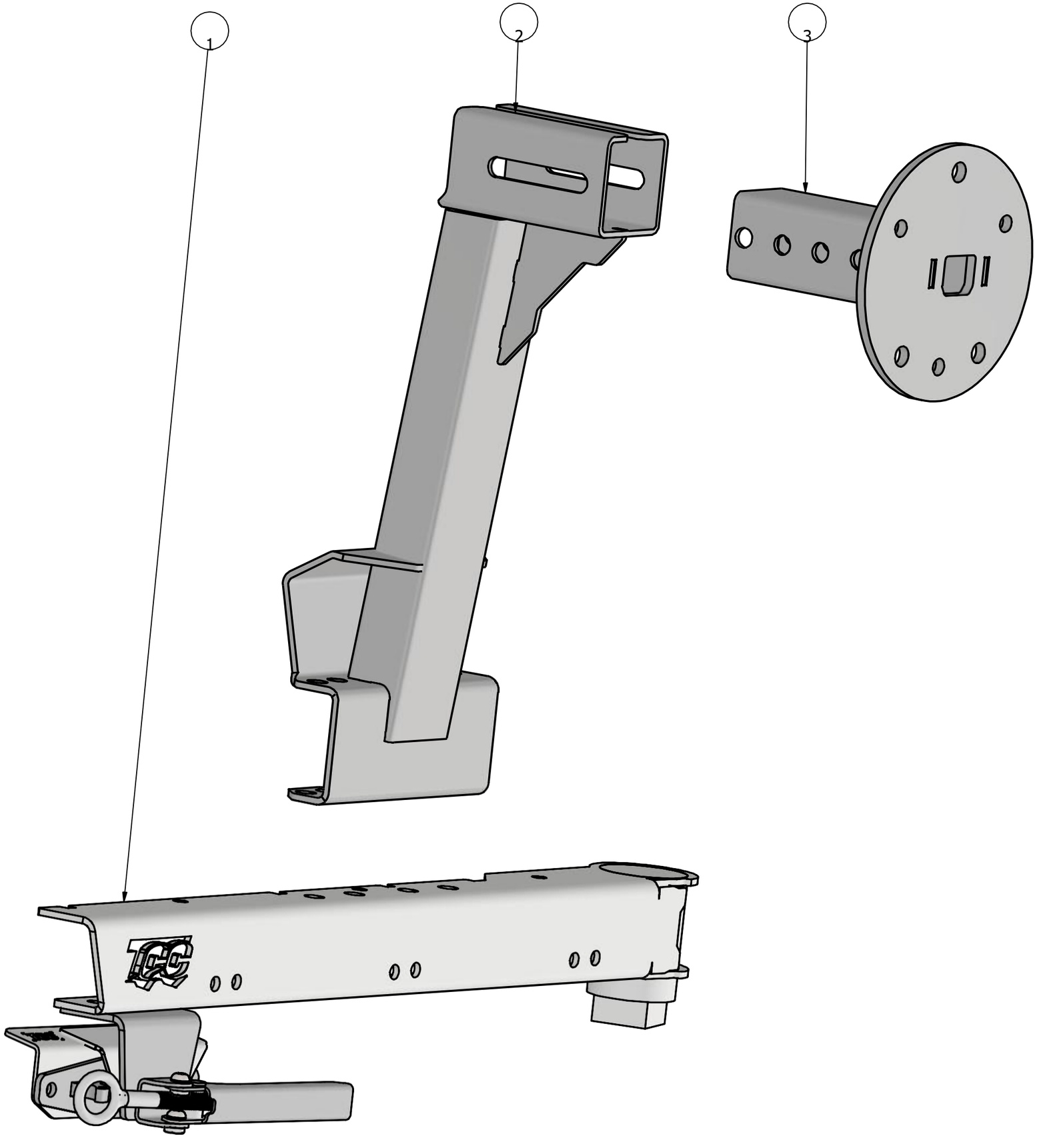


TCC TYRE UPRIGHT & TYRE HEAD

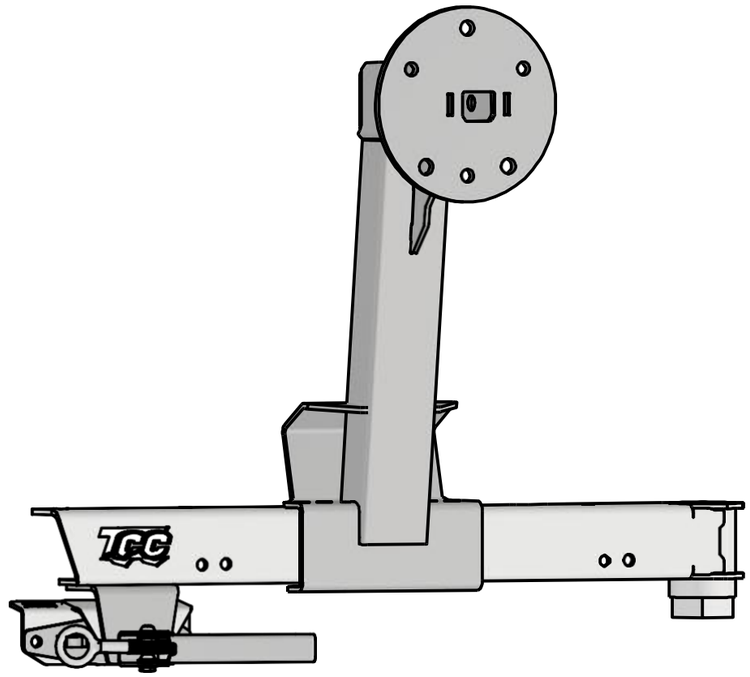
ASSEMBLY INSTRUCTIONS




AUSTRALIAN MADE



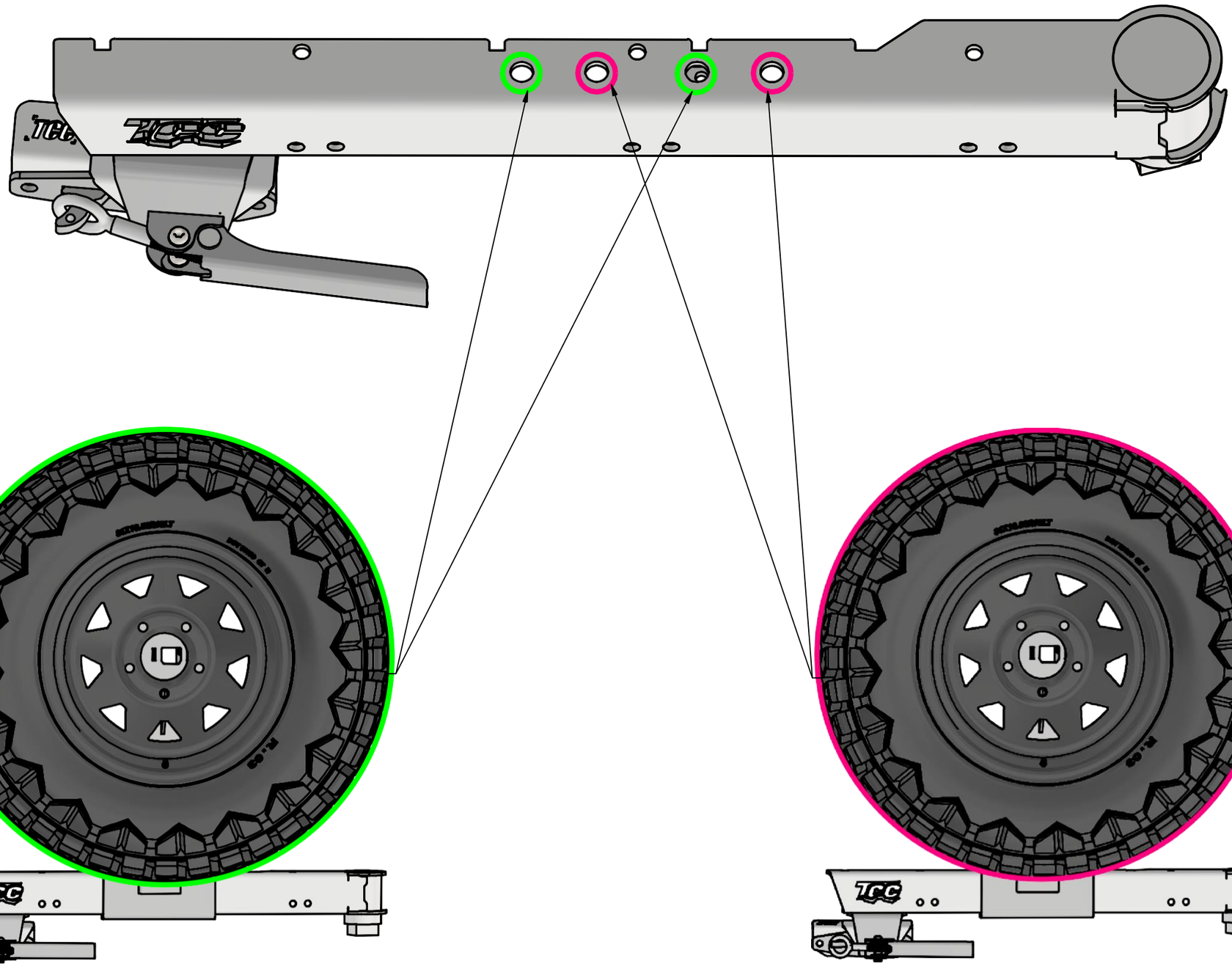
PARTS LIST		
ITEM #	QTY	PART NAME
1	1	TCC CARRIER ARM ASSEMBLY
2	1	TYRE UPRIGHT
3	1	TYRE HEAD



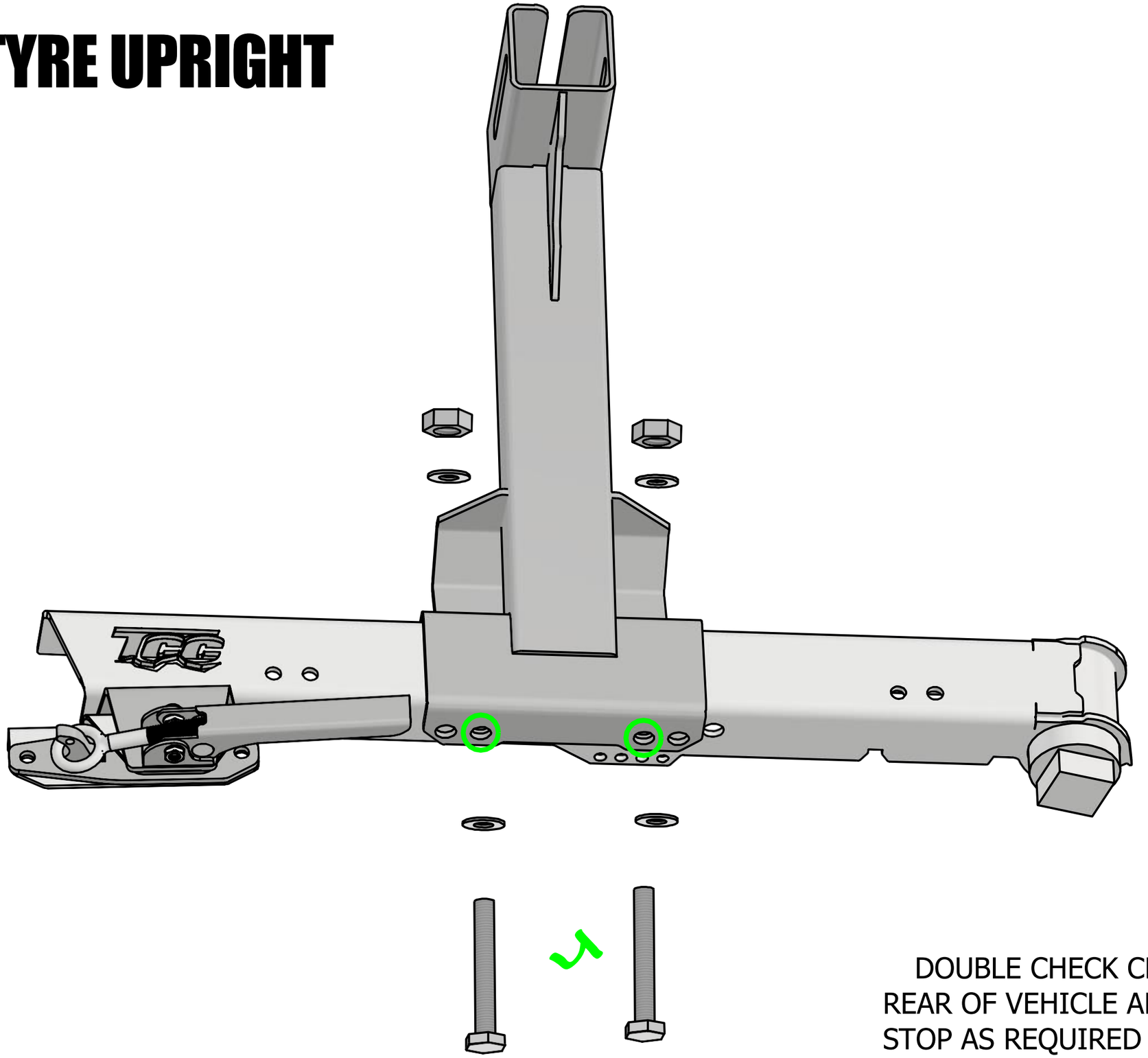
ASSEMBLED VIEW

1. INSTALL THE TYRE UPRIGHT

TCC Carrier Arm must be assembled prior to installation



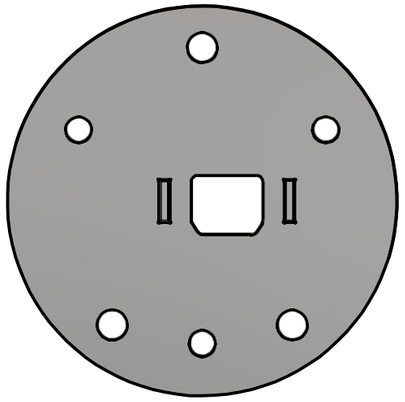
2. INSTALL TYRE UPRIGHT

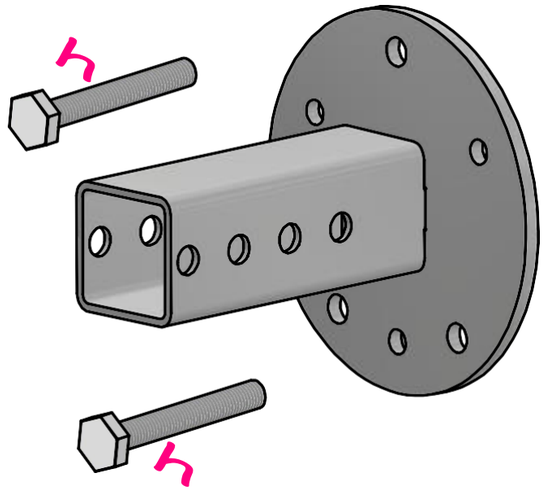


M14 x 110mm
BOLTS M14
WASHERS
M14 NUTS

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

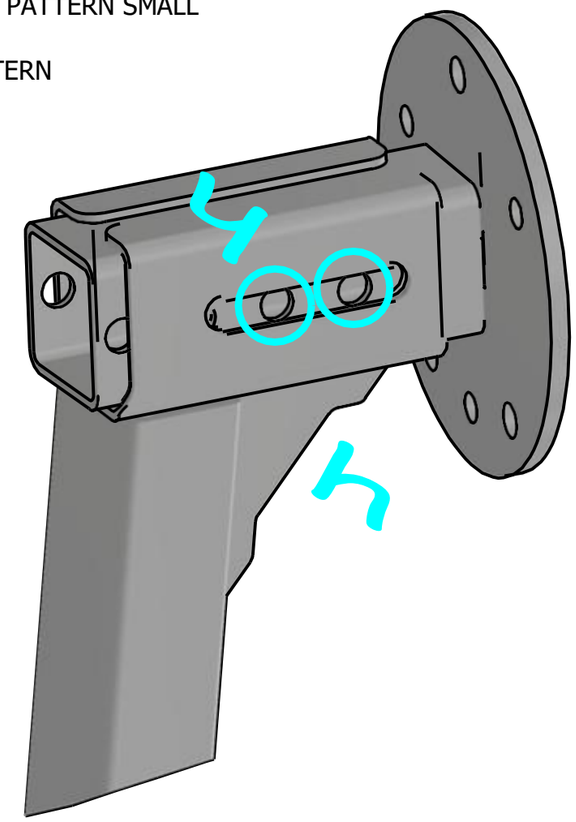
3. MOUNT TYRE HEAD





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 and nuts

