TCC LC 200 REAR BAR

TECHNICAL DATA SHEET & FITTING INSTRUCTIONS

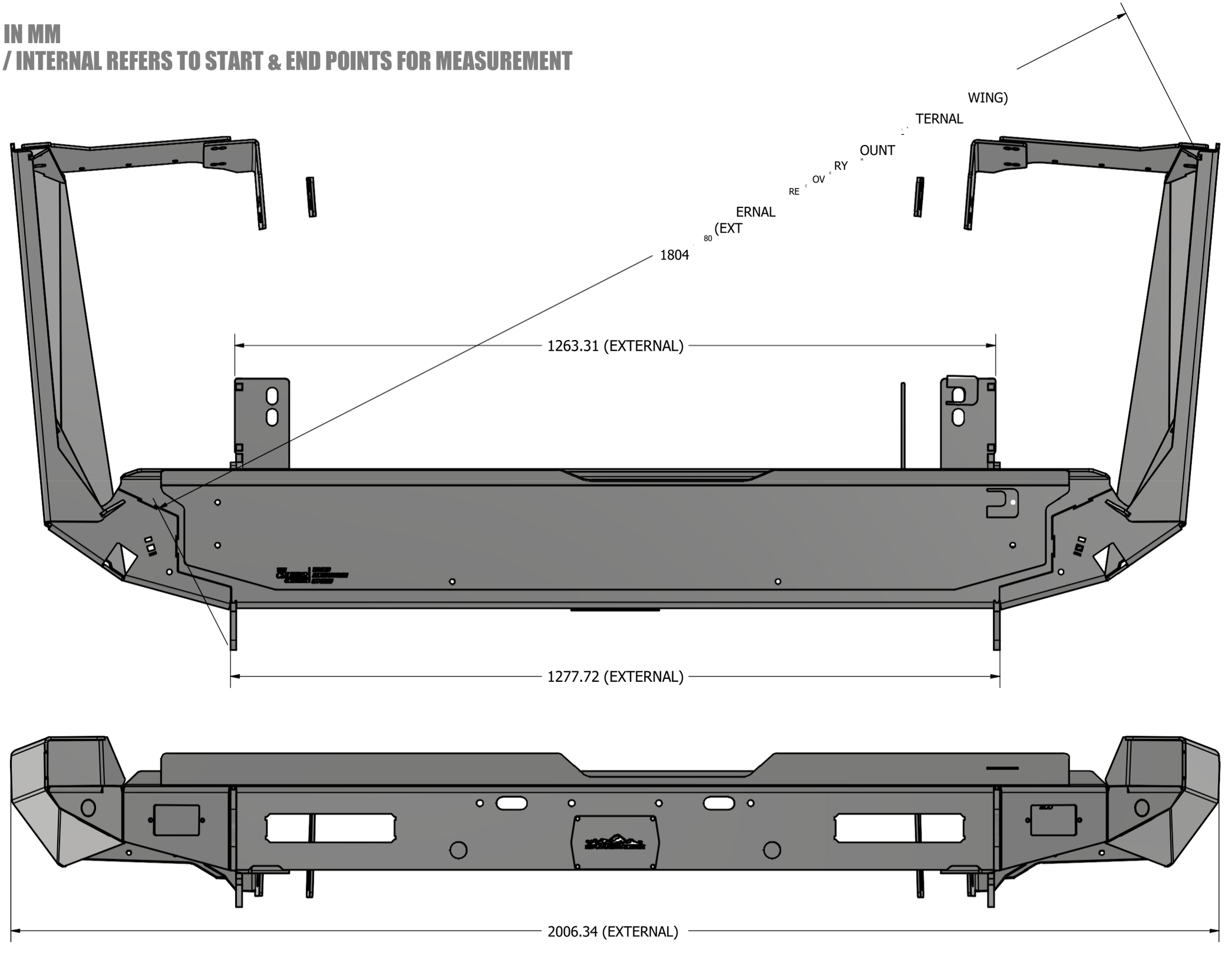
*** BAR BASE ONLY - JERRY HOLDER, CARRIER ARM, LATCH & TYRE UPRIGHT INSTRUCTIONS FOUND AT: www.thecruisercompany.com.au**



AUSTRALIAN MADE

GENERAL DIMENSIONS

ALL UNITS IN MM
EXTERNAL / INTERNAL REFERS TO START & END POINTS FOR MEASUREMENT



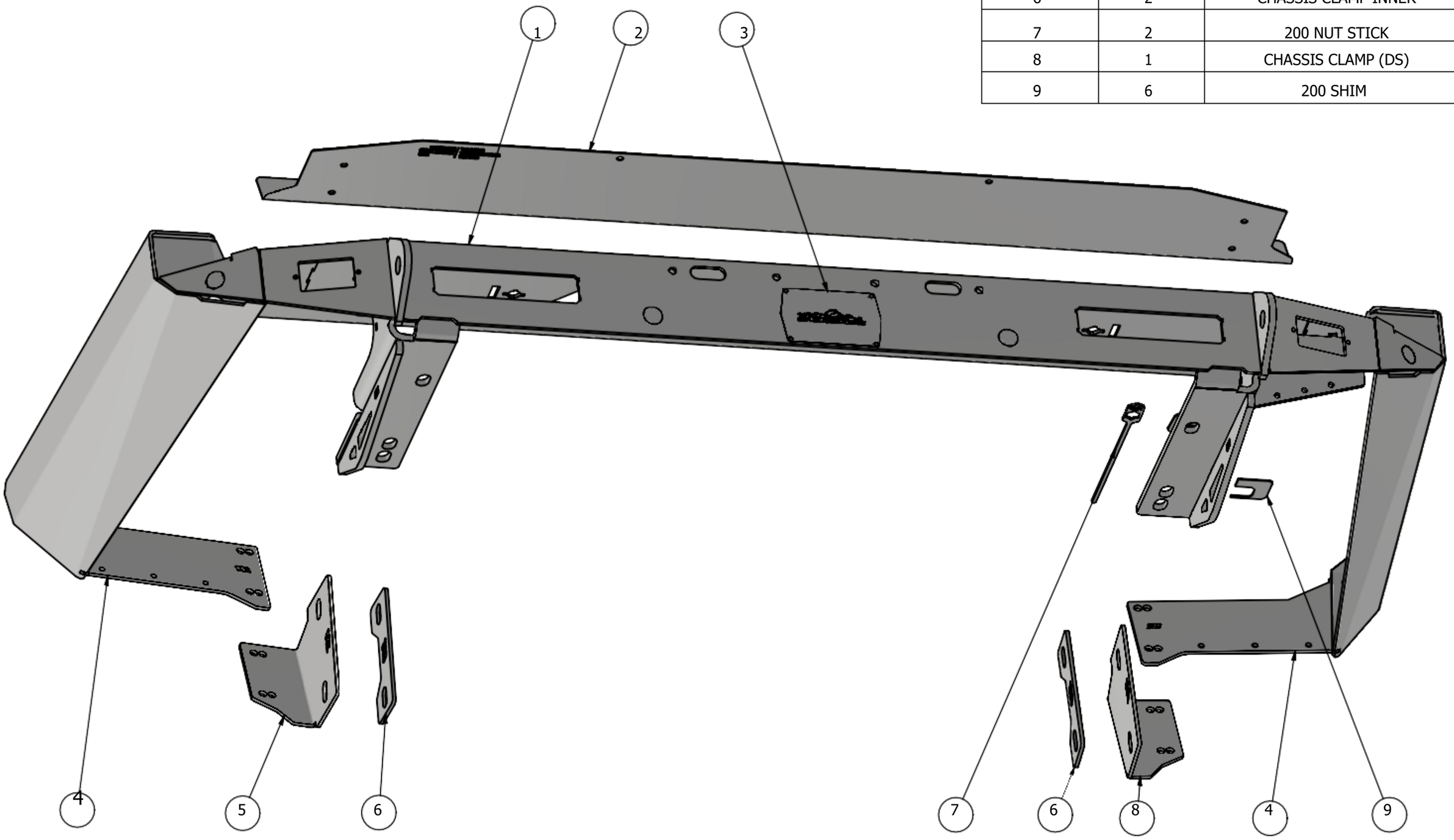
BAR BASE ASSEMBLY

* DS = DRIVERS SIDE
  PS = PASSENGER SIDE

  RIGHT HAND DRIVE VEHICLE SPECIFIED

1	1	200 REAR BAR BASE

PARTS LIST		
ITEM	QTY	PART NAME
2	1	TREAD PLATE
3	1	TOW HITCH COVER
4	1	WING TO CHASSIS PLATE
5	1	CHASSIS CLAMP (PS)
6	2	CHASSIS CLAMP INNER
7	2	200 NUT STICK
8	1	CHASSIS CLAMP (DS)
9	6	200 SHIM



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 50mm BOLTS	2	CHASSIS MOUNT (REARMOST POSITION ON CHASSIS)
M10 WASHERS	2	CHASSIS MOUNT (REARMOST POSITION ON CHASSIS)
M10 NUT STICKS	2	CHASSIS MOUNT (REARMOST POSITION ON CHASSIS)
M12 x 1.25 x 50mm BOLTS	4	CHASSIS MOUNT (ALL OTHER MOUNTS)
M12 WASHERS	4	CHASSIS MOUNT (ALL OTHER MOUNTS)

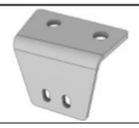


1. PREPARING FOR INSTALL

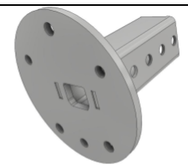
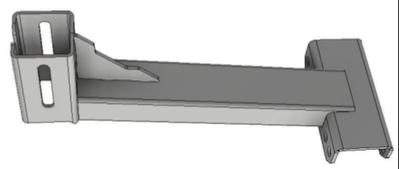
BAR BASE - DETAILED IN ASSEMBLY VIEW (PAGE 3)

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		

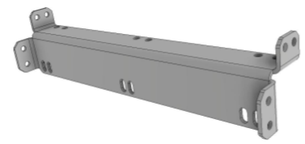
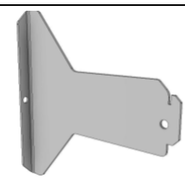
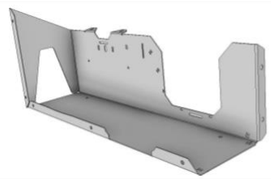
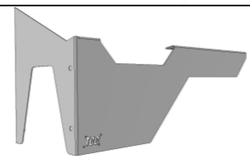
TYRE CARRIER

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
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. 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.

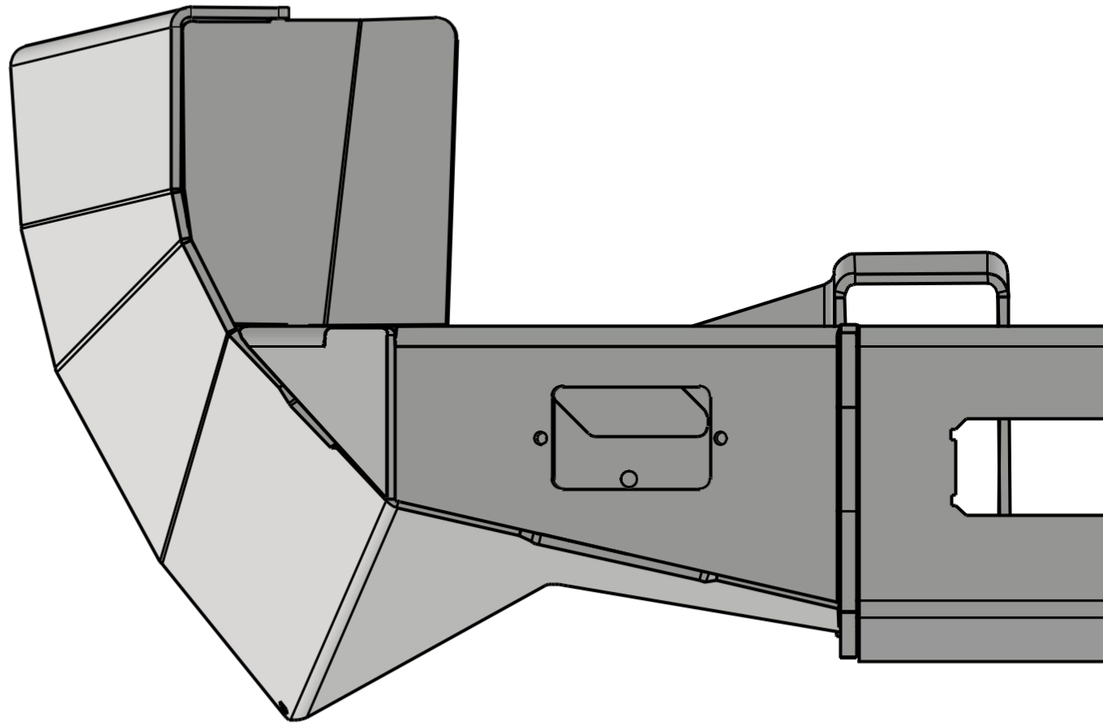
- Keep external joins and moving components properly protected with a lubricant such as Lanolin.

- 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.



3. REMOVE FACTORY REAR BUMPER

3.1. Drop spare wheel down from factory position and set aside for reinstallation on TCC rear bar.

3.2. Gently pry off factory tread plate until it unclips. Remove and set aside.

3.3. Remove all fasteners and retainer clips holding mudflap to vehicle. Remove and set aside.

3.4. Remove 2 x bolts underneath tow hitch securing bumper to vehicle.

3.5. Remove 3 x bolts (each side - underneath) securing the bumper to the vehicle.

3.6. Remove 2 x plastic clips in rear door jamb (each side)

3.7. Remove bolts securing bumper to lip of rear door.

3.8. Unplug parking sensors (if fitted) from vehicle harness. Do not unplug individual sensors at this stage.

3.9. Pull bumper away from vehicle and set aside. Bumper will need to be reinstalled (with a bumper chop).

3.10. Remove factory tie down points secured to the underside of the chassis.

3.11. Remove 3 x bolts each side and 1 x center bolt on the spare wheel crossmember. Remove and set it aside.

4. PREPARE CHASSIS

4.1. The rear-most mounting holes on the vehicle chassis must be drilled out to **16mm** before the TCC rear bar can be installed. Drill holes as shown in **FIGURE 4.A & 4.B.** Apply paint to protect against rust.

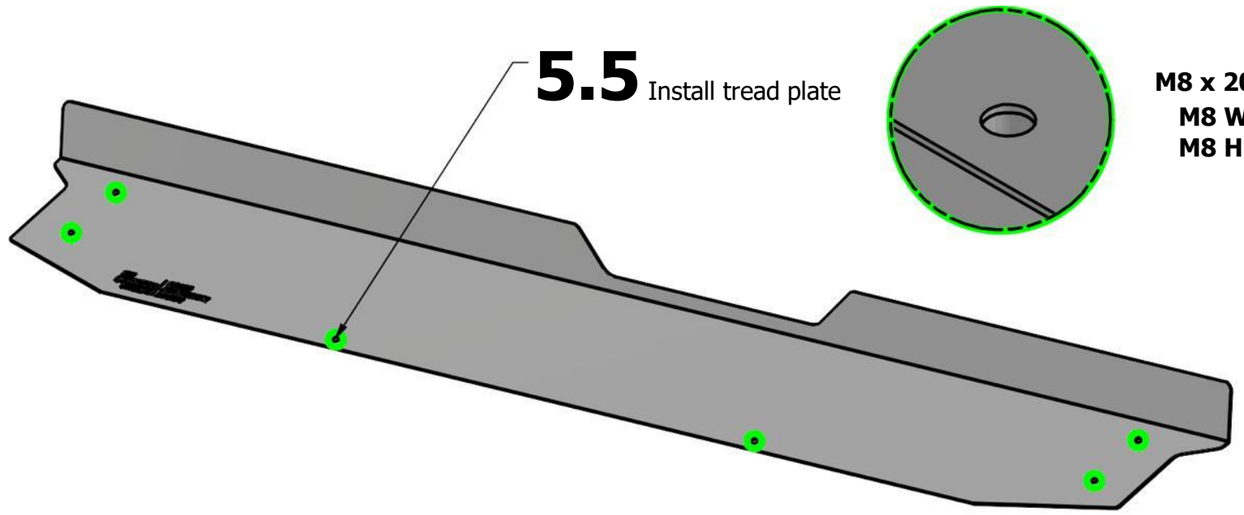


FIGURE 4.A



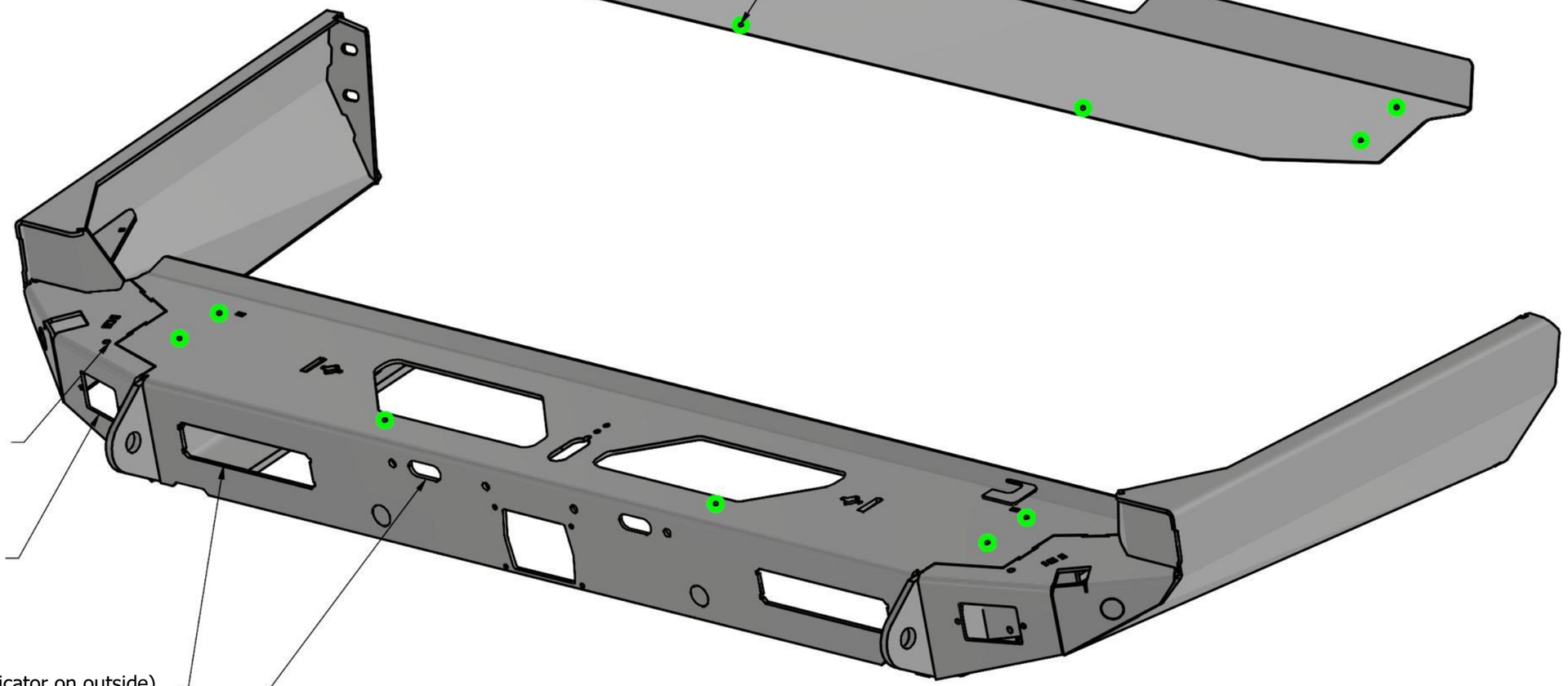
FIGURE 4.B

5. PREPARE REAR BAR



5.5 Install tread plate

M8 x 20mm BOLT
M8 WASHERS
M8 HEX NUT



5.1 Install gas strut balls

5.2 Install reverse lights

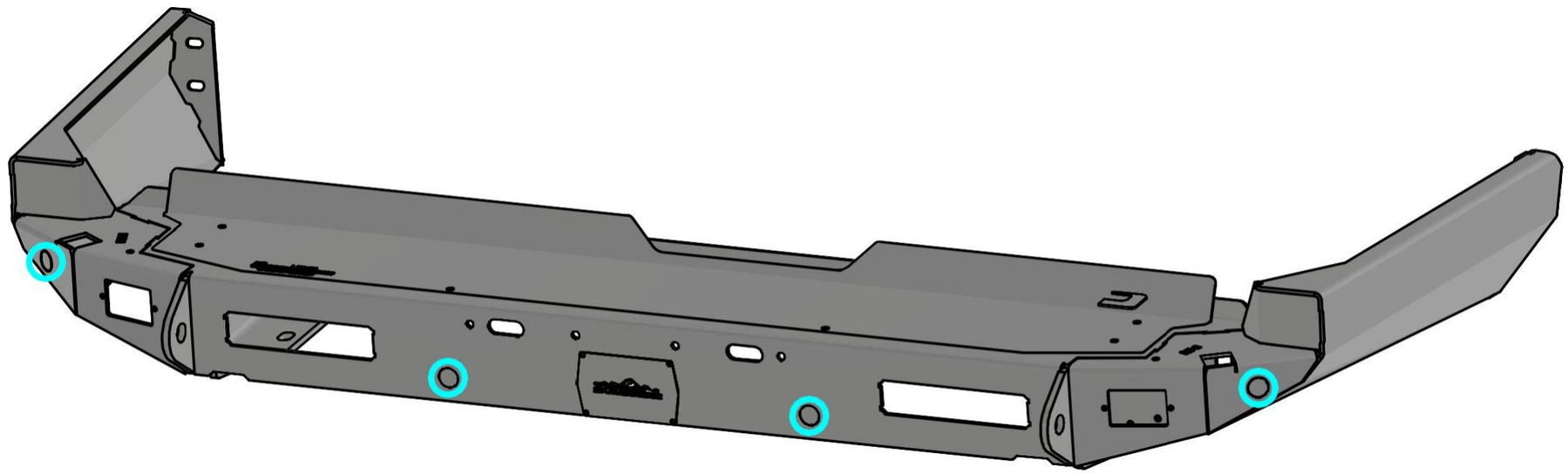
5.3 Install tail lights (indicator on outside)

5.4 Install latch hooks, hook plates and carrier arm support plates (instructions on the TCC website)

5. REAR BAR INSTALL

PREPARING THE PARKING SENSORS

5.1 Punch out sensor cutouts from TCC rear bar (highlighted blue) with a center punch or similar.



5.2 Remove factory parking sensors from the rear bumper along with plastic sensor housing.

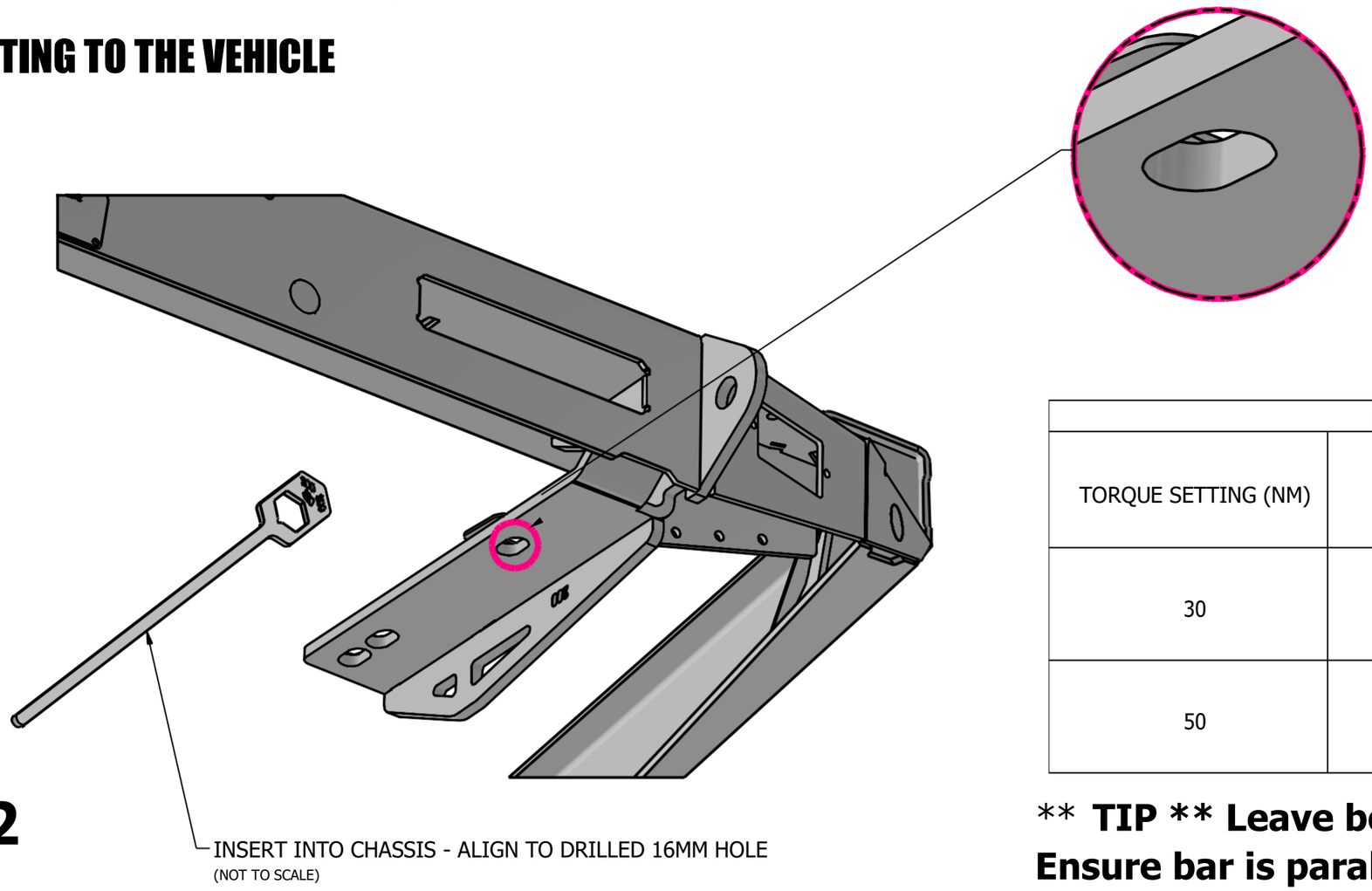
IMPORTANT: Take note of the orientation and position of each parking sensor. They must be placed into the TCC rear bar in the same position and orientation. Failure to do so will cause the parking sensors to malfunction.

5.3 Insert factory sensor housings into the TCC rear bar from the front, followed by the factory parking sensors from the rear.

6. REAR BAR INSTALL

FITTING TO THE VEHICLE

6.1

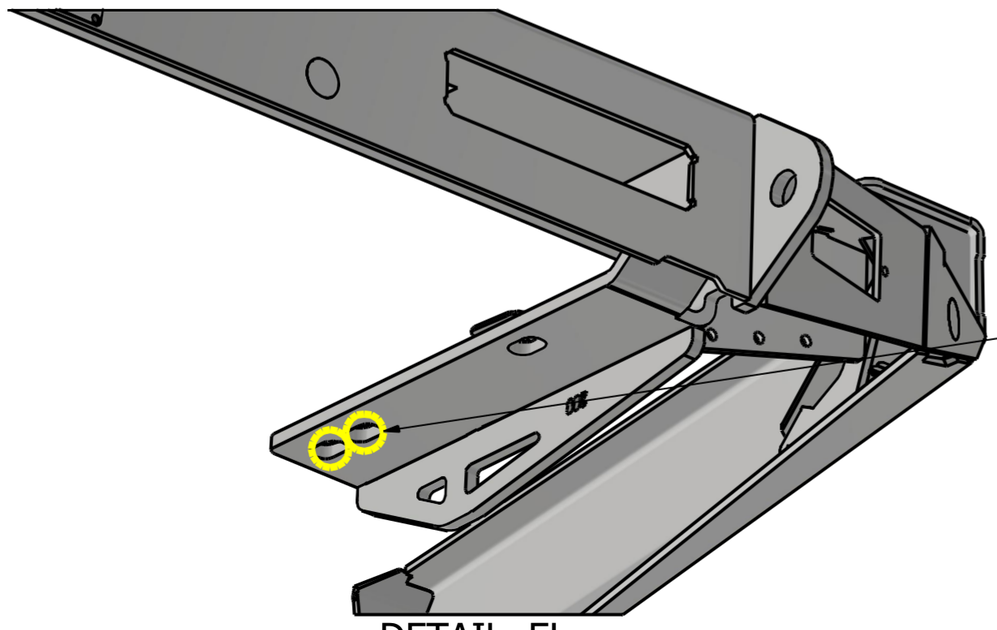


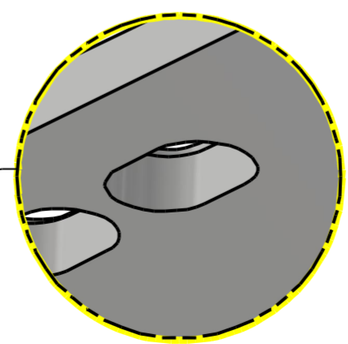
M10 x 1.5 x 50mm BOLTS
INTO NUT STICK
M10 WASHERS

MOUNTING BOLT TORQUE SPEC		
TORQUE SETTING (NM)	BOLT TYPE	LOCATION
30	M10 x 50mm	NUT ON STICK
50	M12 x 50mm	ALL OTHER CHASSIS MOUNTS

6.2

**** TIP ** Leave bolts loose until all bolts installed. Ensure bar is paralell to body lines on vehicle before tightening. Follow step 7.1 if gap is present.**



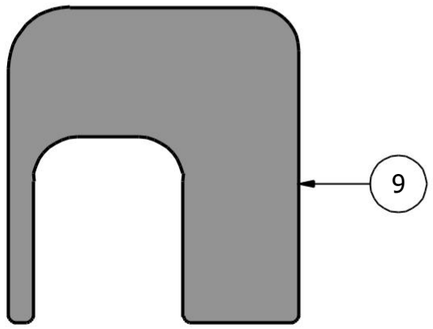


M12 x 1.25 x 50mm BOLTS
INTO CAPTIVE NUTS
M12 WASHERS

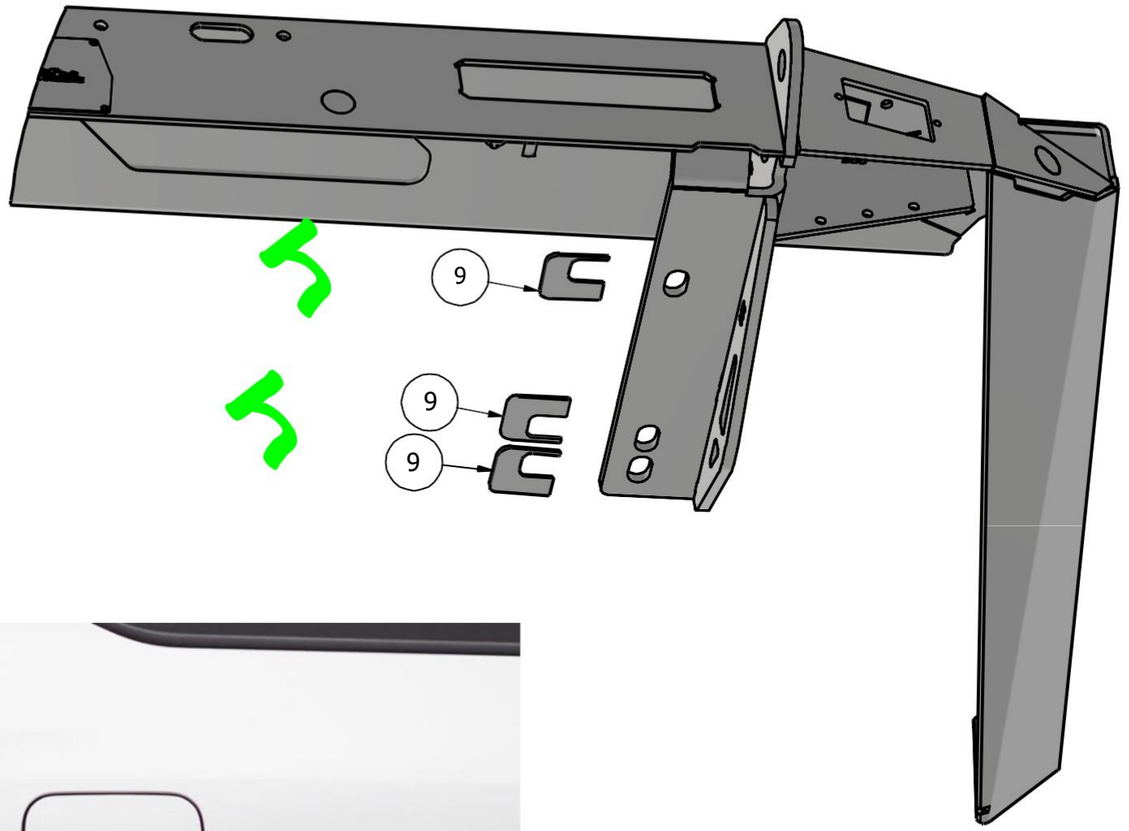
7. REAR BAR INSTALL

FITTING SHIMS

7.1 If a gap is present between the chassis and the TCC rear bar mounting locations, shims are required. With the mounting bolts loose, slide as many shims as required inbetween rear bar and chassis until the TCC rear bar is positioned straight and level.



LC 200 SHIM

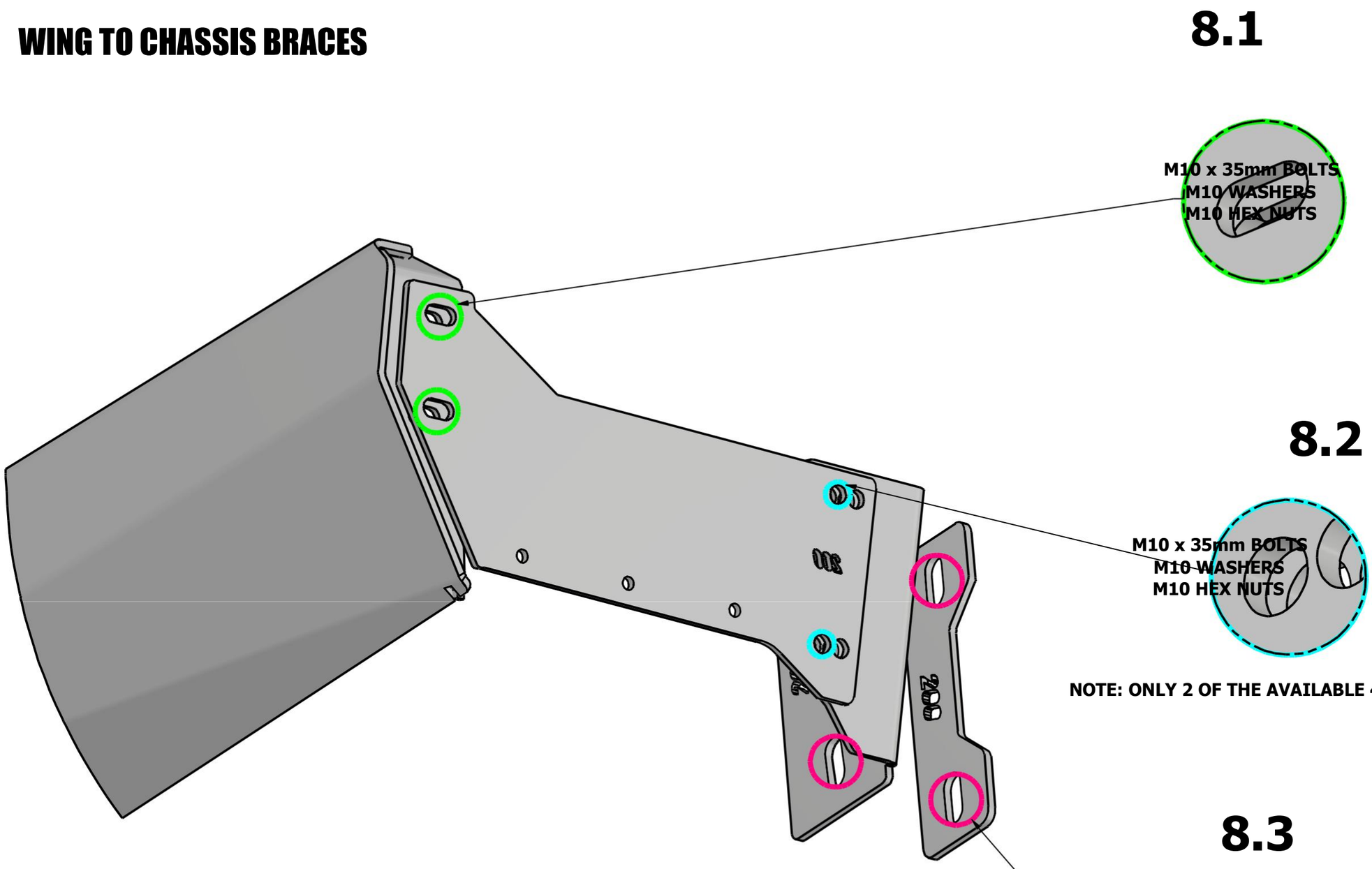


7.2 Tighten all bolts when TCC rear bar wing is level with vehicle as shown



8. REAR BAR INSTALL

WING TO CHASSIS BRACES



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

LEAVE BOLTS LOOSE UNTIL ALL BOLTS ARE INSTALLED, THEN TIGHTEN.

9. REAR BAR INSTALL

CHOPPING THE BUMPER

9.1 To begin the bumper chop, ensure the TCC rear bar is exactly where you want it and all bolts have been tightened to spec.

9.2 Cut the bumper straight down the center, this will give you two pieces of bumper that are much easier to work with.

9.3 Apply a line of masking tape to the area roughly along the bumper that will be cut.

9.4 Mesaure points **A, B, C, D & E** as shown in **FIGURE 9.A.** Record these measurements.

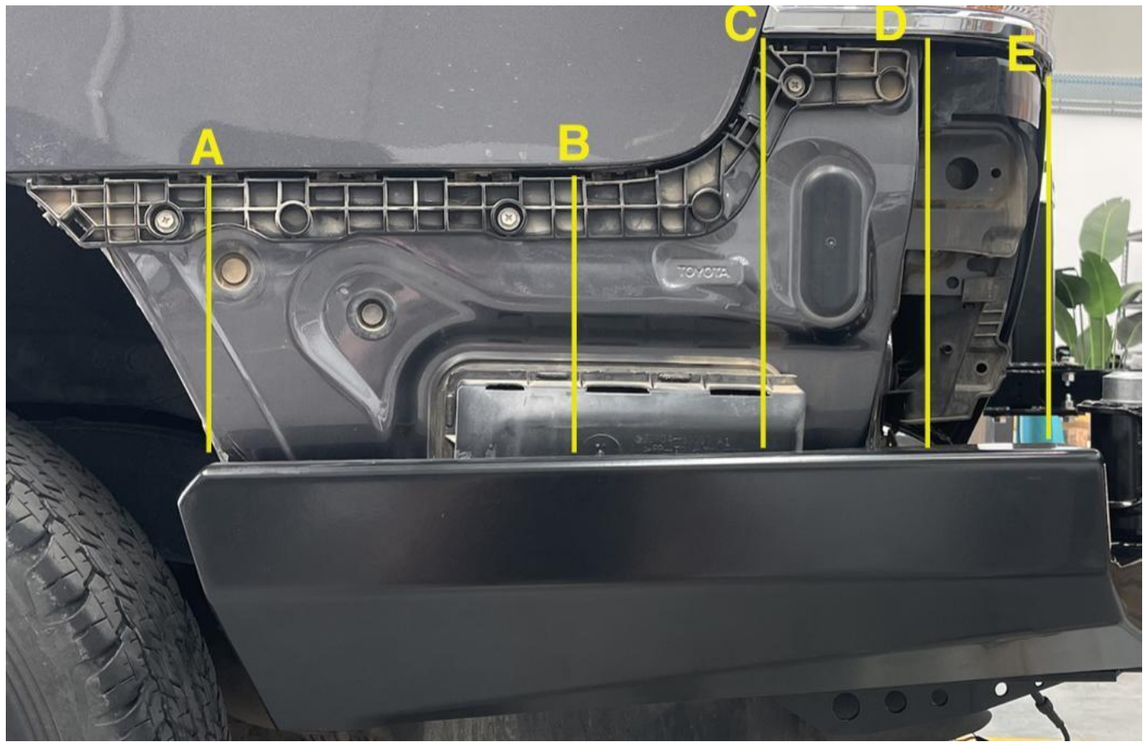


FIGURE 9.A

CONTINUE TO STEP 9.5 ON NEXT PAGE

9. REAR BAR INSTALL

CHOPPING THE BUMPER

9.5 Create a line of masking tape in the rough area of the bumper you intend to cut.

9.6 Transfer measurements taken from **STEP 9.4** onto bumper as shown in **FIGURE 9.B**

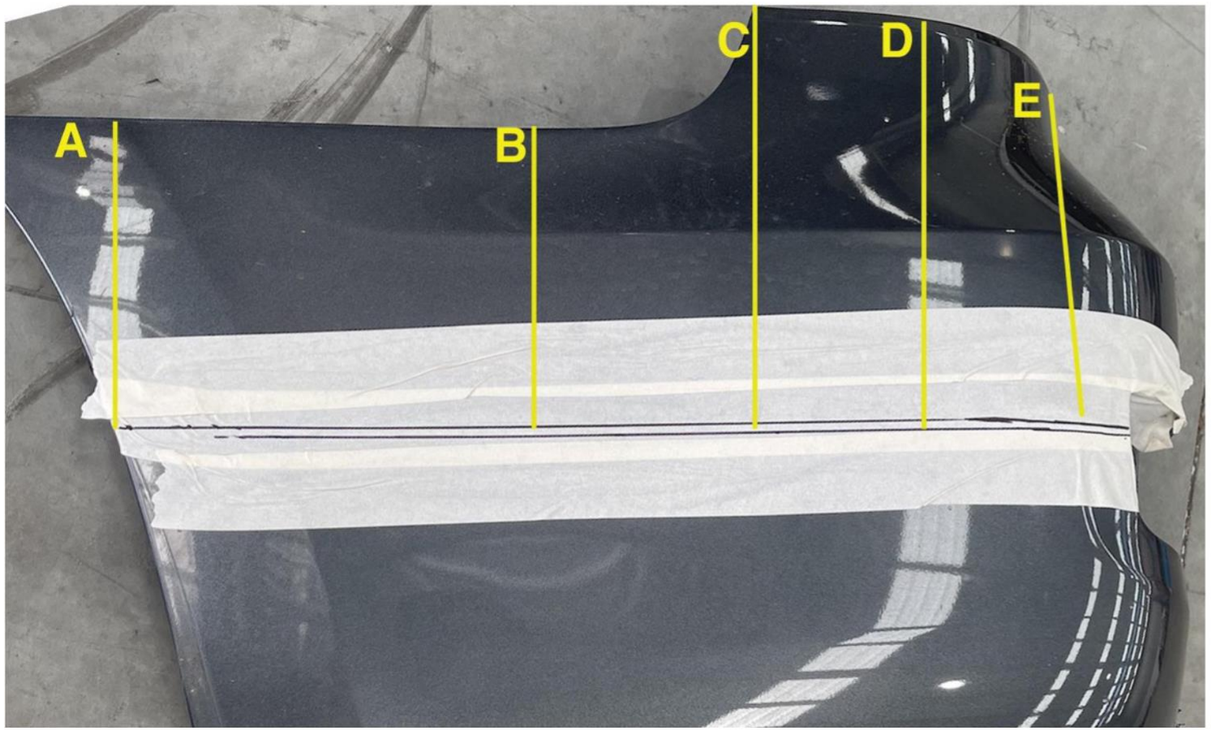


FIGURE 9.B



FIGURE 9.C



FIGURE 9.D

9.7 Subtract 20mm from each point marked on the factory bumper and connect points with a ruler as shown in **FIGURE 9.B**. The 20mm taken from each measurement will allow clearance for pinchweld on the cut bumper.

9.8 Use an oscillating multi tool to cut along the marked line on the factory bumper.

9.9 Using the measurements shown in **FIGURE 9.C & FIGURE 9.D**, cut the tailgate side of the bumper piece to clearance the carrier arm (when installed).

CONTINUE TO STEP 9.10 ON NEXT PAGE

9. REAR BAR INSTALL

CHOPPING THE BUMPER

9.10 On facelift models: Use **FIGURE 9.E** as a guide to clearance the stub axle.



FIGURE 9.E



FIGURE 9.F

9.10 Install pinchweld along the newly cut edge of the bumper. The pinchweld should sit flush against the TCC rear bar wing.

9.11 Repeat for the other side.

9.12 Once both sides of the bumper have been reinstalled, trim mudflaps as shown in **FIGURE 9.F**

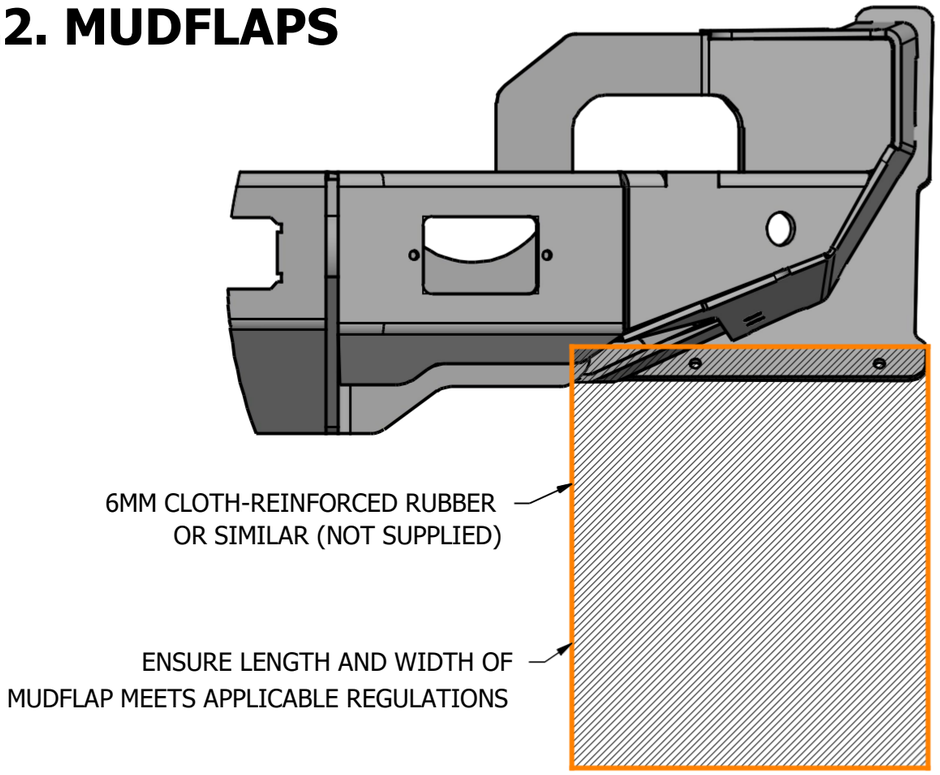
9.13 Reinstall top section of mudflaps.

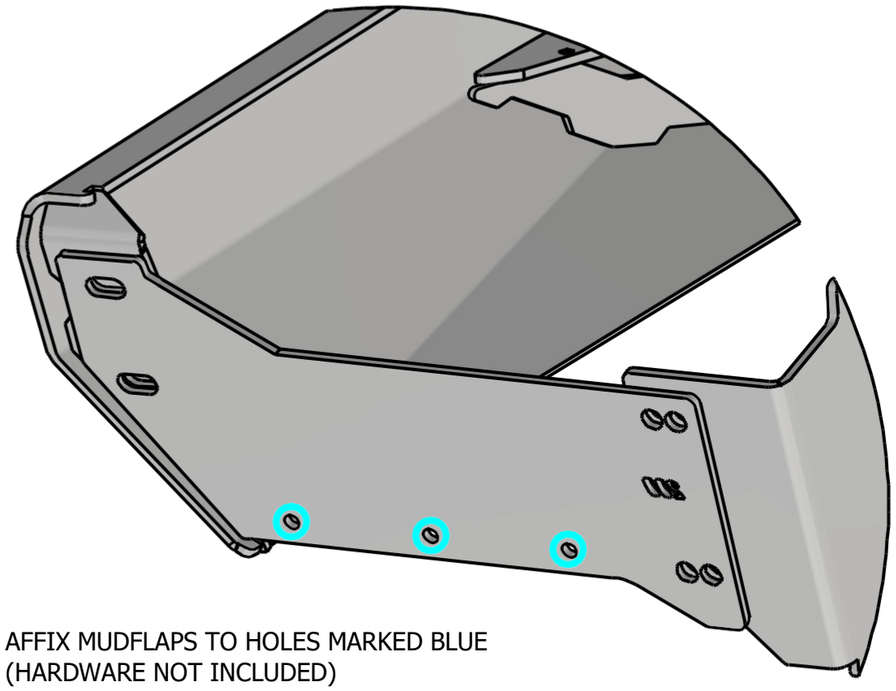
10. REAR BAR INSTALL

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.

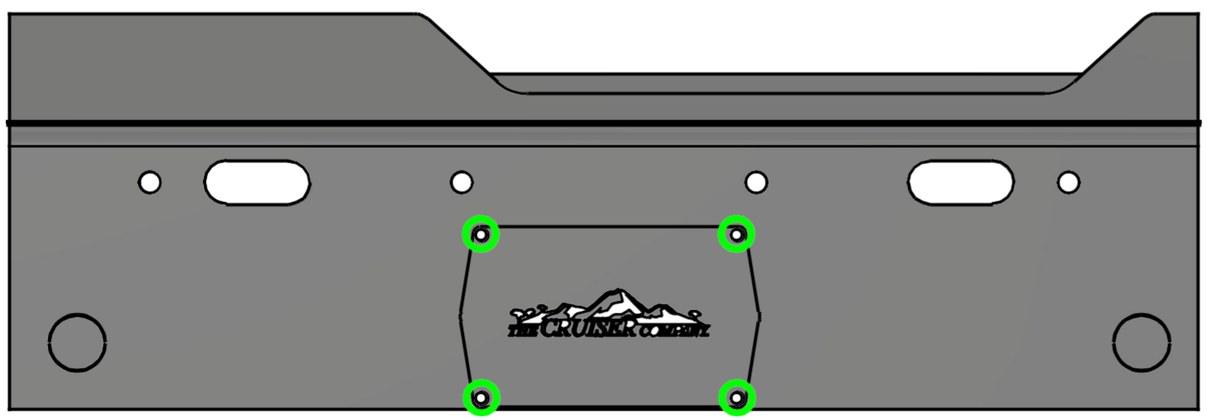
10.2. MUDFLAPS





AFFIX MUDFLAPS TO HOLES MARKED BLUE
(HARDWARE NOT INCLUDED)

10.3. TOW HITCH COVER



AFFIX TOW HITCH COVER TO HOLES MARKED GREEN.
COVER CAN BE PLACED INSIDE OR OUTSIDE OF REAR BAR.

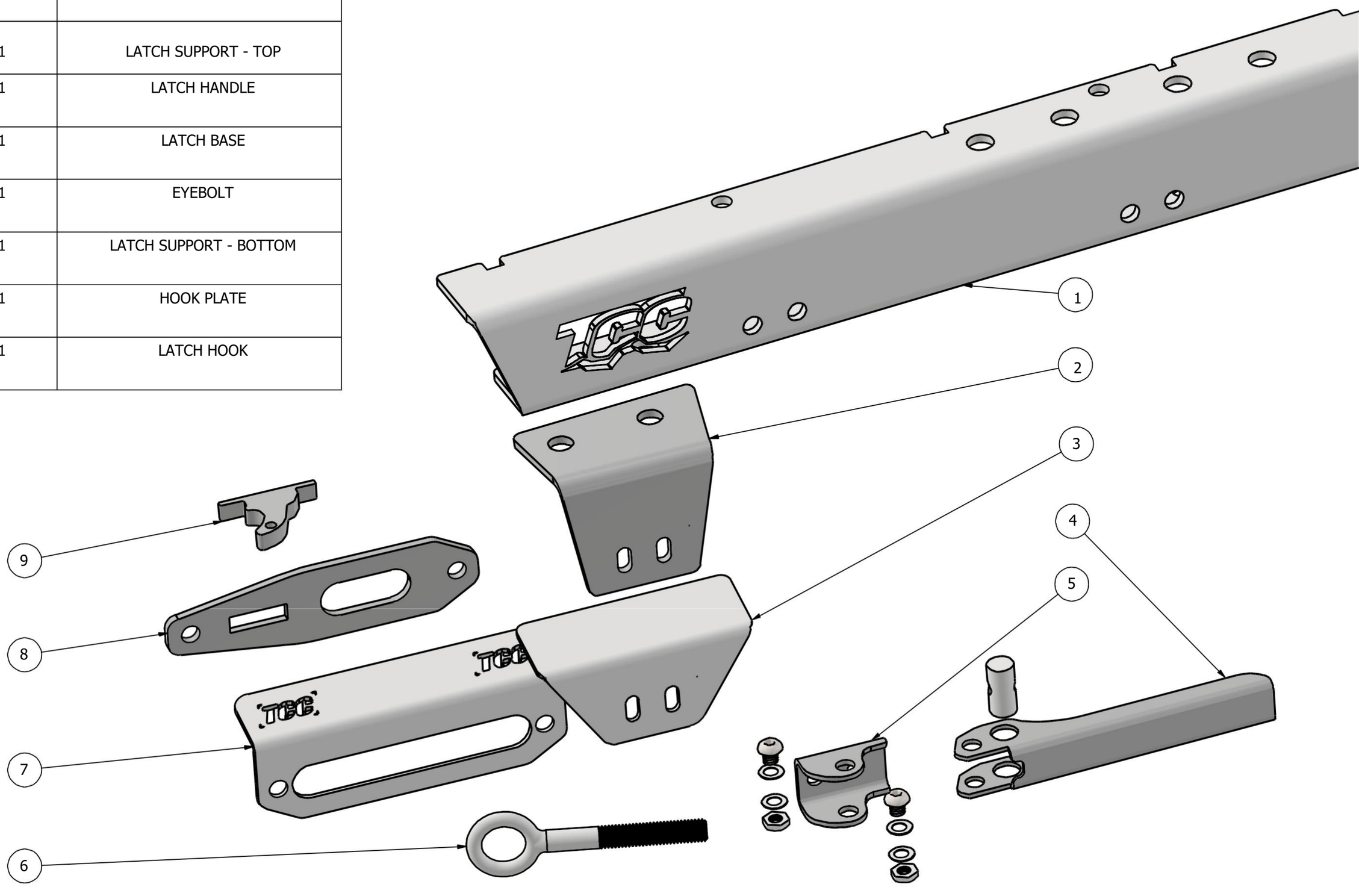
TCC LATCH ASSEMBLY

ASSEMBLY INSTRUCTIONS



AUSTRALIAN MADE

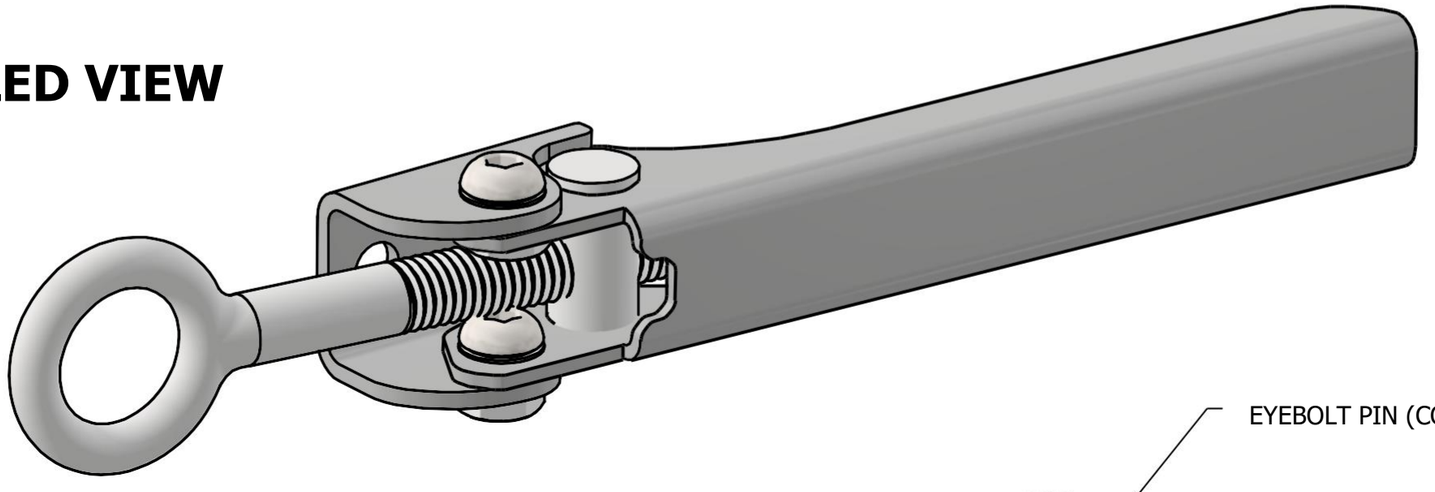
TABLE		
ITEM	QTY	ITEM NAME
1	1	TCC CARRIER ARM
2	1	LATCH DROP DOWN
3	1	LATCH SUPPORT - TOP
4	1	LATCH HANDLE
5	1	LATCH BASE
6	1	EYEBOLT
7	1	LATCH SUPPORT - BOTTOM
8	1	HOOK PLATE
9	1	LATCH HOOK



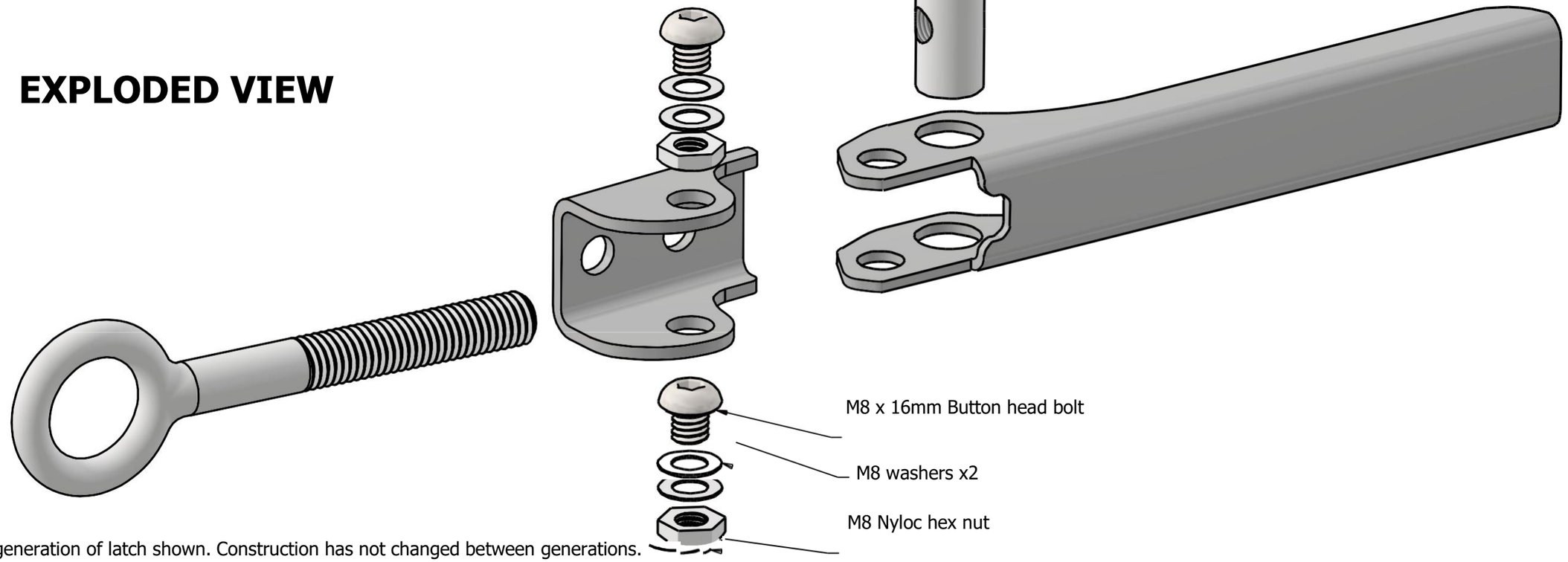
1. LATCH ASSEMBLY

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



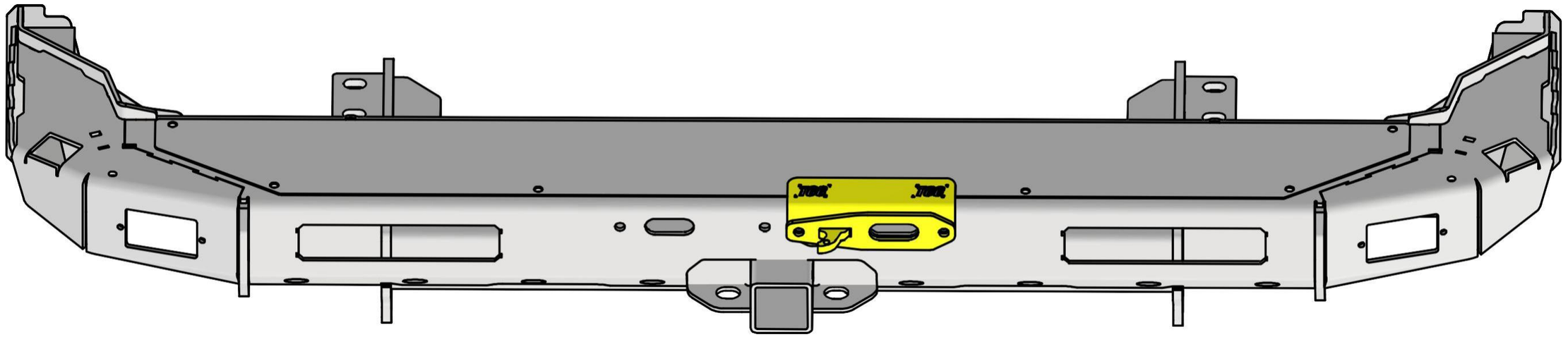
EXPLODED VIEW



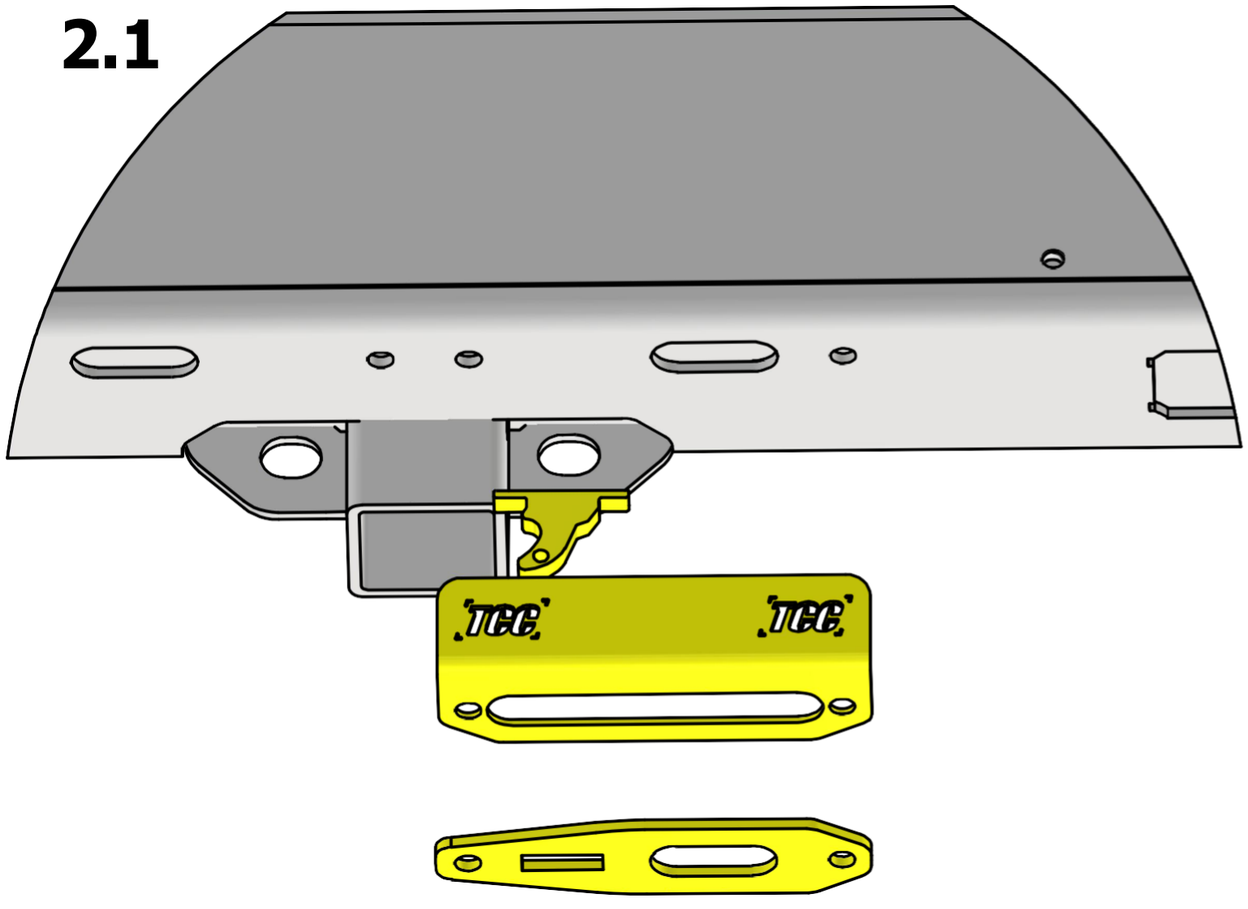
please note: previous generation of latch shown. Construction has not changed between generations.

2. JOINING LATCH TO REAR BAR

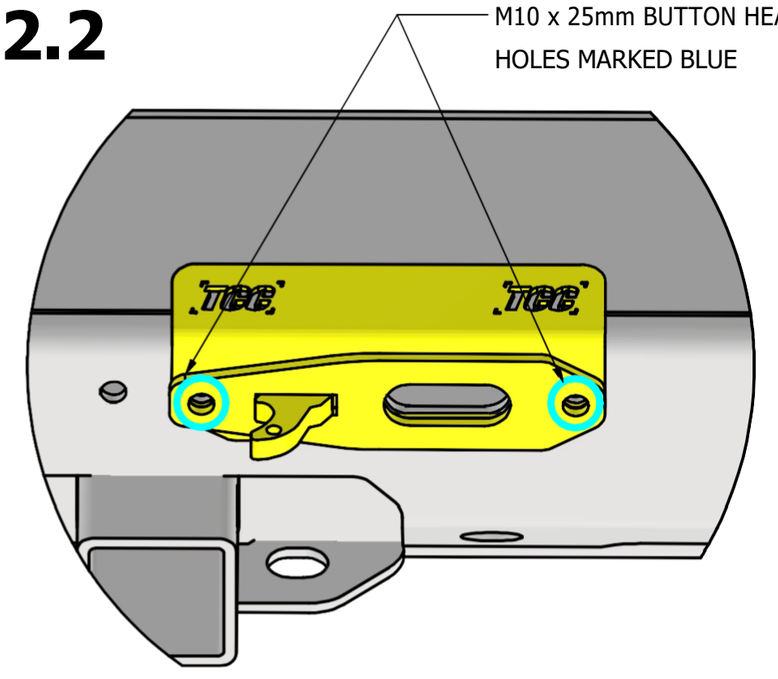
BAR BASE



2.1



2.2



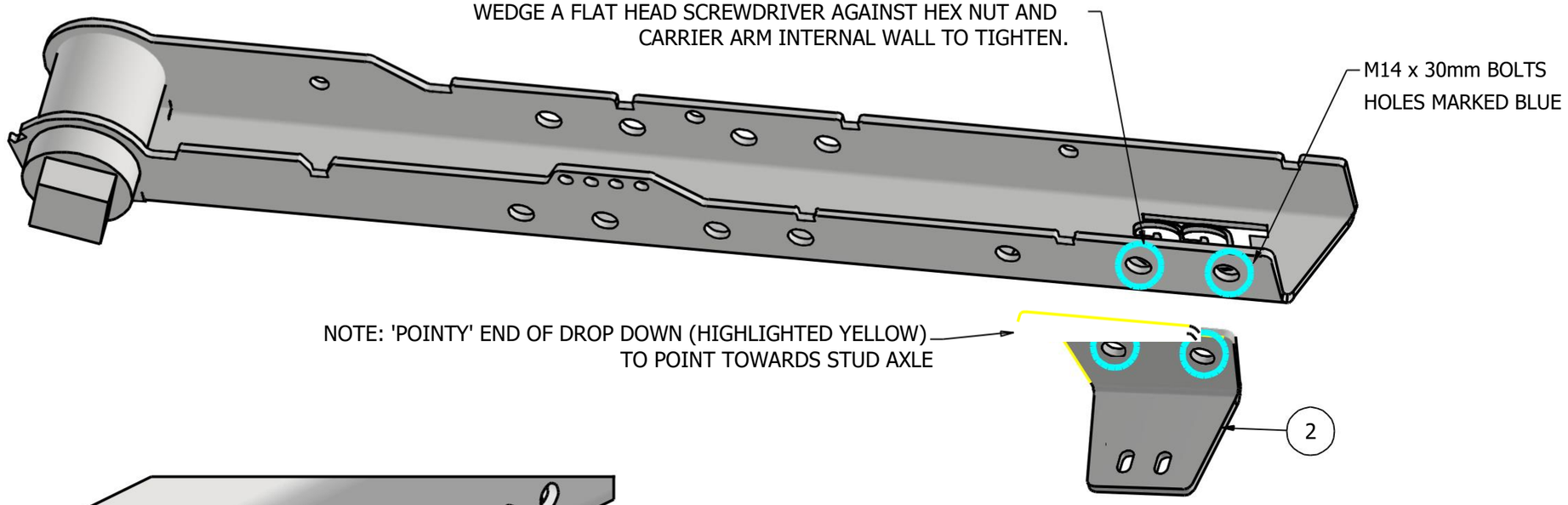
3. JOINING LATCH TO REAR BAR

CARRIER ARM

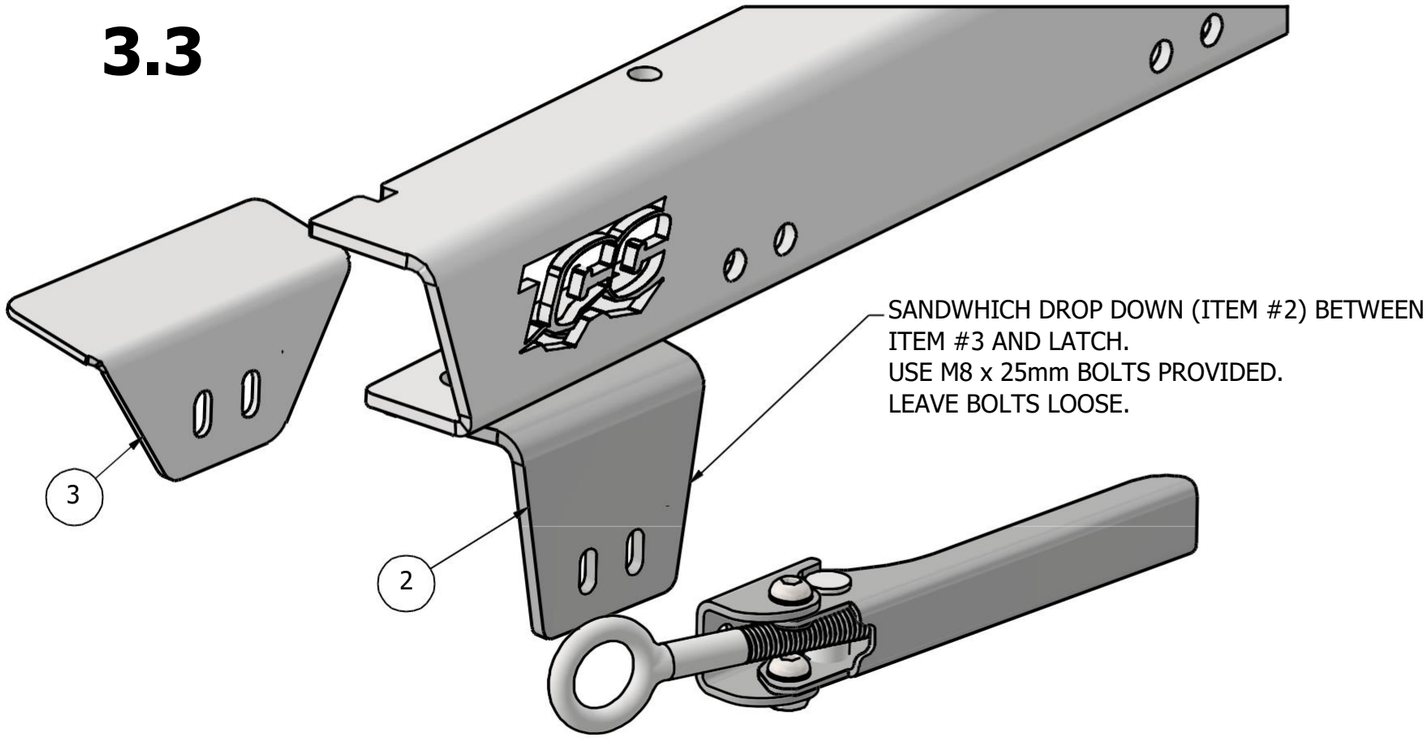
3.1 Please ensure carrier arm is installed to bar base before proceeding to this step.

3.2

REAR VIEW OF PASSENGER SIDE ARM



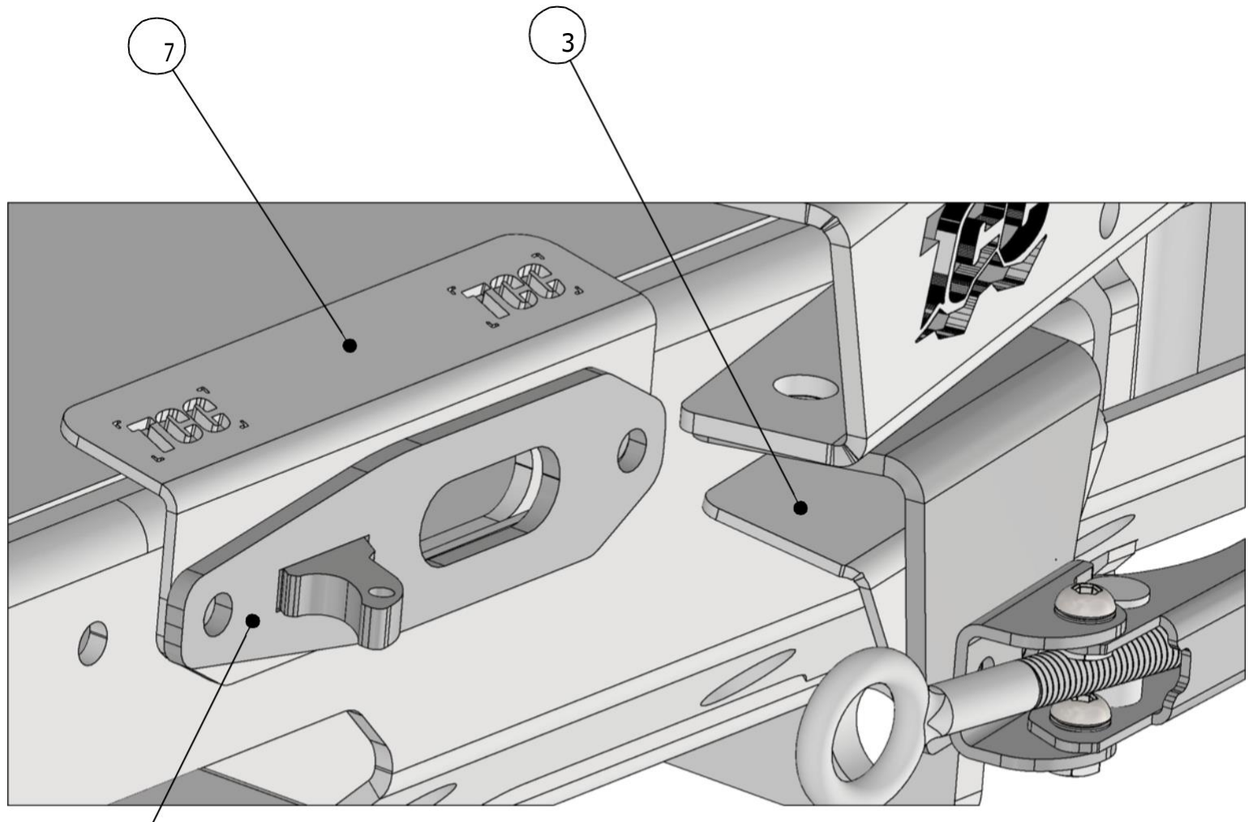
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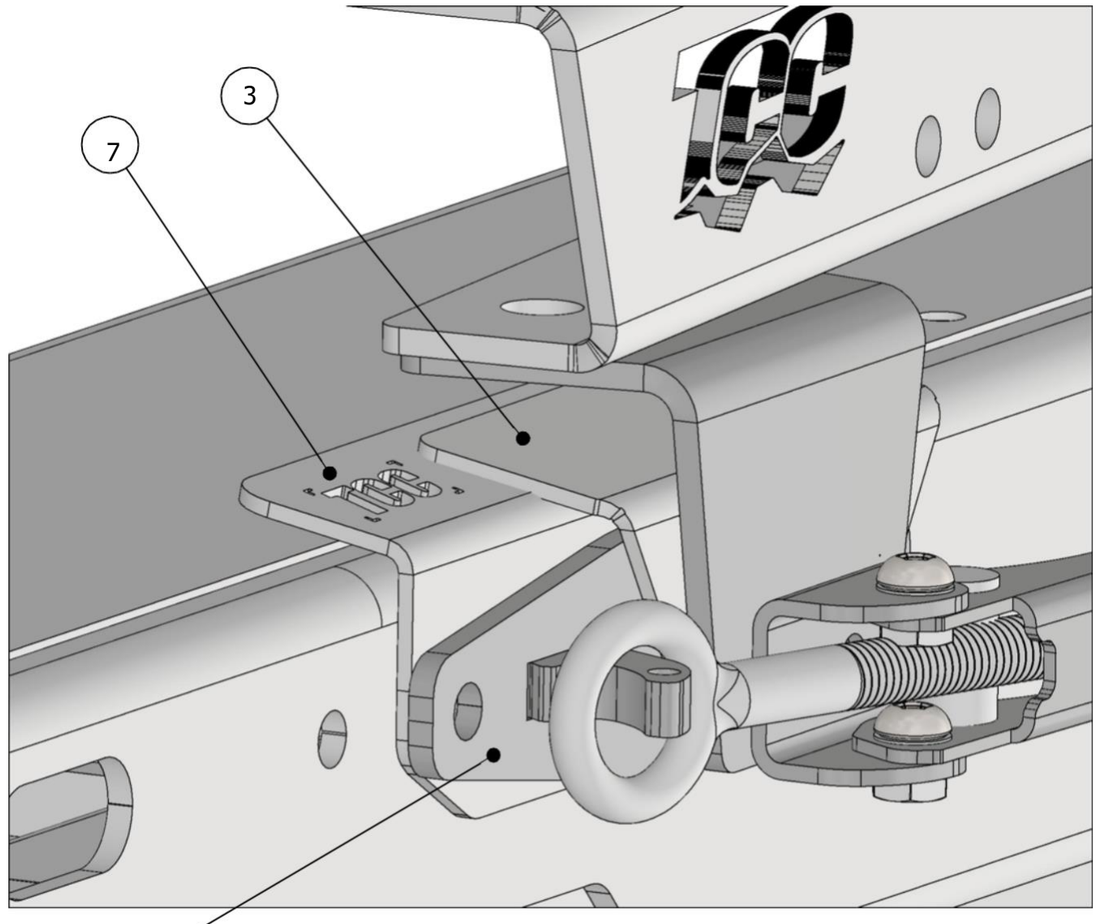
3. JOINING LATCH TO REAR BAR

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

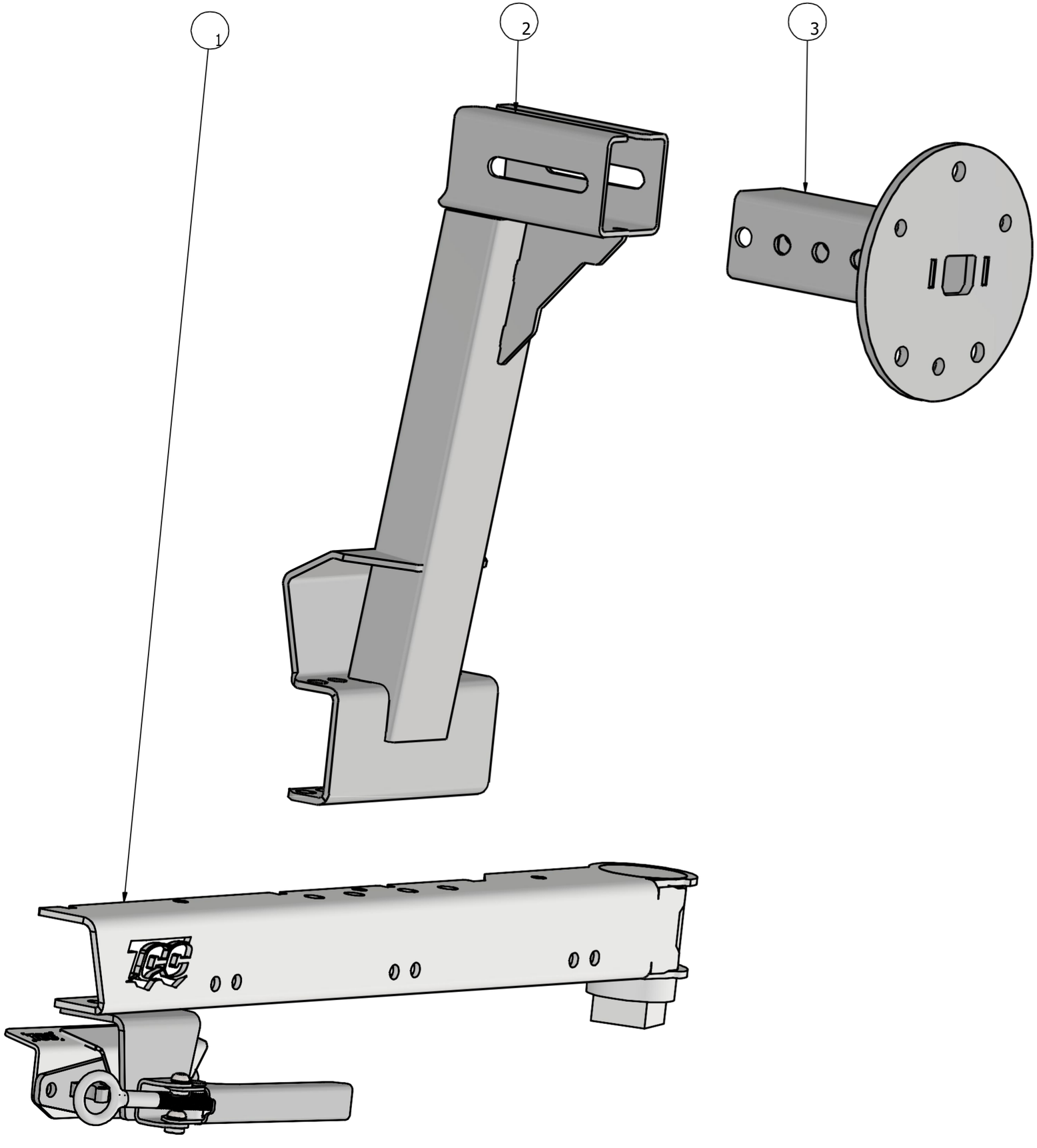


CARRIER ARM CLOSED

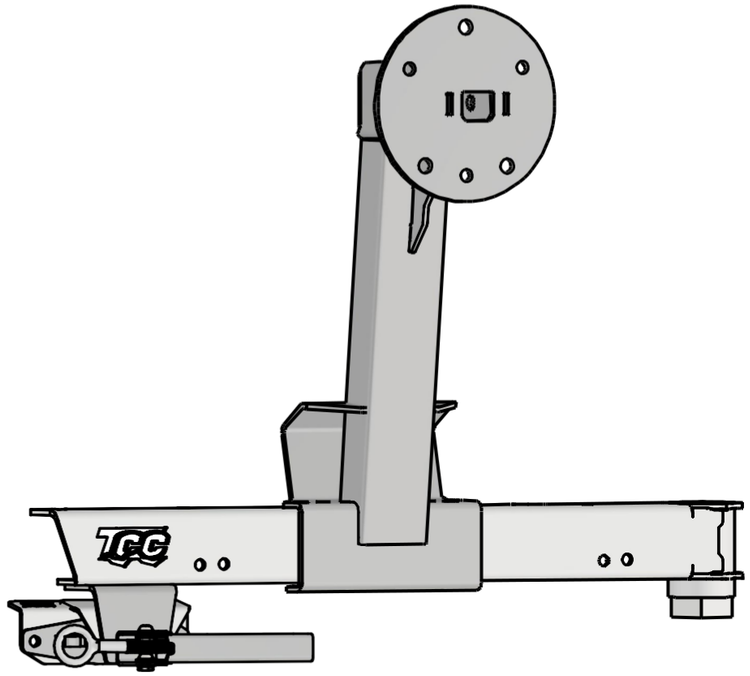
TCC TYRE UPRIGHT & TYRE HEAD

ASSEMBLY INSTRUCTIONS





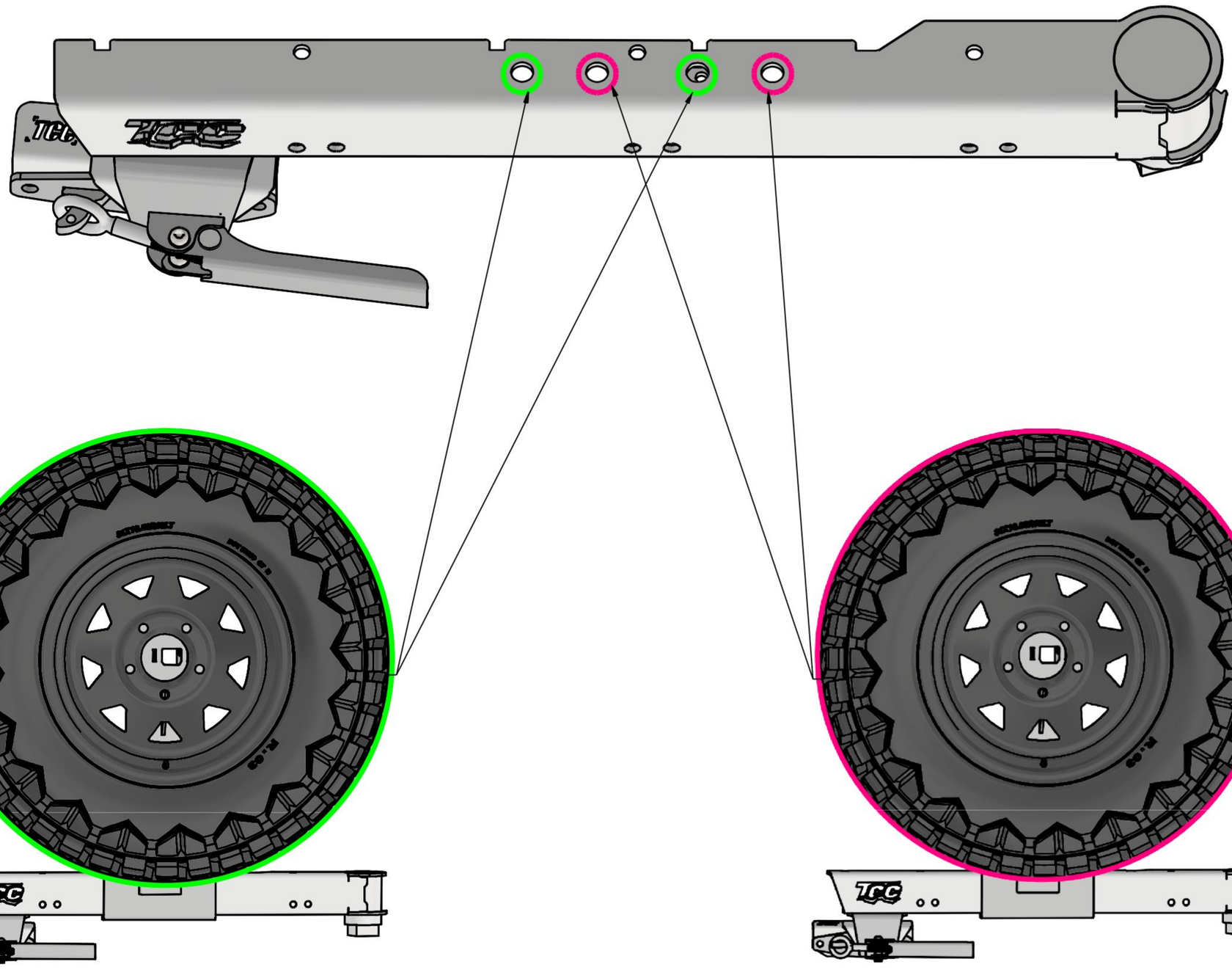
PARTS LIST		
ITEM #	QTY	PART NAME
1	1	TCC CARRIER ARM ASSEMBLY
2	1	TYRE UPRIGHT
3	1	TYRE HEAD



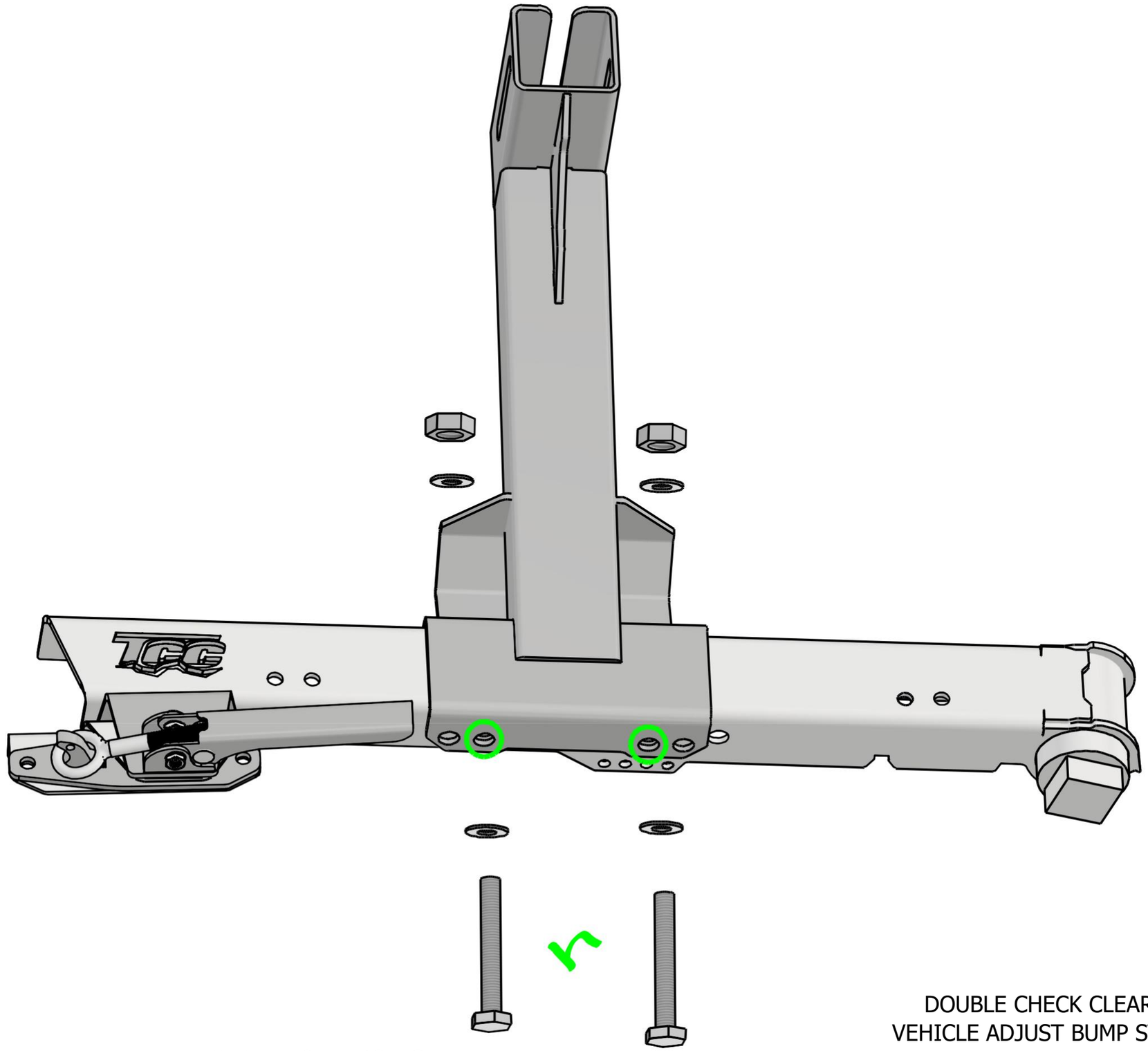
ASSEMBLED VIEW

1. INSTALL THE TYRE UPRIGHT

TCC Carrier Arm must be assembled prior to installation



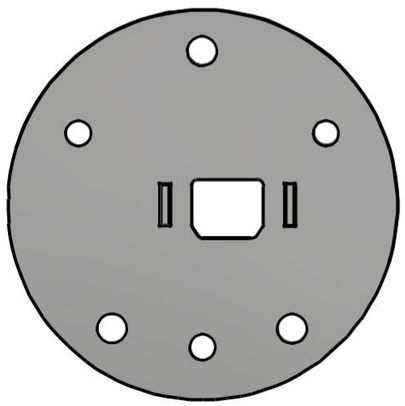
2. INSTALL TYRE UPRIGHT

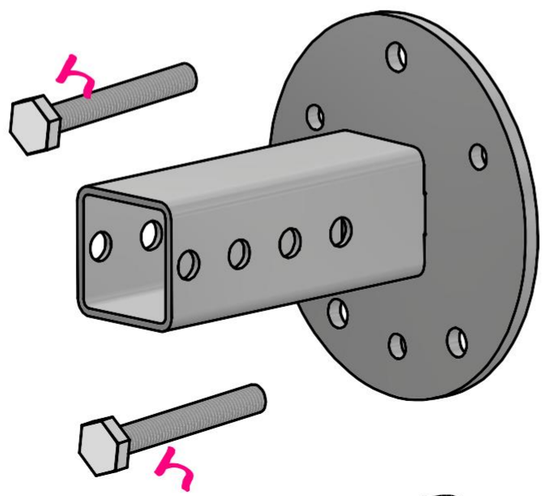


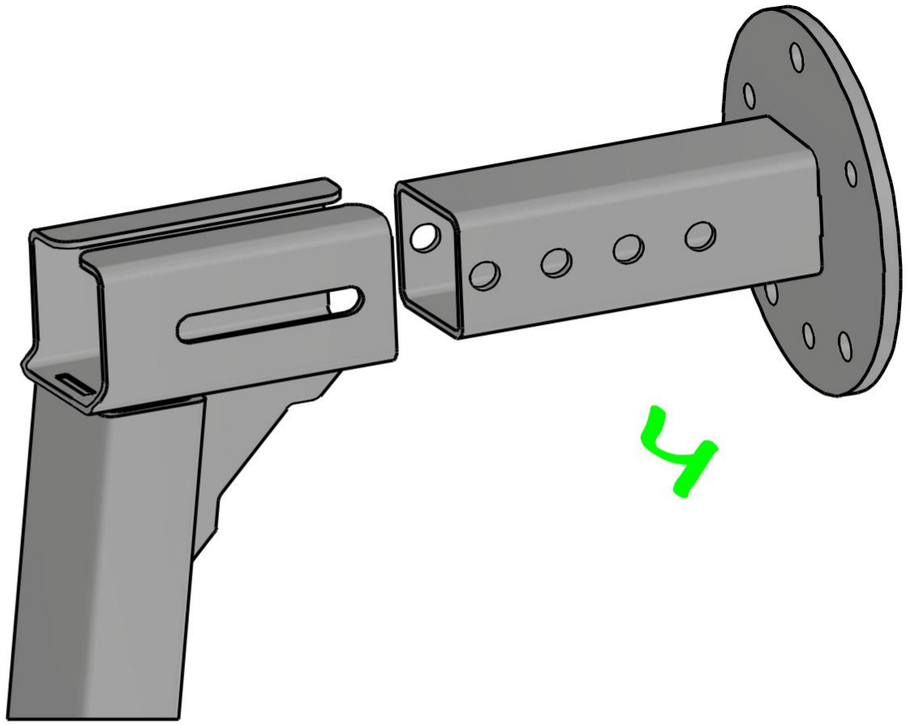
M14 x 110mm BOLTS
M14 WASHERS
M14 NUTS

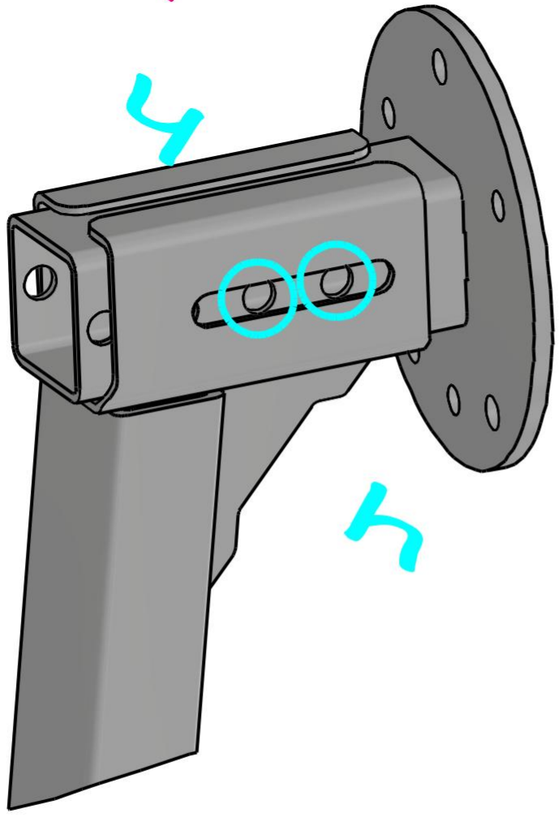
DOUBLE CHECK CLEARANCE TO REAR OF VEHICLE ADJUST BUMP STOP AS REQUIRED

3. MOUNT TYRE HEAD









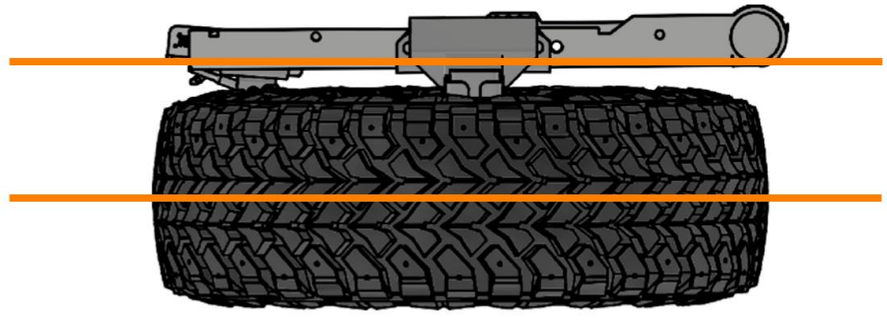
LARGE HOLES: 5 X 150 STUD

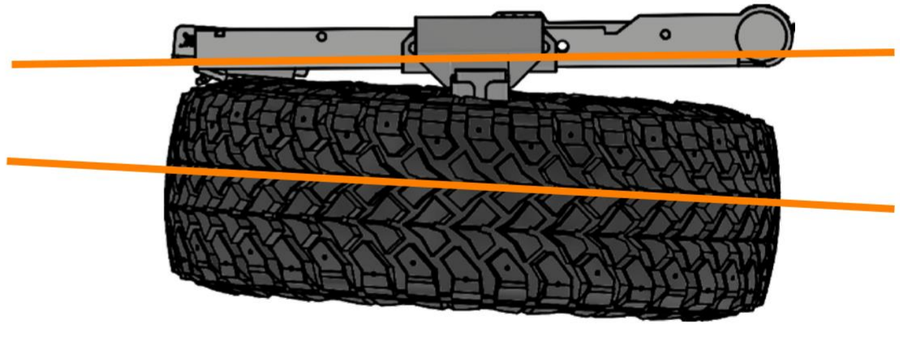
PATTERN SMALL HOLES: 6 X

139.7 STUD PATTERN ADJUST

IN/OUT FOR WHEEL OFFSET

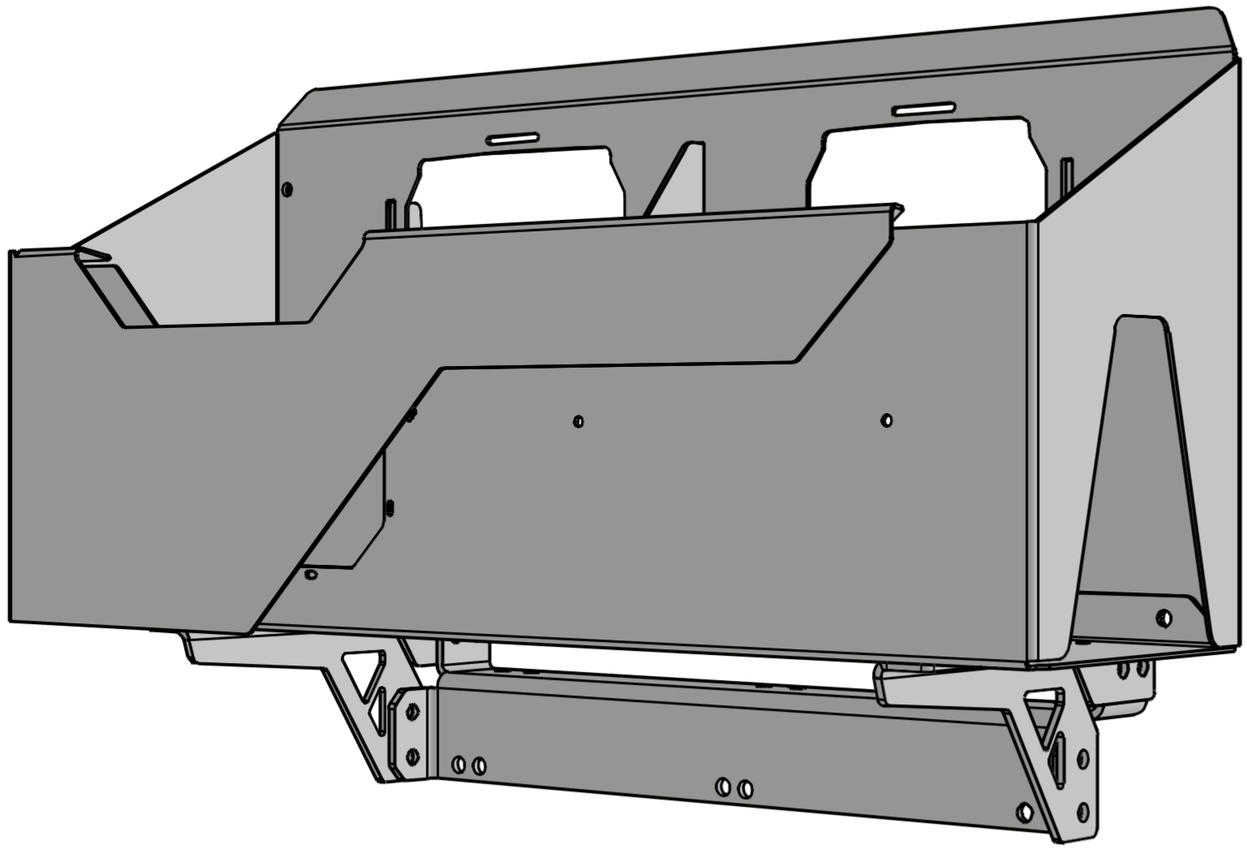
M14 x 30mm
BOLTS M14
WASHERS
M14 NUTS

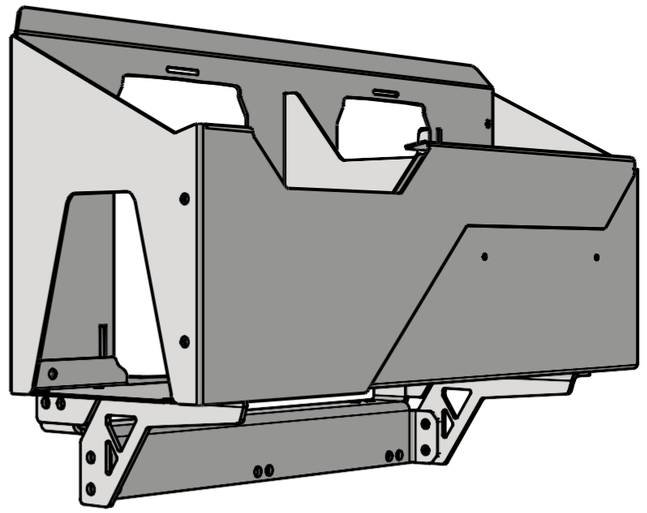




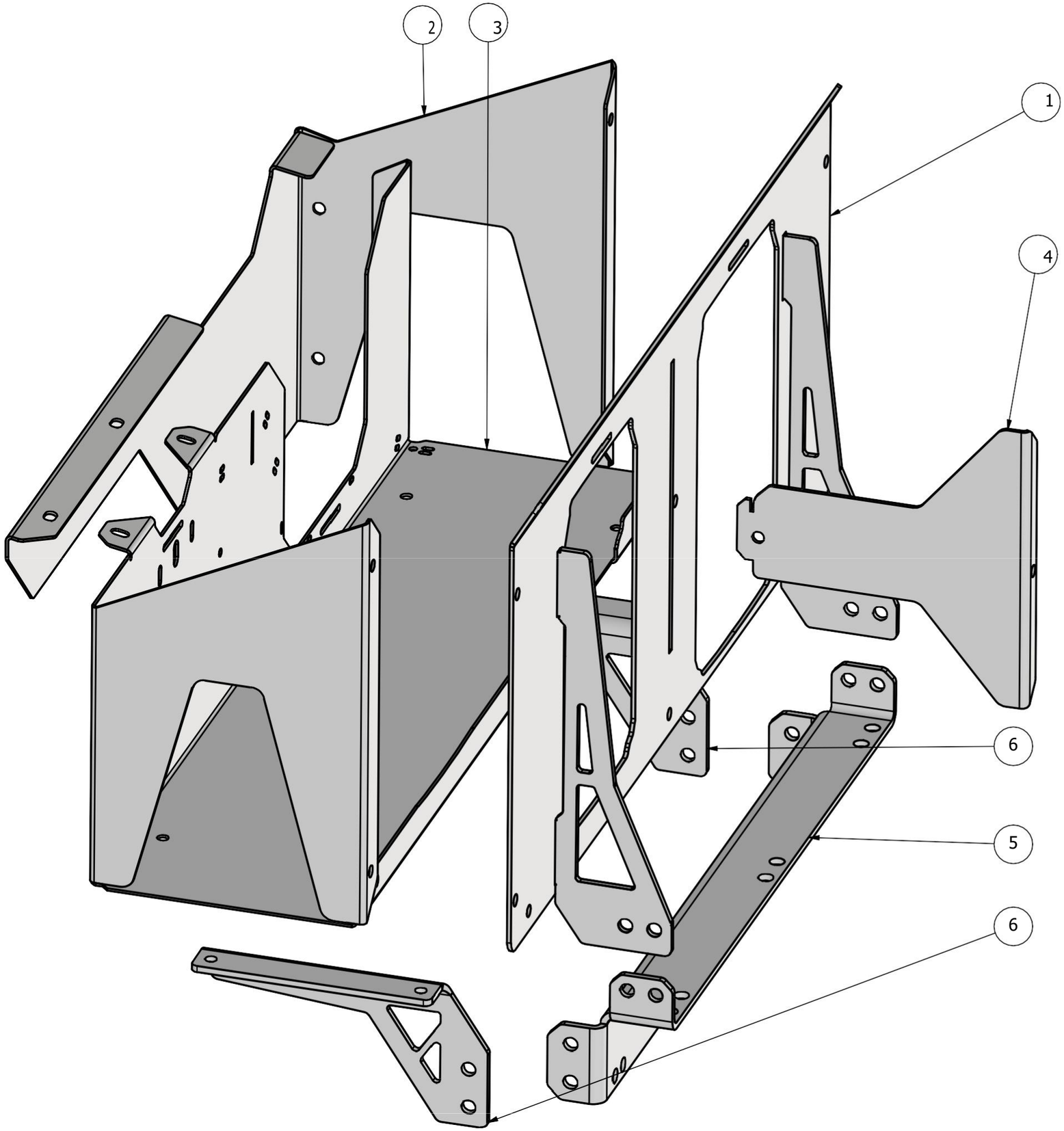
TCC JERRY/GAS HOLDER

ASSEMBLY INSTRUCTIONS



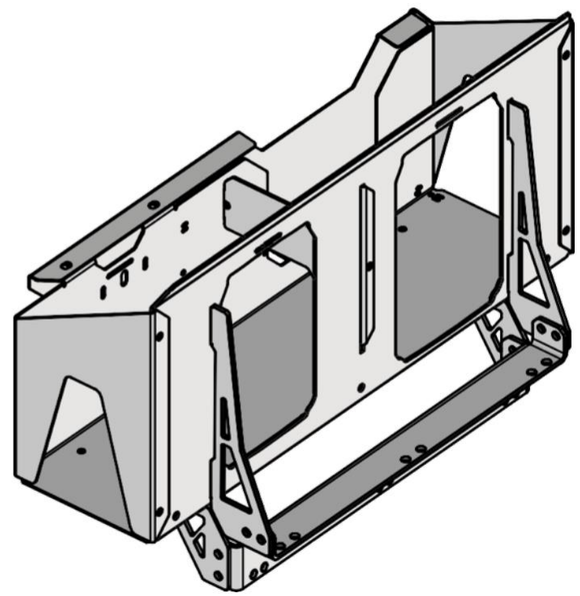


AUSTRALIAN MADE



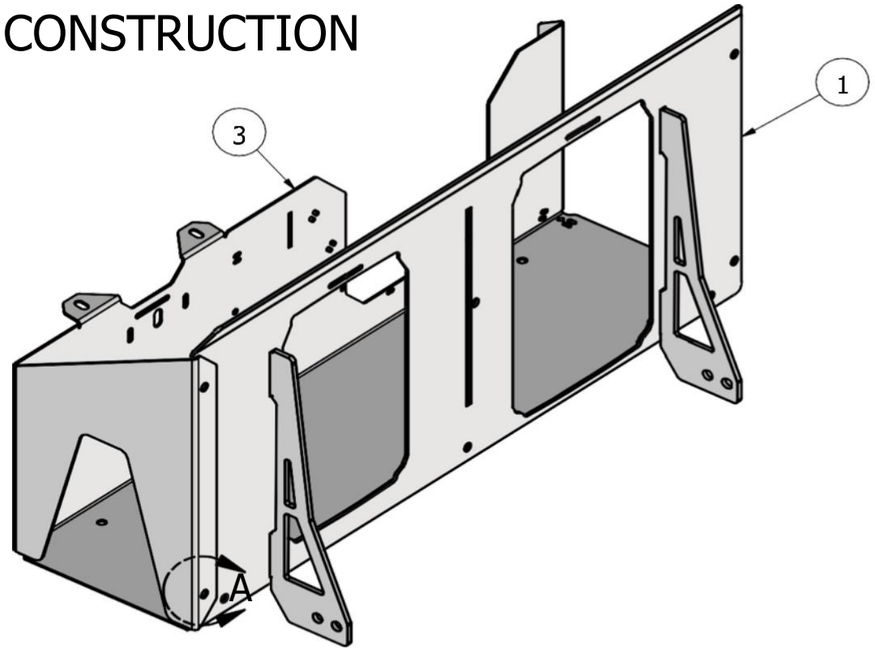
PARTS LIST		
ITEM	QTY	DESCRIPTION
1	1	JERRY BACKING
2	1	JERRY FRONT COVER
3	1	JERRY INTERNAL
4	1	JERRY DIVIDER
5	1	UNIVERSAL SHELF BASE
6	2	JERRY LOWER GUSSET

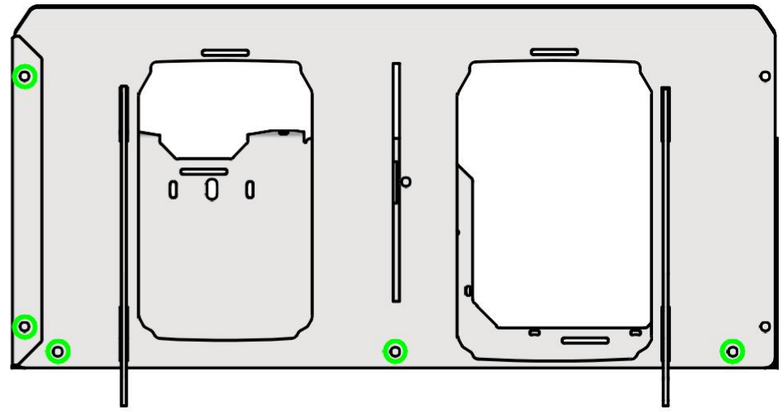
HARDWARE KIT (INCLUDED)	
QTY	DESCRIPTION
8	M10 X 25mm BUTTON HEAD BOLTS
6	M10 X 20mm BUTTON HEAD BOLTS
28	M10 WASHERS
14	M10 NUTS
16	M8 x 20mm BUTTON HEAD BOLTS
32	M8 WASHERS
16	M8 NUTS

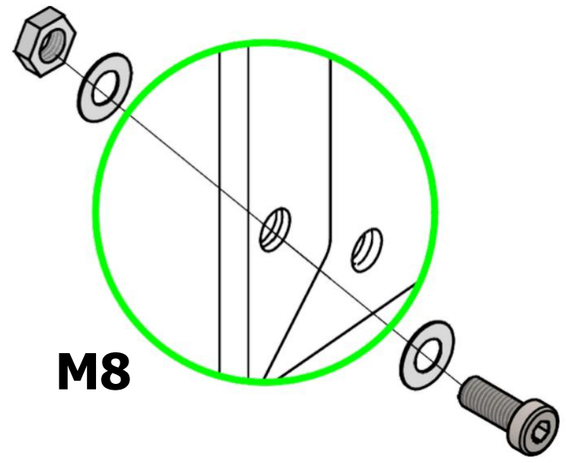


FULLY ASSEMBLED

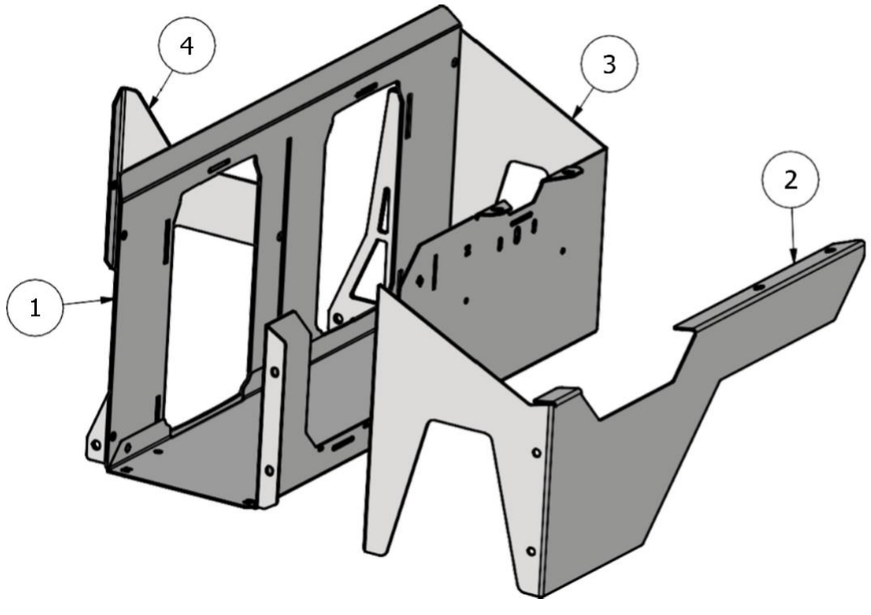
1. JERRY BODY CONSTRUCTION

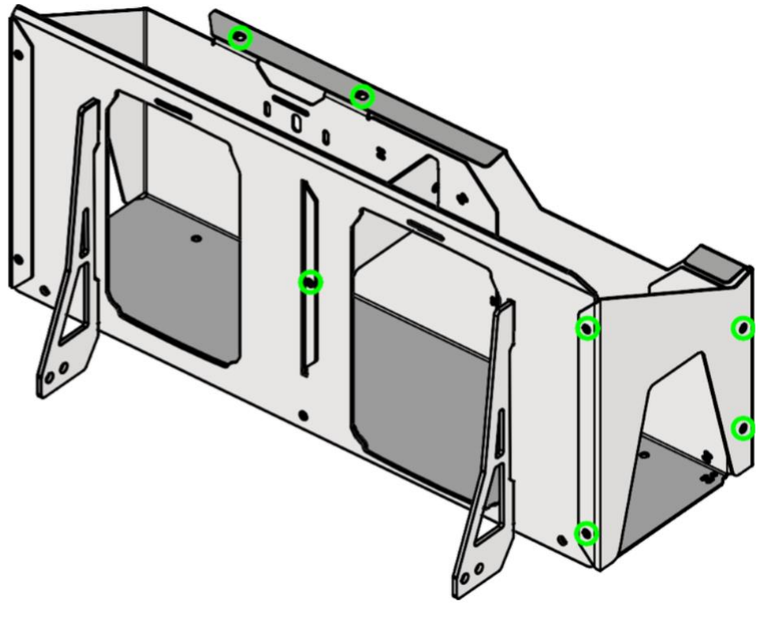




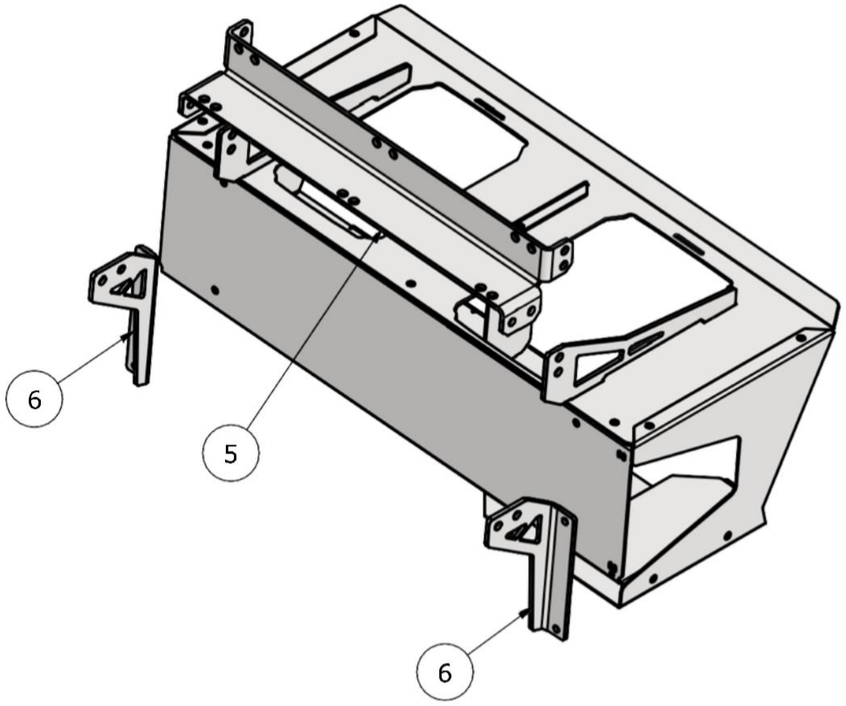


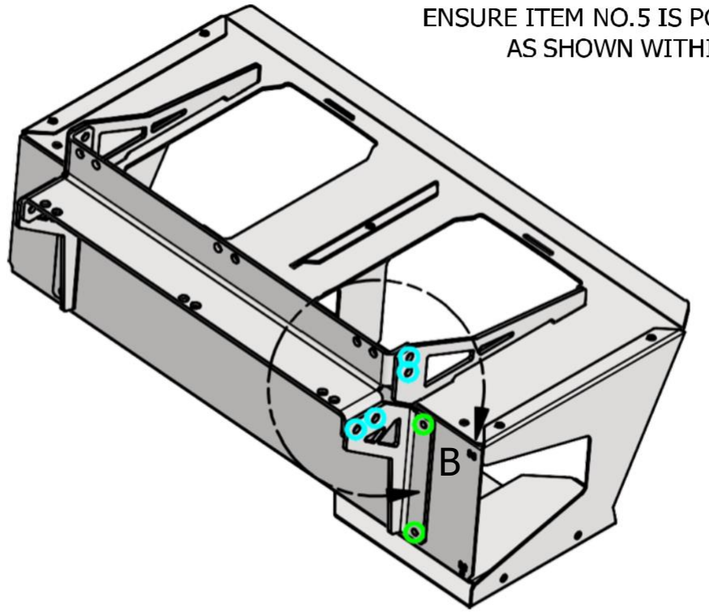
2. JERRY BODY CONSTRUCTION



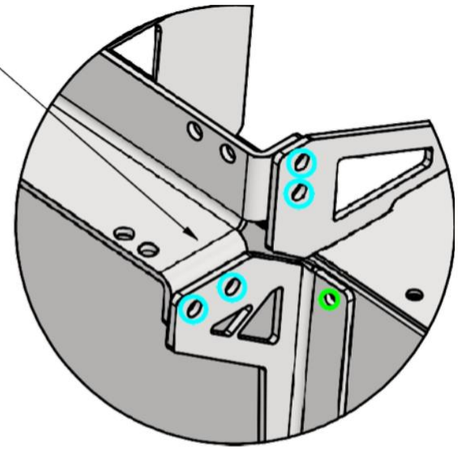


3. ATTACH UNIVERSAL MOUNT

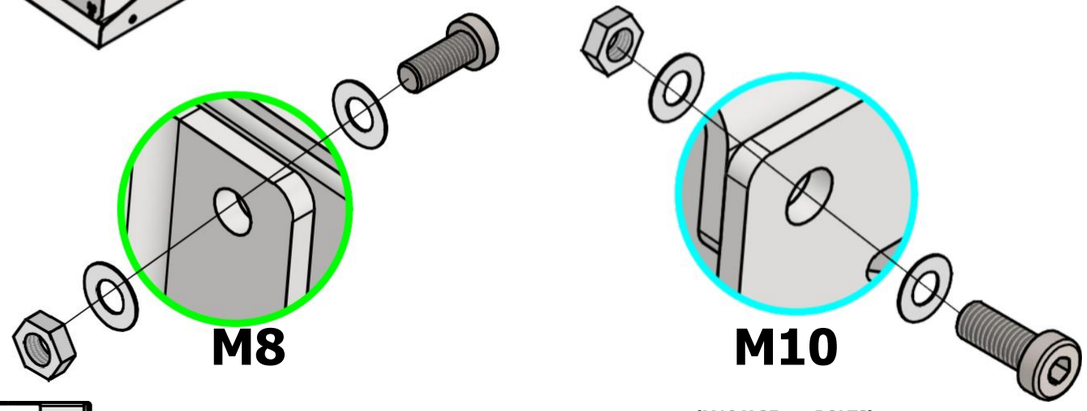




ENSURE ITEM NO.5 IS POSITIONED AS SHOWN WITHIN MOUNTS

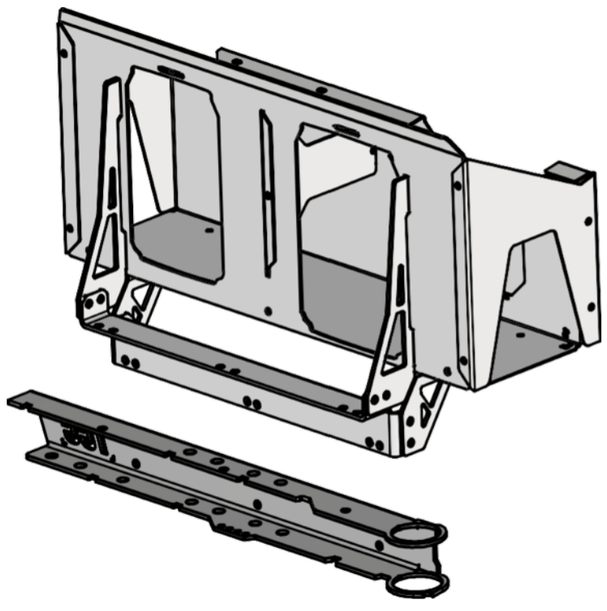


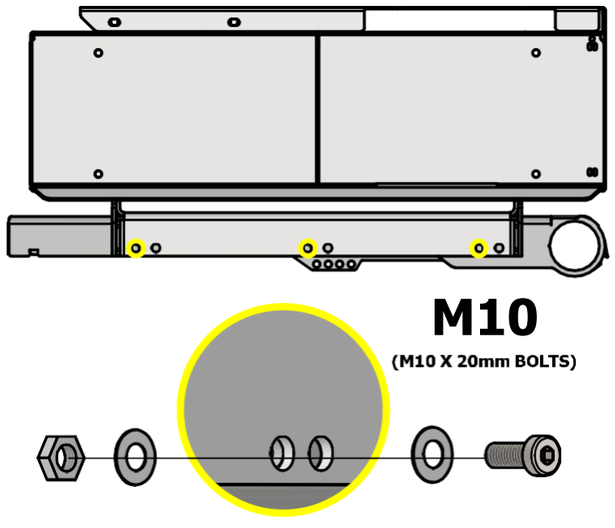
DETAIL B



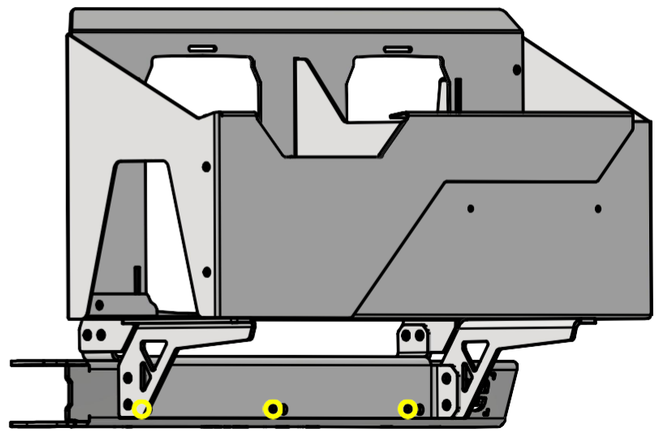
(M10 X 25mm BOLTS)

4. ATTACH ASSEMBLY TO CARRIER ARM





(M10 X 20mm BOLTS)



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

FOR INQUIRIES & SUPPORT PLEASE CONTACT:

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