TCC 150 PRADO REAR BAR

TECHNICAL DATA SHEET & FITTING INSTRUCTIONS

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

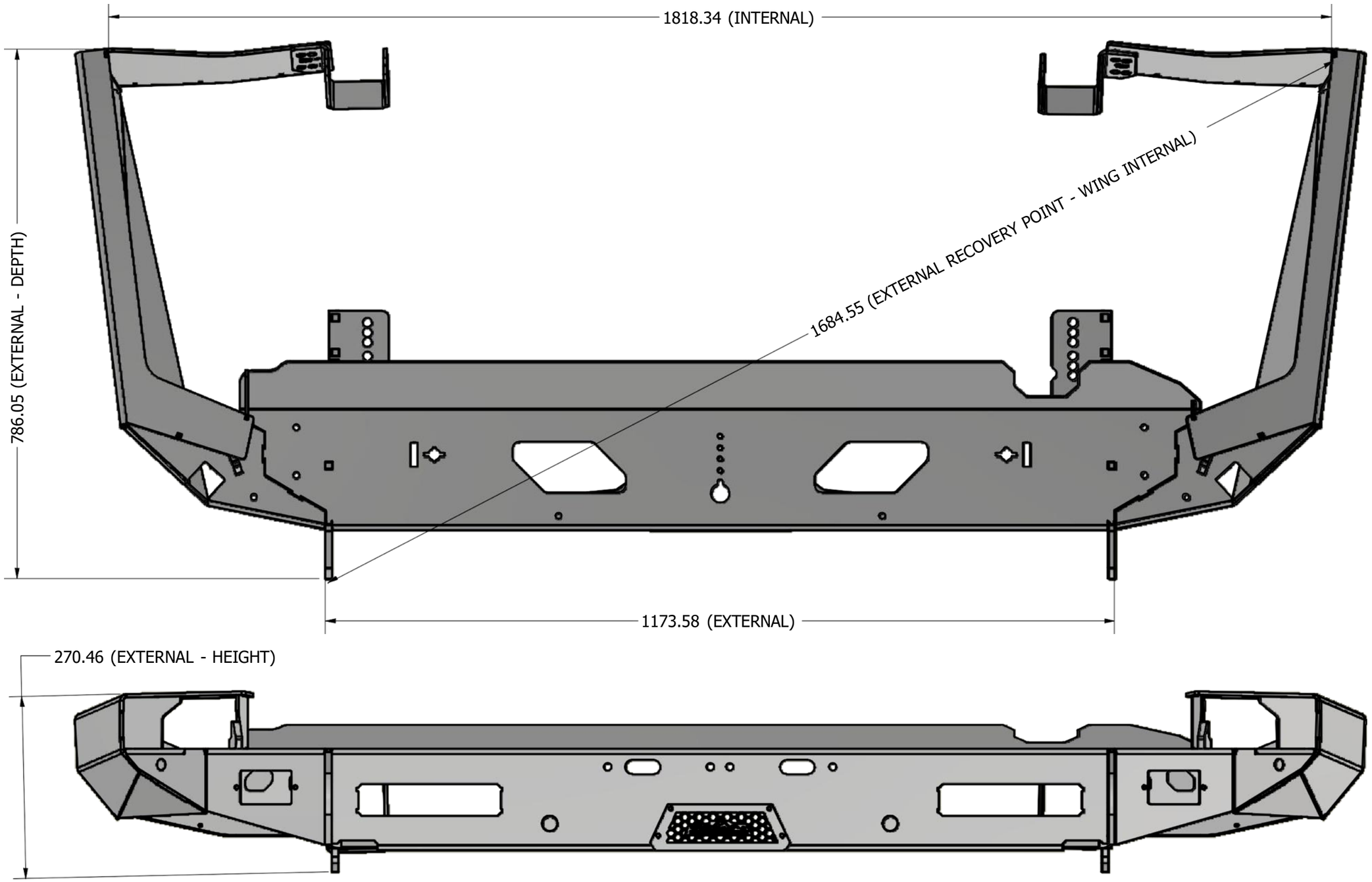


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GENERAL DIMENSIONS

ALL UNITS IN MM

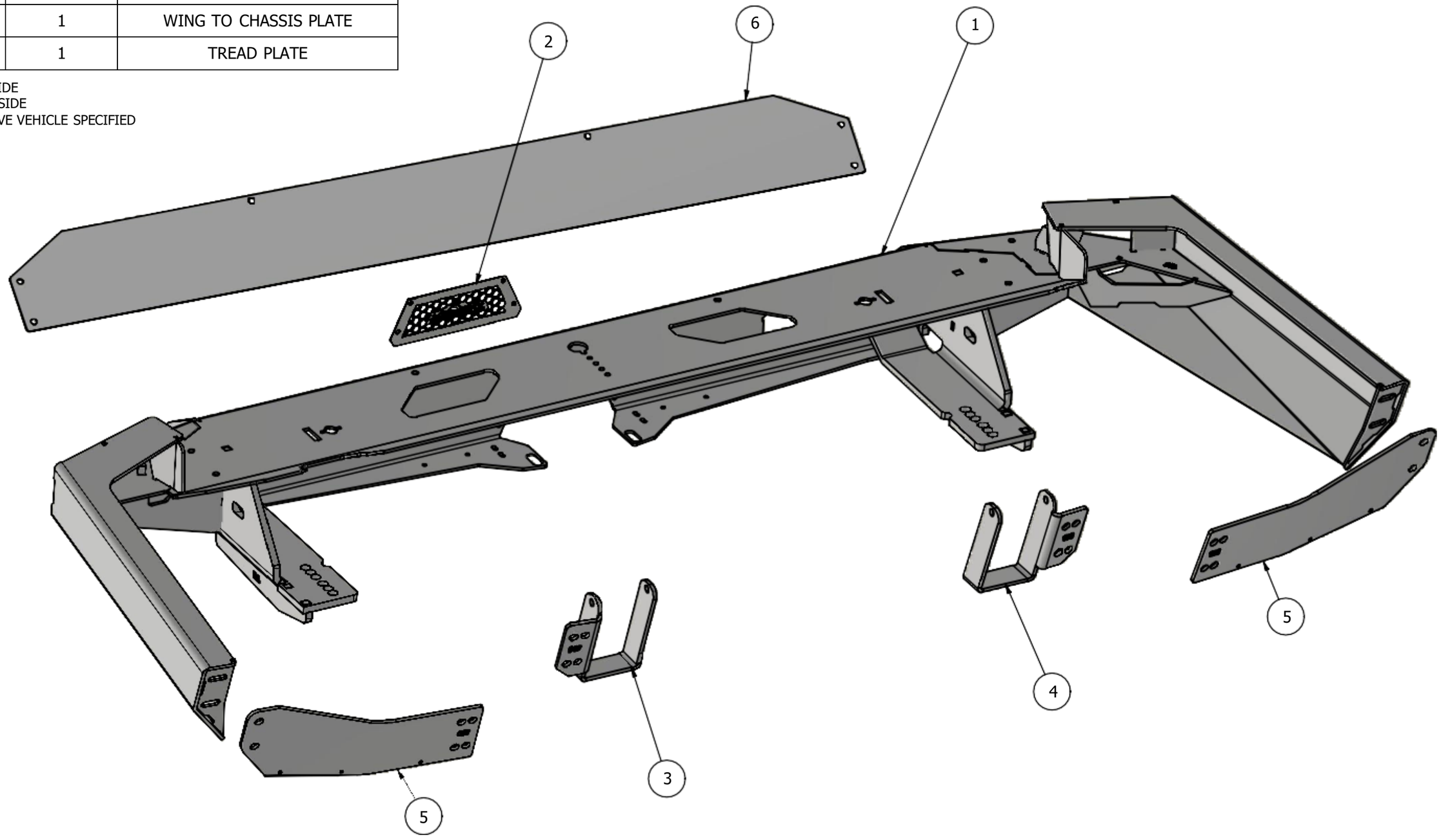
EXTERNAL / INTERNAL REFERS TO START & END POINTS FOR MEASUREMENT



BAR BASE ASSEMBLY

PARTS LIST		
ITEM	QTY	PART NAME
1	1	150 PRADO REAR BAR BASE
2	1	TOW HITCH COVER PLATE
3	1	CHASSIS CLAMP (DS)
4	1	CHASSIS CLAMP (PS)
5	1	WING TO CHASSIS PLATE
6	1	TREAD PLATE

* 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
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

PLEASE USE LOCTITE ON ALL FASTENERS.

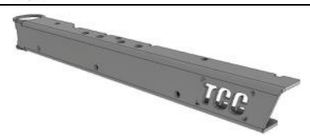


1. PREPARING FOR INSTALL

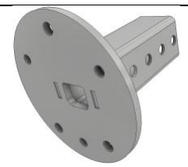
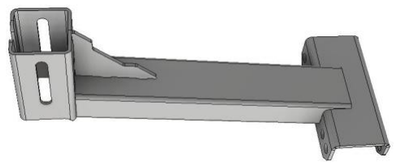
BAR BASE - DETAILED IN ASSEMBLY VIEW (PAGE 3)

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		

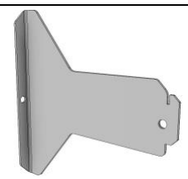
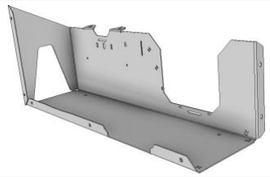
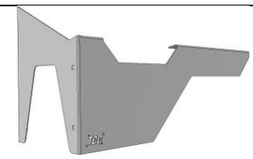
TYRE CARRIER

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

https://www.youtube.com/watch?v=BWXKcDDb92g

CREATOR: Learn cars

2.1. Open rear door and remove plastic trim between bumper and bottom of door frame by pulling outwards.

2.2. Remove 5 x bolts securing top of bumper to body.

2.3. Remove 2 x plastic trim clips (each side) of bumper where it meets door frame.

2.4. Remove 1 x screw and 2 x plastic trim clips (each side) from wheel arch (internal).

2.5. Remove 4 x bolts (each side) securing underside of bumper to body.

2.6. Remove 2 x bolts securing bumper to tow hitch.

2.6. Remove mudflap and begin to pull bumper away from body at the wing.

2.7. Unclip wiring to rear fog lights (if fitted) and parking sensor harness (if fitted).

2.8. Fully remove bumper from body and set aside. Note: when lifting bumper from car, gain assistance of second person to prevent damaging paint on bumper or body panels.

2.9. Remove parking sensors from factory rear bumper.

2.10. Remove sensor housing from factory rear bumper (NOTE: Remember orientation and position of sensor housings. These must be installed in the new rear bar in the same position to prevent interruption to parking sensor function).

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.

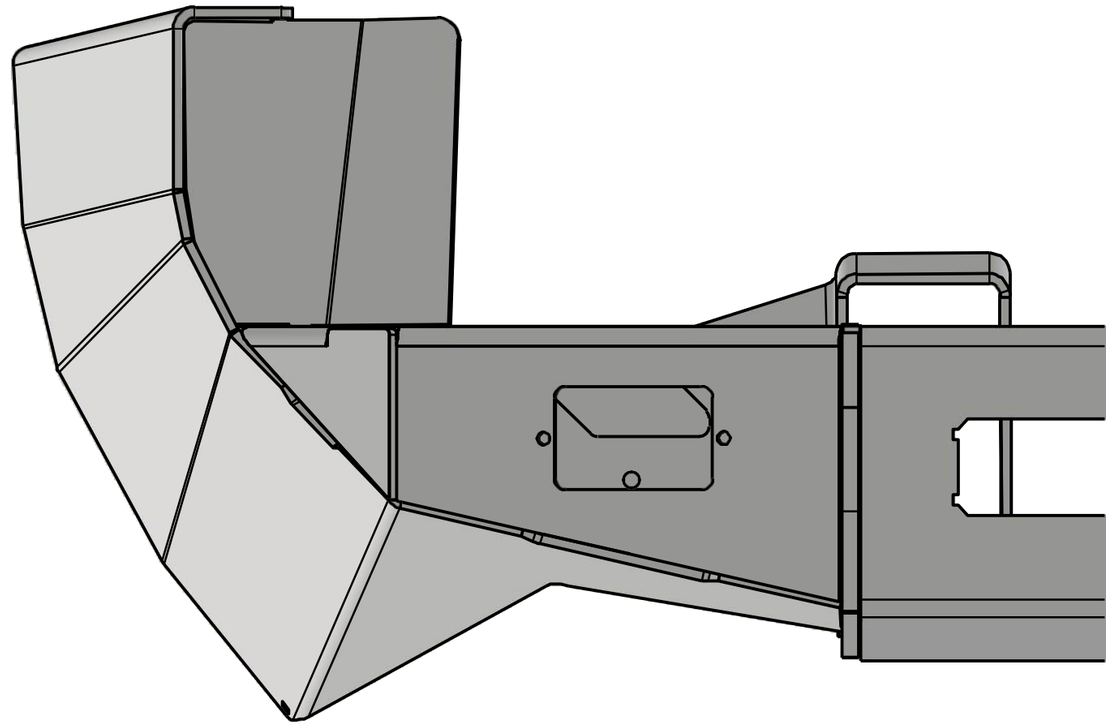
- Keep external joins and moving components properly protected with a lubricant such as Lanolin.

- 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.



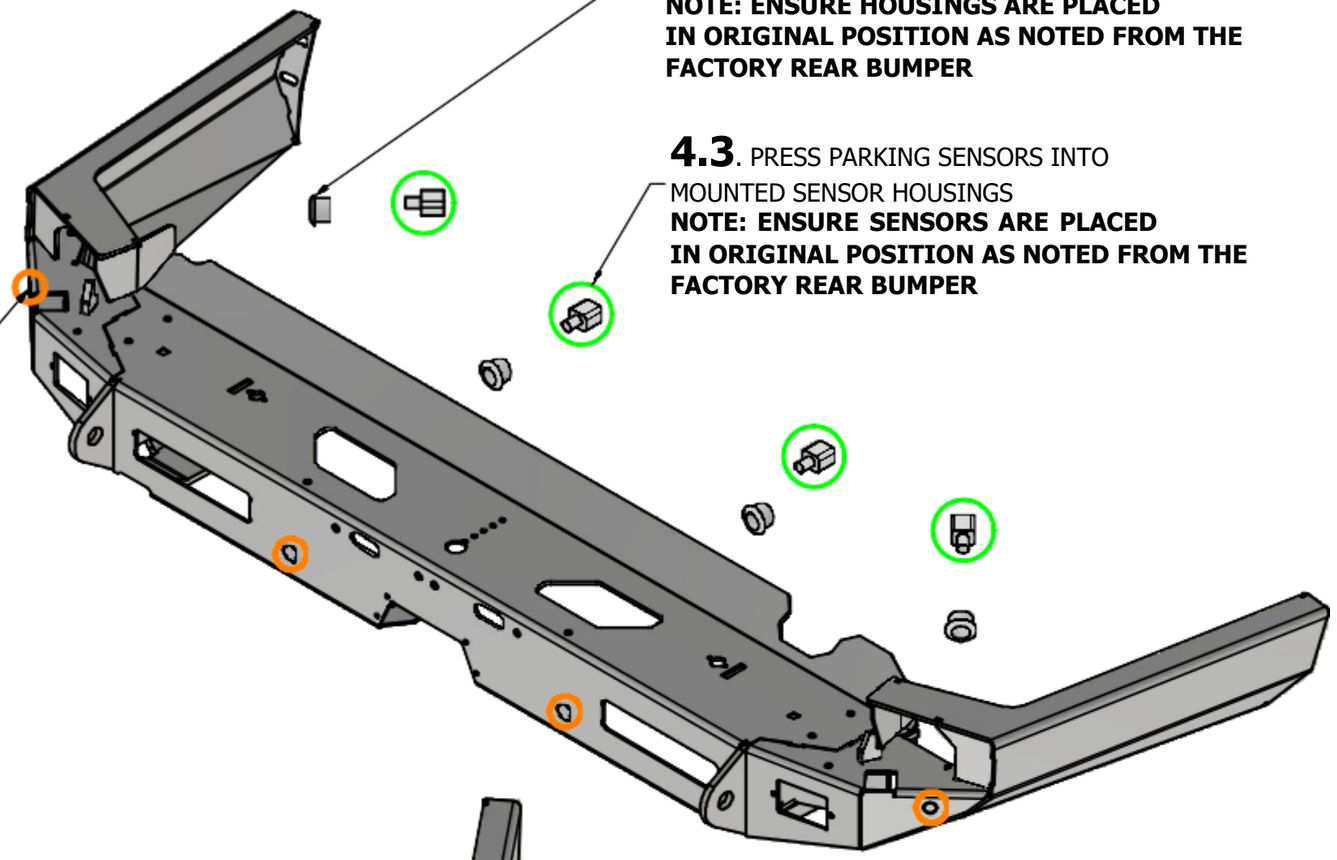
4. REAR BAR INSTALL

FITTING THE PARKING SENSORS & ACCESSORIES

4.1. PUNCH OUT BLANKING PLATES IN PARKING SENSOR LOCATIONS - MARKED ORANGE (IF FITTING PARKING SENSORS)

4.2. USE SIKAFLEX OR DOUBLE SIDED AUTOMOTIVE TAPE TO REINSTALL SENSOR HOUSINGS IN NEW REAR BAR.
NOTE: ENSURE HOUSINGS ARE PLACED IN ORIGINAL POSITION AS NOTED FROM THE FACTORY REAR BUMPER

4.3. PRESS PARKING SENSORS INTO MOUNTED SENSOR HOUSINGS
NOTE: ENSURE SENSORS ARE PLACED IN ORIGINAL POSITION AS NOTED FROM THE FACTORY REAR BUMPER

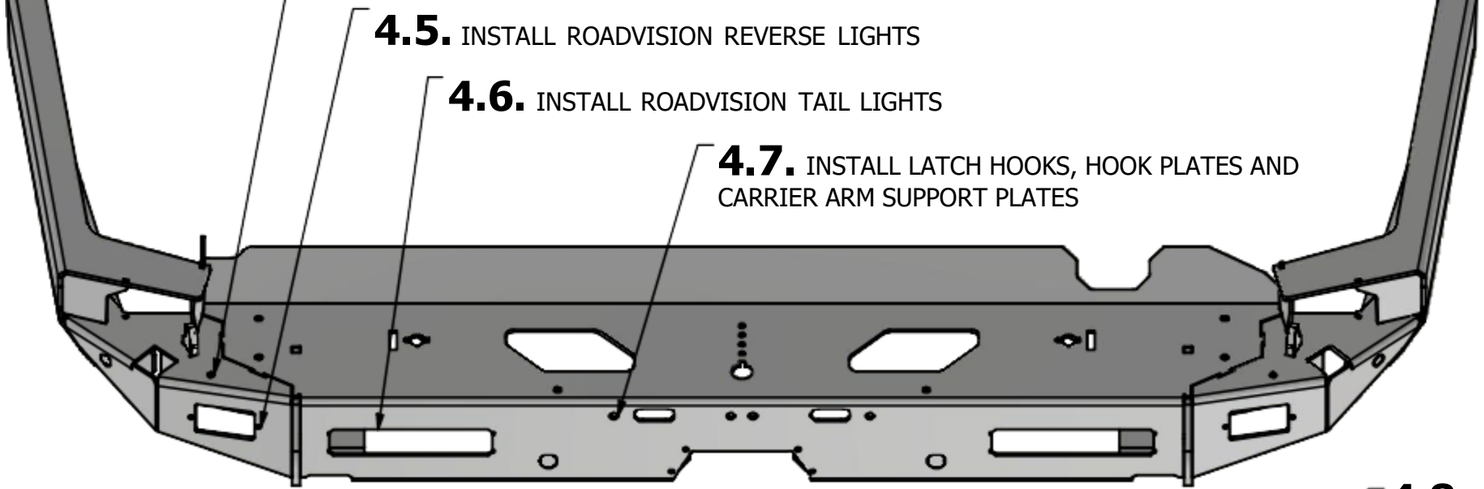


4.4. INSTALL GAS STRUT BALLS

4.5. INSTALL ROADVISION REVERSE LIGHTS

4.6. INSTALL ROADVISION TAIL LIGHTS

4.7. INSTALL LATCH HOOKS, HOOK PLATES AND CARRIER ARM SUPPORT PLATES



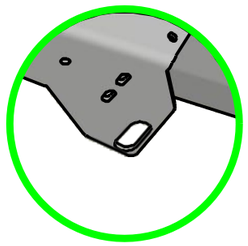
4.8. INSTALL TREAD PLATE



5. REAR BAR INSTALL

FITTING TO THE VEHICLE

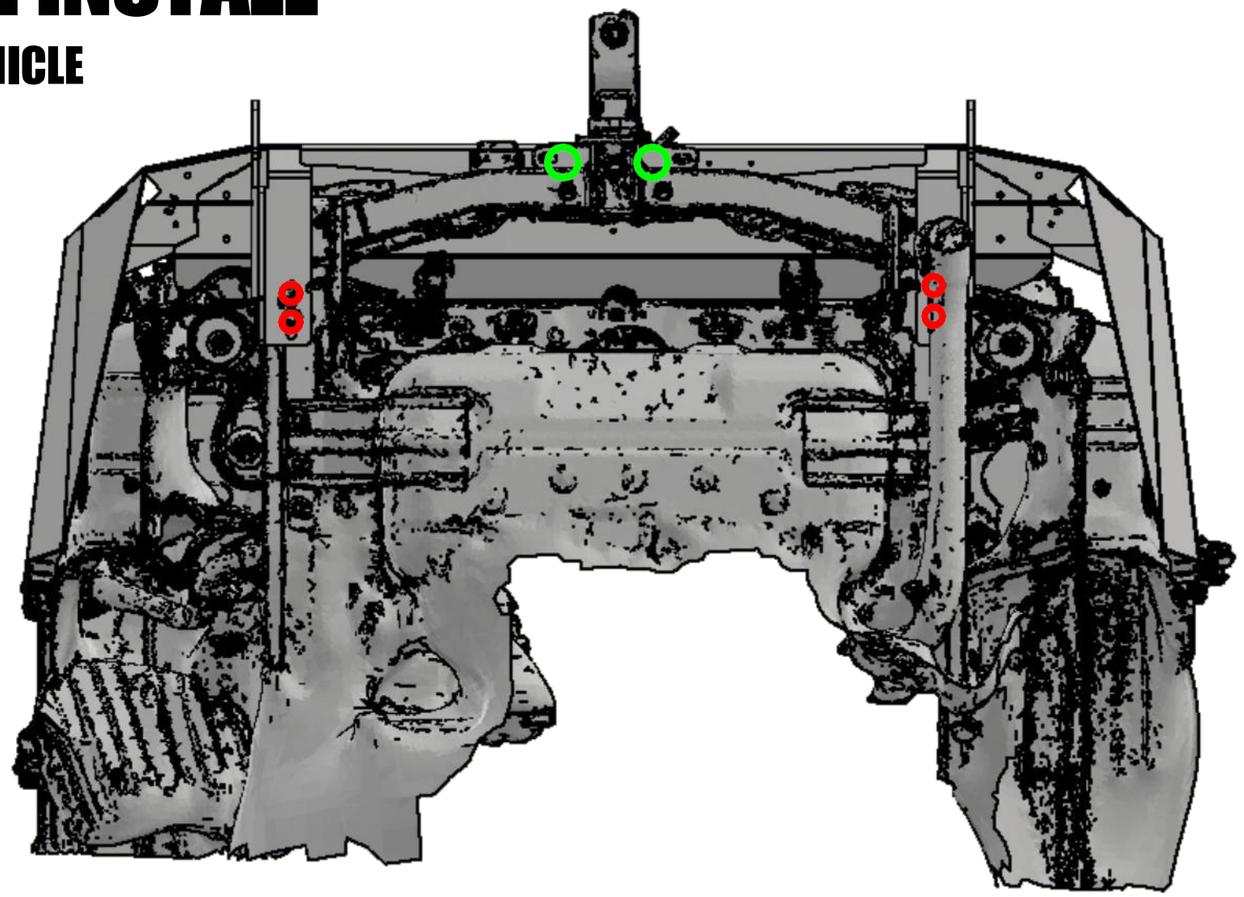
5.1



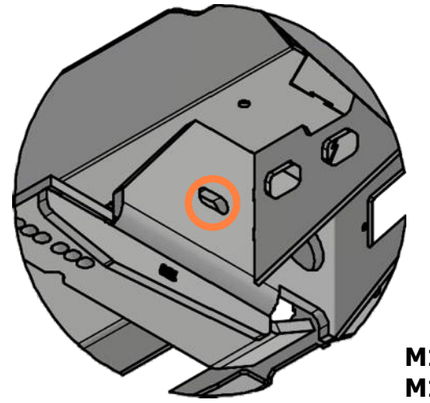
M12 BOLT
M12 WASHER



M12 BOLT
M12 WASHER

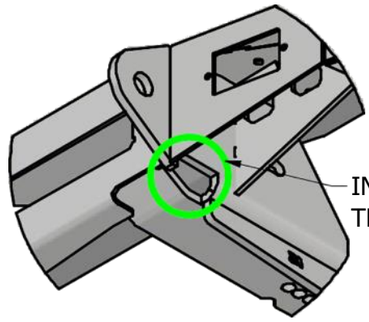


5.2



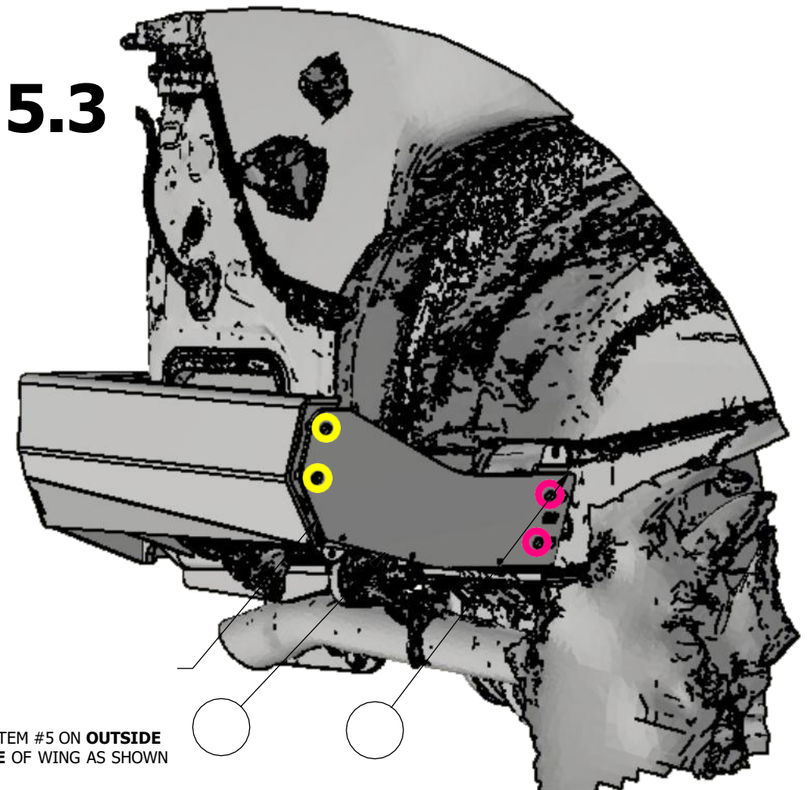


M12 BOLT
M12 WASHER
M12 NUT ON STICK

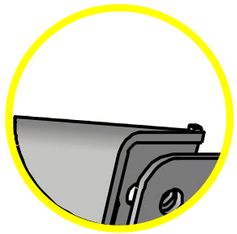


INSERT NUT ON STICK INTO CHASSIS THROUGH GAP IN BAR CIRCLED GREEN

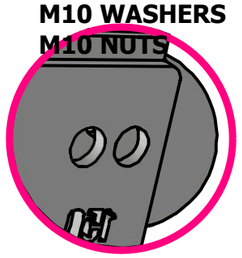
5.3



NOTE: PLACE ITEM #5 ON **OUTSIDE FACE** OF WING AS SHOWN

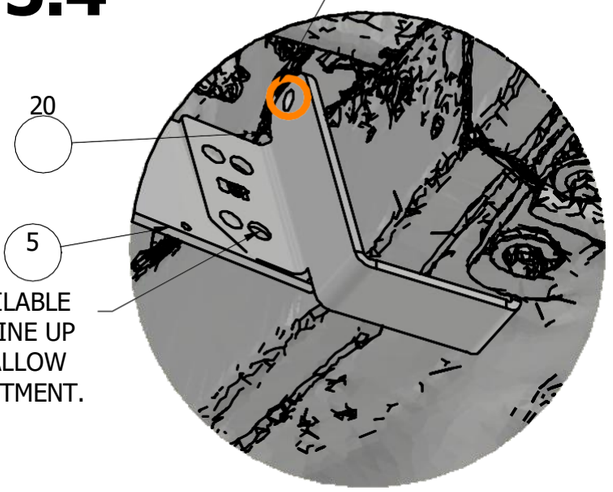


M10 BOLTS
M10 WASHERS
M10 NUTS



5.4

LONG M10 BOLTS
M10 WASHERS
M10 NUTS



NOTE THAT ONLY 2 HOLES OF THE AVAILABLE 4 HOLES ON CHASSIS CLAMPS WILL LINE UP WITH HOLES IN ITEM 5. THIS IS TO ALLOW ADJUSTMENT.

VIEW FROM UNDERNEATH CAR*

5

3 **M10 BOLTS M10 WASHERS M10 NUTS**

PLEASE ORIENT BOLTS FOR HOLES MARKED YELLOW AND PINK SO THAT THEY DO NOT INTERFERE WITH TYRE.

6. REAR BAR INSTALL

BUMPER CUT

**** NOTE ** READ ENTIRE PAGE BEFORE PROCEEDING WITH BUMPER CUT**
IF USING PINCHWELD ON BUMPER CUT EDGE (RECOMMENDED) SUBTRACT 20MM FROM ALL MEASUREMENTS

6.1. Measure points as shown in **IMAGE 6.A.** Ensure these are recorded.

6.2. Measure points as shown in **IMAGE 6.B.** Ensure these are recorded.

6.3. Repeat measurements on both drivers side and passenger side.

6.4. Transfer measurements to factory bumper by measuring from the same points. mark these points on the bumper and run a line with masking tape to connect points.

6.5. With an oscillating multitool or similar - cut along masking tape line. Test fit on car.

6.6. Ensure cutout for stub axle is included in this step. Test fit carrier arm and cut bumper as required.

6.7. Reinstall chopped bumper, adding pinchweld before mounting back to car.



IMAGE 6.A



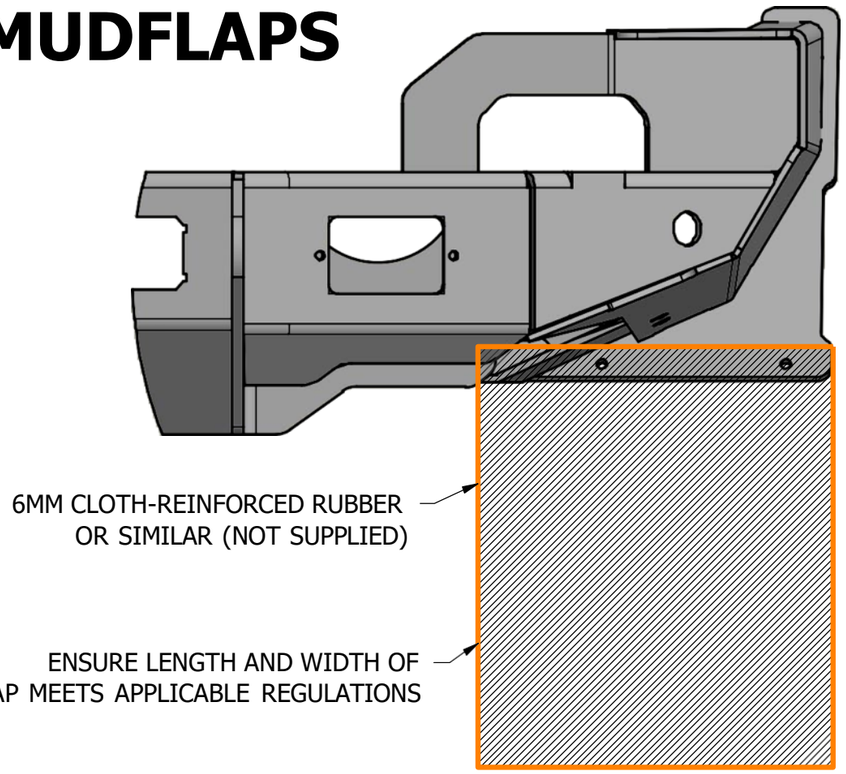
IMAGE 6.B

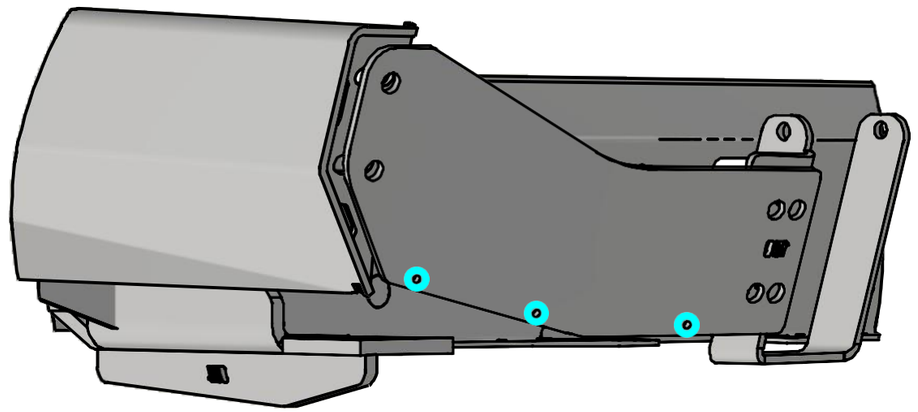
7. REAR BAR INSTALL

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.

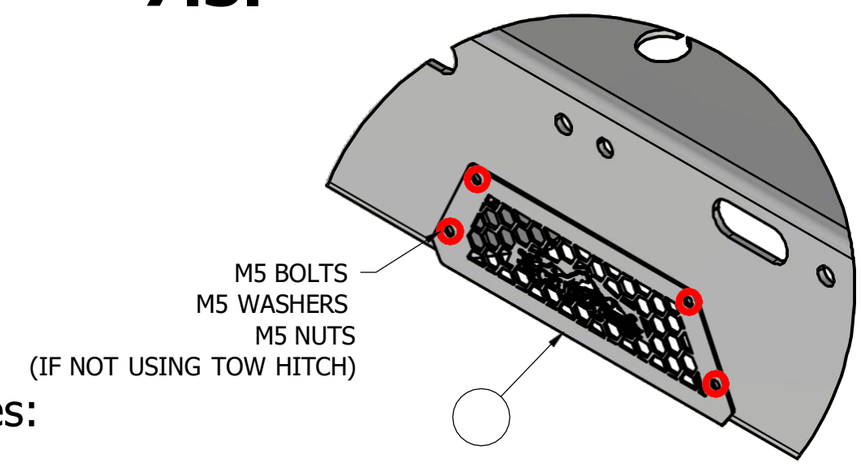
7.2. MUDFLAPS





USE HOLES MARKED BLUE TO MOUNT MUDFLAPS
(HARDWARE NOT SUPPLIED)

7.3.



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

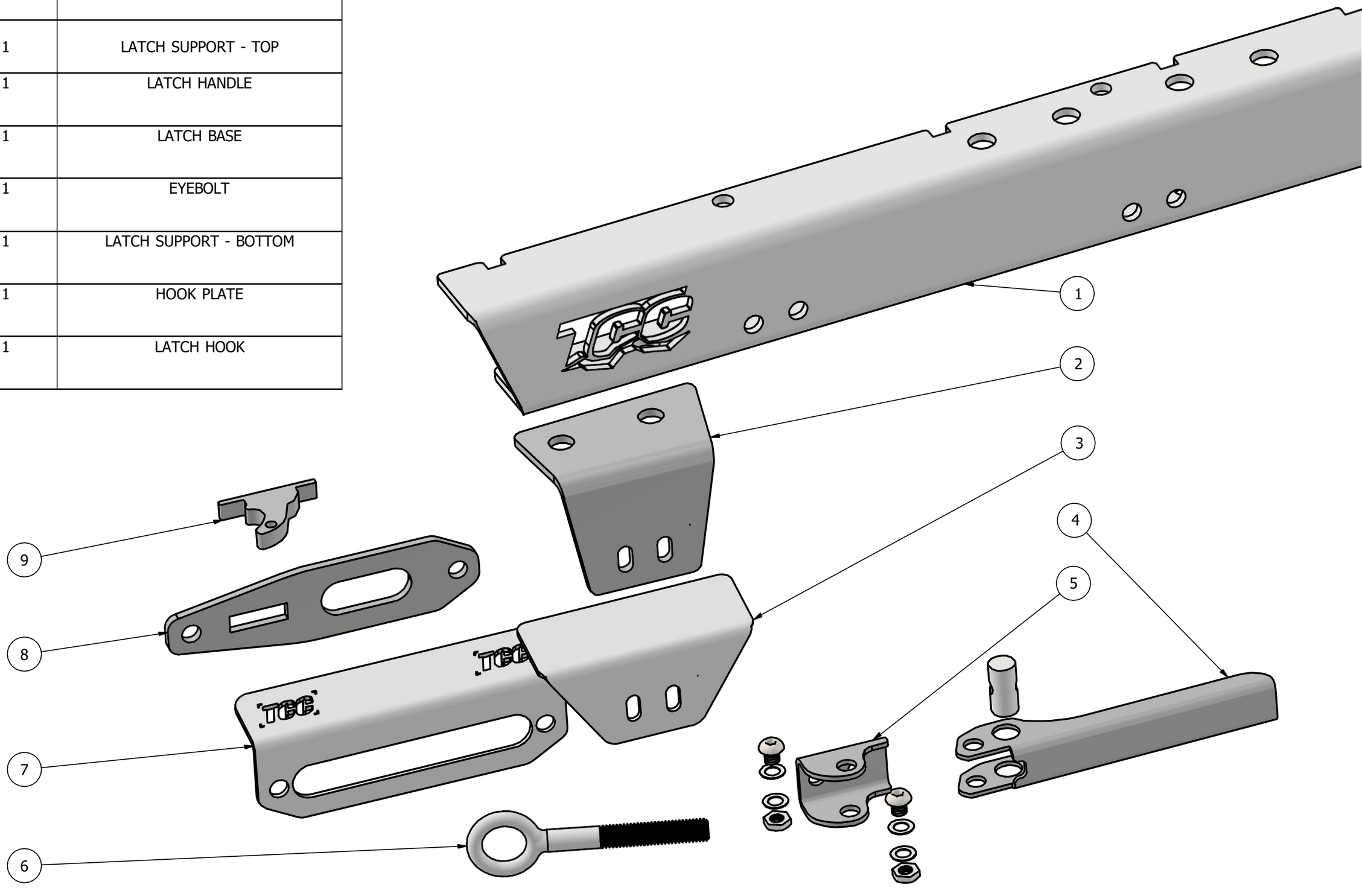
TCC LATCH ASSEMBLY

ASSEMBLY INSTRUCTIONS

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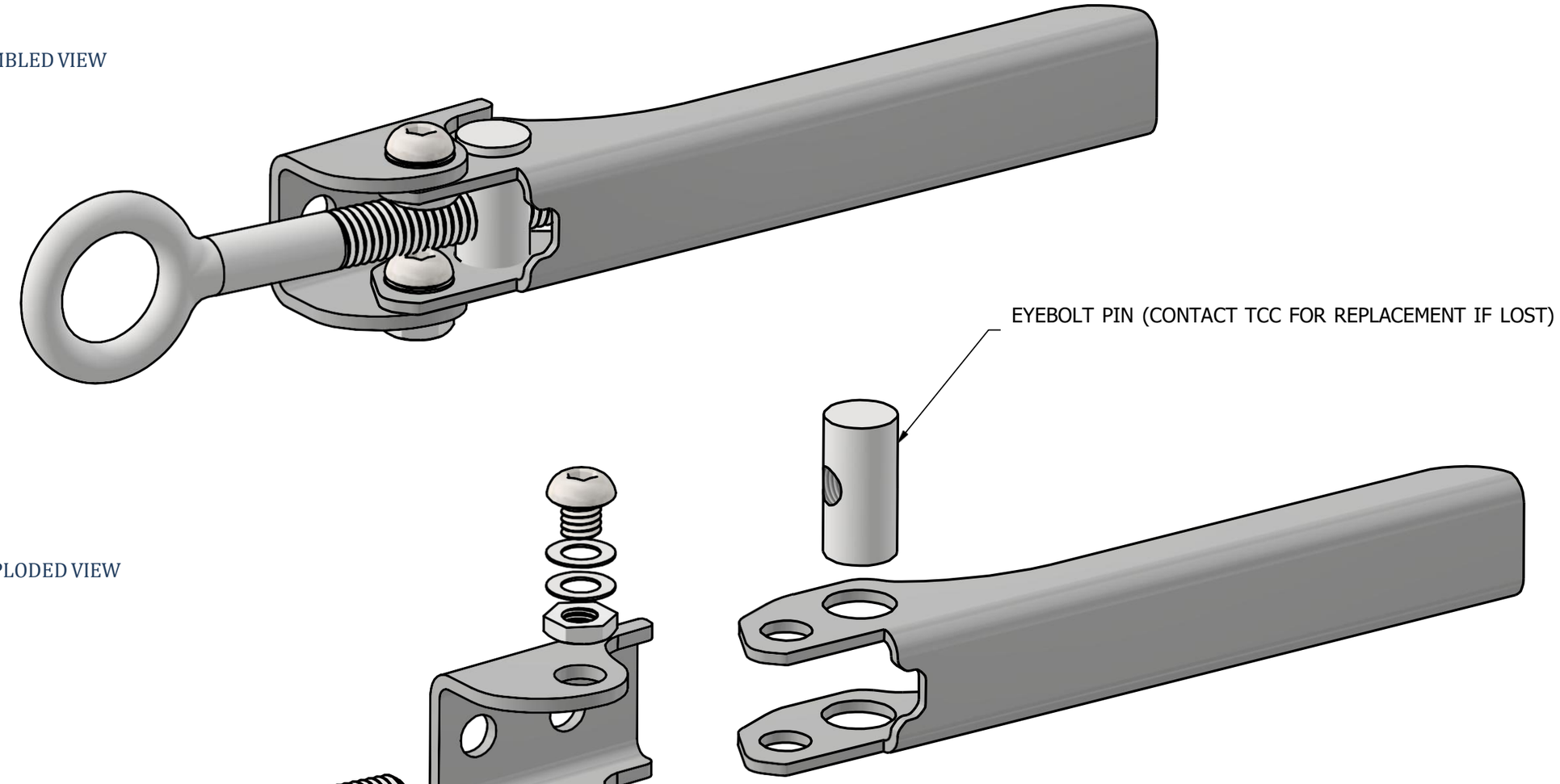
TABLE		
ITEM	QTY	ITEM NAME
1	1	TCC CARRIER ARM
2	1	LATCH DROP DOWN
3	1	LATCH SUPPORT - TOP
4	1	LATCH HANDLE
5	1	LATCH BASE
6	1	EYEBOLT
7	1	LATCH SUPPORT - BOTTOM
8	1	HOOK PLATE
9	1	LATCH HOOK



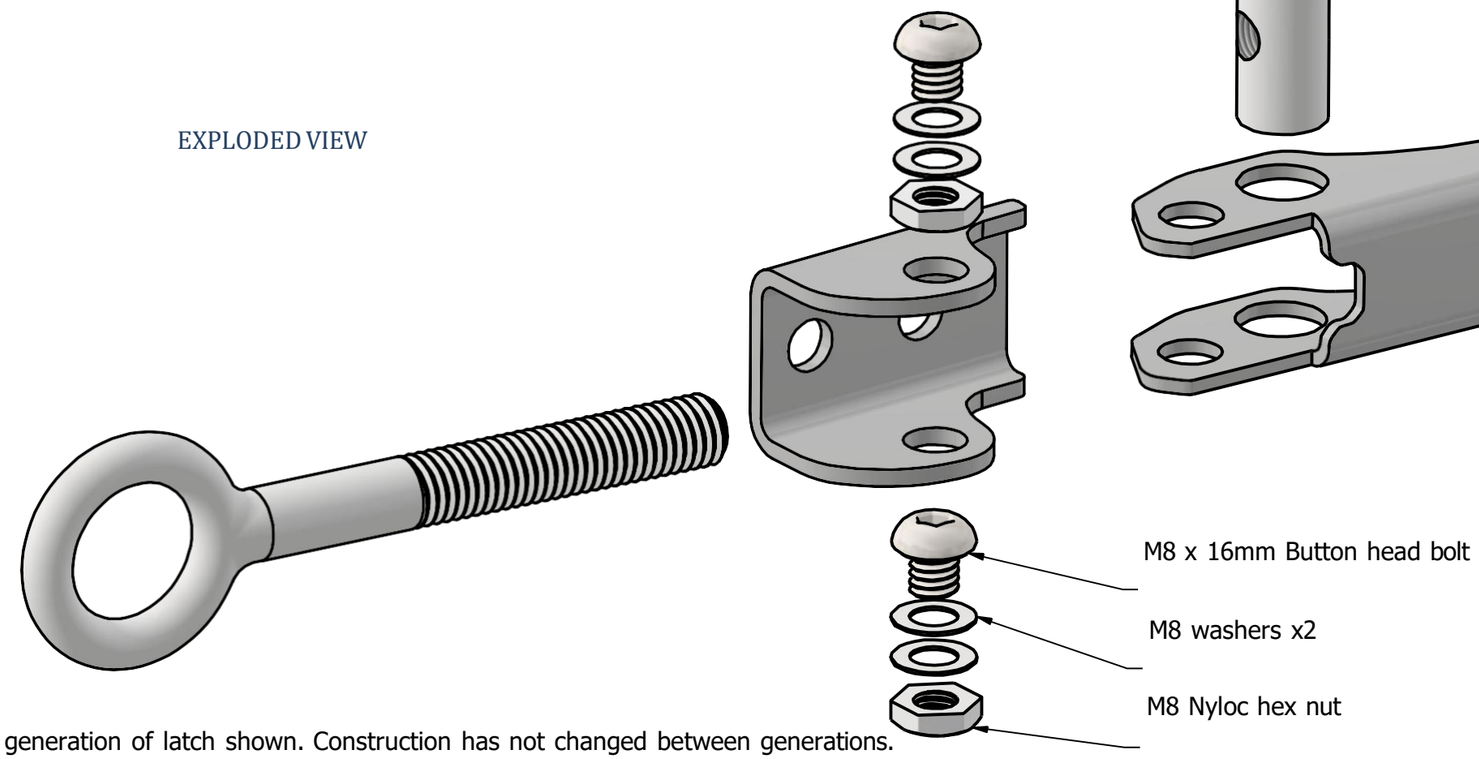
1. LATCH ASSEMBLY

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



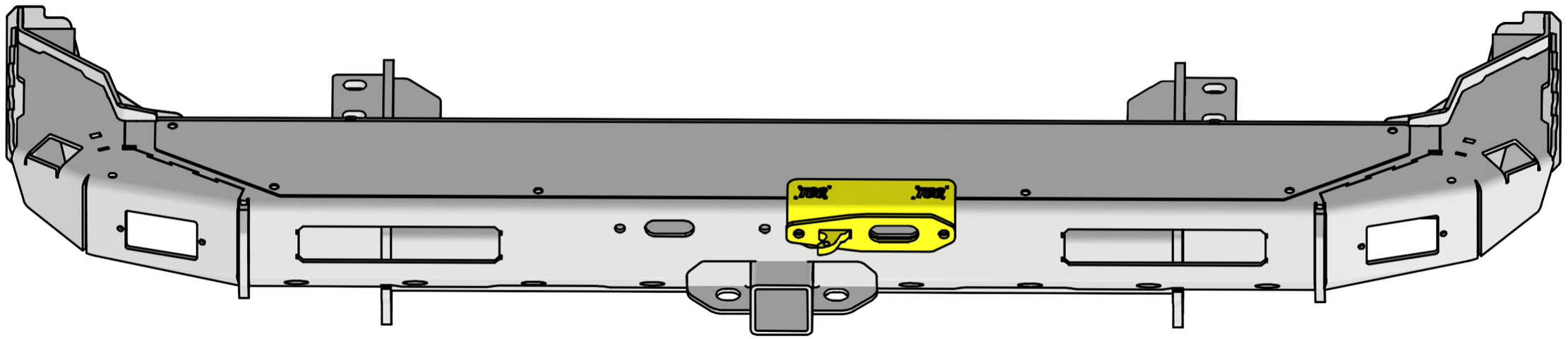
EXPLODED VIEW



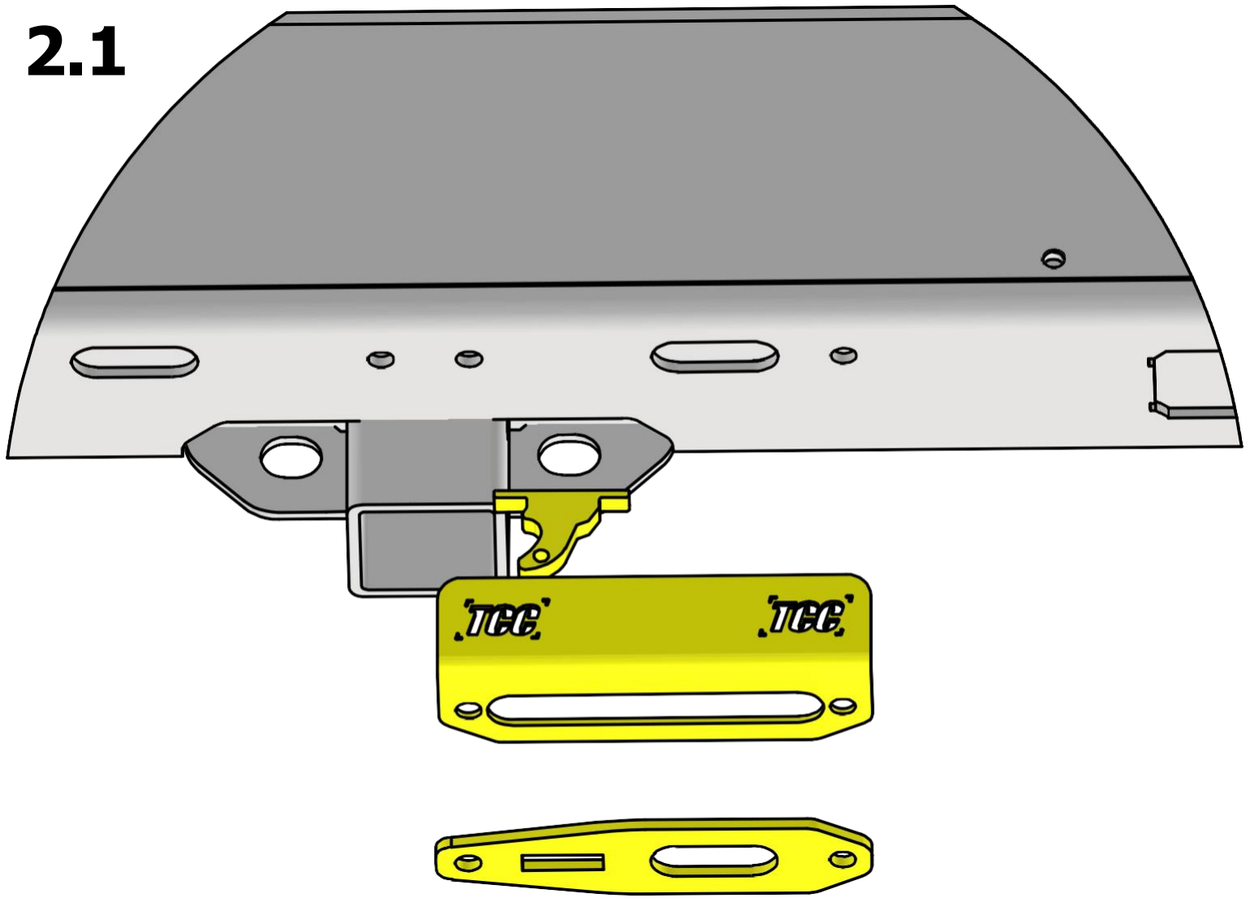
please note: previous generation of latch shown. Construction has not changed between generations.

2. JOINING LATCH TO REAR BAR

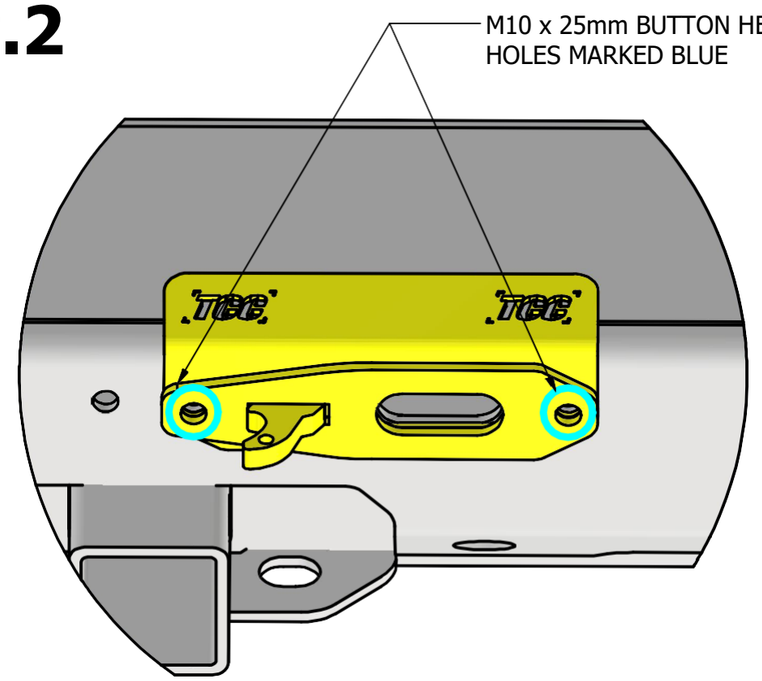
BAR BASE



2.1



2.2



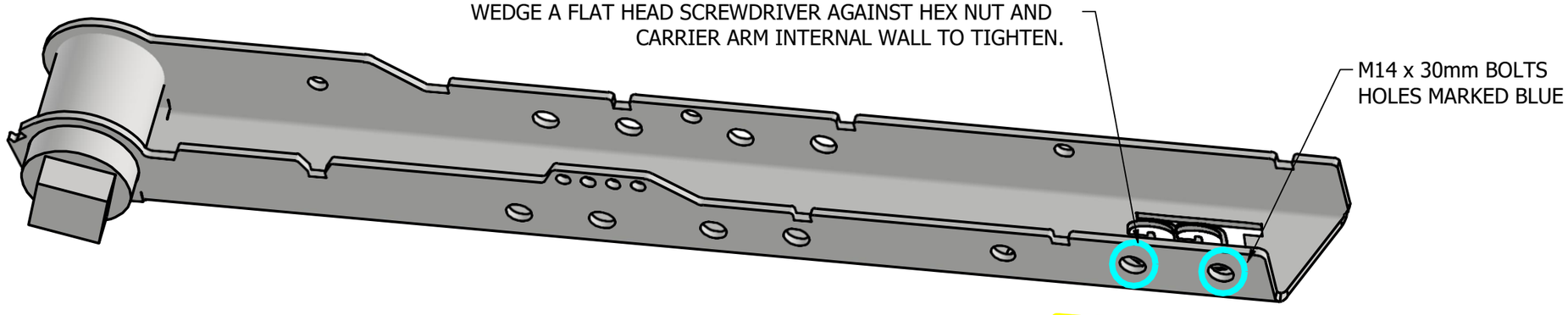
NOTE ORIENTATION OF ALL PARTS SHOWN

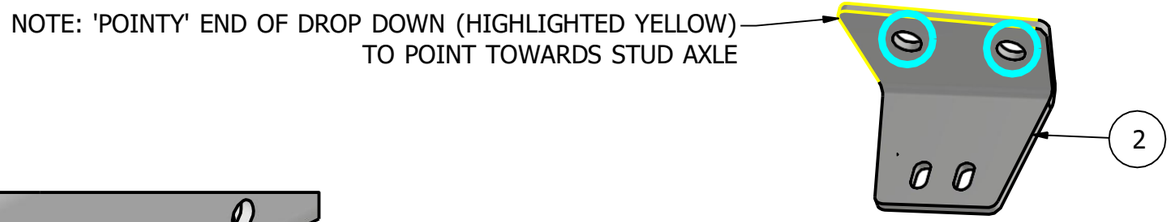
3. JOINING LATCH TO REAR BAR

CARRIER ARM

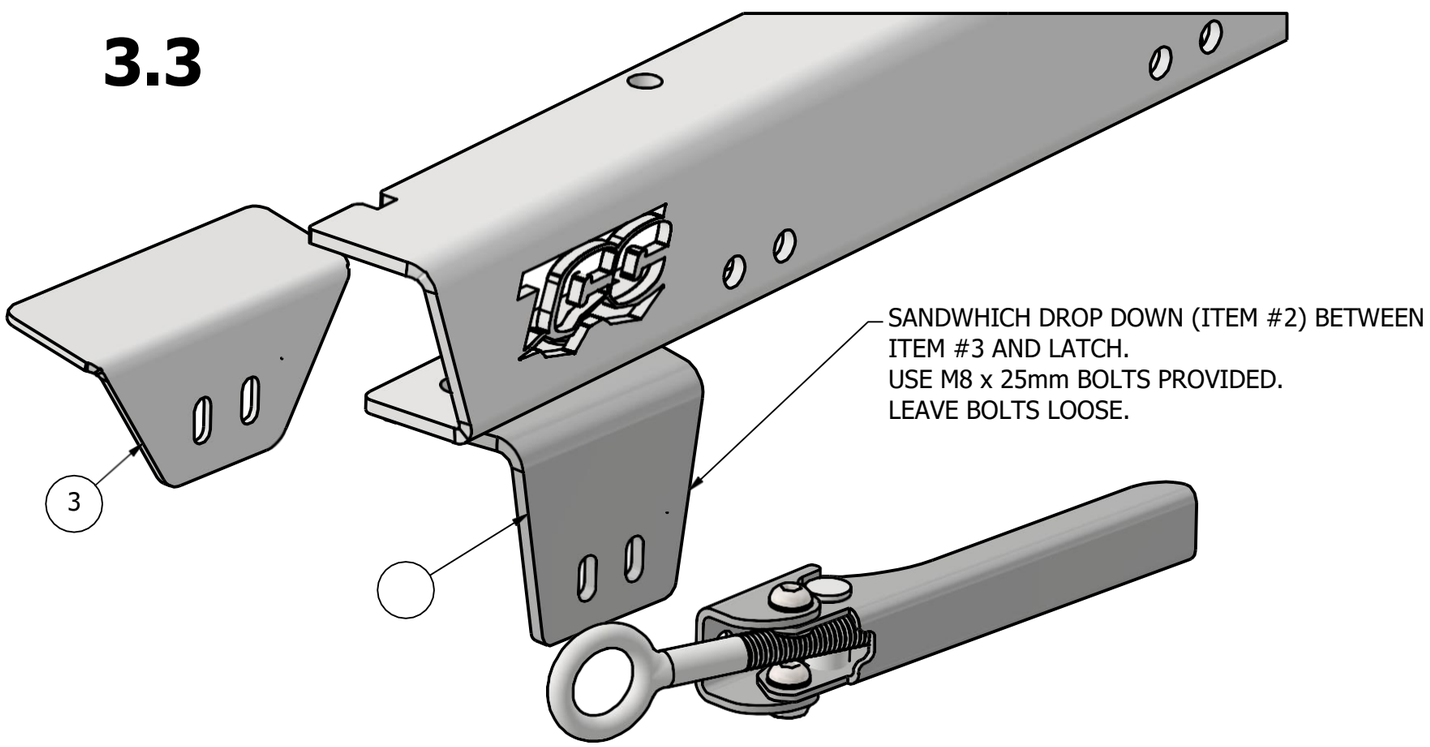
3.1 Please ensure carrier arm is installed to bar base before proceeding to this step.

3.2 REAR VIEW OF PASSENGER SIDE ARM





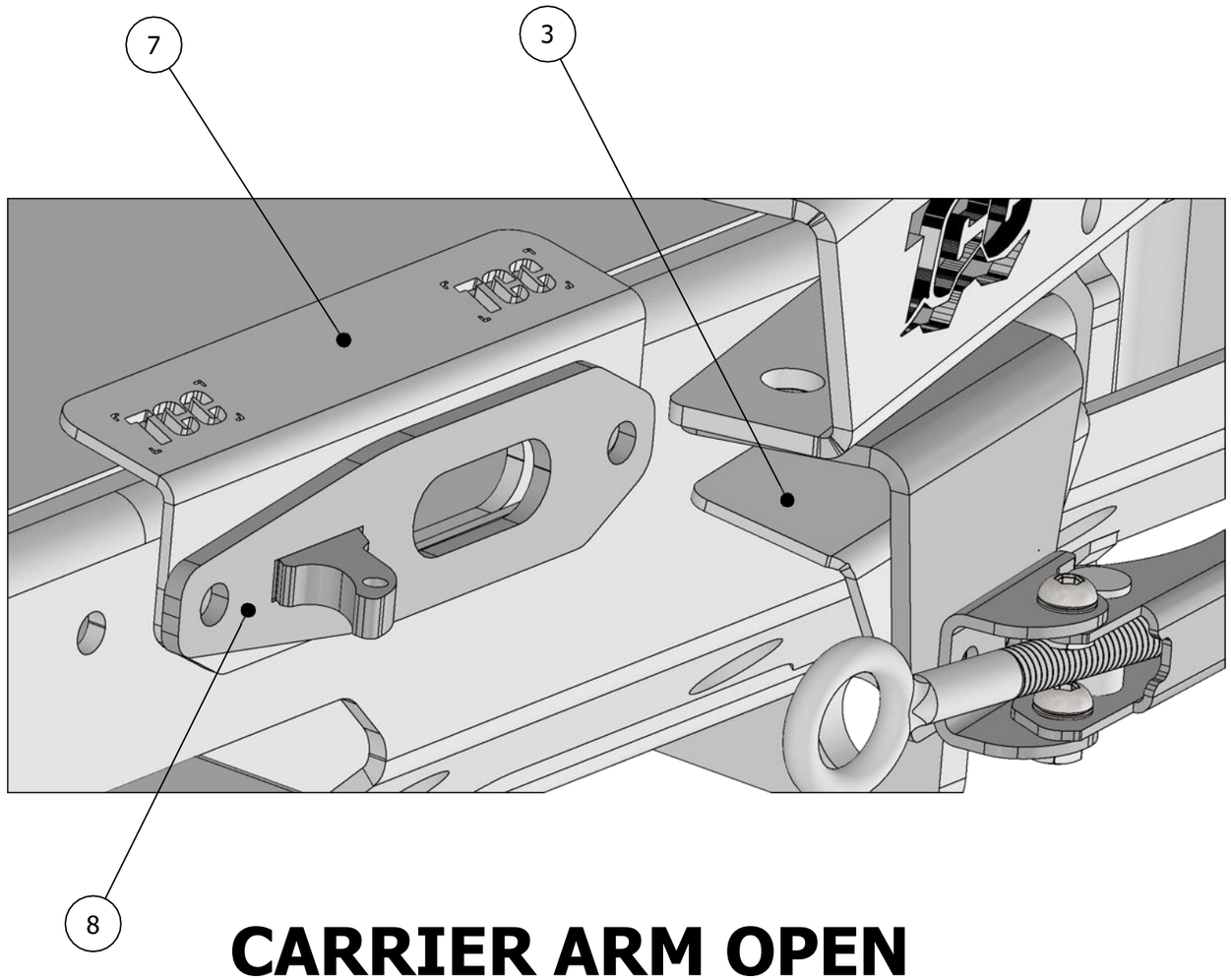
3.3



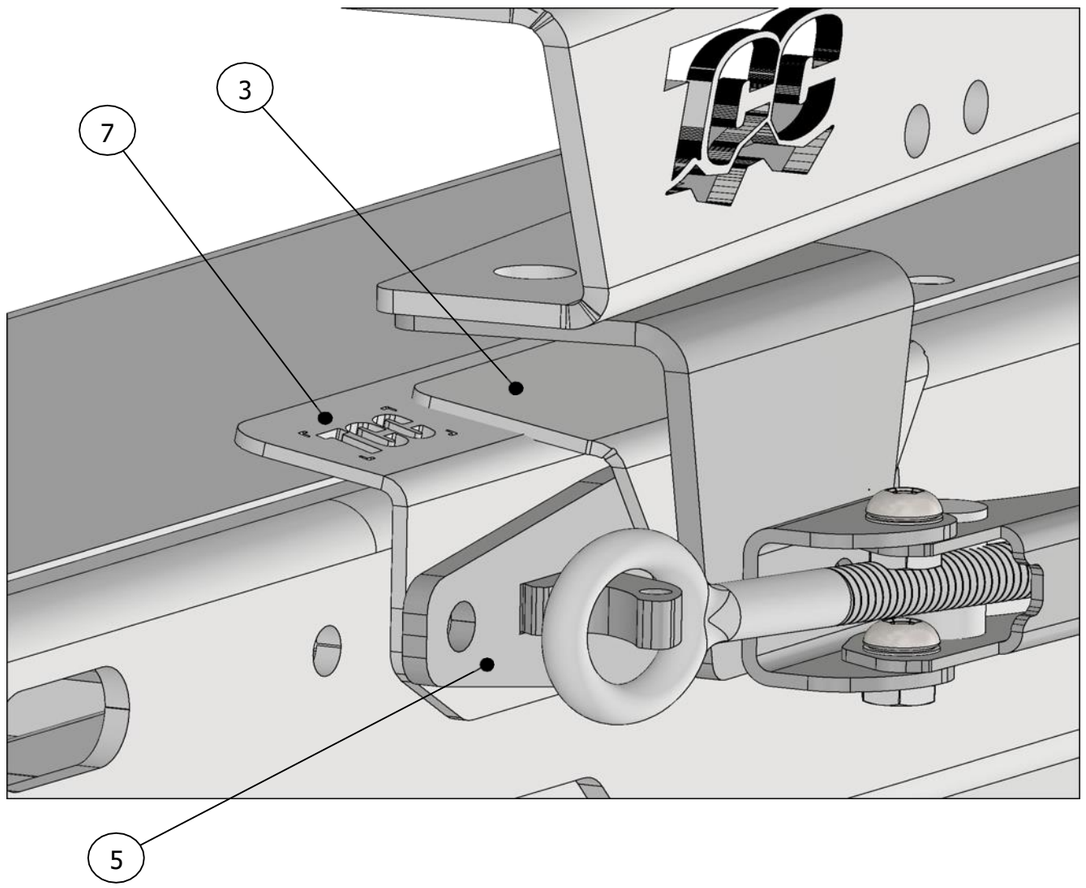
3. JOINING LATCH TO REAR BAR

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**.



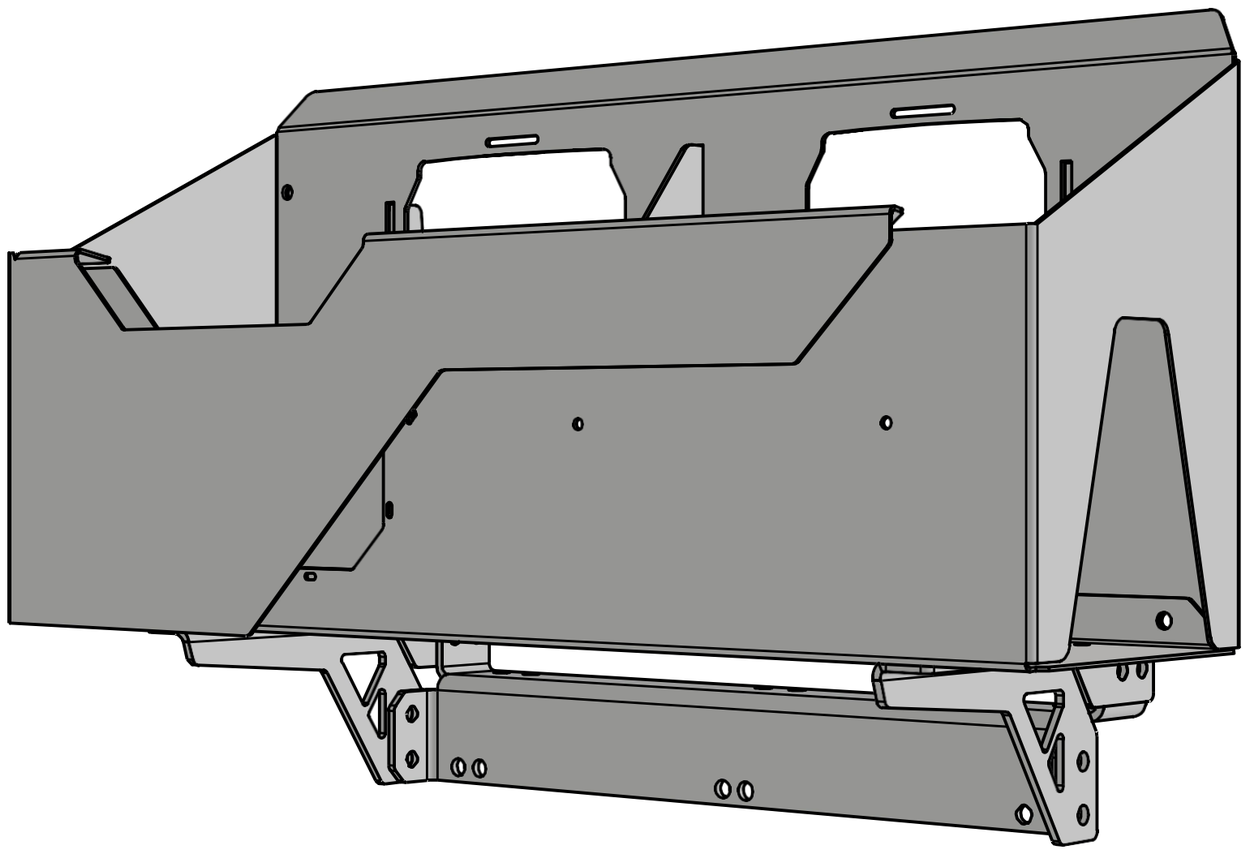
CARRIER ARM OPEN

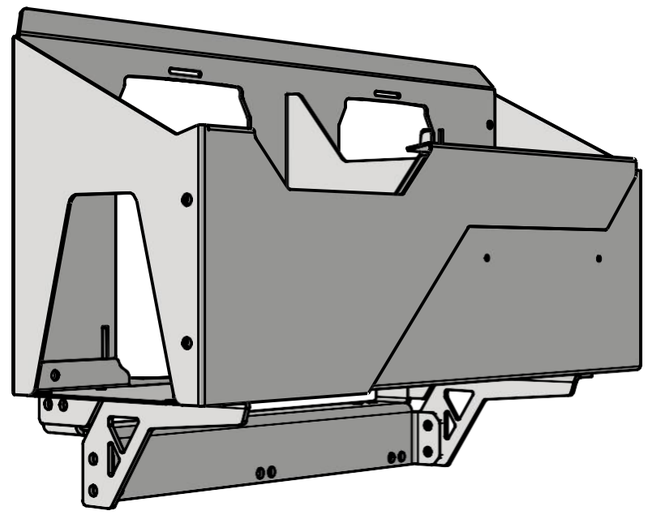


CARRIER CLOSED

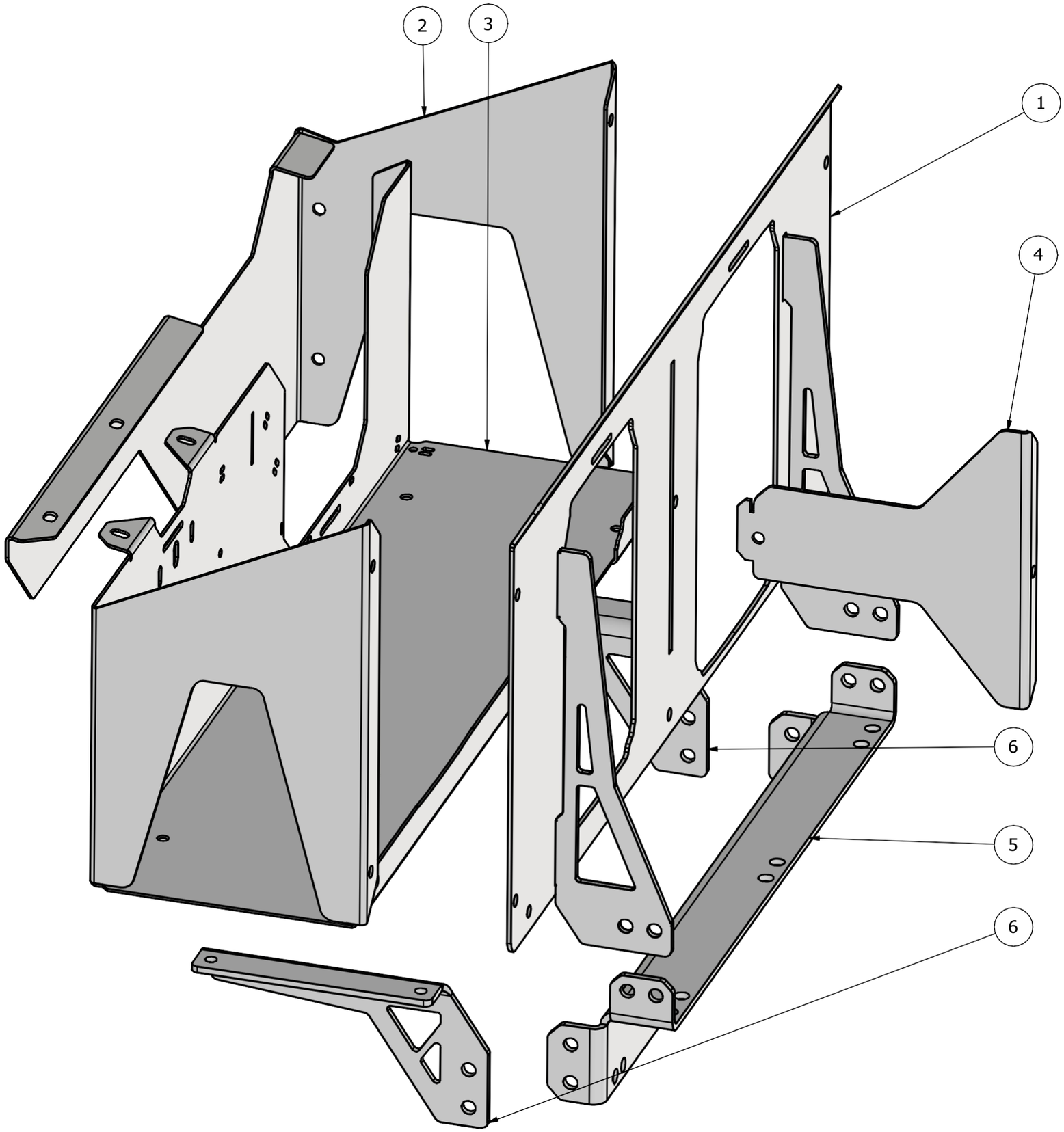
TCC JERRY/GAS HOLDER

ASSEMBLY INSTRUCTIONS



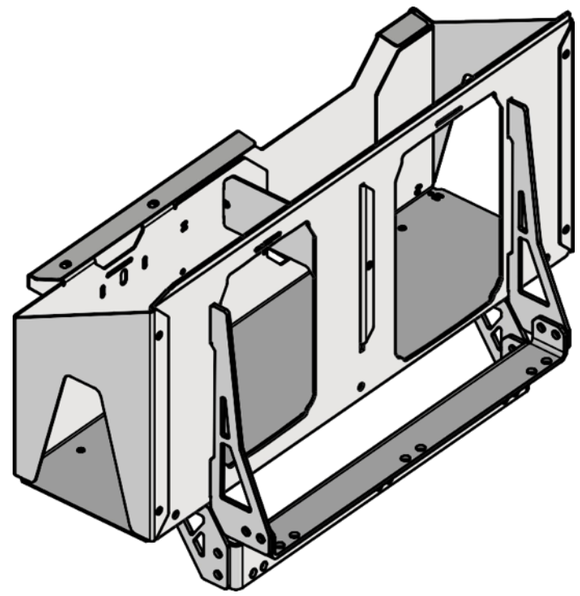


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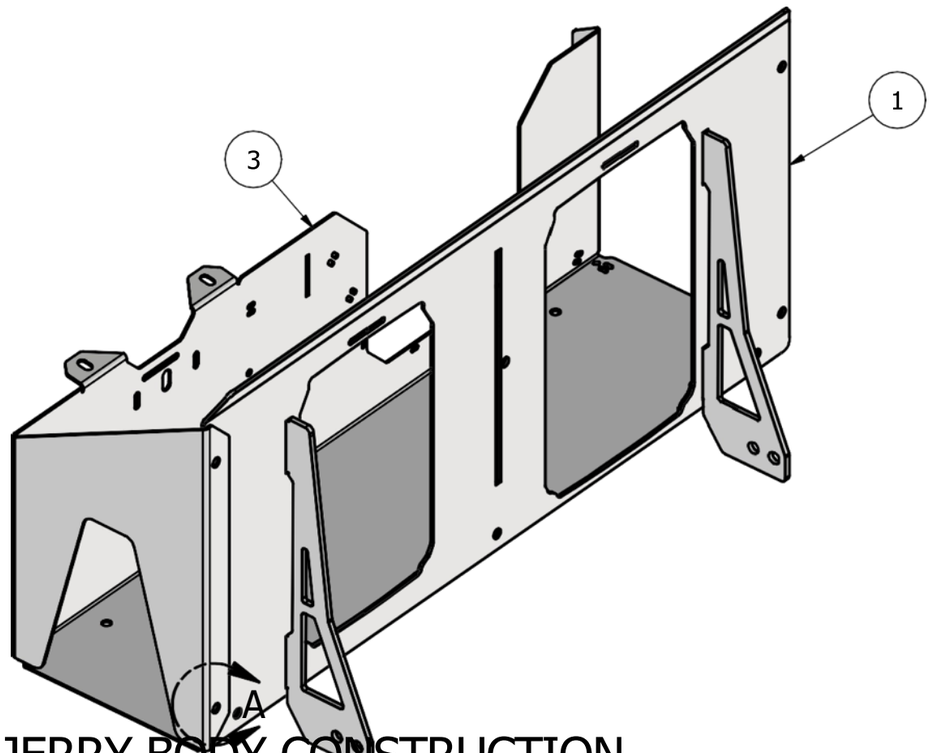
PARTS LIST		
ITEM	QTY	DESCRIPTION
1	1	JERRY BACKING
2	1	JERRY FRONT COVER
3	1	JERRY INTERNAL
4	1	JERRY DIVIDER
5	1	UNIVERSAL SHELF BASE
6	2	JERRY LOWER GUSSET

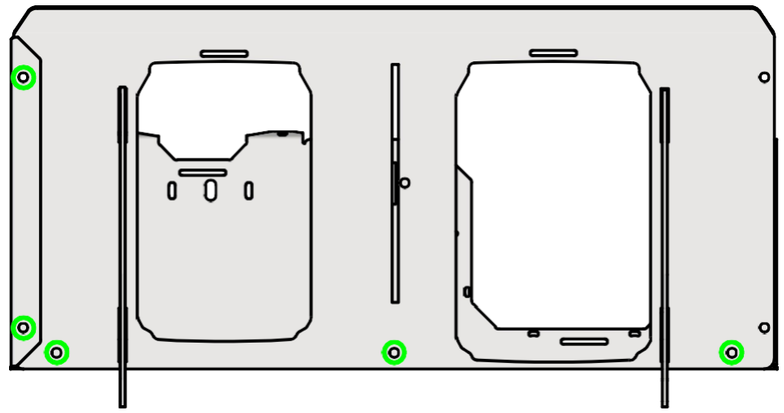
HARDWARE KIT (INCLUDED)	
QTY	DESCRIPTION
8	M10 X 25mm BUTTON HEAD BOLTS
6	M10 X 20mm BUTTON HEAD BOLTS
28	M10 WASHERS
14	M10 NUTS
16	M8 x 20mm BUTTON HEAD BOLTS
32	M8 WASHERS
16	M8 NUTS



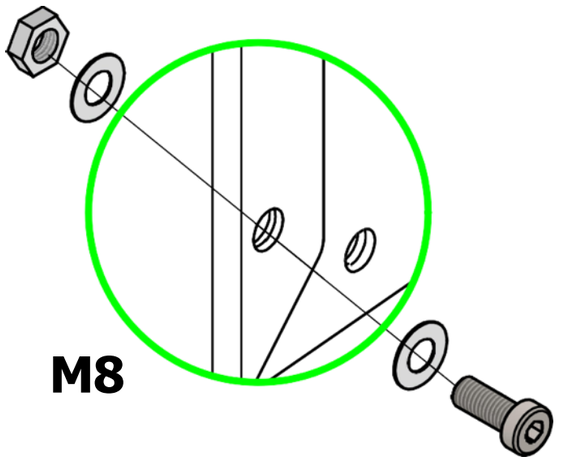
FULLY ASSEMBLED

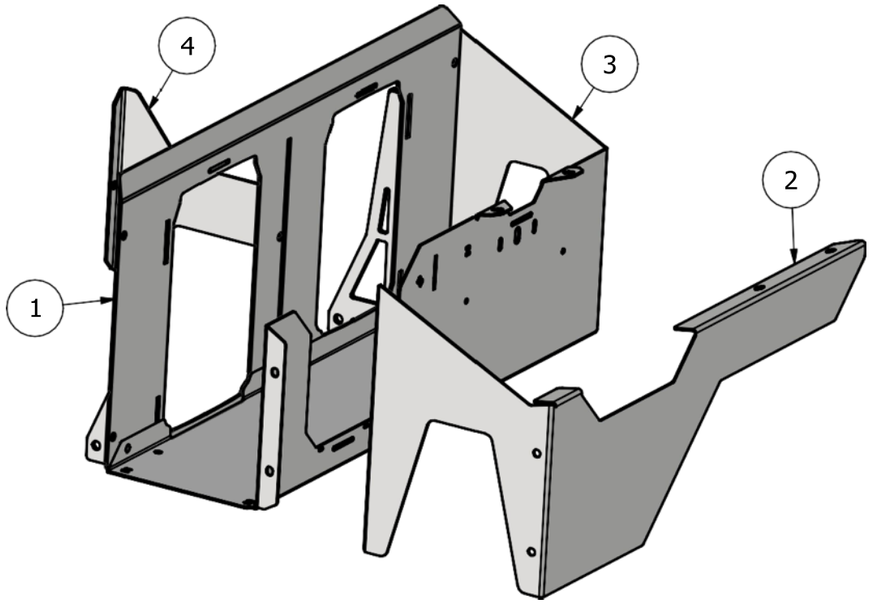
1. JERRY BODY CONSTRUCTION

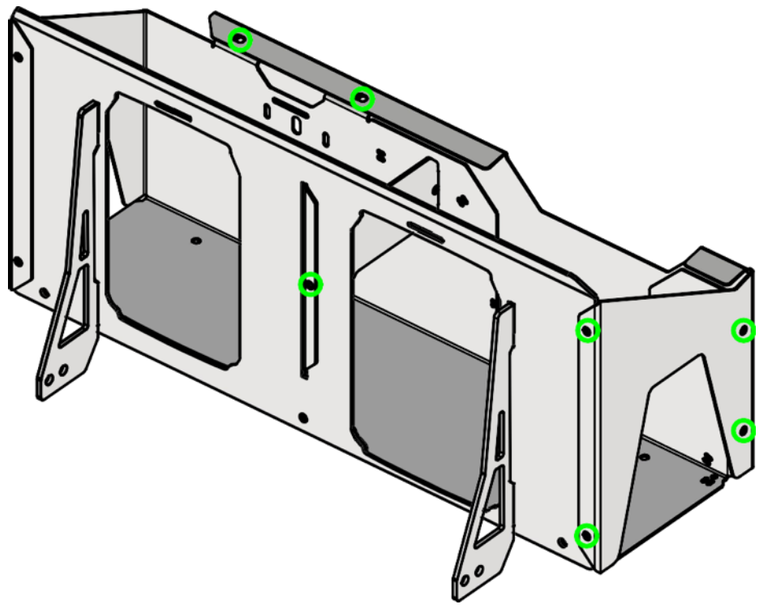




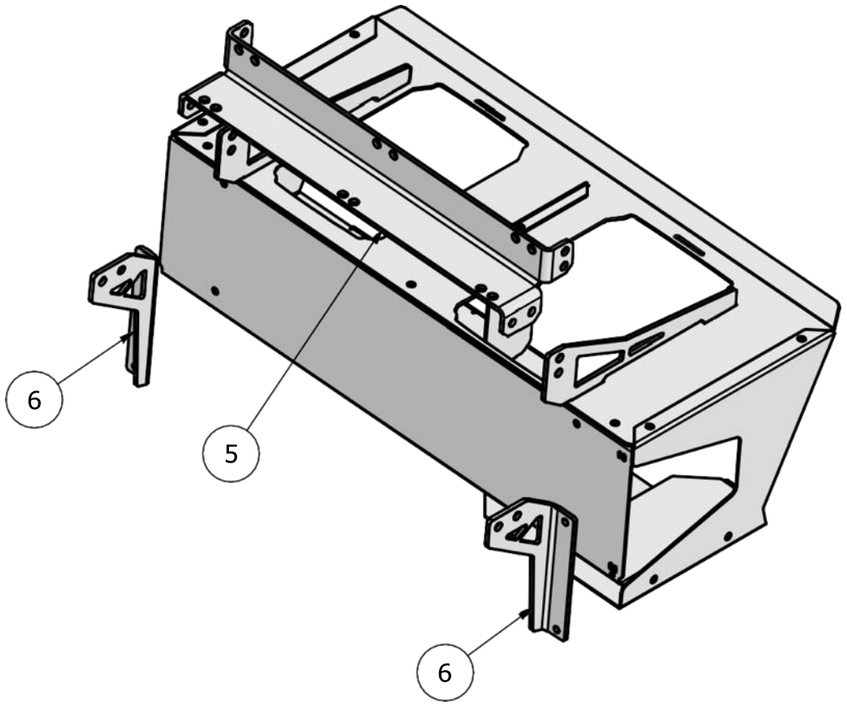
2. JERRY BODY CONSTRUCTION

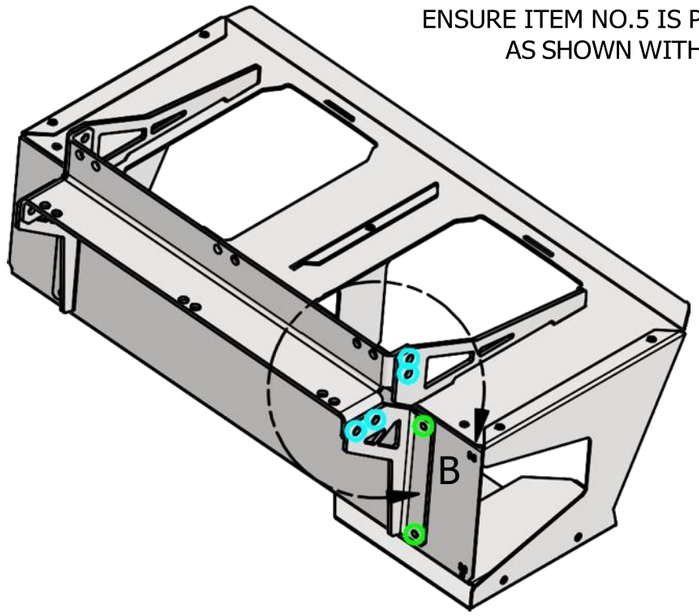




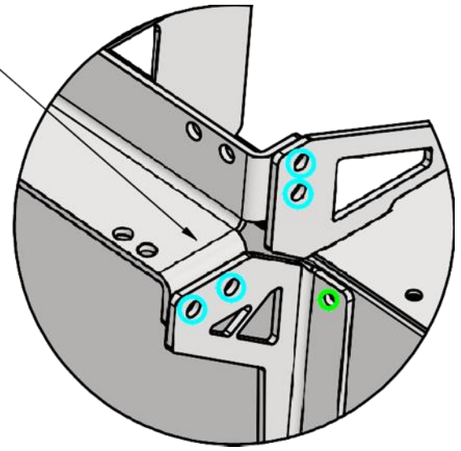


3. ATTACH UNIVERSAL MOUNT

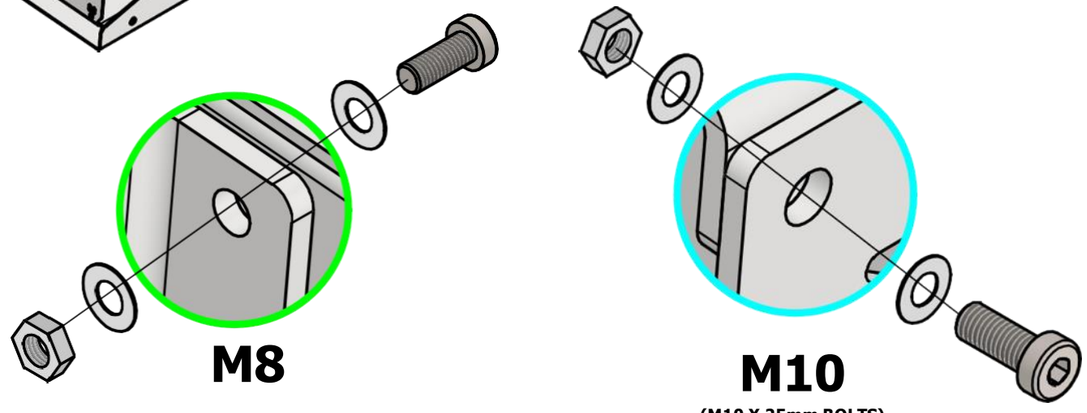




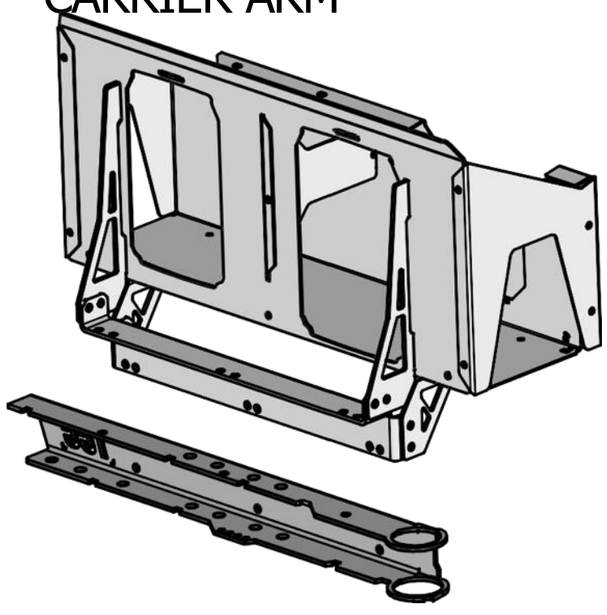
ENSURE ITEM NO.5 IS POSITIONED AS SHOWN WITHIN MOUNTS

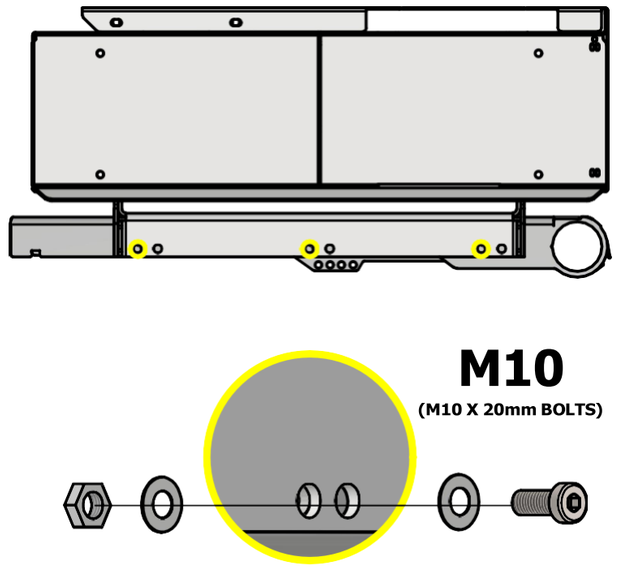


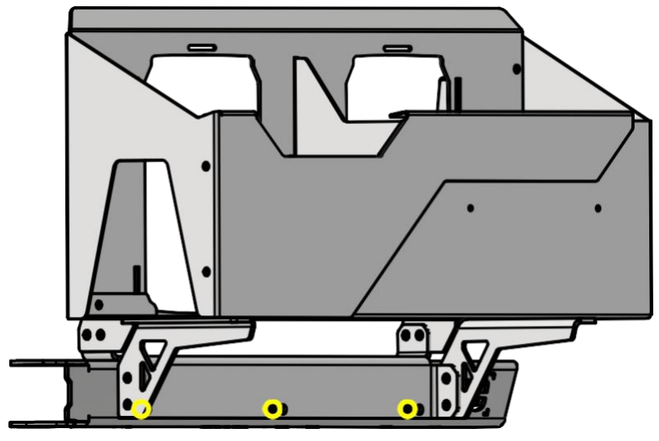
DETAIL B



4. ATTACH ASSEMBLY TO CARRIER ARM



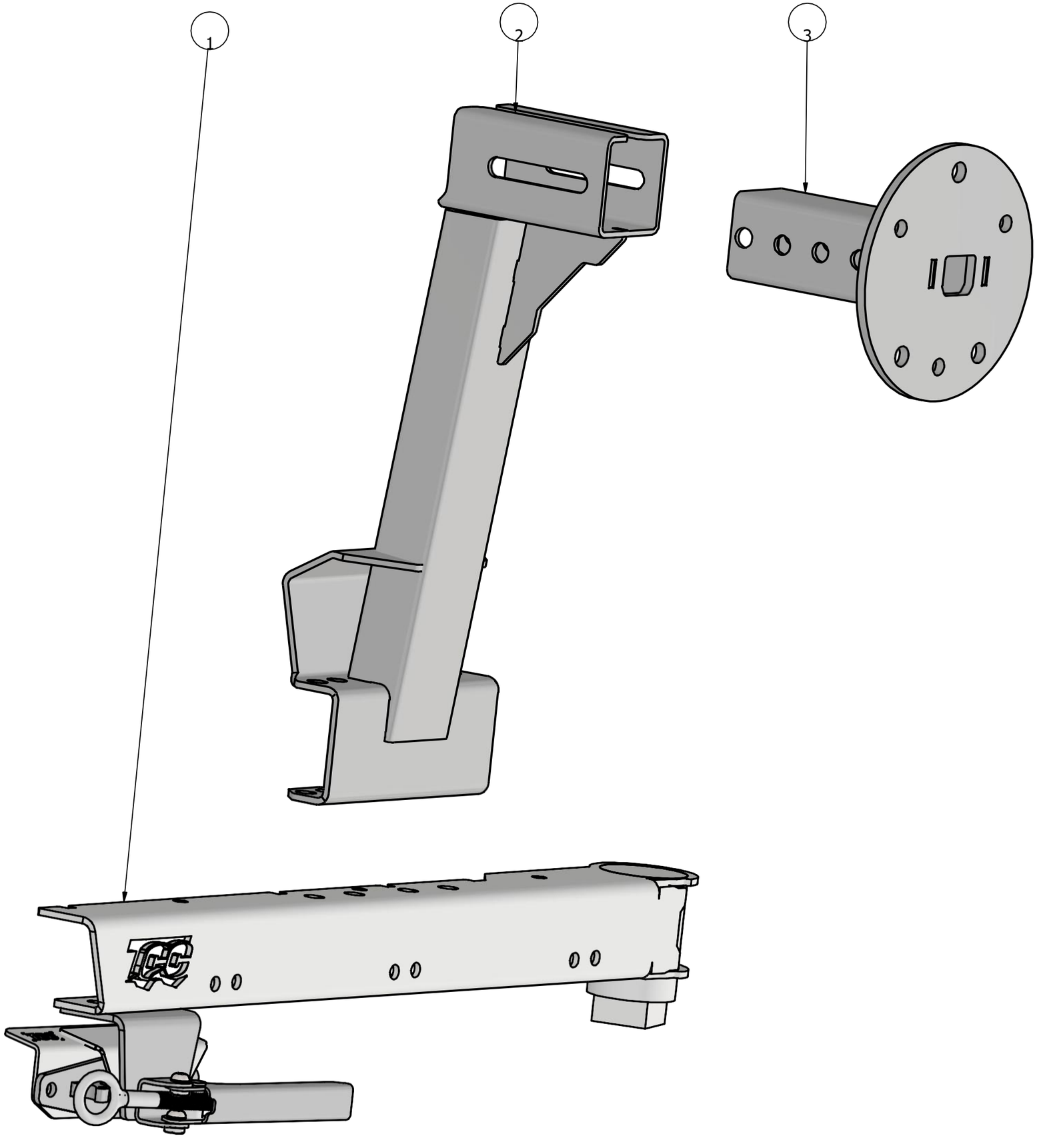




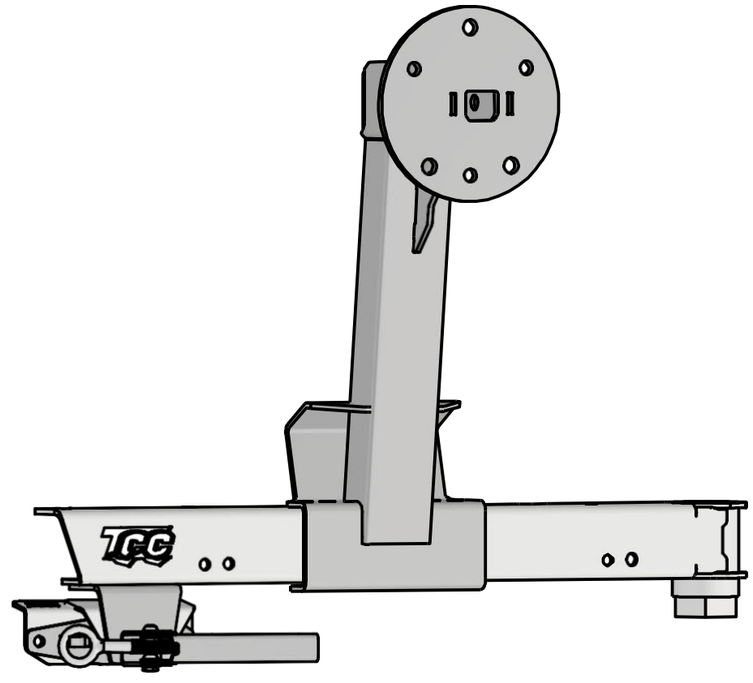
TCC TYRE UPRIGHT & TYRE HEAD

ASSEMBLY INSTRUCTIONS





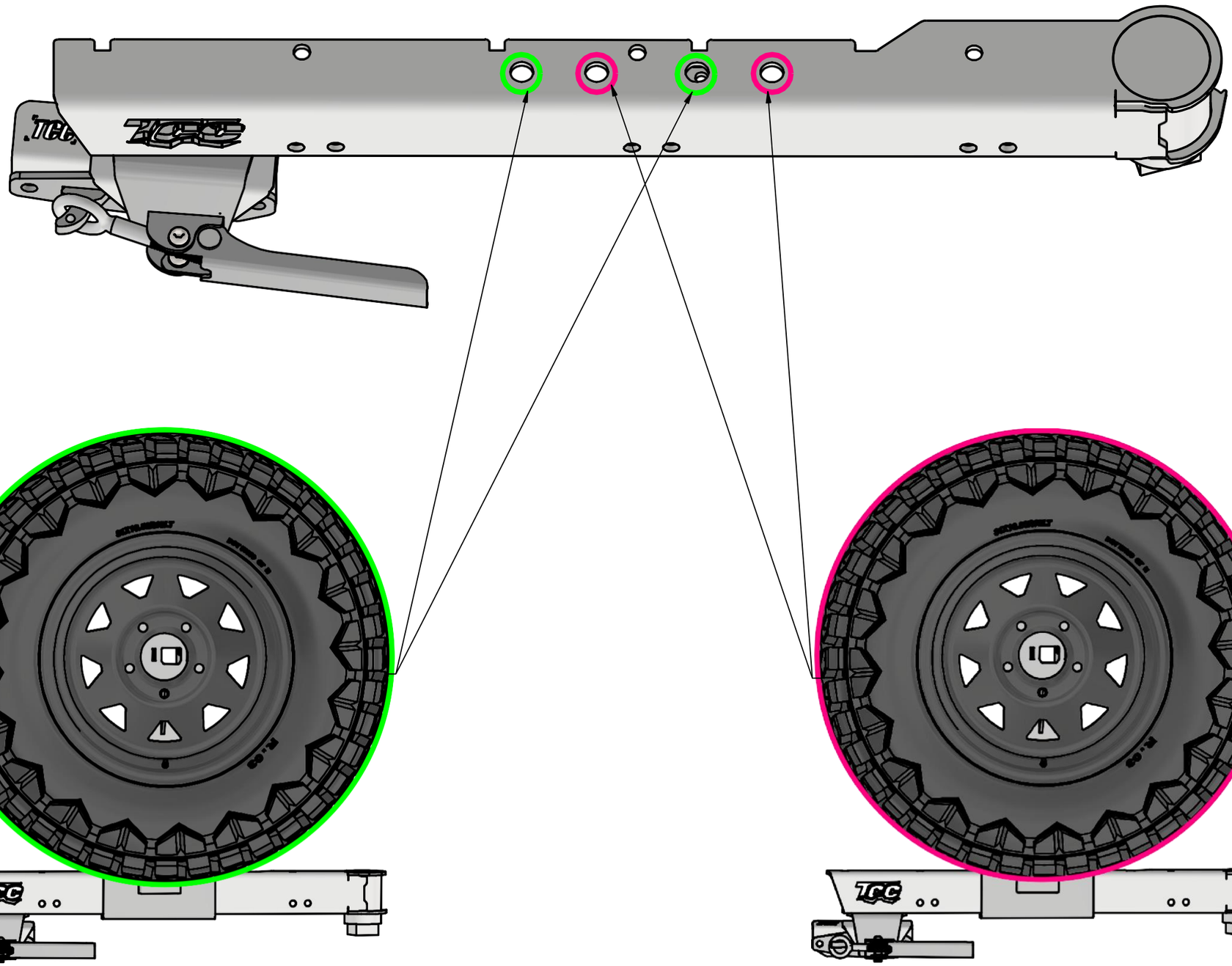
PARTS LIST		
ITEM #	QTY	PART NAME
1	1	TCC CARRIER ARM ASSEMBLY
2	1	TYRE UPRIGHT
3	1	TYRE HEAD



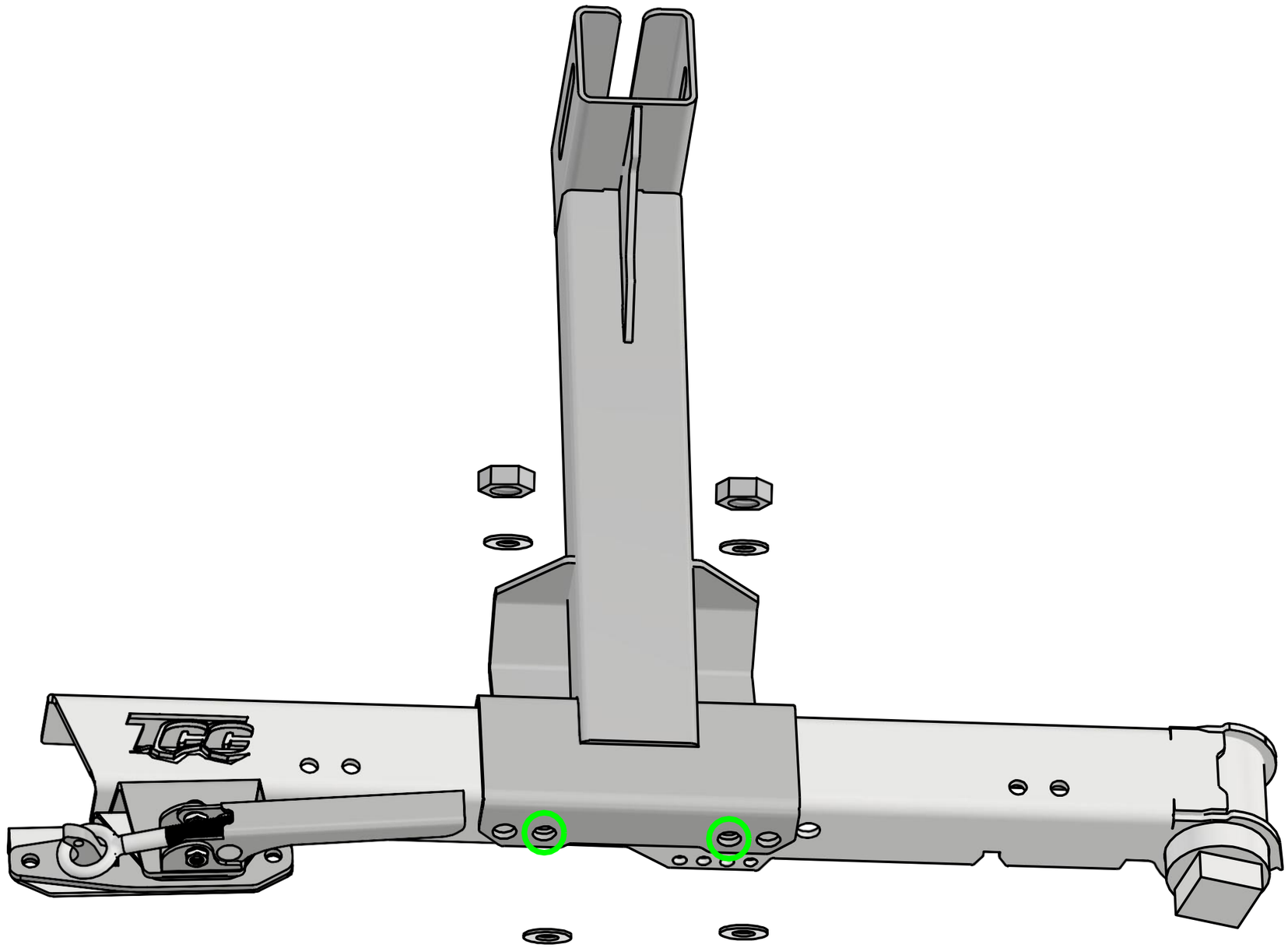
ASSEMBLED VIEW

1. INSTALL THE TYRE UPRIGHT

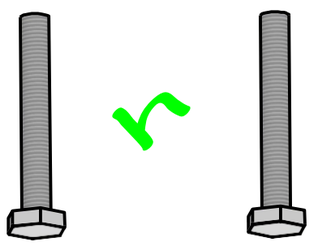
TCC Carrier Arm must be assembled prior to installation



2. INSTALL TYRE UPRIGHT

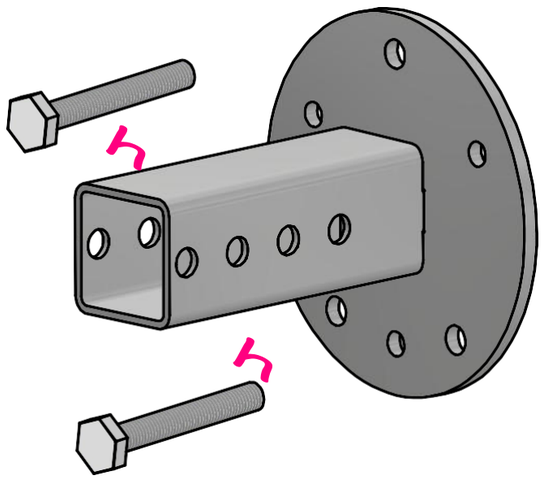


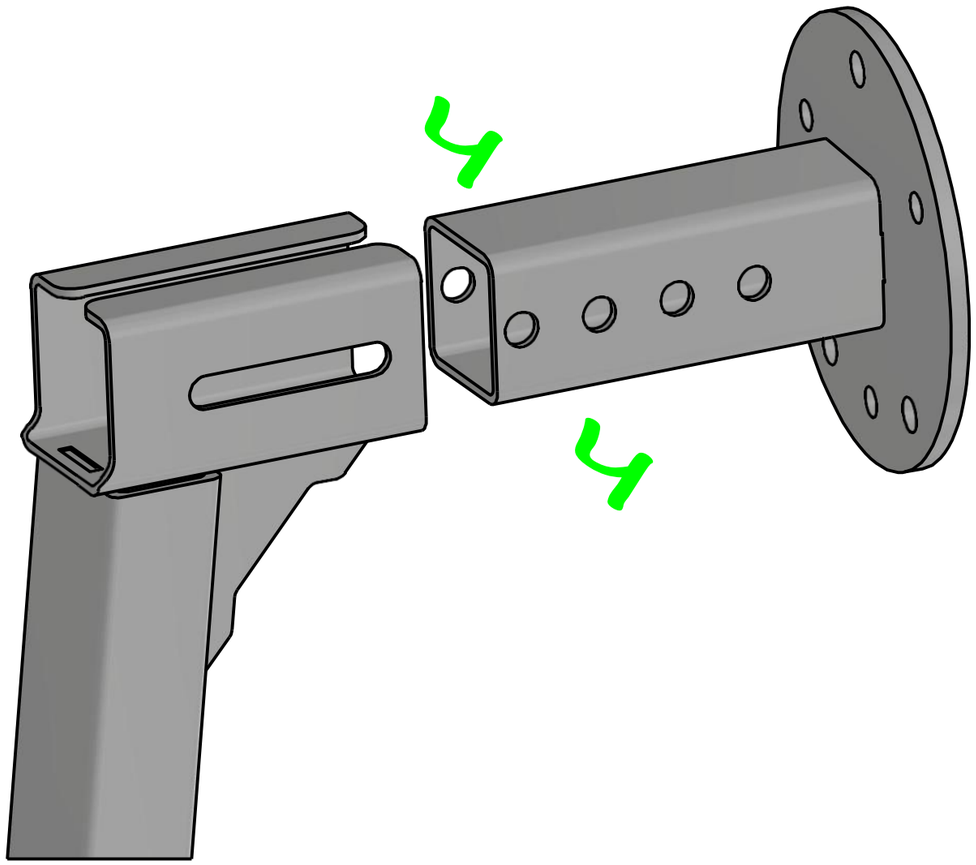
M14 x 110mm
BOLTS M14
WASHERS
M14 NUTS

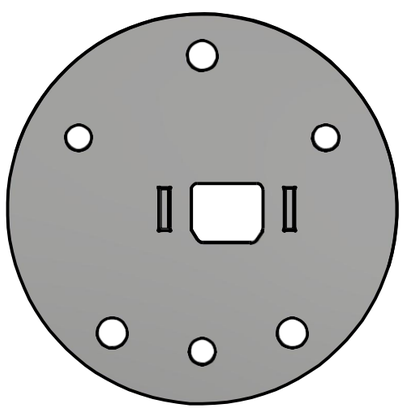


DOUBLE CHECK CLEARANCE TO REAR OF VEHICLE ADJUST BUMP STOP AS REQUIRED

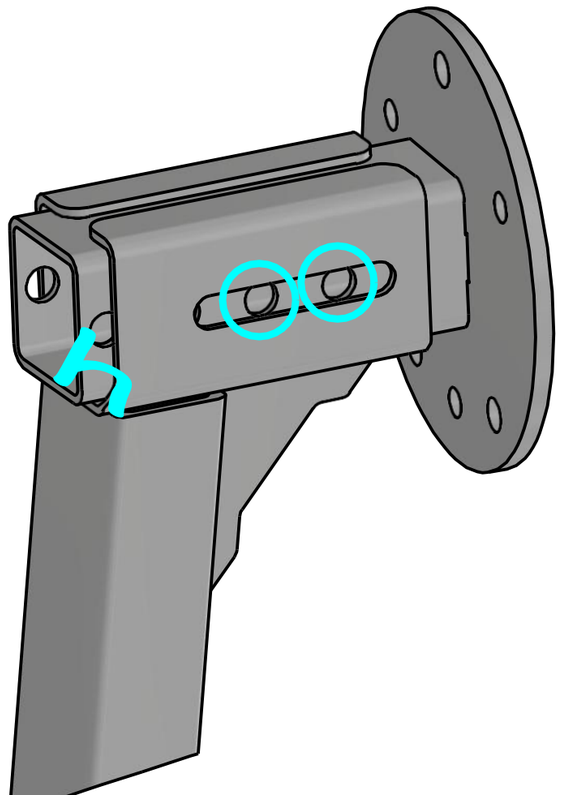
3. MOUNT TYRE HEAD







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

