



FITTING INSTRUCTIONS

Part Number: 4440180 / 4440190 / 4440200
Product 4440180 – S/STEP EVEREST 15ON
Description: 4440190 – F/RAIL EVEREST 15ON
4440200 – RETURN EVEREST 15ON

Suited to FORD EVEREST AMBIENTE, TREND, TITANIUM 2015 ON
vehicle/s:

WARNING

REGARDING VEHICLES EQUIPPED WITH SIDE AIR CURTAINS & SIDE AIRBAGS:

When installed in accordance with these instructions, the Side Step and Side Rail does not affect operation of the Side Air Curtains and Side Airbags.

ALSO, NOTE THE FOLLOWING:

- ◆ This product must be installed exactly as per these instructions using only the hardware supplied.
 - ◆ In the event of damage to any Side Step and Side Rail component, contact your nearest authorised ARB stockist. Repairs or modifications to the impact absorption system must not be attempted.
 - ◆ Do not use this product for any vehicle make or model, other than those specified by ARB.
 - ◆ This product or its fixing must not be modified in any way.
 - ◆ The installation of this product may require the use of specialized tools and/or techniques
 - ◆ It is recommended that this product is only installed by trained personnel
 - ◆ These instructions are correct as at the publication date. ARB Corporation Ltd. cannot be held responsible for the impact of any changes subsequently made by the vehicle manufacturer
 - ◆ During installation, it is the duty of the installer to check correct operation/clearances of all components
 - ◆ Work safely at all times
- Unless otherwise instructed, tighten fasteners to specified torque

ARB 4x4 ACCESSORIES

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GENERAL CARE AND MAINTENANCE

By choosing an ARB Side Step and Side Rail, you have bought a product that is one of the most sought after 4WD products in the world. Your step and rail is a properly engineered, reliable, quality accessory that represents excellent value. To keep your step and rail in original condition it is important to care and maintain it following these recommendations:

- Prior to exposure to the weather your step and rail should be treated to a Carnauba based polish on all exposed surfaces. It is recommended that this is performed on a six monthly basis or following exposure to salt, mud, sand or other contaminants.



As part of any Pre Trip Preparation, or on an annual basis, it is recommended that a thorough visual inspection of the step and rail and surrounding components is carried out, making sure that all bolts are torqued to the correct specification. Also check that nearby wiring and plumbing are free of damage. Replace any components as necessary. This service can be performed by your local authorized ARB Stockist.

FITTING REQUIREMENTS

REQUIRED TOOLS FOR FITMENT OF PRODUCT:

METRIC SOCKET SET	METRIC COMBINATION SPANNER SET
ELECTRIC DRILL Ø 13 MM CAPACITY	Ø 4, 8.5, 12 mm DRILL BITS
PHILLIPS AND FLAT BLADED SCREW DRIVER SET	METRIC MEASURE TAPE
BLACK SILICONE	STEEL RULE 0-300 mm
HAMMER	STEP DRILL UP TO Ø 24mm
CENTRE PUNCH	MARKER PEN
SCISSORS	SMALL FLAT & ROUND FILES
RUST PREVENTIVE PAINT	ALLEN KEY SET
TORQUE WRENCH 9-77Nm	AXLE STANDS (OPTIONAL)

HAVE AVAILABLE THESE SAFETY ITEMS WHEN FITTING PRODUCT:

Protective eyewear		Hearing protection	
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NOTE: 'WARNING' notes in the fitting procedure relate to OHS situations, where to avoid a potentially hazardous situation it is suggested that protective safety gear be worn or a safe work procedure be employed. If these notes and warnings are not heeded, injury may result.

FASTENER TORQUE SETTINGS:

SIZE	Torque Nm	Torque lb/ft
M6	9Nm	7lbft
M8	22Nm	16lbft
M10	44Nm	32lbft
M12 U-BOLTS	44Nm	32lbft
M12	77Nm	57lbft

PARTS LISTING

APPLICATION.	PART NO.	QTY	DESCRIPTION
SIDE STEPS TO VEHICLE	6562729	1	RAIL ASSY S/STEP RH
	6562730	1	RAIL ASSY S/STEP LH
	3194330	6	CAGE PLATE D40 SIDE RAIL (400mm)
	6151305	6	NUT CAGED M12 3.3-4.7
	6151794	2	BOLT 'U' M12 X 1.75 X 160 X 120
	6151360	6	BOLT M12 X 1.75 X 35 Gd 8.8 ZP
	4581007	10	WASHER FLAT 1/2" X 1 1/2" X 4MM ZP
	4581050	6	WASHER SPRING 1/2" X 3/16" X 1/8" ZP
	6151574	4	NUT NYLOC M12 X 1.75 TZP 480
	6500002	2	PLUG RUBBER 60.3 TUBE PLUG
	215637	2	DECAL ARB SIDE RAILS
	4654144L	2	NUT PLT M10x1.5 LH HILUX 15ON
	6151322	2	NUT NYLOC M10 x 1.5 PC8 TZP480
	4581048	2	WASHER SPRING M10 TZP480
	4584373	6	WASHER M10x23x2 HV300 TZP480
	6151638	2	BOLT M10 x 1.5 x 40 PC8.8 TZP480
6151796	2	BOLT M10 x 1.5 x 170 GR8 ZP TRIV	
SIDE RAILS TO VEHICLE	6562668R	1	RAIL ASSY F/RAIL T6 LRG RAD RH
	6562668L	1	RAIL ASSY F/RAIL T6 LRG RAD LH
	6151022	4	BOLT M8X1.25X25 HEX HD ZP GR 8
	4581044	8	WASHER FLAT M8X17X1.6 ZP
	6151032	4	NUT HEX LOCK NYLOC M8 X 1.25
	3194882L	1	TREAD PLATE S-RAIL LH EVEREST
	3194882R	1	TREAD PLATE S-RAIL RH EVEREST
	4581072	16	WASHER FLAT M6 X 1.6 X 20 TZP
	6151128	16	M6 X 1.0 FLANGE NUT ZP
	6151256	16	S/S M6 X 16 BHCS
	6582464	1	CLAMP KIT S/RAIL NG LG RAD
	3789336	1	TEMPLATE S/RAIL CLAMP
	6250024	4	SPACER S/STEP / RETURN LG RAD
SIDE STEP RETURN SECTIONS TO VEHICLE	6562667R	1	RAIL S/STEP CAP T6 LRG RAD RH
	6562667L	1	RAIL S/STEP CAP T6 LRG RAD LH
	4581044	8	WASHER FLAT M8X17X1.6ZP
	6151022	4	BOLT M8X1.25X25 HEX HD ZP GR 8
	6151032	4	NUT HEX LOCK NYLOC M8 X 1.25
	6500002	2	PLUG RUBBER 60.3 TUBE BLANKING
	3194880	2	TREAD PLATE R/RAIL EVEREST
	6151128	16	M6 X 1.0 FLANGE NUT ZP
	6151256	16	S/S M6 X 16 BHCS
	4581072	16	WASHER FLAT M6 X 1.6 X 20 TZP
	6250024	4	SPACER S/STEP / RETURN LG RAD

FITTING PROCEDURE – PREPARATION TO VEHICLE

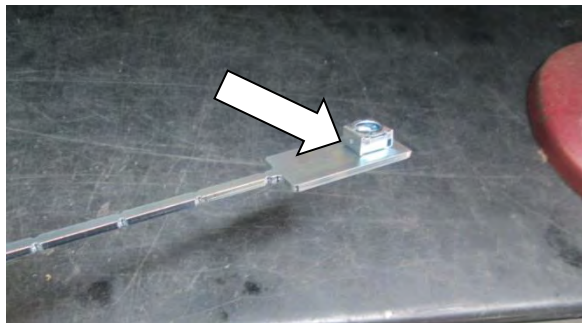


1. If fitted, remove the factory side steps retaining all fasteners.
2. Refit the fasteners into the captive nuts in the vehicles body to seal against water ingress.

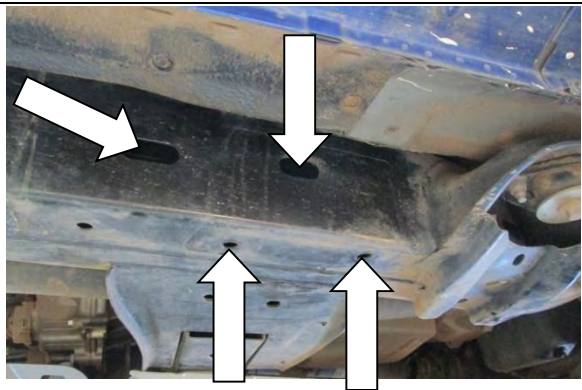
SIDE STEP FITMENT TO VEHICLE



3. Fit the rubber plugs into the rear most ends of the side rails.



4. Place an M12 caged nut into each of the 6 nut plates.



5. Starting on the right hand (RH) side of the vehicle, locate the holes noted by arrows in the picture.

Note: The next steps are to prepare the nut plates so that they are aligned with the appropriate mount holes.



6. Use the large oval slot for access.

SIDE STEP FITMENT TO VEHICLE - CONTINUED



Rearmost Underneath Chassis (above).



Slot on Chassis Side (above).



Frontmost Underneath Chassis (above).

7. Carefully bend the nut plate tails so that you are able to align the cage nuts with the holes in the chassis.

Note: Align the nuts in the following order:

1. Rearmost underneath chassis
2. Slot on the chassis side
3. Forward most underneath chassis

Warning: It is important to only make small adjustments of the nut plate at a time so as not to risk breaking the tail.

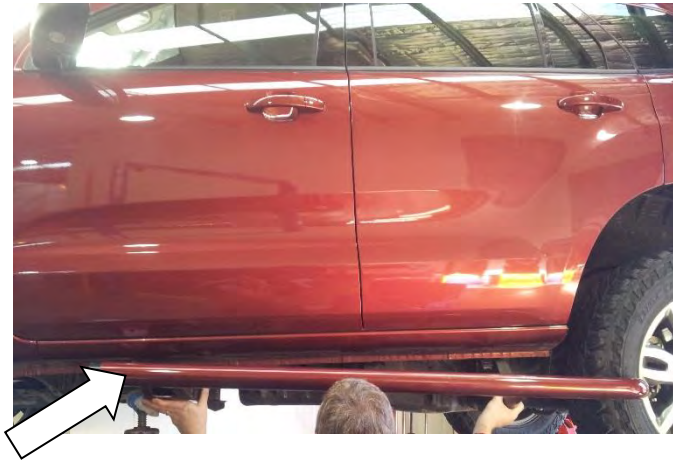
(Images at Left Show Nut Plates Bent for RH Step Installation).

8. Repeat for the left hand side (LH).

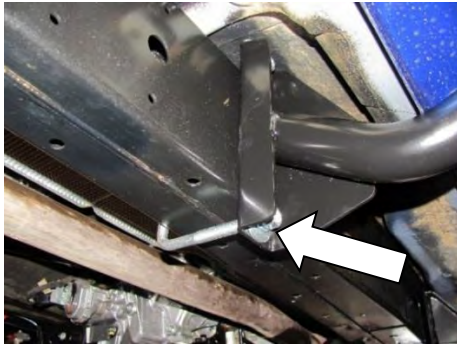
9. Using a flat file remove any high spots from chassis weld at rear mounting position .



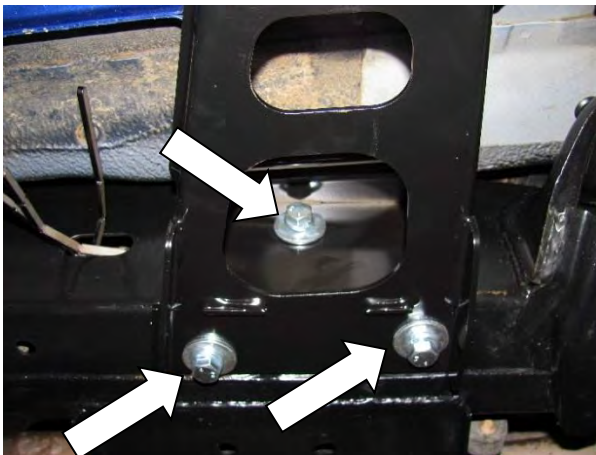
SIDE STEP FITMENT TO VEHICLE - CONTINUED



10. Place the side step against the chassis as shown. Use adjustable axle stand or a second person to hold the steps in place. (LH SIDE SHOWN).





11. Attach the centre of the step to the chassis using a U bolt, M12 Flat Washers and M12 Nyloc Nuts. **Leave loose at this stage.**
12. Attach the rear mount using the second M12 U bolt with flat washers and Nyloc nuts.




13. Attach the front of the rail to the chassis using M12 Bolts, M12 Spring Washers and M12 Flat Washers into the cage nut plates adjusted in the steps above.
14. Adjust the rail so that it is level with the vehicle and tighten **all** fasteners to specified torque settings.

Torque to specification.

 M10 44Nm (BOLTS)

 M12 77Nm (BOLTS)

 M12 44Nm ("U" BOLTS)

SIDE STEP FITMENT TO VEHICLE - CONTINUED



15. On the LH side fit the front mount between the floor and chassis rail first.
16. Offer the rail to the chassis with the rear of tube almost against the rear tyre while lifting the front mount into the gap between floor and chassis rail as shown

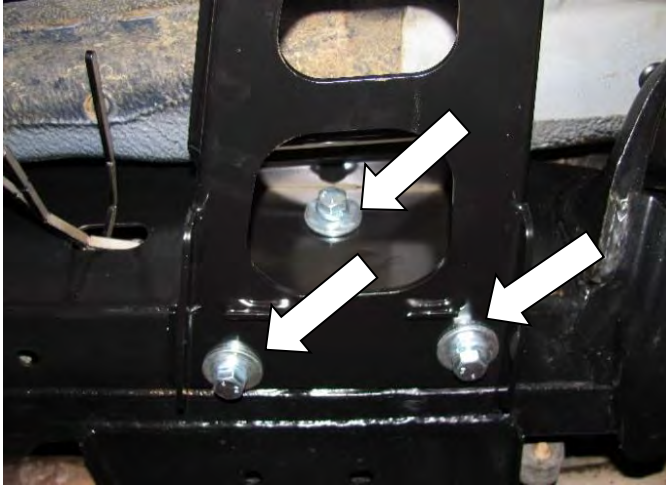


17. Lift and manoeuvre the centre mount top flange onto the top of chassis



18. Once the step mounts are on the chassis slide the rail forward into position.

SIDE STEP FITMENT TO VEHICLE - CONTINUED



19. The front mount bolts on the L/H side are the same procedure as R/H assembly. **Leave loose at this stage.**



20. The L/H central mount requires 4654144L M10 Nut plate, M10 x 40 Bolt, Spring and Flat Washer. Insert Nut plate from the bottom 25mm hole in mount plate.
(In formed position as shown)



21. Feed the nut plate through the bottom hole as shown and capture with M10 x 40 Bolt. **Leave loose at this stage.**

SIDE STEP FITMENT TO VEHICLE - CONTINUED



22. Install flat washer on M10 x 170 bolt and insert through the bottom slotted hole into the chassis and out the top slotted hole. Fit M10 Flat washer and M10 nyloc nut.
Leave loose at this stage.



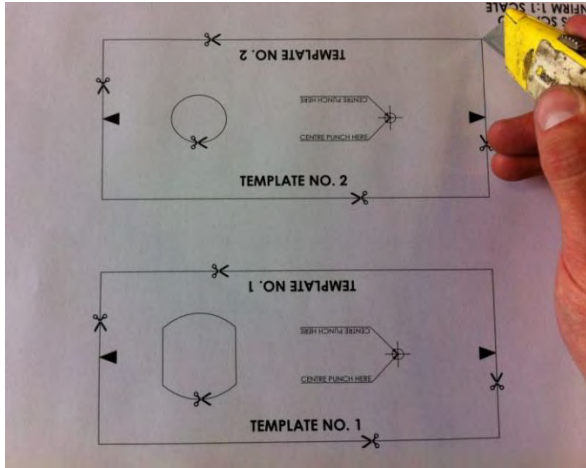
23. L/H rear mount requires 4654144L M10 Nut plate, M10 x 40 Bolt, Spring and Flat Washer. Insert Nut plate from the bottom 25mm hole in mount plate.

(In formed position as shown)



24. Feed the nut plate through the rear hole as shown and capture with M10 x 40 Bolt.
Leave loose at this stage.

FRONT SIDE RAIL FITMENT TO VEHICLE (4440190)

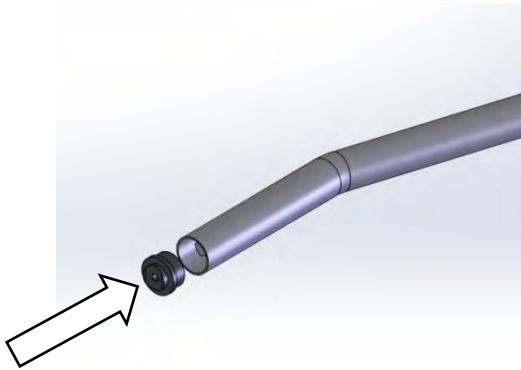


1. Using Scissors or a Stanley Knife carefully cut out Templates 1 and 2 including the 2 x pieces from the inside – (See image).



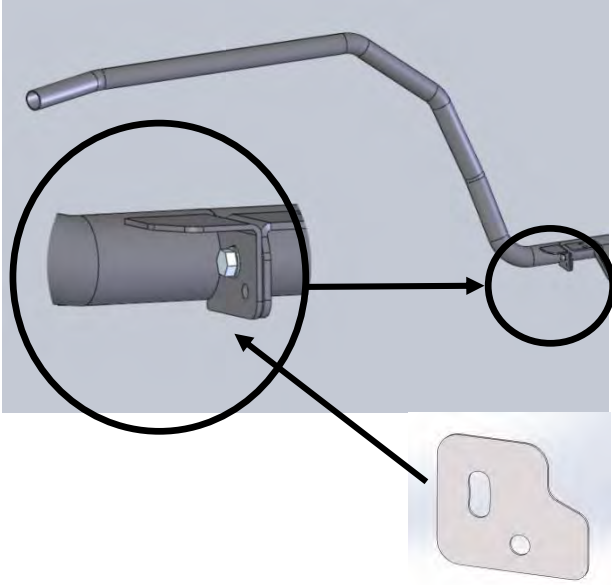
2. Use masking tape to wrap **1 x layer only** of tape around the Bull Bar Outer Frame to protect it from damage. Ensure masking tape is applied flat and without creases.

WARNING: If more than 1 x layer of masking tape is applied and/or creases are present it will affect the use of the drilling templates and could result in the Bull Bar being incorrectly drilled and not serviceable.



3. Install Tube Spigot into the front of the Side Rail – Install without spacers fitted.

FRONT SIDE RAIL FITMENT TO VEHICLE - CONTINUED



- On the RH side, place the Front Side Rail assembly onto the end of the Side Step Rear section as shown and attach using an M8X20 Bolt, 2 x M8 Flat Washers and an M8 Nyloc Nut.

Note: Up to 3 x 6250024 - SPACER S/STEP / RETURN LG RAD may be installed between Side Step and Side Rail Brackets to obtain better fitment.

Note: Do not fully tighten at this stage.



- Hold Side Rail so that when viewed from the side of the vehicle the top tube is horizontal (**parallel to the ground**) and the Side Rail sits as desired against the side of the vehicle.

- Offer Side Rail/Tube Spigot up to the back of the Bull Bar outer frame. – If a gap exists slide Tube Spigot forwards until it contacts the Bull Bar outer frame.



- Set distance from top face of the bull bar wing to bottom of rail to 80mm +/- 2mm for correct set up.



- Assess the gap between the front end of the Side Rail and the Tube Spigot. Select the closest matching Spacer/Spacers to fill the gap. (Spacer options: Nil / 5mm / 10mm or 15mm (5mm + 10mm Spacers).

- Note:** If the gap is too large for the Spacers to fill or too small (ie. the tube spigot cannot be fitted) adjustment of the Bull Bar and/or Side Step may be required.

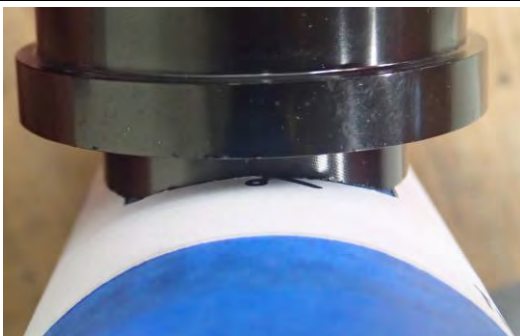
FRONT SIDE RAIL FITMENT TO VEHICLE - CONTINUED



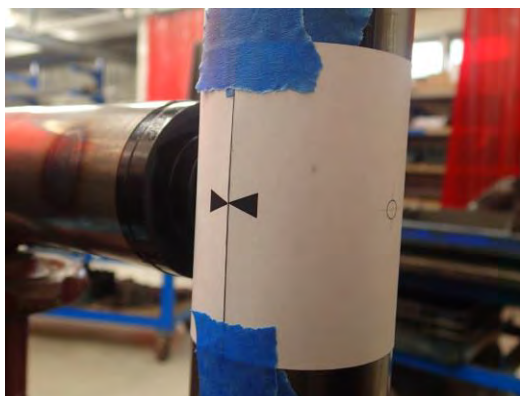
9. Swing the Side Rail outwards and away from the vehicle allowing installation of appropriate/selected spacer into gap between the front end of the Side Rail and the Tube Spigot. (5mm in this instance).



10. Swing the Side Rail inwards and install "TEMPLATE 1" between the end of the Tube Spigot and the Bull Bar outer frame.



11. Carefully align and centre "TEMPLATE 1" with the end of the Tube Spigot and wrap around the Outer Frame Tube.
 - **Note: Ensure the indicator arrows are aligned before taping into position with Masking Tape – (AS SHOWN).**

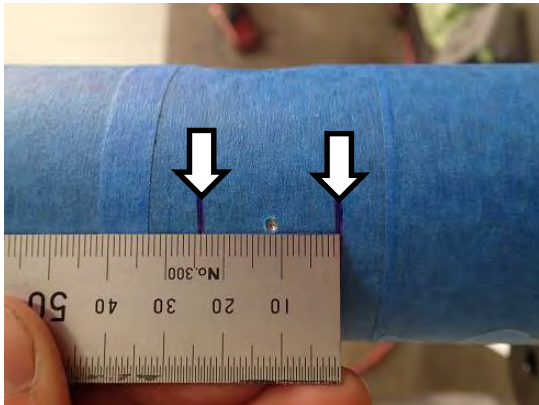


FRONT SIDE RAIL FITMENT TO VEHICLE - CONTINUED



12. Using a Centre Punch, carefully Centre Punch the outer frame at the centre mark of "TEMPLATE 1".
13. Remove Side Rail and set aside.
14. Remove "TEMPLATE 1".

Note: Do not discard. Template will be re-used for the opposite side clamp installation.

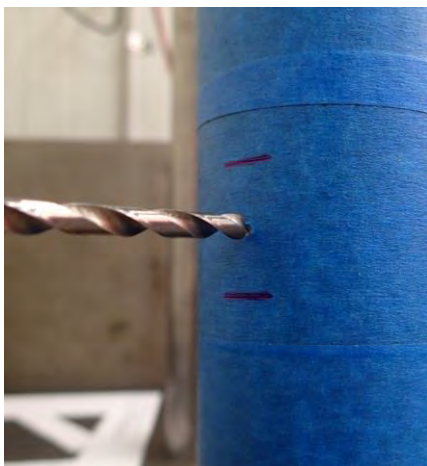


15. Using a marker pen, mark the outer frame 12mm above and below the Centre Punch mark (12mm + 12mm = 24mm).
 - **Note: These marks on the outer frame give an indication of how far to drill with the Stepped Drill.**



16. Using a marker pen, mark the Ø24mm step on the Stepped Drill.

-Note: These marks on the Stepped Drill give an indication of how far to drill to achieve the correct diameter hole in the outer frame.



17. At the location of the Centre Punch mark, use an Ø4mm (or similarly sized) Drill Bit to drill a pilot hole through the front face of the Bull Bar outer frame.



Warning: Drilling operations can result in flying metal debris, safety glasses should be worn.

FRONT SIDE RAIL FITMENT TO VEHICLE - CONTINUED



18. Use a Stepped Drill Bit to drill the $\text{\O}4\text{mm}$ pilot hole out to $\text{\O}24\text{mm}$.

WARNING - Do not drill past the 24mm marks on the outer frame or the $\text{\O}24\text{mm}$ mark on the Stepped Drill - Drilling too far will destroy the Bull Bar.



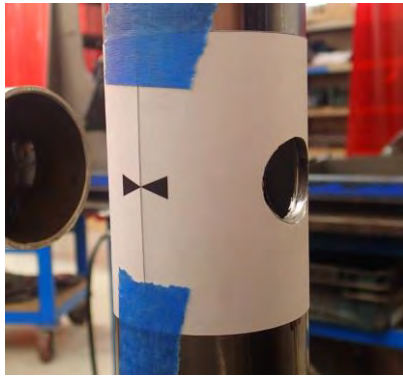
Warning: Drilling operations can result in flying metal debris, safety glasses should be worn.



19. Using a small Round or Half-Round File carefully remove any burrs from the edge of the $\text{\O}24\text{mm}$ hole.

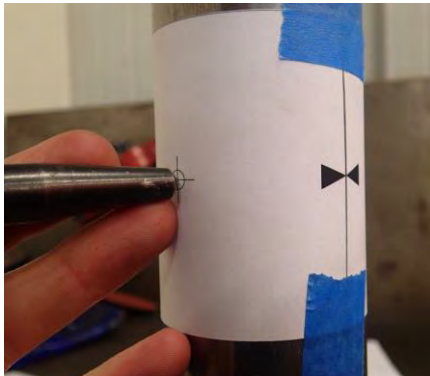
-Note: Care should be taken to avoid damaging the outer frame paintwork surrounding the $\text{\O}24\text{mm}$ hole.

FRONT SIDE RAIL FITMENT TO VEHICLE - CONTINUED



20. Carefully align "TEMPLATE 2" and centre over the Ø24mm hole. Wrap around the Outer Frame Tube.

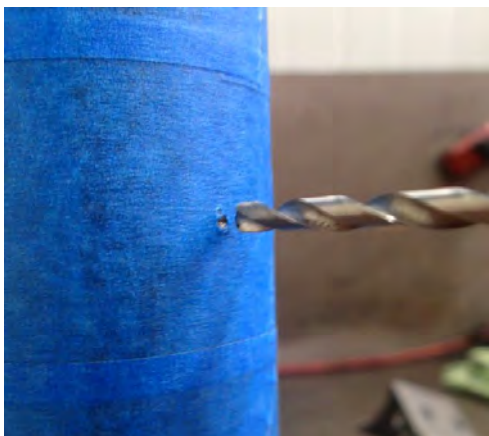
- **Note: Ensure the indicator arrows are aligned before taping into position with Masking Tape – (AS SHOWN).**



21. Using a Centre Punch, carefully Centre Punch the outer frame at the centre mark of "TEMPLATE 2".

22. Remove "TEMPLATE 2".

- Note: Do not discard.** Template will be re-used for the opposite side clamp installation.



23. At the location of the Centre Punch mark, use an Ø4mm (or similarly sized) Drill Bit to drill a pilot hole through the front face of the Bull Bar outer frame.

24. Use an Ø12mm Drill Bit to drill the Ø4mm pilot hole out to Ø12mm.



Warning: Drilling operations can result in flying metal debris, safety glasses should be worn.

FRONT SIDE RAIL FITMENT TO VEHICLE - CONTINUED



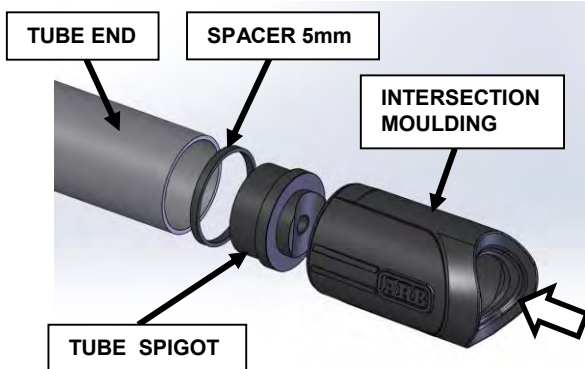
25. Using a small Flat or Half-Round File carefully remove any burrs from the edge of the Ø12mm hole.

- **Note: Care should be taken to avoid damaging the outer frame paintwork surrounding the Ø12mm hole.**

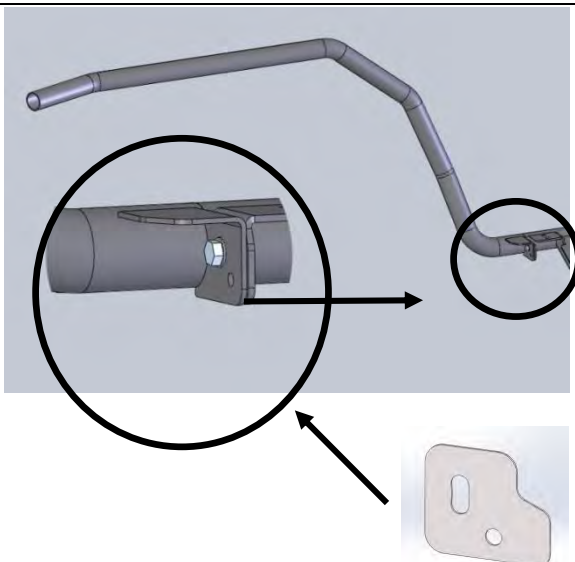


26. Clean and paint with Rust Preventative Paint any exposed/bare metal surfaces left after drilling.

- **Note: Use tape/paper to mask surrounding areas to avoid getting paint overspray in undesired locations.**



27. Install Tube Spigot, selected Spacer/Spacers and Intersection Moulding into place on the Side Rail.



28. Install Side Rail (with clamp components fitted) onto Side Step spigot and attach using an M8X20 Bolt, 2 x M8 Flat Washers and an M8 Nyloc Nut.

Note: Up to 3 x 6250024 - SPACER S/STEP / RETURN LG RAD may be installed between Side Step and Side Rail Brackets to obtain better fitment.

Note: Do not fully tighten at this stage.

FRONT SIDE RAIL FITMENT TO VEHICLE - CONTINUED

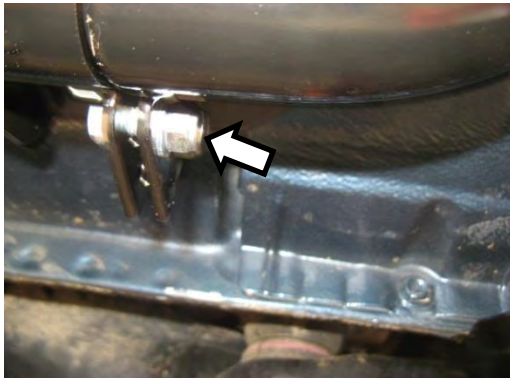


29. Install Submerged Bush and M10 Bolt.

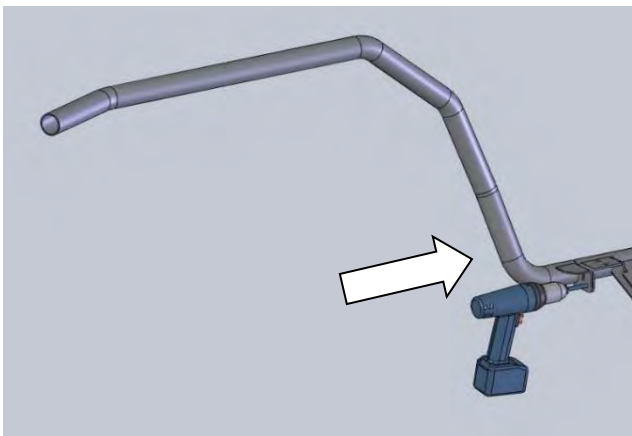
Torque to Specification.



M10 57Nm **(CRITICAL)**.



30. Tighten M8 Bolt ensure the slot and holes in the 6250024- SPACER S/STEP / RETURN LG RAD are aligned with the holes in the Step / Side Rail Brackets.



31. Using an electric drill with an Ø8mm drill bit and the pre-cut hole in the front side rail as a guide, drill through the rear section.

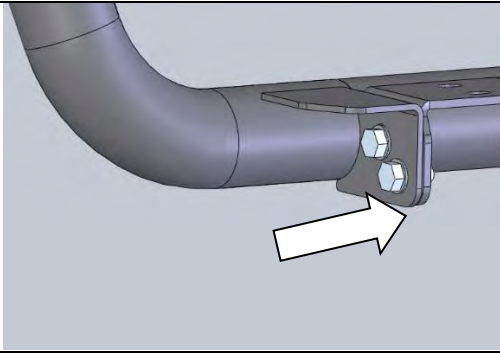
NOTE: IT MAY BE NECESSARY TO TEMPORARILY REMOVE THE MUD FLAPS TO GAIN ACCESS WITH THE DRILL.

32. Apply paint or a rust preventative to the bare metal.



Warning: Drilling operations can result in flying metal debris, safety glasses should be worn.

FRONT SIDE RAIL FITMENT TO VEHICLE - CONTINUED

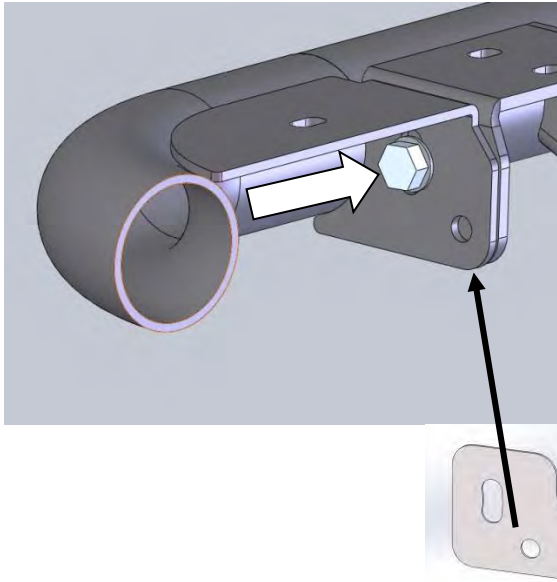


33. Pin the front side rail to the rear section using an M8X20 Bolt, 2 x M8 Flat Washers and an M8 Nyloc Nut.

Torque to Specification.



SIDE STEP RETURN FITMENT TO VEHICLE.(4440200)



FITTING CURVED END SECTIONS

34. On the RH side fit the curved end section onto the side rail as shown and attach using an M8X20 Bolt, 2 x M8 Flat Washers and an M8 Nyloc Nut.

Note: Up to 3 x 6250024 - SPACER S/STEP / RETURN LG RAD may be installed between Side Step and Side Rail Brackets to obtain better fitment.

35. Ensure the top faces of the curved section and the side rail are parallel and tighten the fasteners.

Torque to Specification.

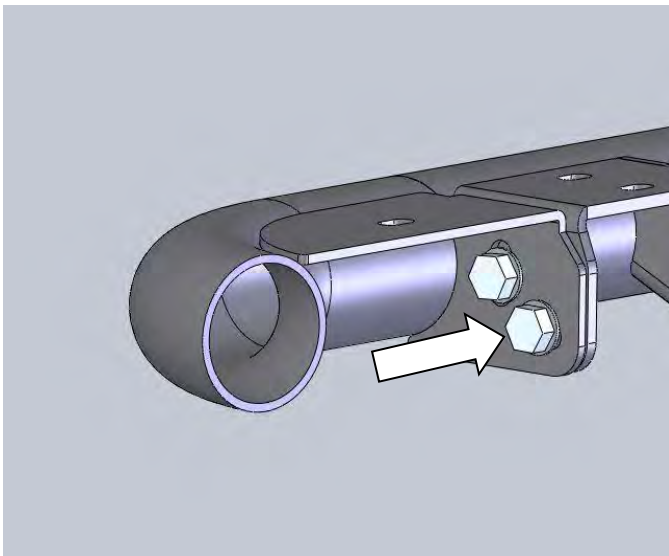


36. Using an electric drill with an Ø8mm drill bit and the pre-cut hole in the curved end section as a guide, drill through the rear section.

NOTE: IT MAY BE NECESSARY TO TEMPORARILY REMOVE THE MUD FLAPS TO GAIN ACCESS WITH THE DRILL.



Warning: Drilling operations can result in flying metal debris, safety glasses should be worn.

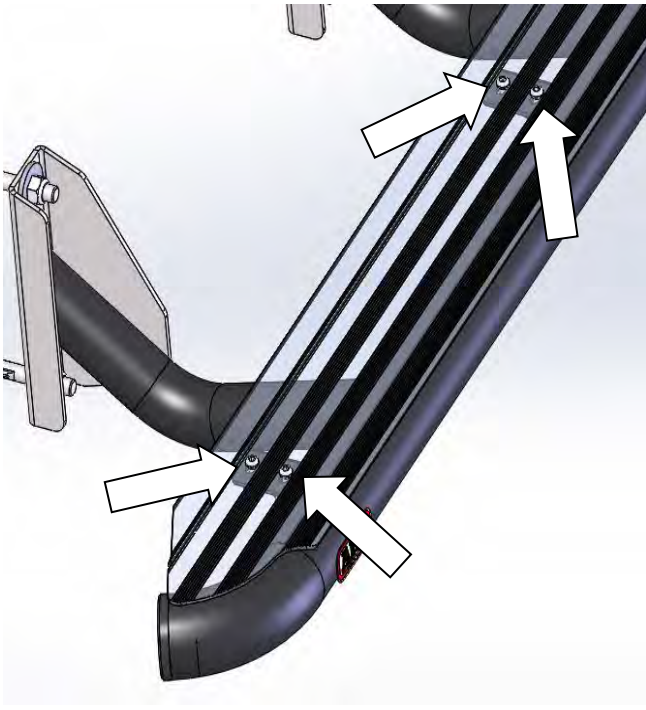


37. Apply paint or a rust preventative to the bare metal.
38. Pin the curved end section to the rear section using an M8X20 Bolt, 2 x M8 Flat Washers and an M8 Nyloc Nut.

Torque to Specification.



FRONT SIDE RAIL & SIDE STEP RETURN FITMENT TO VEHICLE



THE FOLLOWING STEPS APPLY TO BOTH SIDE RAIL AND FRONT SECTION FITMENT

39. Run a bead of silicon along the top of the rail where the Tread Plate will sit. (This will help prevent vibration).
40. Position the Tread Plate on the step, aligning the bolt holes with the corresponding holes in the side step. Starting at the front of the step, secure the checker top with S/Steel M6X16 Button Head Bolts, M6 Flat Washers and M6 Flange Nuts.

Note: Over tightening of bolts may result in damage to the Tread Plates.

Torque to Specification.



M6 5Nm – (CRITICAL)

41. Apply the supplied ARB decals here on both the RH and LH sides of the vehicle.



FITTED PRODUCT

