

MAXIMUM PRODUCT LOAD RATING: 100 kg 

IMPORTANT:

- **LOAD = WEIGHT OF PLATFORM or BARS + MOUNTING SYSTEM + ACCESSORIES + CARGO**
- **PLEASE REFER TO VEHICLE MANUFACTURER SPECIFICATIONS FOR MAX ROOF LOAD CAPACITY OF VEHICLE. THE LOWEST LOAD RATING APPLIES.**
- **OFFROAD RATING: SCAN QR CODE FOR LOCKNLOAD LOAD RATING GUIDE. REDUCTIONS MAY APPLY.**



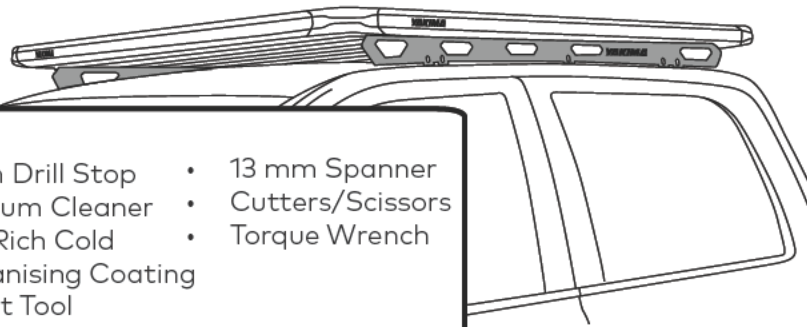
FIRST TIME INSTALLATION

- Please read instructions carefully before installation.
- Check the contents of kit. Each spine has the last four digits of the kit's part number lasered in. Contact your YAKIMA dealer if any parts appear missing, incorrect or damaged.
- Clean your roof thoroughly prior to fitting the LockNLoad RuggedLine.
- Place these instructions in the vehicle's glove box after installation is complete.



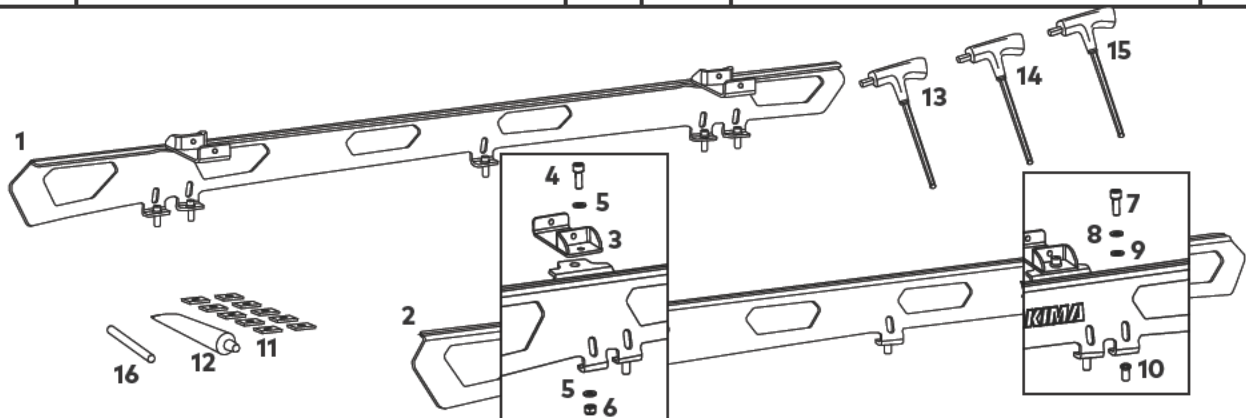
TOOLS REQUIRED:

- Plastic Scraper Tool
- Measuring Tape
- Marking Pen
- Power or Cordless Drill
- 3 & 9 mm Drill Bit
- 5 mm Drill Stop
- Vacuum Cleaner
- Zinc Rich Cold Galvanising Coating
- Rivnut Tool
- 13 mm Spanner
- Cutters/Scissors
- Torque Wrench



KIT CONTENTS

ITEM	COMPONENT	QTY	ITEM	COMPONENT	QTY
1.	RAM 1500 RH 2112	x1	9.	M6 Washer	x8
2.	RAM 1500 LH 2112	x1	10.	M6 Rivnut	x10
3.	Pivot Bracket Assembly	x4	11.	Foam Adhesive	x10
4.	M8 Socket Head Capscrew 20 mm	x4	12.	Silicone Sealant	x1
5.	M8 Washer	x8	13.	4 mm T Handle Ball End Allen Key	x1
6.	M8 Nyloc Nut	x4	14.	5 mm T Handle Ball End Allen Key	x1
7.	M6 Socket Head Capscrew 20 mm	x10	15.	6 mm T Handle Ball End Allen Key	x1
8.	M6 Spring Washer	x10	16.	9 mm Drill Bit	x1



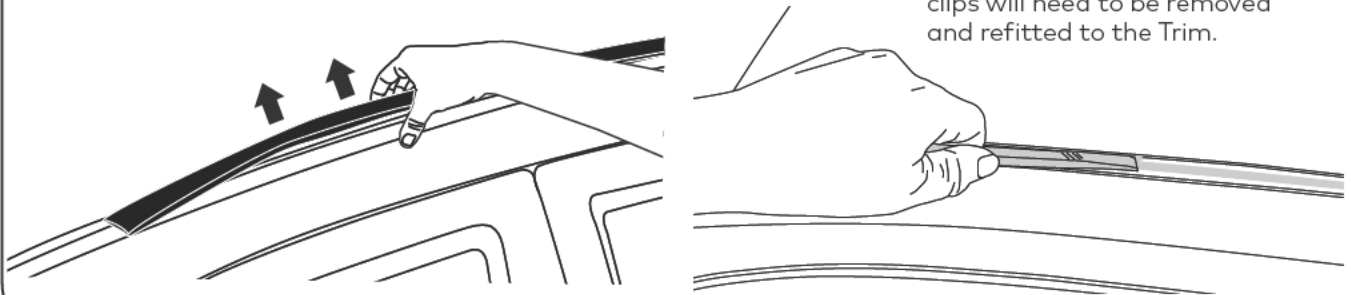
REMOVING ROOF TRIM AND DRILLING ROOF CHANNEL

1 CAREFULLY REMOVE THE METAL BACKED TRIM FROM THE ROOF

Carefully remove the plastic clips from the vehicle and refit the trim.

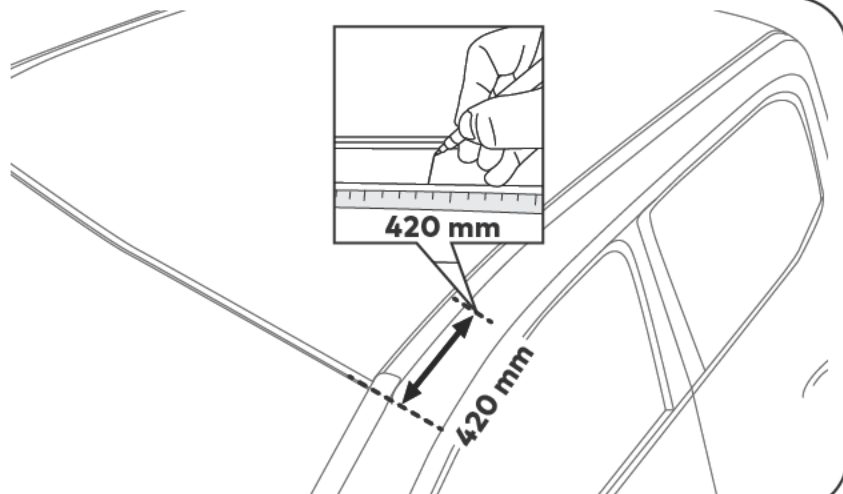
Store channel trim in a safe location for use in Step 8, page 7.

Note - When the trim strip is removed, the plastic clips remain on the vehicle. The plastic clips will need to be removed and refitted to the Trim.



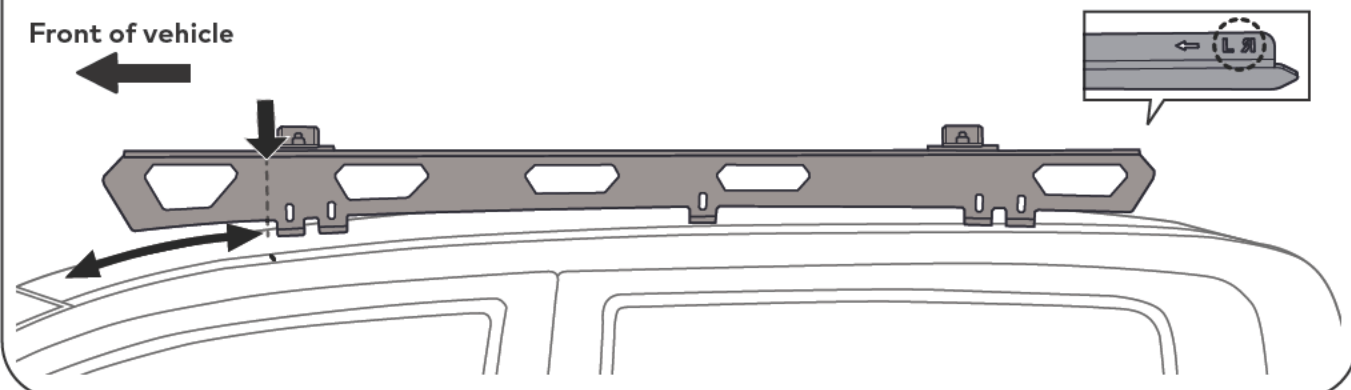
2 MEASURE AND MARK ROOF CHANNEL

Using a Measuring Tape, measure 420 mm back from the start of the windscreen and mark measurement on roof channel with a Marking Pen as shown.



3 POSITION RUGGEDLINE ON ROOF CHANNEL

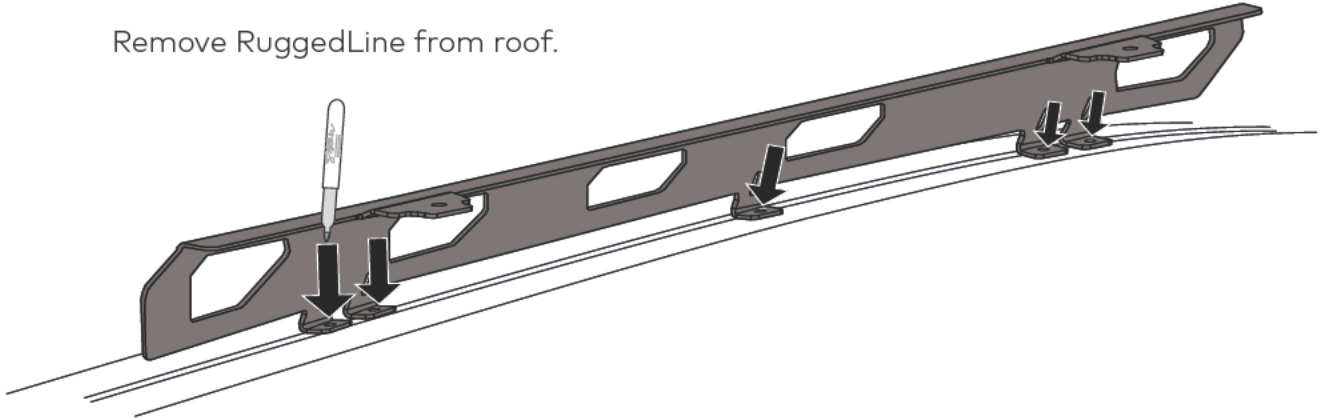
Referring to the left-right orientation on top of each Spine, carefully place the side of the RuggedLine that matches the side of the vehicle with the marked measurement onto vehicle roof channel, lining up the front facing edge of the first tab to the 420 mm measurement as shown.



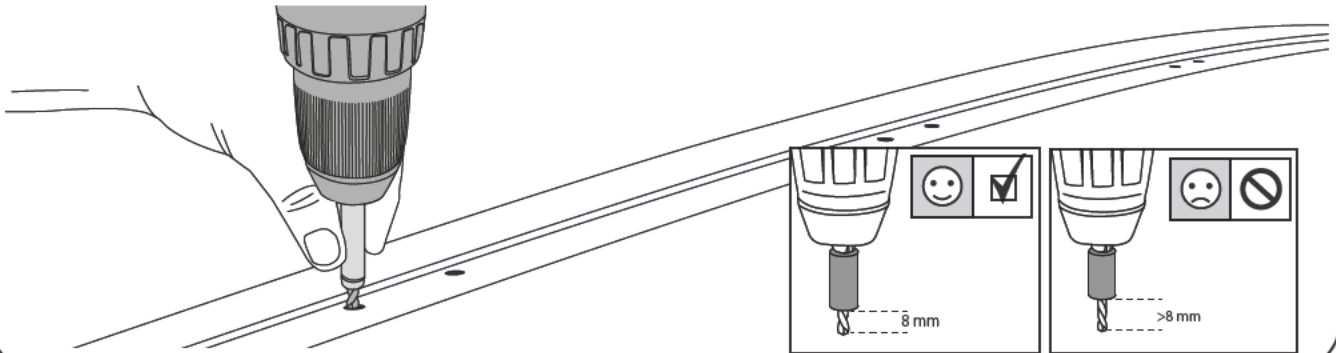
4**MARK DRILL HOLES ON ROOF CHANNEL**

With the help of a friend, securely hold RuggedLine Spine in place and mark all drill holes through the tabs on spine into the roof channel with a Marking Pen.

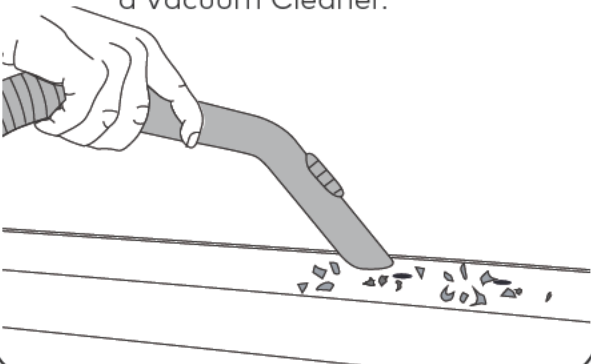
Remove RuggedLine from roof.

**5****DRILL MARKED HOLES**

Using a 5 mm Drill Stop and 3 mm Drill Bit (not supplied), drill pilot holes at the marked locations, then open out holes using a 5 mm Drill Stop and 9 mm Drill Bit (supplied) to drill through the vehicle roof.

**6****REMOVE SWARF**

Avoid pushing swarf into the newly drilled holes by removing swarf from roof channel with a Vacuum Cleaner.

**7****APPLY GALVANISING SOLUTION**

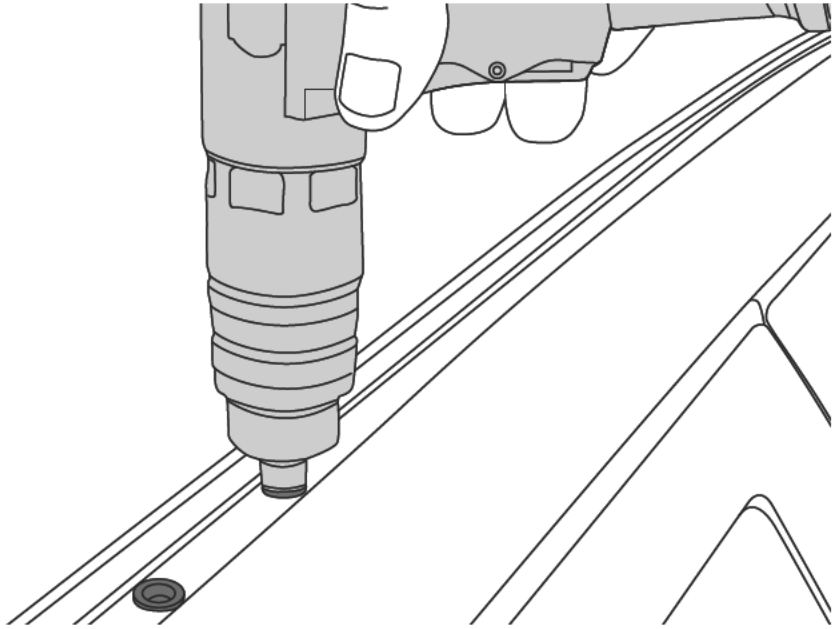
Liberaly apply a Zinc Rich Cold Galvanising Solution to the inside surface and surrounds of each hole. Allow solution to become touch dry (approx. 10 min depending on product used).



Apply liberally in and around holes

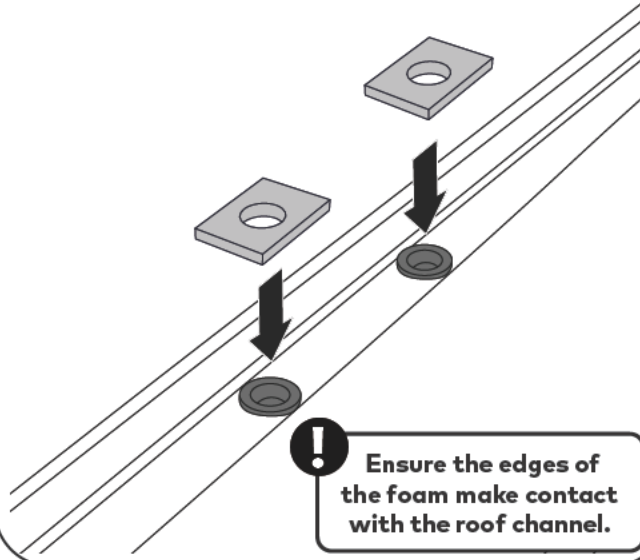
8**INSTALL RIVNUTS**

Install the Rivnuts into each of the drilled holes using a Rivnut Tool.

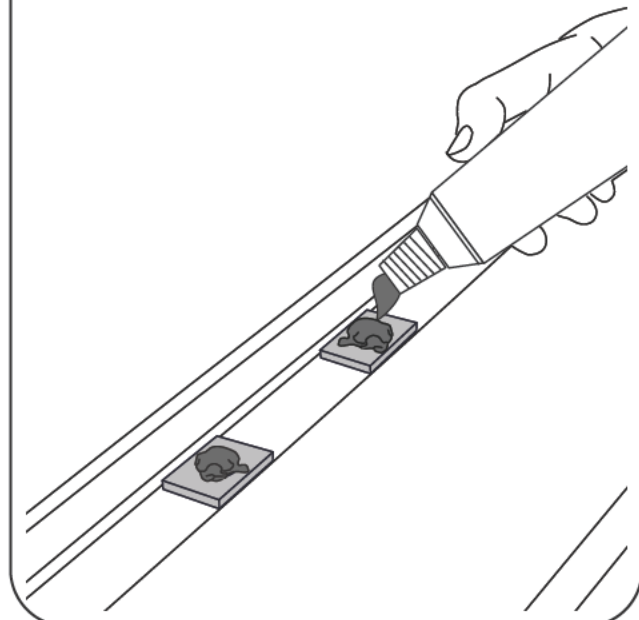
**9****AFFIX FOAM ADHESIVE**

Carefully apply Foam Adhesive over all the Rivnuts in roof channel, lining up holes in foam with the holes in roof channel.

Apply with adhesive side to vehicle.

**10****APPLY Silicone Sealant**

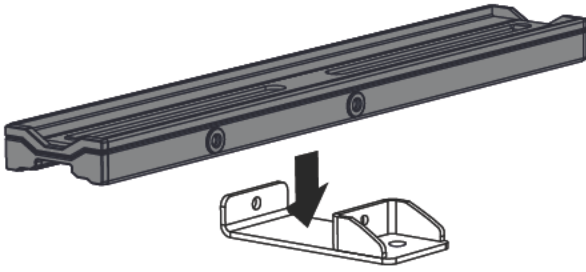
Liberal apply the supplied Silicone Sealant to the inside surface and on top of all holes **on one side of vehicle.**



MOUNTING RUGGEDLINE AND LOCKNLOAD PLATFORM

1 INSTALL PLATFORM PIVOT MOUNTS

From the LockNLoad Platform kit (sold separately), position Pivot Mounts into each Pivot Bracket Assembly, lining up the rivnut holes on the Mounts with the holes on the brackets.

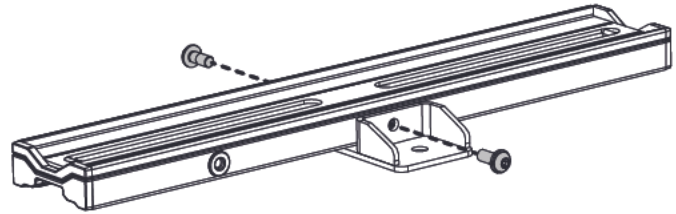


! Where possible, always use the centre holes for attaching to Pivot Bracket. If extra clearance is needed due to Platform-to-roof fitment needs, the offset holes can be used.

2 SECURE PLATFORM PIVOT MOUNTS

Secure all Platform Pivot Mounts with 2x 16 mm M6 Capscrews with Washer from LockNLoad Platform kit as shown.

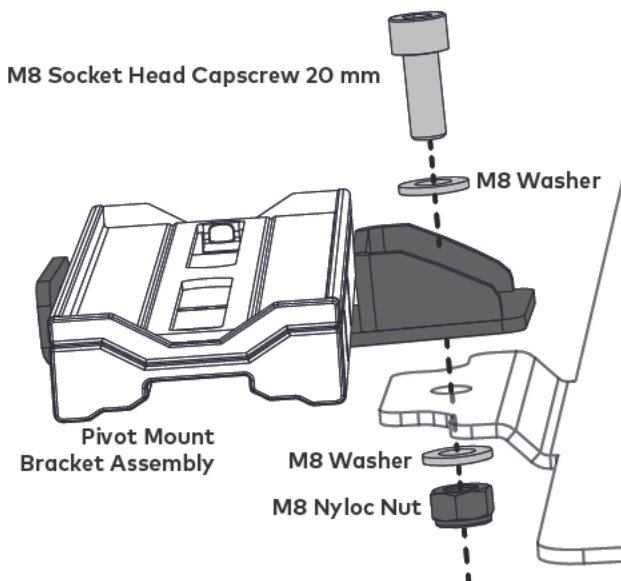
Tighten all Capscrews to 4 Nm with the provided 4 mm Ball End Allen Key or a suitable Torque Wrench.



NOTE - The Pivot Mount assembly will still have movement after securing which is intended.

3 ASSEMBLE PIVOT BRACKET TO RUGGEDLINE

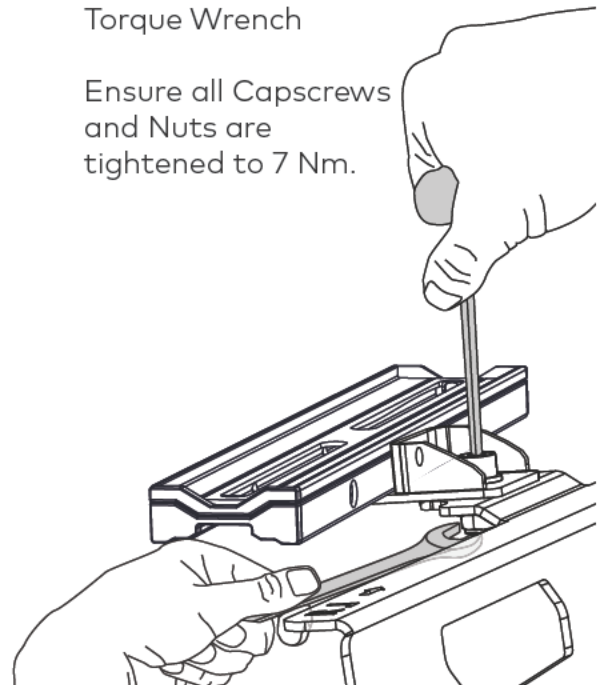
Assemble Pivot Bracket and M8 hardware as pictured. Complete this for both tabs on top of the RuggedLine Spine.



4 SECURE PIVOT BRACKET ASSEMBLIES

Tighten all Capscrews with the provided 6 mm T Handle Ball End Allen Key, and all Nuts with a 13 mm Spanner or a suitable Torque Wrench

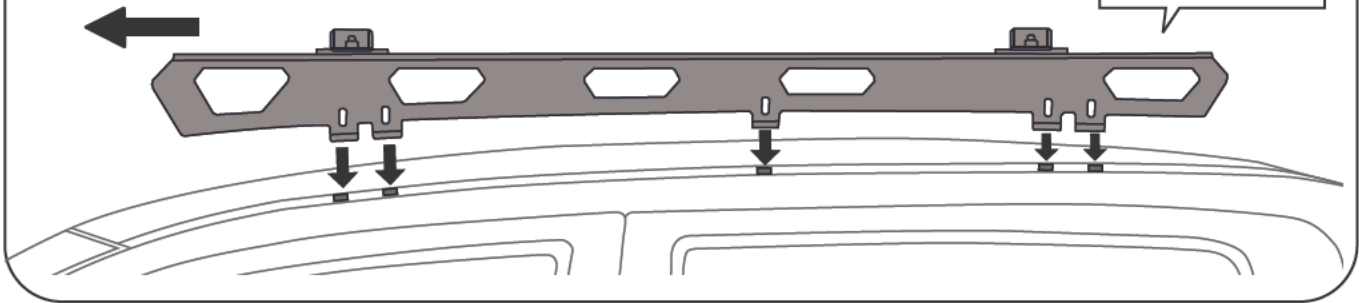
Ensure all Capscrews and Nuts are tightened to 7 Nm.



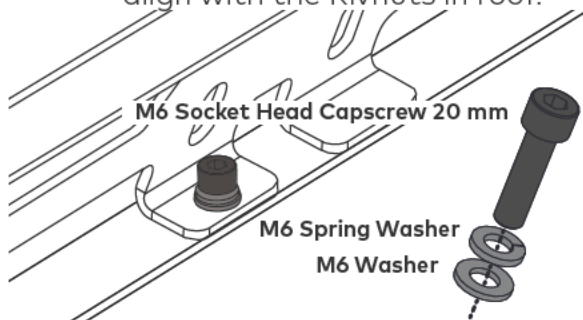
4**POSITION RUGGEDLINE ON VEHICLE ROOF**

Referring to the left-right orientation on top of each Spine, carefully place the correct side of the RuggedLine onto vehicle roof as shown. Line up the mounting holes on the bottom tabs to those exposed on the roof. The tabs are to face in towards the vehicle.

Front of vehicle

**5****ASSEMBLE RUGGEDLINE HARDWARE**

Assemble the M6 Socket Head Capscrew, M6 Spring Washer and Washer as shown and place into mounting holes on bottom tabs of RuggedLine. Ensure hardware and holes align with the Rivnuts in roof.

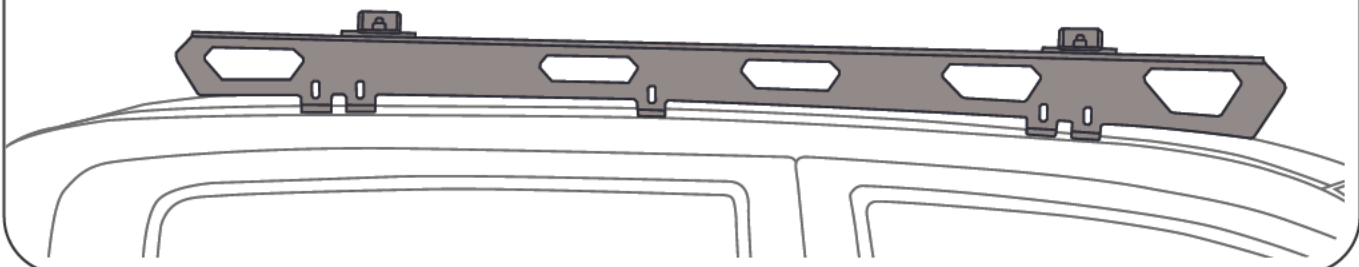
**6****TIGHTEN RUGGEDLINE HARDWARE**

Using the 5 mm T Handle Ball End Allen Key, and avoiding damage to the powder coat, start to carefully secure the RuggedLine by tightening the M6 Socket Head Capscrews to 4 Nm into the Rivnuts in roof.

**7****REPEAT STEPS TO OPPOSITE SIDE**

Repeat steps 1-10 on pages 2-4 and steps 1-5 on pages 5-6 for securing opposite side of RuggedLine Spine.

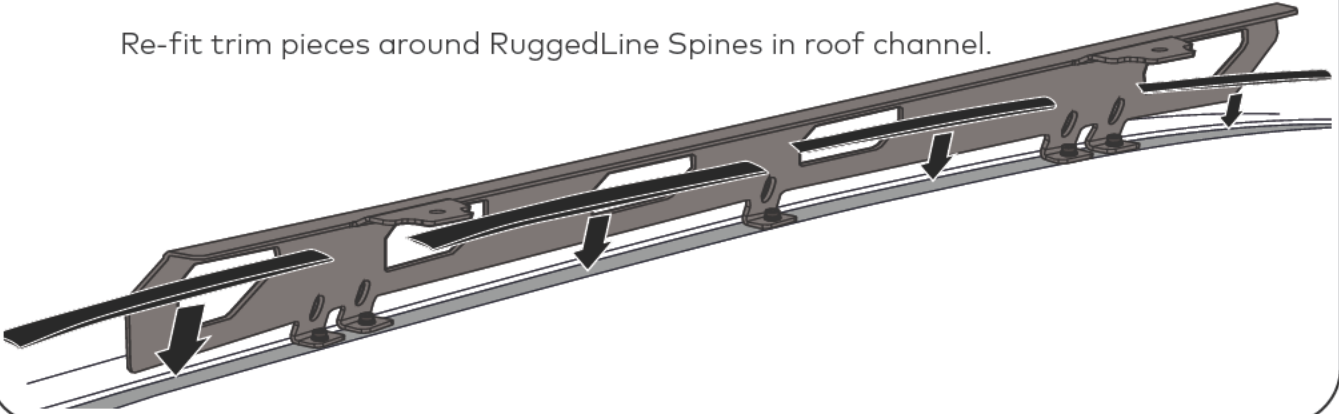
Ensure both Spines are securely positioned on vehicle roof. Check each screw is secure before proceeding to install LockNLoad Platform to RuggedLine Spines.



8**CUT AND REFIT ROOF TRIM**

Line up roof trim removed in Step 1 against the Spines to measure and mark to allow fitment around the tabs. Use a hacksaw or similar to cut to length. Touch up cut edges with zinc rich cold galvanizing solution.

Re-fit trim pieces around RuggedLine Spines in roof channel.

**!**

NOW SWITCH TO YOUR LOCKNLOAD PLATFORM INSTRUCTIONS AND CONTINUE FROM THE 'VEHICLE MOUNTING INSTRUCTIONS' PAGE.

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