



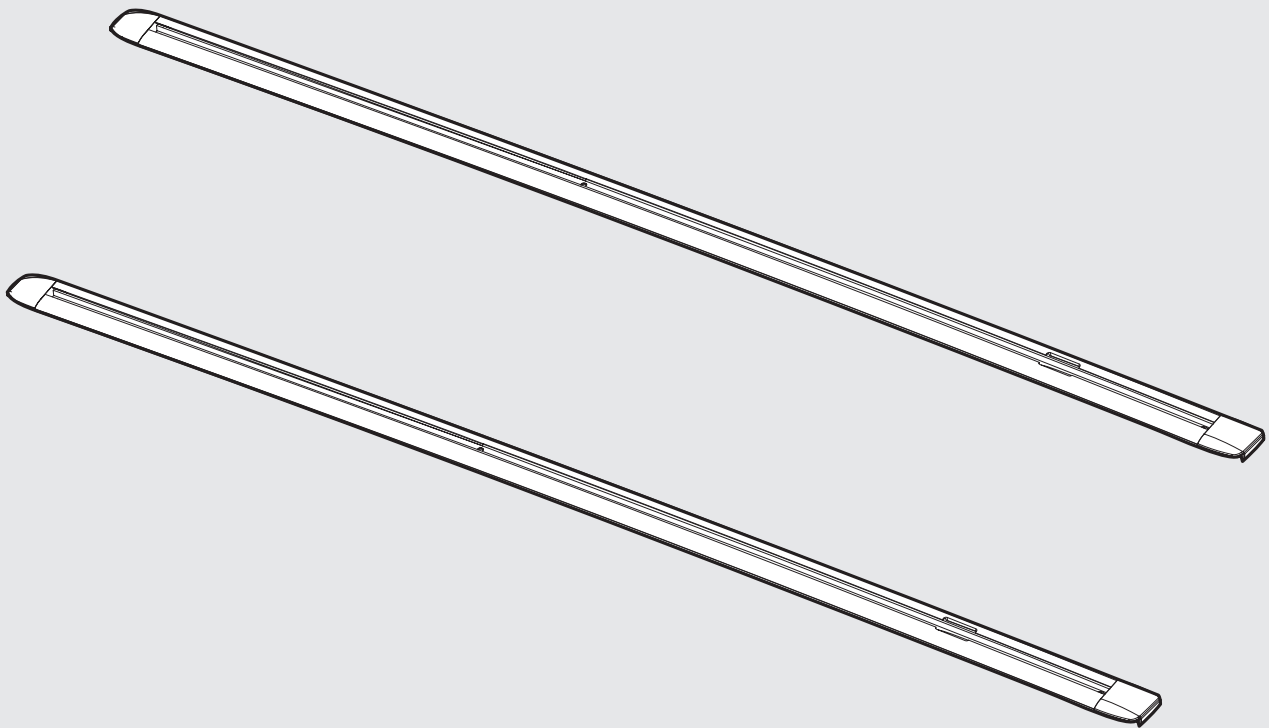
RHINO-RACK®

LAND ROVER DISCOVERY 3, DISCOVERY 4. LR3, LR4. RTS502

Important:

1. Check the Rhino-Rack website to ensure you have the latest issue of these instructions.
2. Please refer to your fitting instruction to ensure that the roof racks are installed in the correct locations.
3. Check the contents of kit before commencing fitment and report any discrepancies.
4. Place these instructions in the vehicle's glove box after installation is complete.
5. These instructions must be followed for warranty to be upheld.

Fit Time: 1 hour



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RTS502 Instructions

Carrying Capacity

Check the website and the vehicle owners hand book for your vehicle manufacturer's maximum carrying capacity. Load must be evenly distributed over the system.

Maximum carrying capacity: 75kg/165lbs evenly distributed over the cross bars.

Load Ratings:

Maximum permissible load is 75kg/165lbs per pair of cross bars (include the weight of the cross bars, 5kg/11lbs). When cross bars are to be used in off-road conditions, please build a safety factor of 1.5 into this load limit, 50kg/110lbs for off-road use.

Warning: Do not fit rear cross bar behind the rear M6 track attachment screw unless rear of the track is riveted to the roof, refer page 5 for fitting info.

Warning

- Check part number or kit is correct for use with your vehicle.
- Do not attempt to fit the rack system to your vehicle unless you fully understand these fitting instructions. Please direct any questions regarding fitting to the dealer from where the roof racks were purchased.
- Although the system is tested and approved to AS1235-2000 / ISO 11154, off-road conditions can be much more rigorous. Extreme care must be taken on any driven path that does not contain a surface protection layer (tar/bitumen).
- Roof racks must be removed when vehicle is put through an automatic car wash.
- With utility vehicles, the cabin and the canopy move independently. Roof racks and vehicle can be damaged if the item transported is rigidly fixed at points on both the cabin and canopy. Instead, rigidly fix to either the cabin roof racks or the canopy roof racks.
- Always ensure you fasten your load securely.
- Use only non-stretch fastening ropes or straps to attach cargo to your load.

In service maintenance checks

- All bolt connections should be checked after driving a short distance when you first install your roof racks.
- All bolted connections should be checked again at regular intervals (weekly is recommended, depending on road conditions, usage, loads and distances travelled).
- All bolted connections should be checked each time they are re-fitted.
- Off-road conditions are more rigorous. Check all bolted connections and your load more regularly.
- Ensure that your vehicle manufacturer's GVM, and gross axle weights are not exceeded (refer to vehicle owner's manual).

Torque Settings

Unless stated otherwise in these instructions, all fasteners should be set to the following torque settings:

M6: 4-5Nm (3-4lbs/ft),

M8: 8-10Nm (6-7.5lbs/ft)

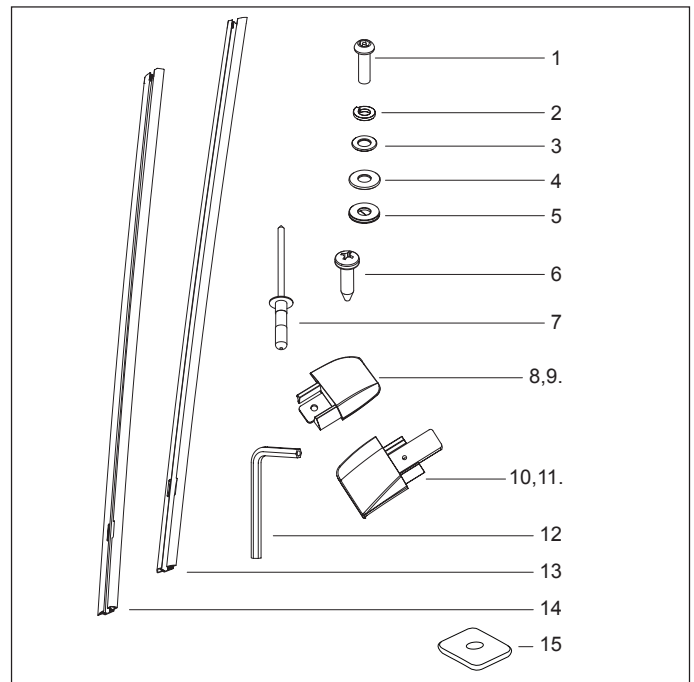
M10: 16-18Nm (12-13lbs/ft).

Note for Dealers and Fitters

It is your responsibility to ensure these fitting instructions are given to the end user or client. These instructions remain the property of Rhino-Rack Australia Pty. Ltd. and may not be used or changed for any other purpose than intended.

Parts List

Item	Component Name	Qty
1	M6 x 20 Security Screw	6
2	M6 Spring Washer	6
3	M6 x 12mm Flat Washer	6
4	M6 x 16mm Flat Washer	4
5	M6 Foam Backed Washer	4
6	10G x 1/2" Self Tapping Screw	2
7	5mm Rivet	2
8	End Cap FL (Front Left)	1
9	End Cap FR (Front Right)	1
10	End Cap RL (Rear Left)	1
11	End Cap RR (Rear Right)	1
12	5mm Security Allen Key	1
13	Track Extrusion Right	1
14	Track Extrusion Left	1
15	Butyl Patches	3
16	Fitting Instruction	1



Care Instruction:

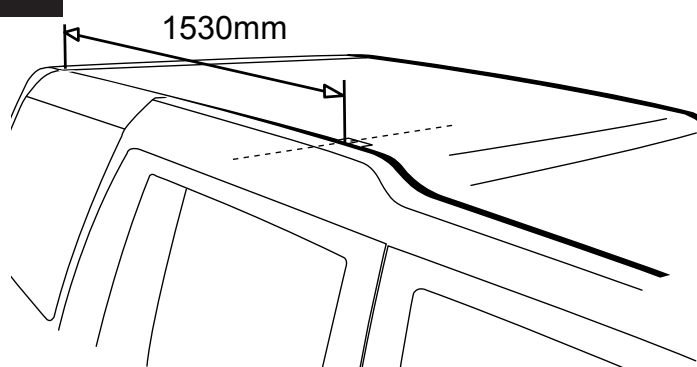
Clean vehicle roof prior to fitting Rhino tracks, especially roof channel where the tracks are to be fitted.

Tools required:

Marking pen.
5mm security allen key, provided in kit.
Flat head screw driver.
Phillips head screw driver.
Pneumatic or concertina rivet gun.
Power drill.
5mm drill bit.

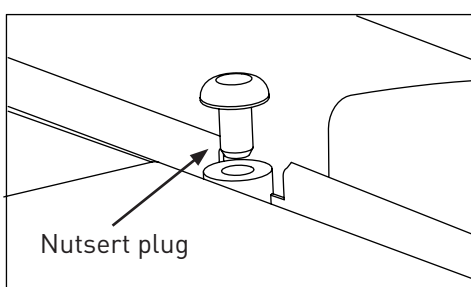
Drill stop.
Measuring tape.
Hacksaw.
Cold Galvanising paint.
Butyl mastic sealer.
Vacuum cleaner.

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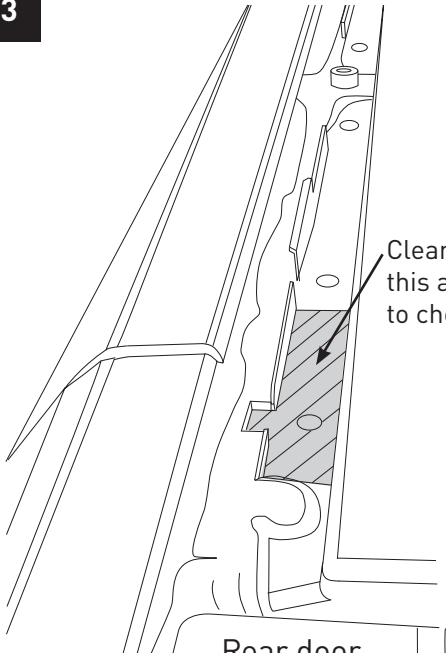
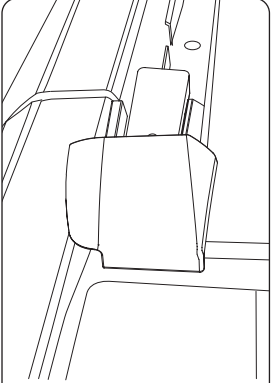
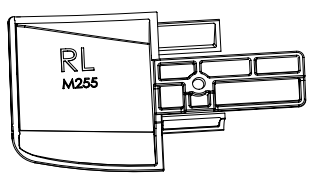
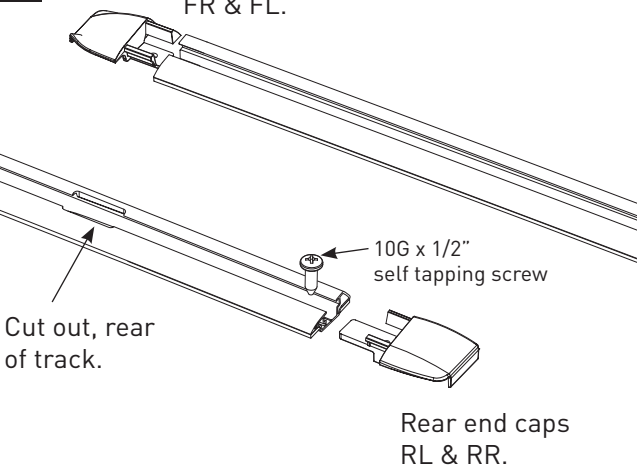
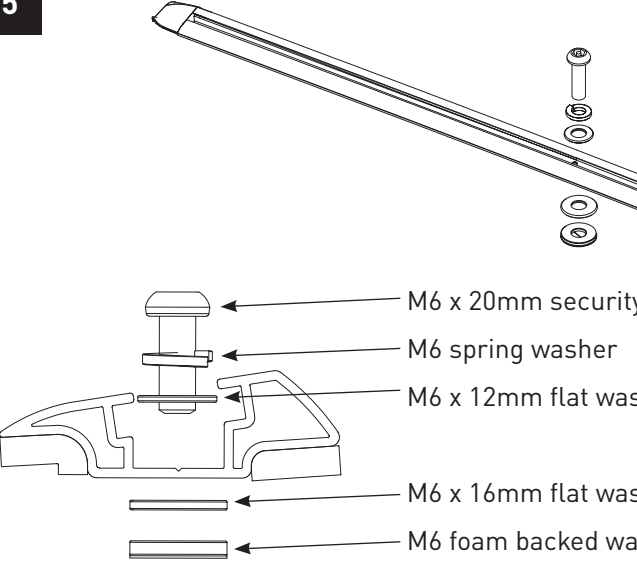
- Measure 1530mm from rear of roof channel strip then mark a line on the strip.
- Remove channel strip.
- Cut strip at mark using a hacksaw.
- Clip the front piece of strip (shorter piece) back into the channel.
- Repeat for opposite side.

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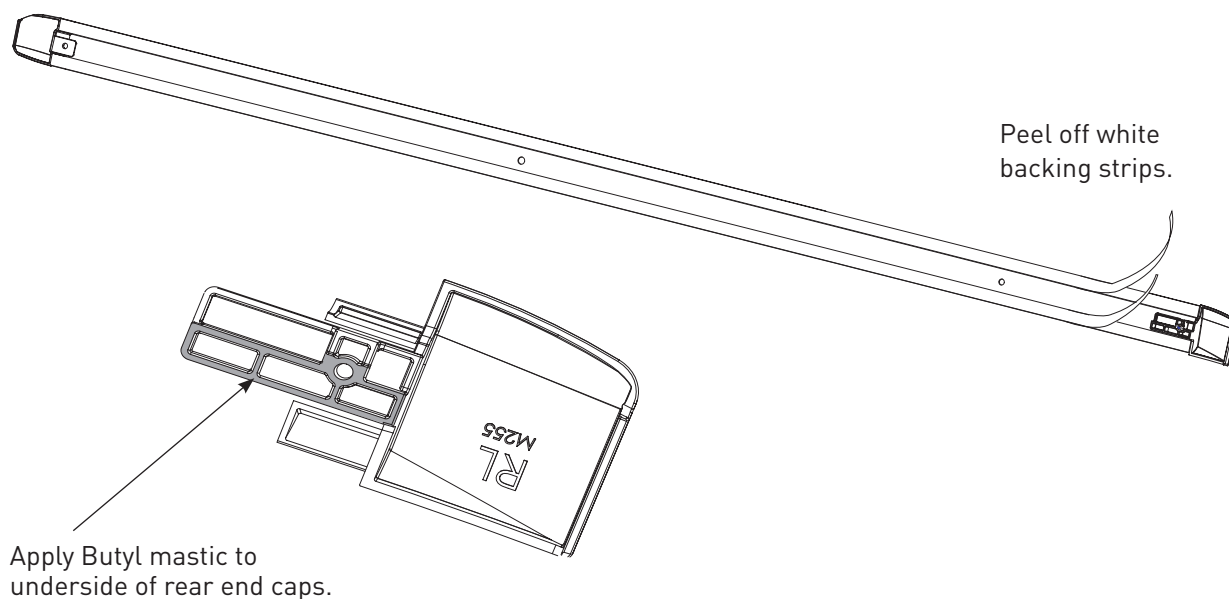


Using a flat head screwdriver lever out the plastic plugs in the roof channel. This will expose the nutserts which the track fastens to.

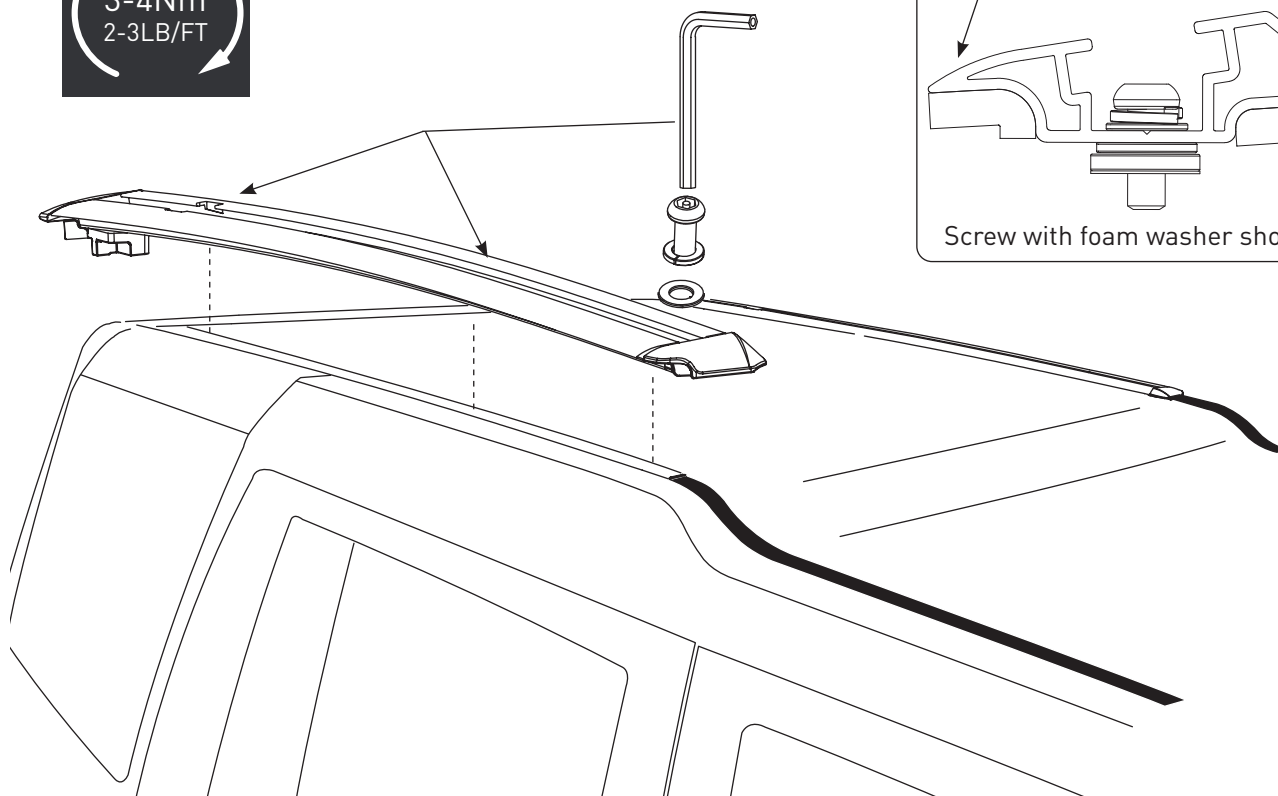
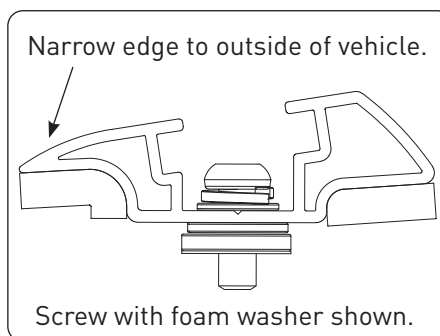
DO NOT REMOVE THE WHOLE BOSS.

<div data-bbox="89 181 159 257">3</div>  <p>Clear drip-check from this area. Fit end cap to check.</p> <p>Rear door</p>	<p>Remove all drip-check at the rear where the end cap sits. Rear end cap must sit down onto the roof channel surface. Cold Galvanise paint the area where drip-check has been removed.</p> <div data-bbox="821 436 1093 862">  <p>Check fit end cap</p> </div> <div data-bbox="1125 436 1476 862">  <p>Rear Left end cap shown. Repeat process for Rear Right</p> </div>
<div data-bbox="89 907 159 983">4</div>  <p>Front end caps FR & FL.</p> <p>10G x 1/2" self tapping screw</p> <p>Cut out, rear of track.</p> <p>Rear end caps RL & RR.</p>	<p>Insert end caps into the tracks.</p> <p>RR = Rear Right RL = Rear Left FR = Front Right FL = Front Left</p> <p>Rear of track has the cutout. Rear end caps only. Screw the self-tapping screw through the track and into the end caps prior to fitting the tracks.</p> <p>Refer notes on page 5, for riveting the rear end caps to the roof channel. For use with extended loads.</p>
<div data-bbox="89 1476 159 1552">5</div>  <p>M6 x 20mm security screw</p> <p>M6 spring washer</p> <p>M6 x 12mm flat washer</p> <p>M6 x 16mm flat washer</p> <p>M6 foam backed washer</p>	<p>Middle two screws only. Assemble washers as shown below onto the M6 security screws. Place screws through holes in the tracks. Turn track over, fit foam backed washers onto screws. Repeat for opposite track.</p> <p>Rear of track</p> <p>Foam side of washer against vehicle body</p>

- 6** Rear end caps only. Apply Butyl mastic to underside of end cap, prior to fitting the tracks. Peel white backing strips off tracks.



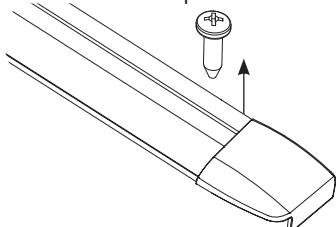
- 7** Place tracks into roof channels, narrow edge to outside of vehicle. Assemble the spring and flat washer onto the M6 x 20mm security screw. Locate through front hole in track and fasten to roof nutserts, leave loose at this stage. Engage the middle and rear screws into the remaining nutserts. Progressively tighten all three screws. Repeat for opposite side.



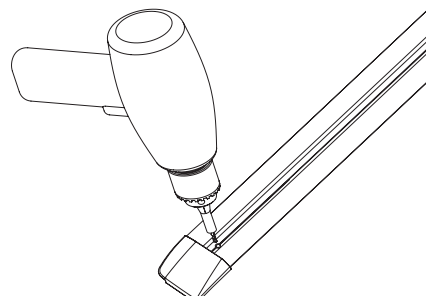
ADDITIONAL INSTRUCTION FOR RIVETING REAR OF TRACK.

Riveting is required when a cross bar is to be fitted rearward of the last mounting screw. Accessories which require this attachment are the boat loader and large roof trays.

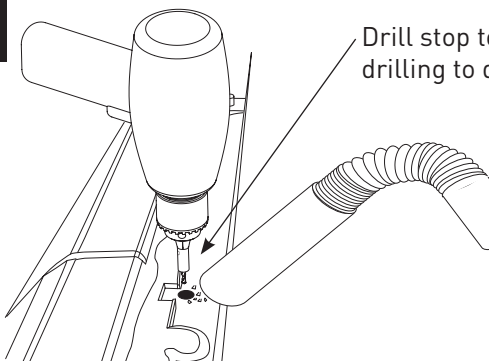
- 8** If previously installed, remove self tapping screw from the rear end cap.



- 9** Using a 5mm drill bit, drill through the track and end cap to mark the roof channel.

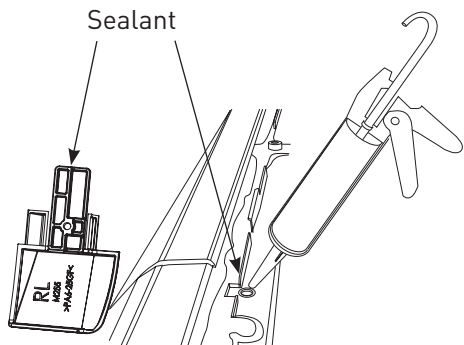


- 10** Drill stop to prevent drilling to deep



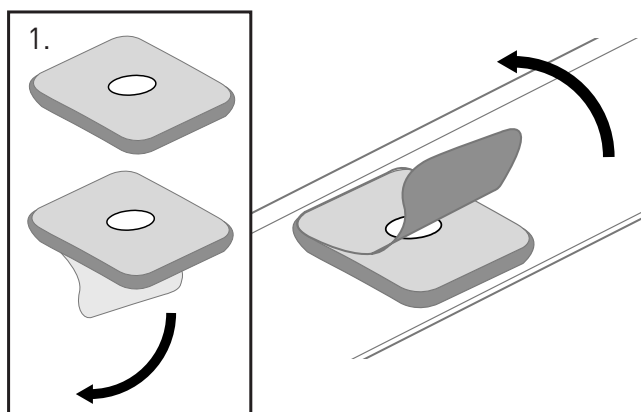
Remove the track. Drill through the roof channel at the mark. Use drill stop to prevent drilling to deep. Set the stop so approximately 5mm of drill tip shows, adjust depth if necessary. Vacuum swarf out of the roof channel to minimise scratching.

- 11** Sealant



Apply Butyl Mastic sealant liberally around the drilled hole and on base of end cap.

- 12** 1: Remove the backing tape from the Butyl Patches. 2: Place over holes drilled. Once in place remove the rest of the protective tape from the top of the patches.



- 13** Place the track into roof channel. Insert all screws as previously instructed. Insert the rivet through track and end cap. Secure the rivet using a pop rivet gun or pneumatic rivet gun. Repeat steps for opposite track.

