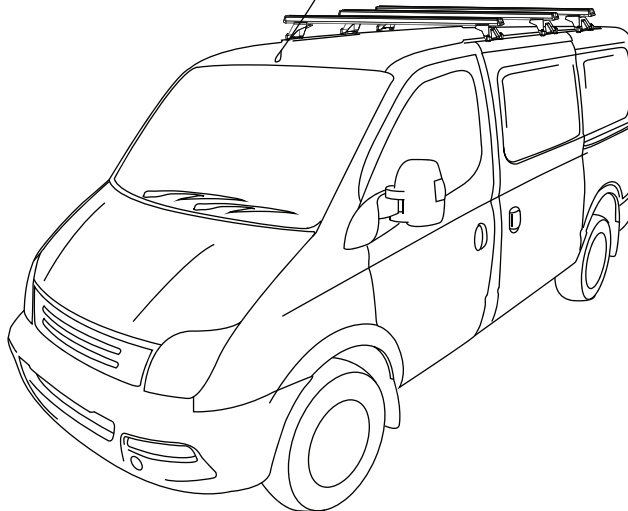




RHINO-RACK

RLTF-LDV1F,M,R

Important: Please read these instructions carefully prior to installation. Please refer to your fitting instruction to ensure that the roof racks are installed in the correct locations. Check the contents of kit before commencing fitment and report any discrepancies



Be sure to check Rhino-Rack website to ascertain if you have the latest version of instructions.

Important Information

Maximum carrying capacity:

On Road Cargo Allowance	Unsealed Road Cargo Allowance	Roof Allowance	Rack Weight
95kg / 209lb	75kg / 165lb	100kg / 220lb	5kg / 11lb

Roof Allowance: Total permissible weight attached to the roof of the car. This is inclusive of the weight of the roof rack system

Cargo Allowance: Total permissible weight allowed on top, and attached to roof racks whilst the vehicle is in motion

Please refer to your vehicle manufacturers handbook for maximum carrying capacity. Always use the lower of the two figures. Load must be evenly distributed over the entire Pioneer. Weight of roof rack accessories is to be included in cargo allowance.

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

Warning:

- Check Part No. and/ 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.
- **Use only non-stretch fastening ropes or straps.**
- The handling characteristics of the vehicle changes when you transport a load on the roof. For safety reasons we recommend you exercise extreme care when transporting wind-resistant loads. Special consideration must be taken into account when cornering and braking.
- 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 in off road conditions

Recommendations:

It is essential that all bolt connections be checked after driving a short distance when you first install your roof racks. Bolt connections should be checked again at regular intervals (once a week is enough, depending on road conditions, usage, loads and distances travelled). You should also check the roof racks each time they are re-fitted. Always make sure to fasten your load securely. Please also ensure that all loads are evenly distributed and that the centre of gravity is kept as low as possible and must be entirely contained within the extents of the roof racks.

Note for Dealers and Fitters:

It is your responsibility to ensure these fitting instructions are given to the end user or client

Rhino-Rack, 22 Hanson St, Eastern Creek

NSW 2766, Australia

(02) 8846 1900

rhinorack.com.au

Document No: R383

Prepared By: Kayle Everett

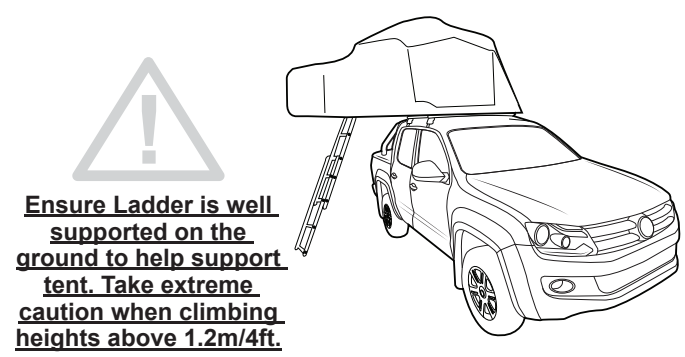
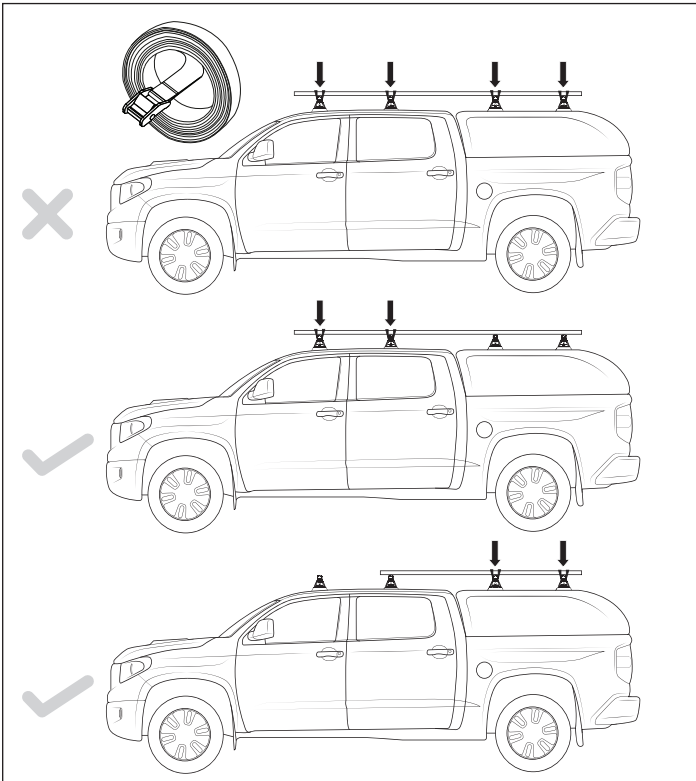
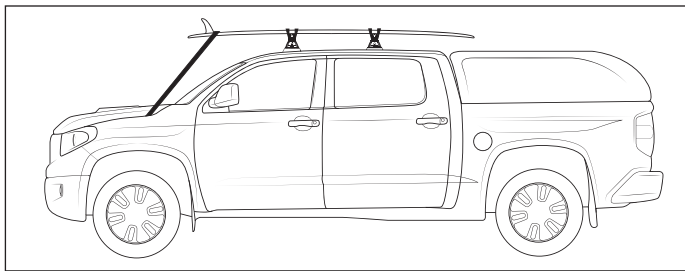
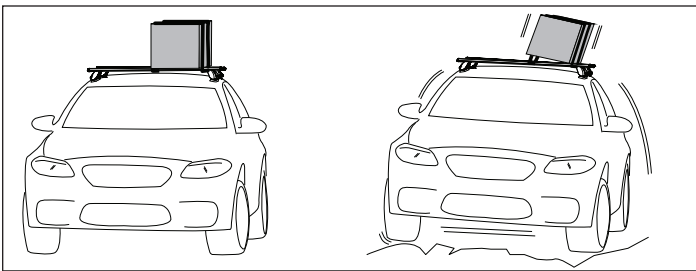
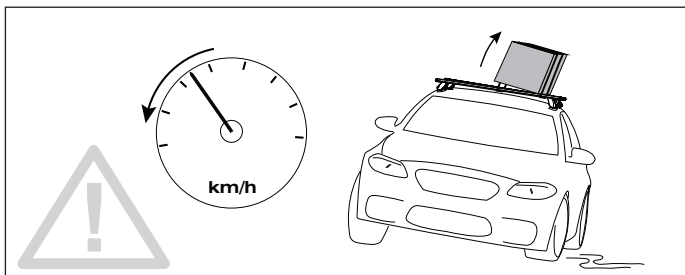
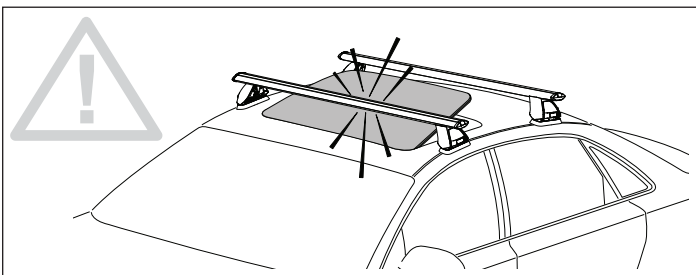
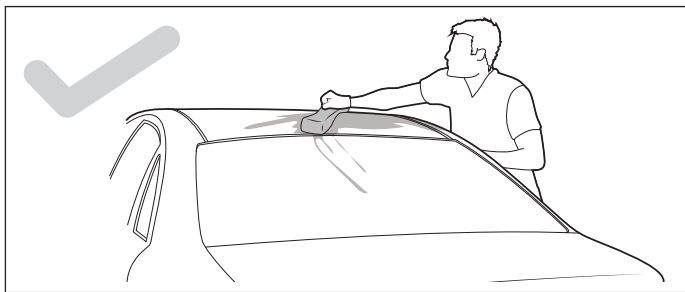
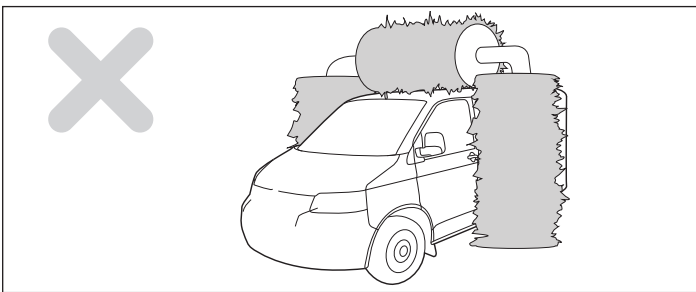
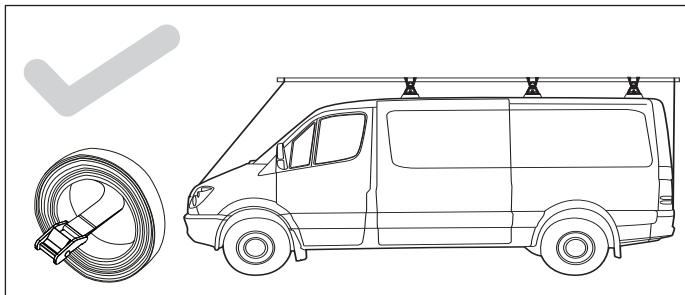
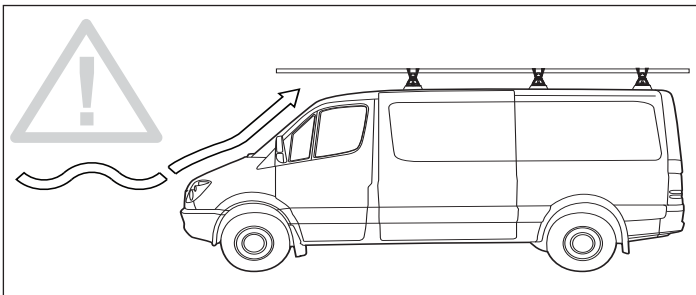
Authorised By: Rod Renkin

Issue No: 07

Issue Date: 26/09/2018

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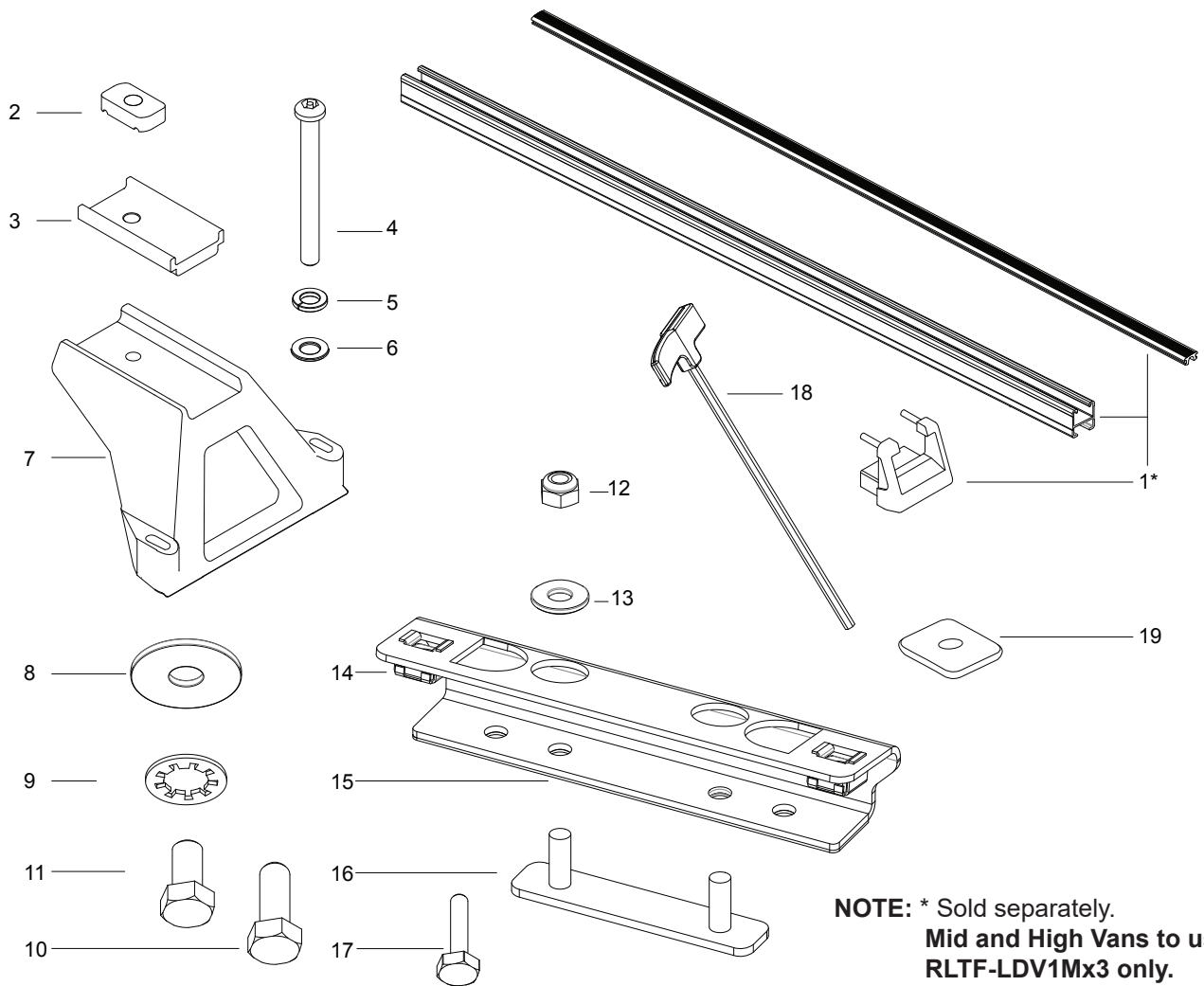
RLTF-LDV1F,M,R



Ensure Ladder is well supported on the ground to help support tent. Take extreme caution when climbing heights above 1.2m/4ft.

RLTF-LDV1F,M,R

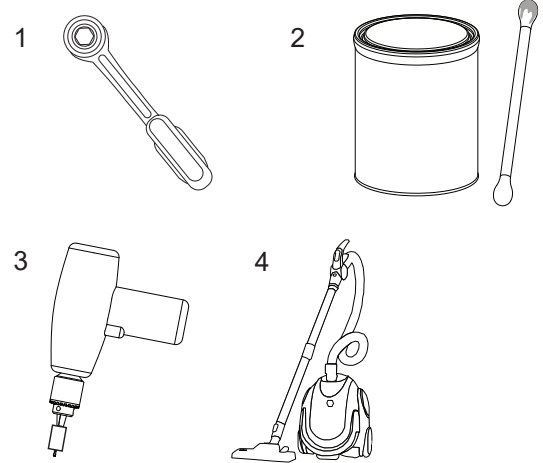
Parts List



NOTE: * Sold separately.
Mid and High Vans to use
RLTF-LDV1Mx3 only.

Item	Component Name	Qty F Bar	Qty M Bar	Qty R Bar	Part No.
1*	1650 Bar Rubber and End Caps	1	1	1	RB1650
2	M10 Channel Nut	2	2	2	N024
3	Spacer - Front Bars	2	0	0	M016
4	M6 x 40 Security Bolt	4	4	4	B085
5	M6 Spring Washer	4	4	4	W004
6	M6 x 12.5 Flat Washer S/S	4	4	4	W003
7	RLTF Leg	2	2	2	M010
8	M10x38x2.5 Flat Washer	2	2	2	W022
9	M10 Shake Proof Washer	2	2	2	W021
10	M10x25 HX Setcrew M/Galv	0	2	2	B071
11	M10x35 HX Setscrew M/Galv	2	0	0	B071
12	M6 Nyloc Nut	4	4	4	N013
13	M6x16x1.6 Flat Washer S/S	4	8	4	W031
14	M6 Cage Nut	4	4	4	N017
15	Bracket	2	2	2	CA1262
16	Underside Twin Stud Bolt	2	0	2	C098
17	M6x20 Hex Bolt	0	4	0	B082
18	Torque Allen Key	1	1	1	TORKEY-L
19	Butyl Patches	4	4	4	CA1397
20	Instructions	1	1	1	R383

Tools:



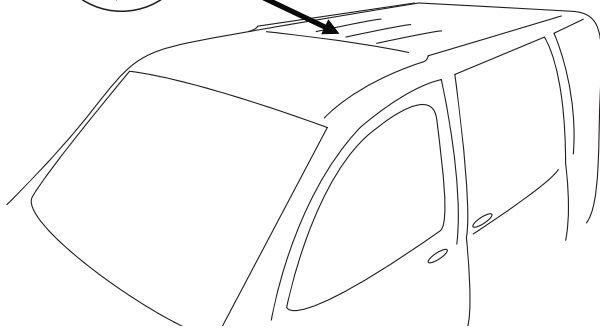
- 1- Socket Wrench (1/4in drive 10mm)
- 2- Cold Galvanising Paint and brush
- 3- Drill with 5mm drill stop
- 4- Vacuum
- 5- 6mm drill bit

RLTF-LDV1F,M,R

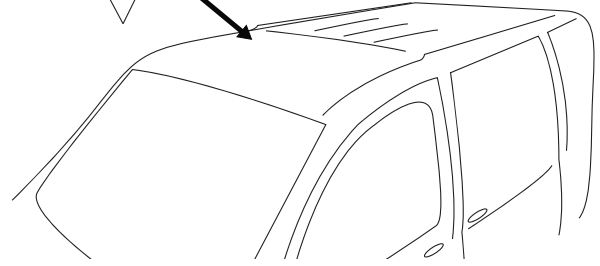
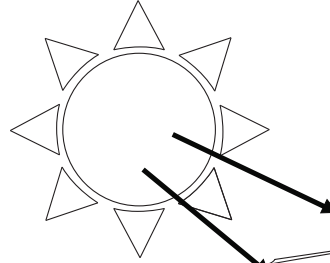


Note: For Pioneer fitments. Refer to R1756 LDV V80 Pioneer fit sheet. Do not install mounting brackets as listed below.

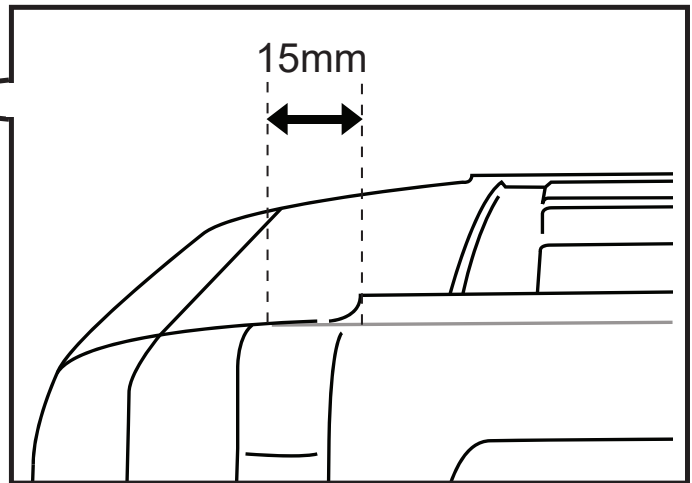
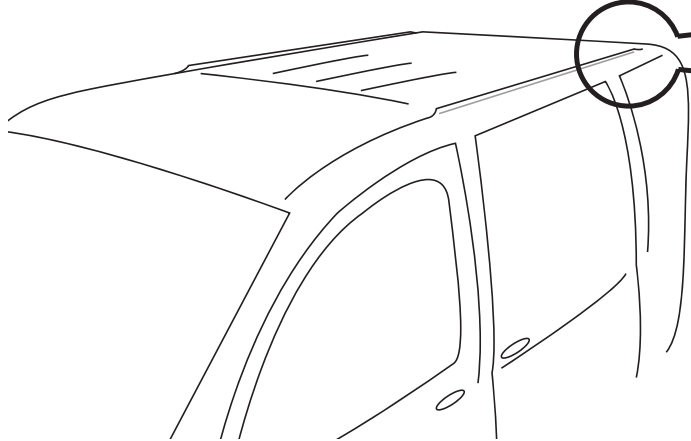
1a Thoroughly clean the Vehicle, removing all dirt from the roof area.



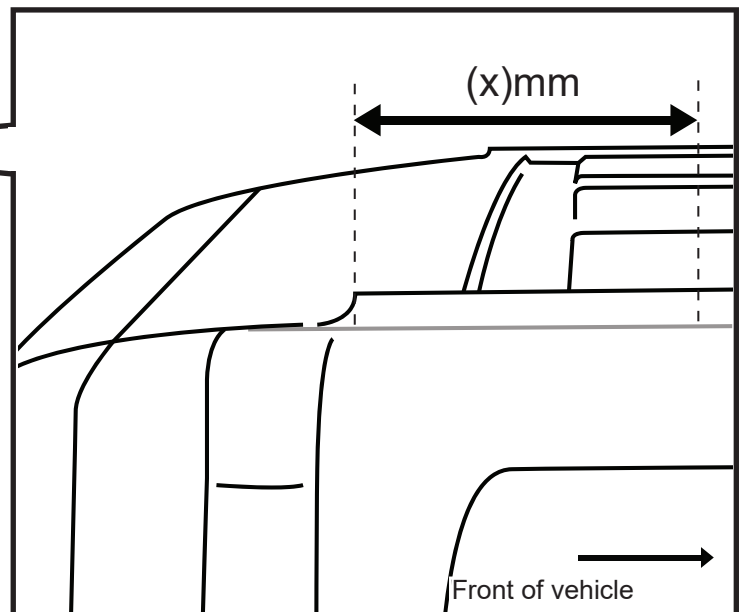
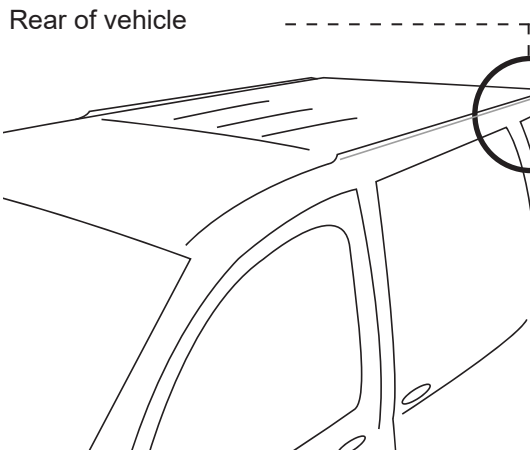
1b Either dry vehicle with chamois or sun



2a **LOW Roof Models:** Starting at the **Rear of the roof sill**, measure 15mm back towards the **REAR** of the vehicle as shown.



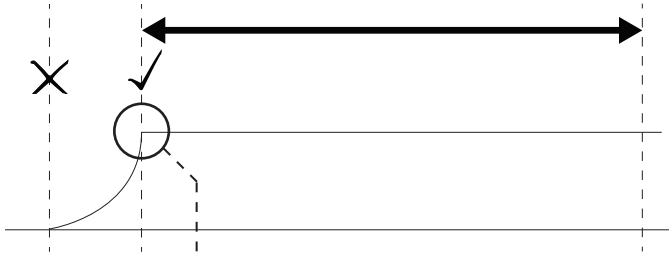
2b **MID and HIGH Roof Models:** Starting at the **Rear of the roof sill**, measure (x) back towards the **FRONT** of the vehicle as shown.



LDV Body Shape	X Measurement
LDV-80 Mid Roof	417mm
LDV-80 High Roof	355mm

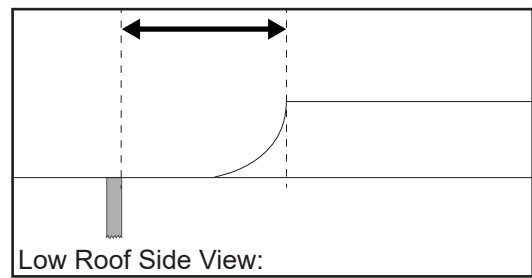
RLTF-LDV1F,M,R

2c Mark with Masking Tape or marker at 15mm towards the rear for Low Roof models, 417mm for Mid Roof and 355mm toward the front for High Roof models.

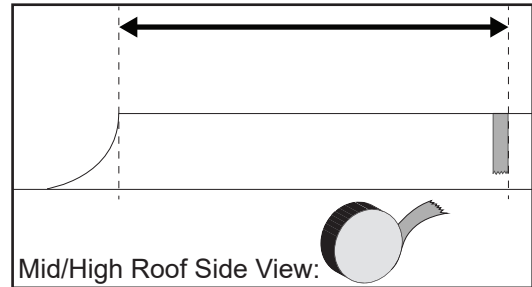


Use this reference point for initial measurement.
Roof Sill Side View

Roof Sill Side View

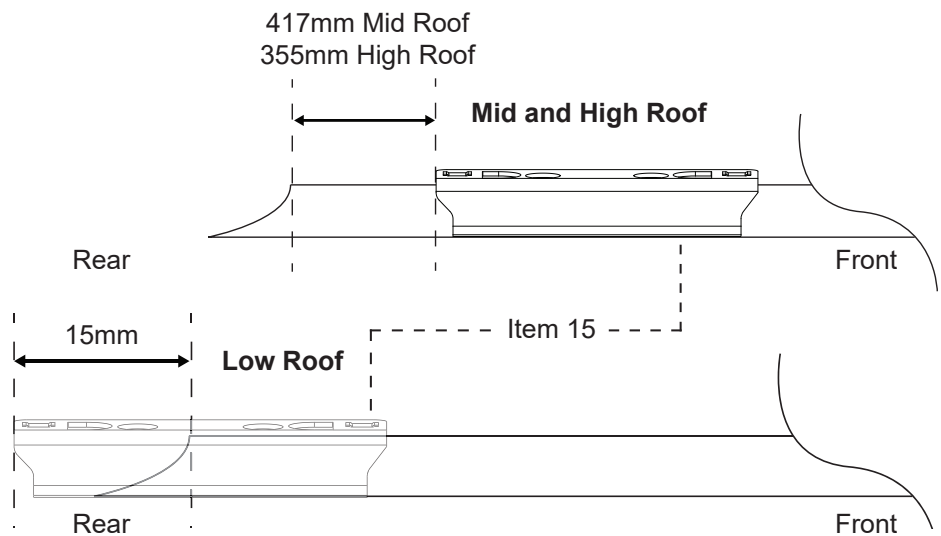
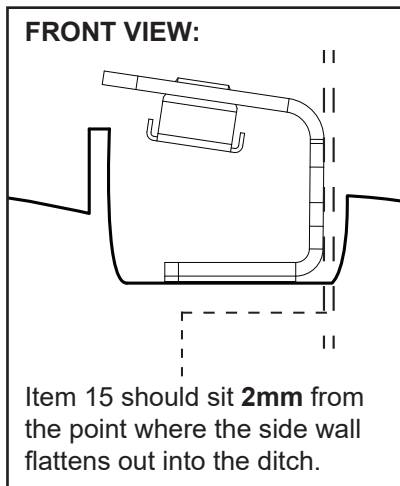


Low Roof Side View:

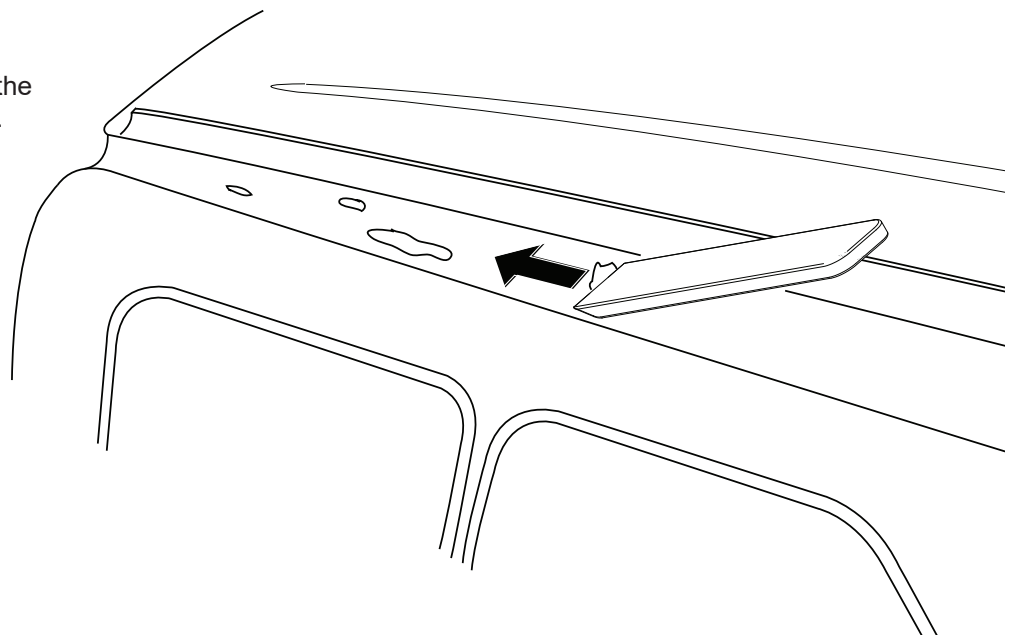


Mid/High Roof Side View:

3 Place the bracket (Item 15) on this marking using the base edge as shown. The Bracket's back should sit 2mm from where the outside edge of the roof ditch flattens out.

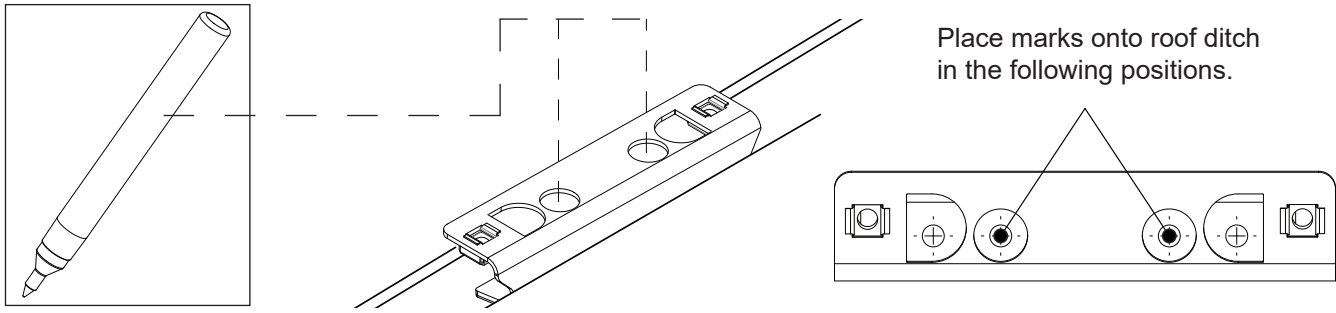


Note: Material may need to be removed from roof channel with nylon scrape. This is to ensure the bracket sits flat against the roof. Use Cold Galvanising Paint on any exposed panel work from material removal.

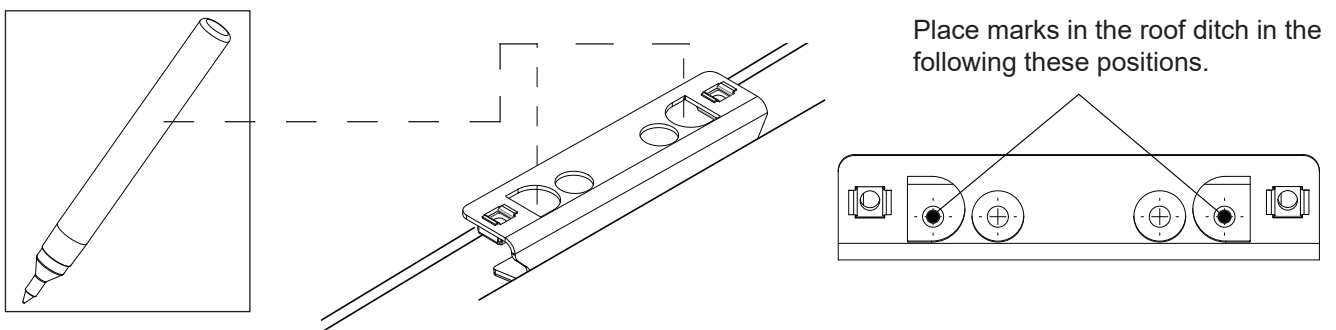


RLTF-LDV1F,M,R

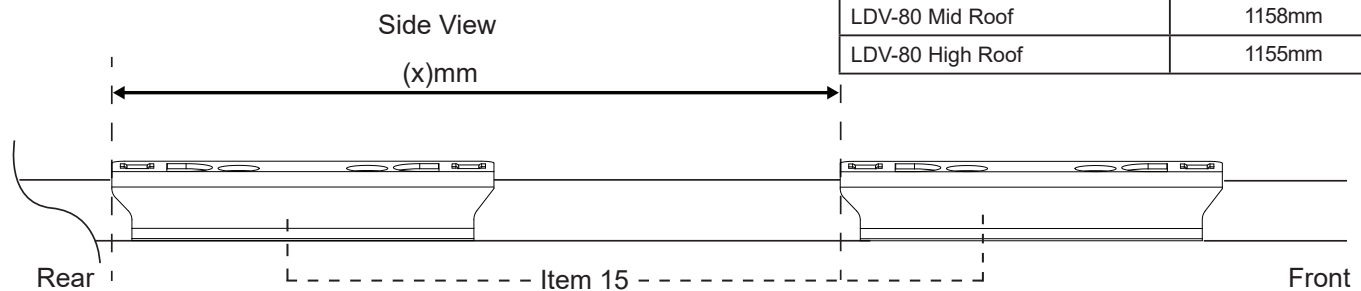
4a FOR LOW ROOF LDV MODELS ONLY: Mark the two **INNER** holes on the roof ditch.



4b FOR MID AND HIGH ROOF LDV MODELS: Mark the two **OUTER** holes on the bracket.

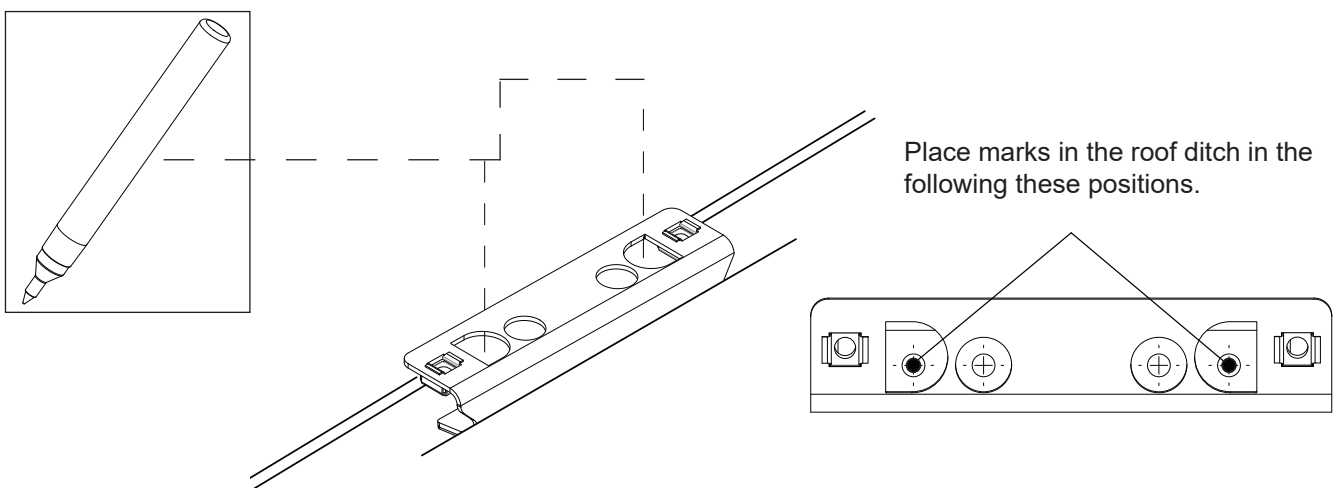


5 MIDDLE BRACKET: Now with the rear bracket in place measure toward the front of the Vehicle (see below). Mark this measurement with tape as done in step 2c and place another bracket.



LDV Body Shape	X Measurement
LDV-80	1040mm
LDV-80 Mid Roof	1158mm
LDV-80 High Roof	1155mm

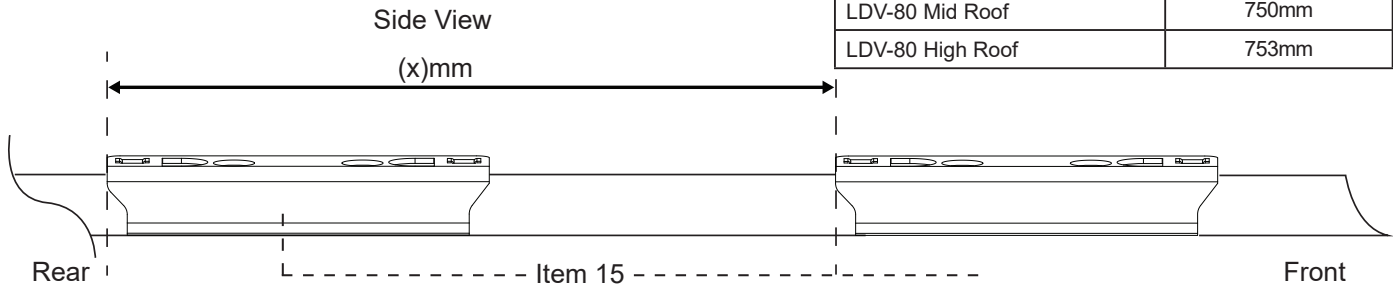
6 FOR ALL LDV MODELS: Mark the two **OUTER** holes on the bracket.



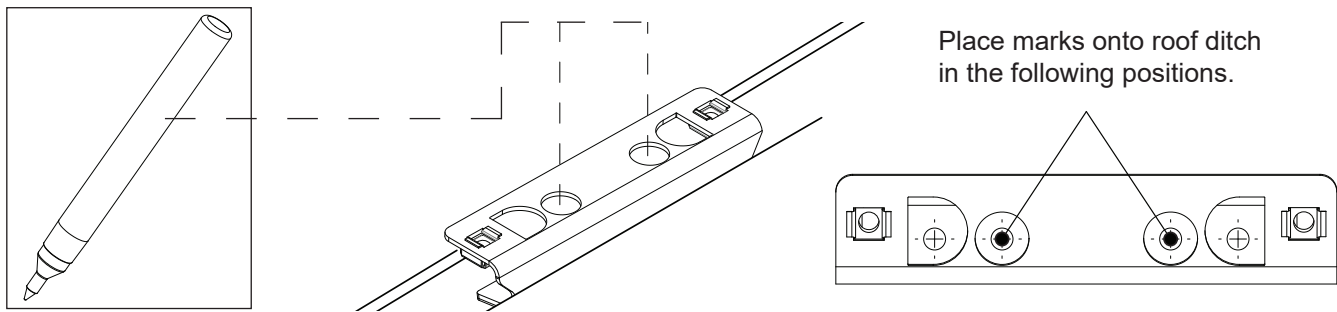
RLTF-LDV1F,M,R

7 FRONT BRACKET: Now with the middle bracket in place measure toward the front of the Vehicle (see below). Mark this measurement with tape as done in step 2c and place another bracket.

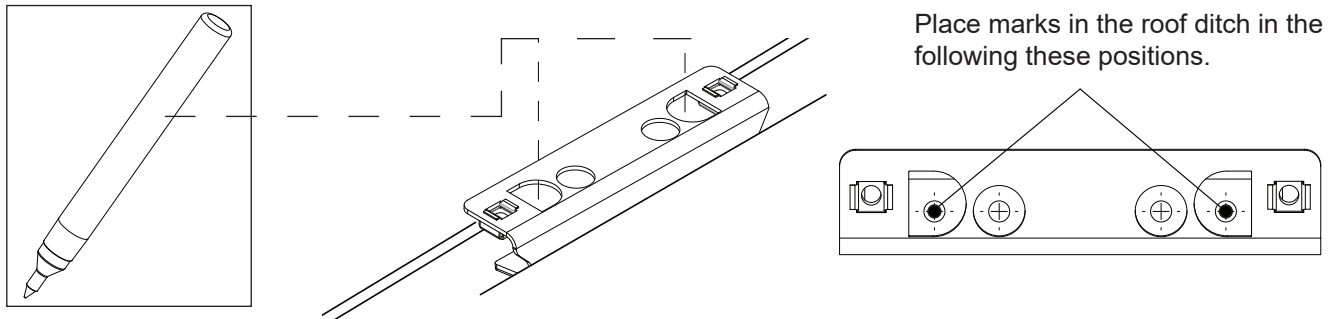
LDV Body Shape	X Measurement
LDV-80	808mm
LDV-80 Mid Roof	750mm
LDV-80 High Roof	753mm



8a FOR LOW ROOF LDV MODELS ONLY: Mark the two **INNER** holes on the roof ditch.



8b FOR MID AND HIGH ROOF LDV MODELS: Mark the two **OUTER** holes on the bracket.



Repeat Steps 2a - 8b for the opposite side of the vehicle

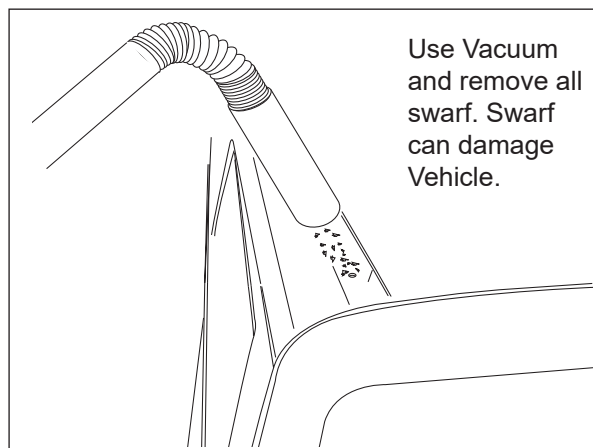
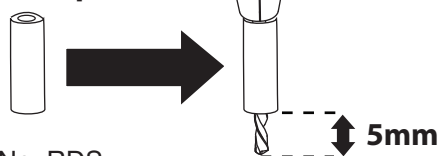
9 Using a **6mm DRILL BIT WITH A STOP SET TO 5mm**, drill through all marked locations on the roof tracks. **Use a Vacuum** to remove swarf as you go.

NOTE: While completing step 9.

Use a Drill stop to minimise error.

Drill Stop

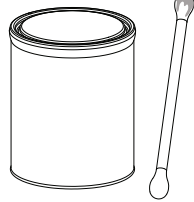
Part No: RDS



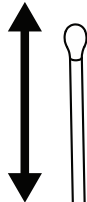
RLTF-LDV1F,M,R

10a After all holes have been drilled into the Roof apply **COLD GALVANISING PAINT**. Make sure to spread around drilled hole as well as inside. Allow 10min to dry.

Use a cotton bud or small paint brush to apply Cold Galvanising Paint.

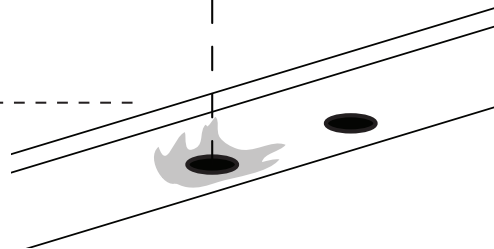


Apply the Paint inside **EACH** drill point. Make sure to cover the entire length of the hole.



Cotton bud or brush with Galvanising Paint

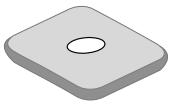
Roof with drilled point



10b Apply Butyl Patches to **ALL** drilled holes in the Roof. 1: Remove the backing tape from the Butyl Patch. 2: Place over holes drilled in the roof ditch. 3: Remove tape from top of patches.

1:

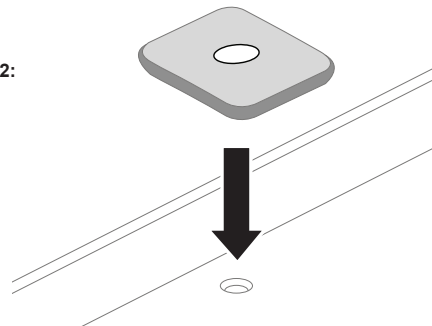
A.



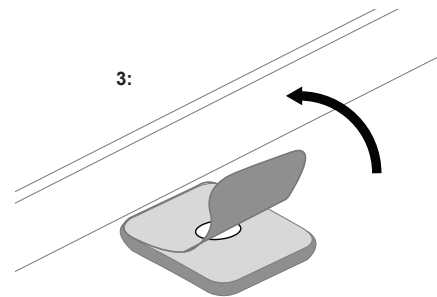
B.



2:

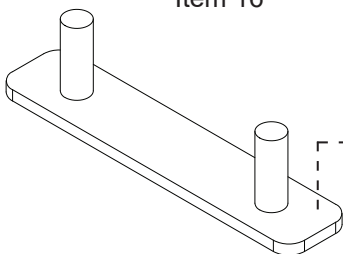


3:

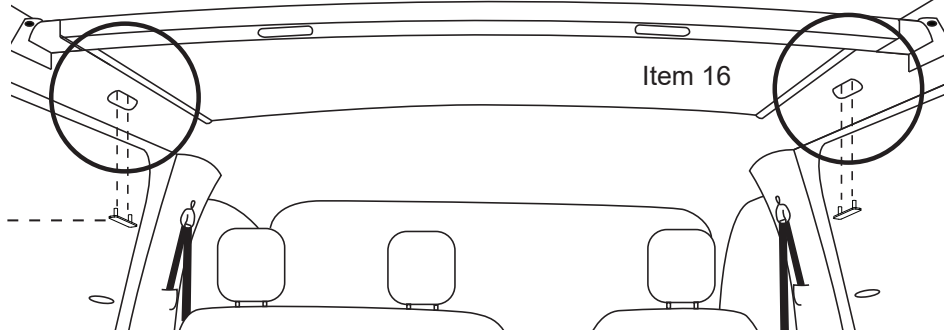


11a For Low Roof LDV only: From the inside of the vehicle, starting at the the front, place the M6 Underside Twin Stud Plate (Item 16) as shown. Align with the holes drilled into the Roof toward the front of the Vehicle.

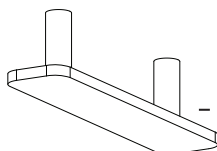
Item 16



Item 16

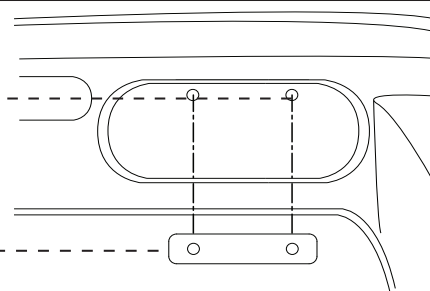


Push the M6 Underside Twin Stud Plate, through the holes that have been drilled through the Roof Tracks at the **FRONT** of the vehicle.



Drilled holes

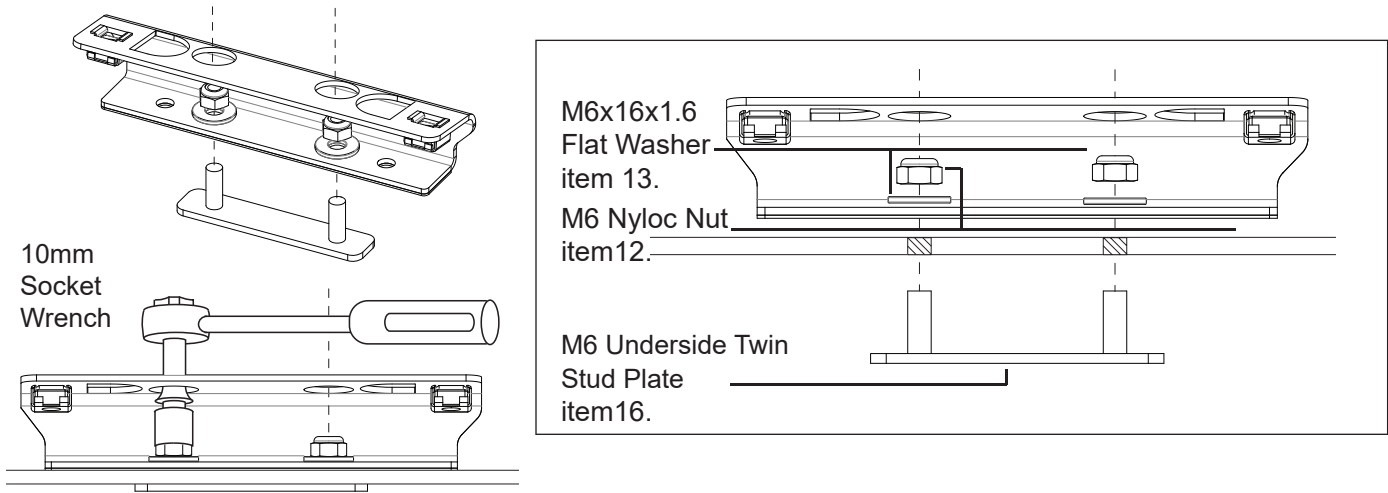
Item 16



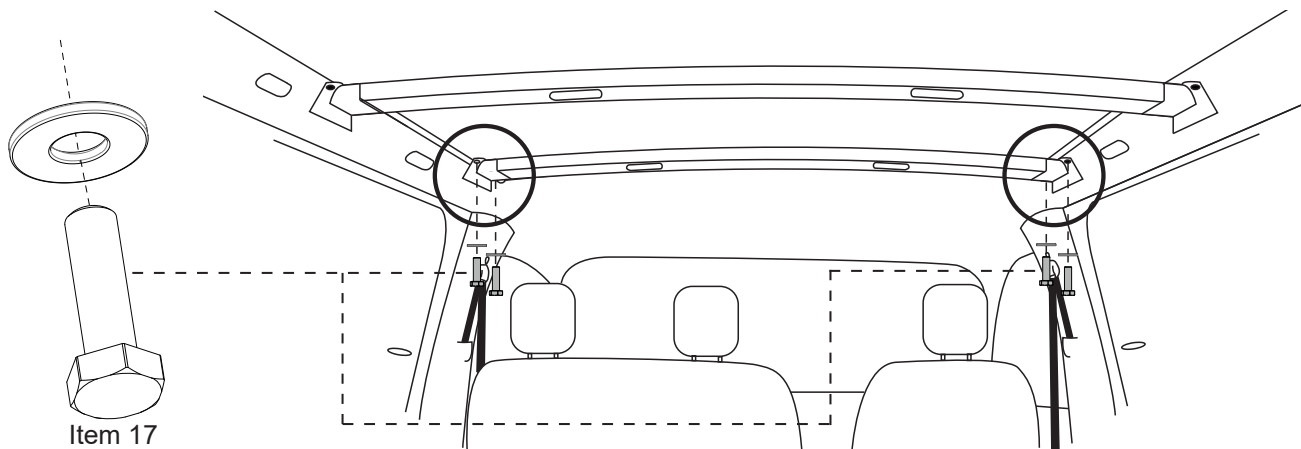
Circled cavity pictured above

RLTF-LDV1F,M,R

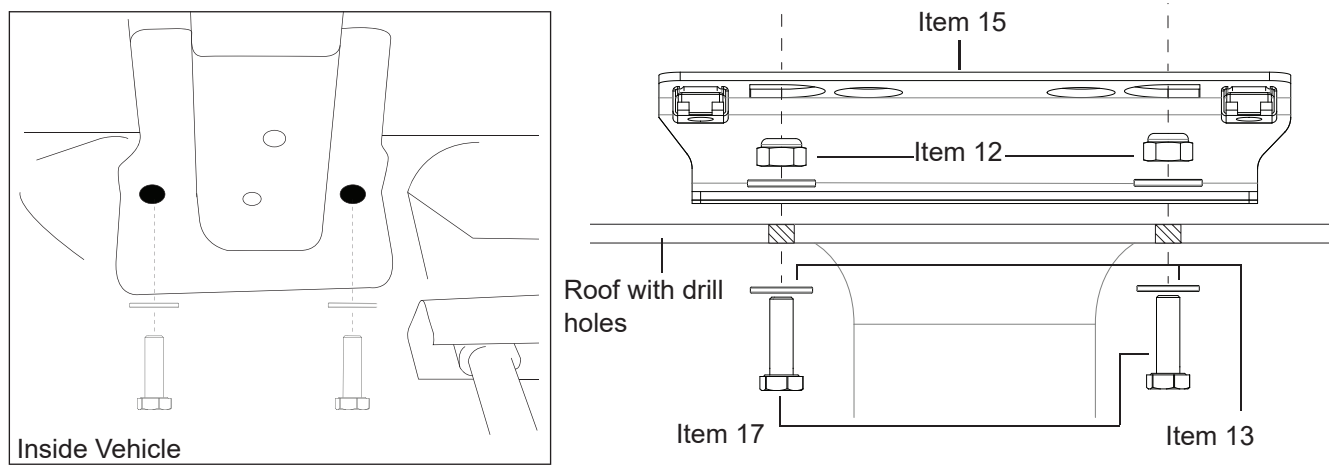
11b Place on a bracket (Item15) and M6x16x1.6 Washers (Item 13). Fix in place with M6 Nyloc Nut (Item12). A 1/4 inch drive 10mm Socket Wrench can be used to tighten the nuts. Fasten **BOTH** to 10Nm .



12 For Mid and High Roof LDV Models: Push M6x20 Hex Bolts (Item 17) with M6x16x1.6 Flat Washers (Item 13) through the holes drilled in the front of roof track.

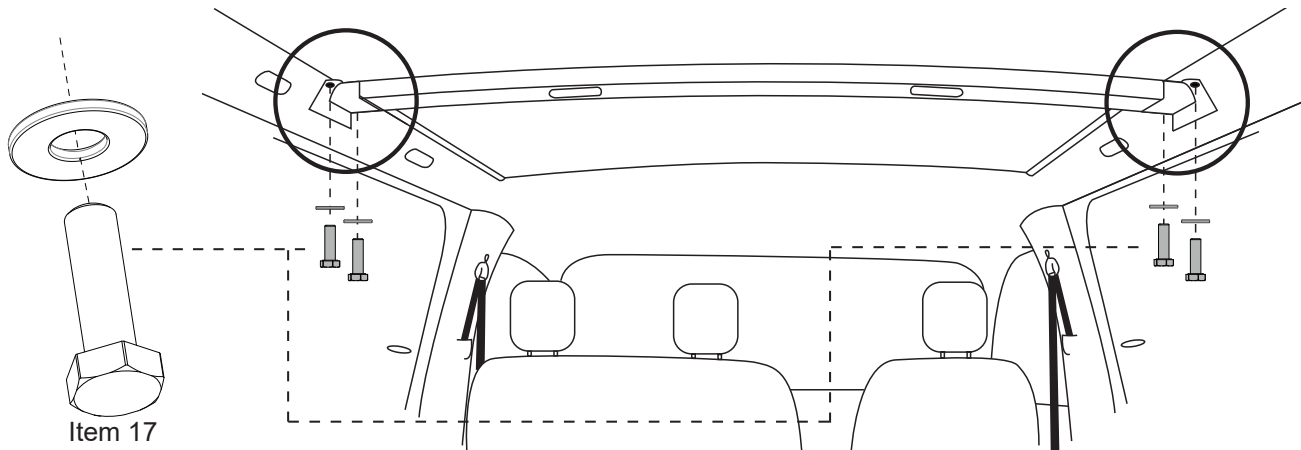


Place Item 17 and 13 through holes drilled in roof. Slide on a bracket from the roof side and a further 2 M6x16x1.6 Washers and fix in place with M6 Nyloc Nut. A 1/4 inch drive 10mm Socket Wrench can be used to tighten the nuts (pictured 11b). Fasten **BOTH** middle plates using **OUTER HOLES** on Item 15.

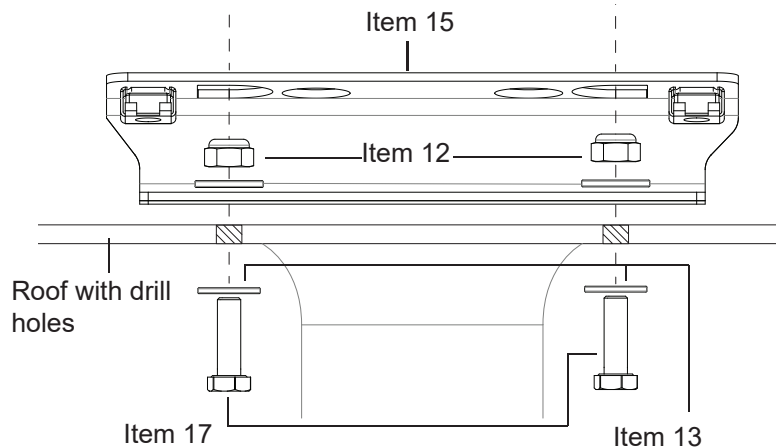
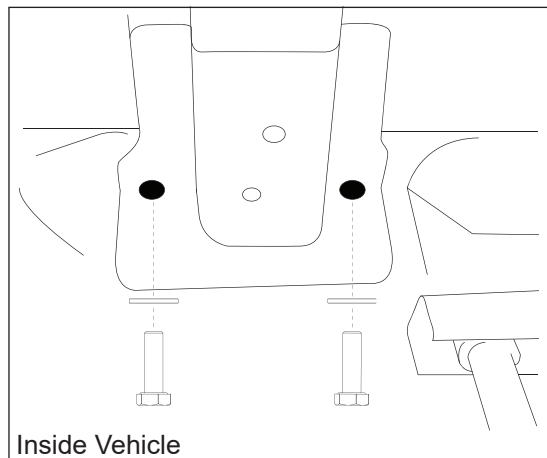


RLTF-LDV1F,M,R

12 For all LDV Models: Push M6x20 Hex Bolts (Item 17) with M6x16x1.6 Flat Washers (Item 13) through the holes drilled in the centre of roof track.

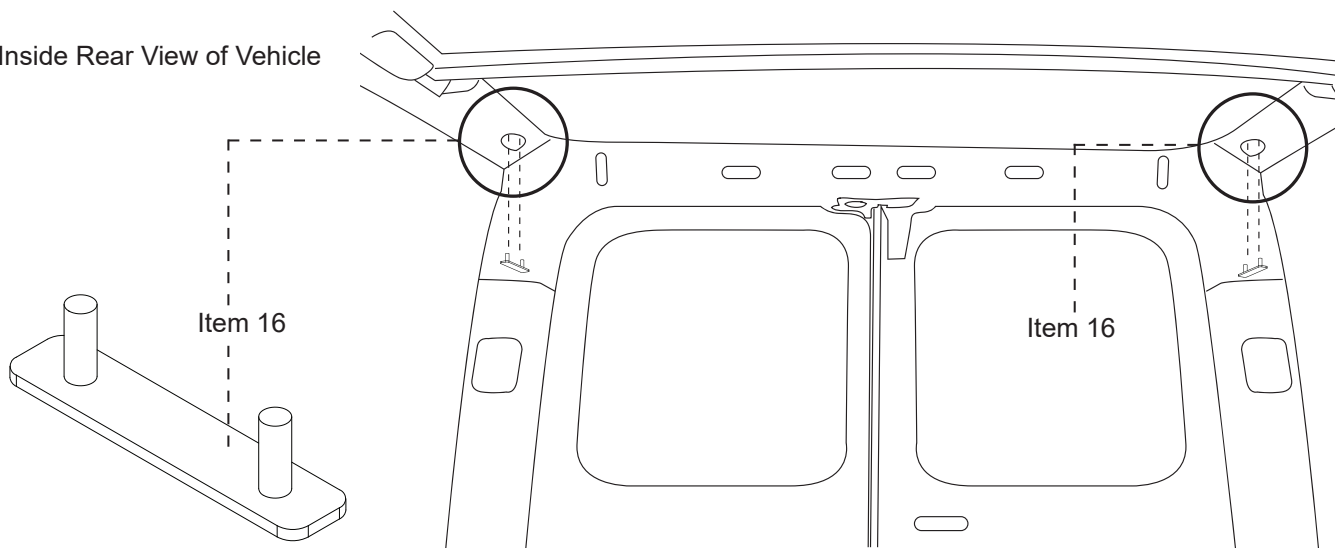


Place Item 17 and 13 through holes drilled in roof. Slide on a bracket from the roof side and a further 2 M6x16x1.6 Washers and fix in place with M6 Nyloc Nut. A 1/4 inch drive 10mm Socket Wrench can be used to tighten the nuts (pictured 11b). Fasten **BOTH** middle plates using **OUTER HOLES** on Item 15.



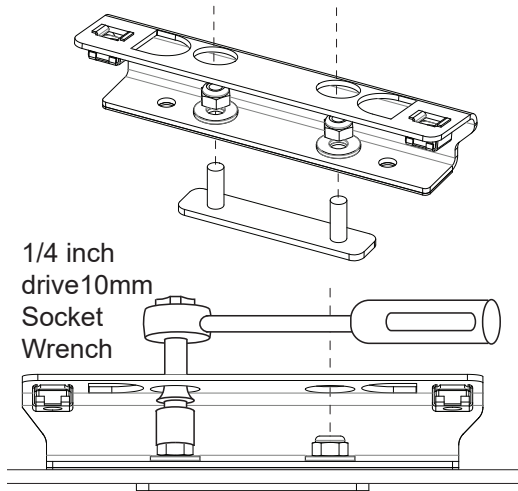
13a For the Low Roof LDV only: Place the M6 Underside Twin Stud Plate (Item 16) as shown. Align with the holes drilled into the Roof toward the rear of the Vehicle.

Inside Rear View of Vehicle



RLTF-LDV1F,M,R

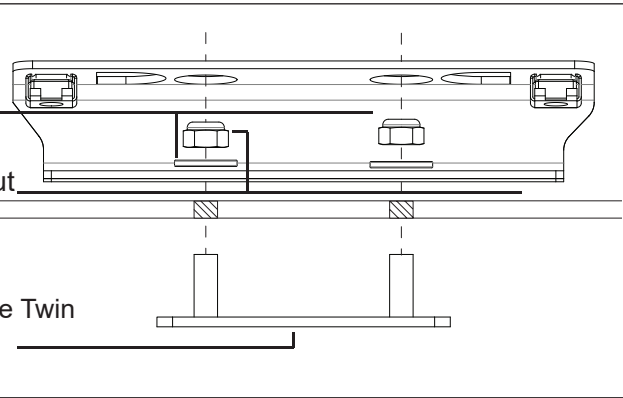
13b Place on a bracket (Item15) and M6x16x1.6 Washers (Item 13). Fix in place with M6 Nyloc Nut (Item12). A 1/4 inch drive10mm Socket Wrench can be used to tighten the nuts. Fasten **BOTH** to 10Nm .



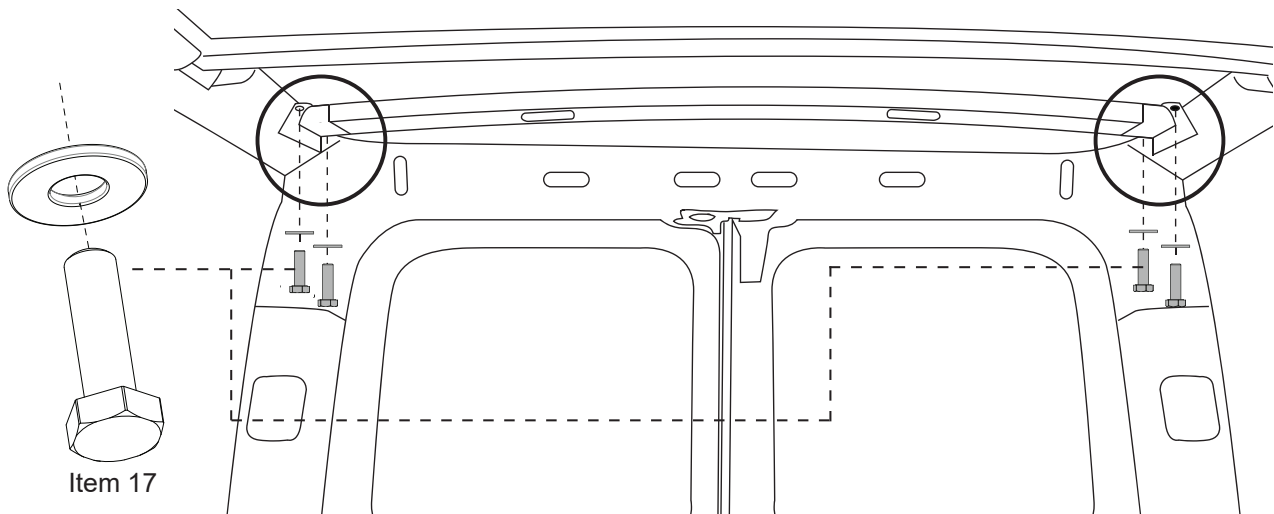
M6x16x1.6 Flat Washer item 13.

M6 Nyloc Nut item12.

M6 Underside Twin Stud Plate item16.

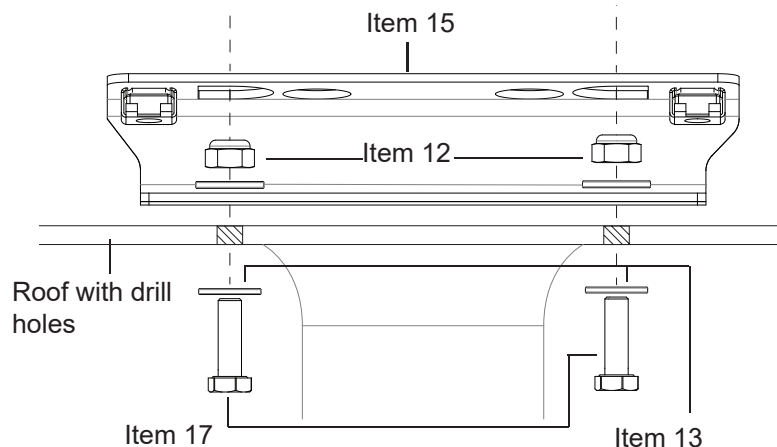
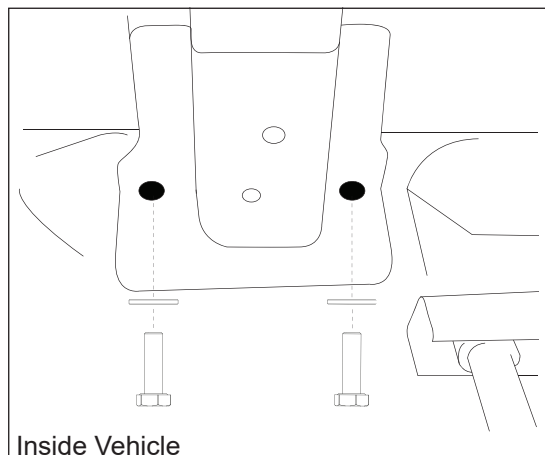


14 For Mid and High Roof LDV Models: Push M6x20 Hex Bolts (Item 17) with M6x16x1.6 Flat Washers (Item 13) through the holes drilled in the front of roof track.



Inside Rear View of Vehicle

Place Item 17 and 13 through holes drilled in roof. Slide on a bracket from the roof side and a further 2 M6x16x1.6 Washers and fix in place with M6 Nyloc Nut. A 1/4 inch drive 10mm Socket Wrench can be used to tighten the nuts (pictured 11b). Fasten **BOTH** middle plates using **OUTER HOLES** on Item 15.



RLTF-LDV1F,M,R

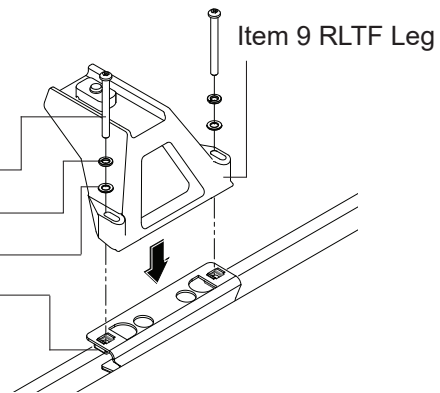
- 15** Place Item 7 onto the bracket. Assemble the spring and flat washers onto the M6 x 40mm security bolts. Insert the leg attachment bolts through the leg and into the M6 cage nuts in the bracket as shown. Repeat for all brackets. Finger tighten.

Item 4 M6x40mm Security Bolt

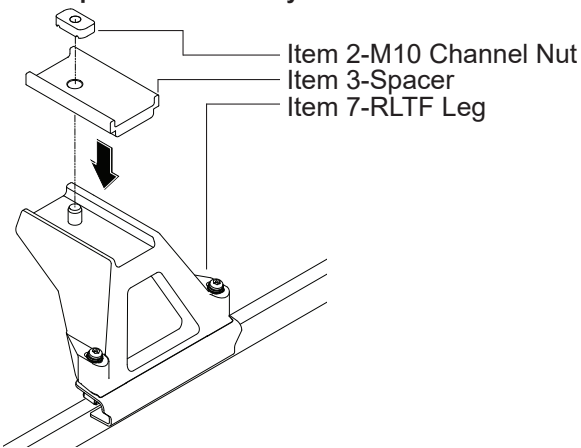
Item 5 M6 Spring Washer

Item 6 M6 x 12.5 Flat Washer S/S

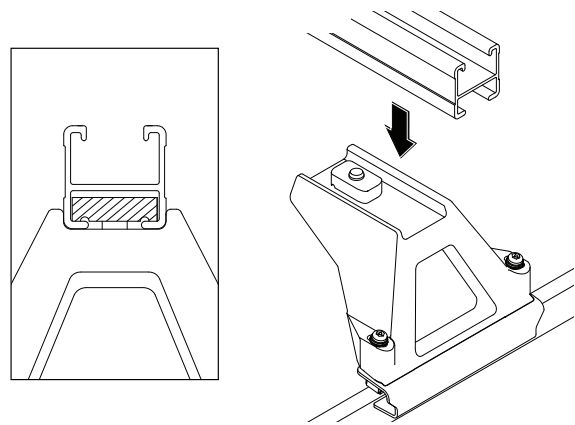
Item 14 M6 Cage Nut



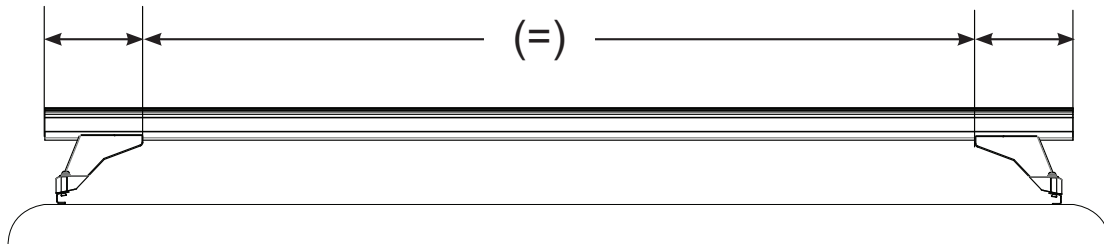
- 16 ASSEMBLING LEG HEIGHT SPACERS (LOW ROOF LDV,FRONT ONLY).**
Undo the channel nut, place one leg height spacer onto the support legs and finger tighten the channel nut. **This step for front end only.**



- 17** Place the Heavy Duty Bar onto the support legs. Push the crossbar attachment bolt up and turn the bolt so that the channel nut is located fully across the crossbar. Finger tighten the crossbar attachment bolts. Check that the channel nut is fully located across the crossbar.



- 17** Tighten all legs to bracket attachment bolts. Ensure the crossbar overhang (A) (B) is equal on both sides, re-adjust if required. Tighten all crossbar attachment bolts to 4-5Nm. **Do not over tighten.**



- 18** Insert the HD Rubber strip (Item 1) into the top of the crossbar, check that the rubber is fully inserted, then fit the end caps (Item 3) into the crossbar ends.

