

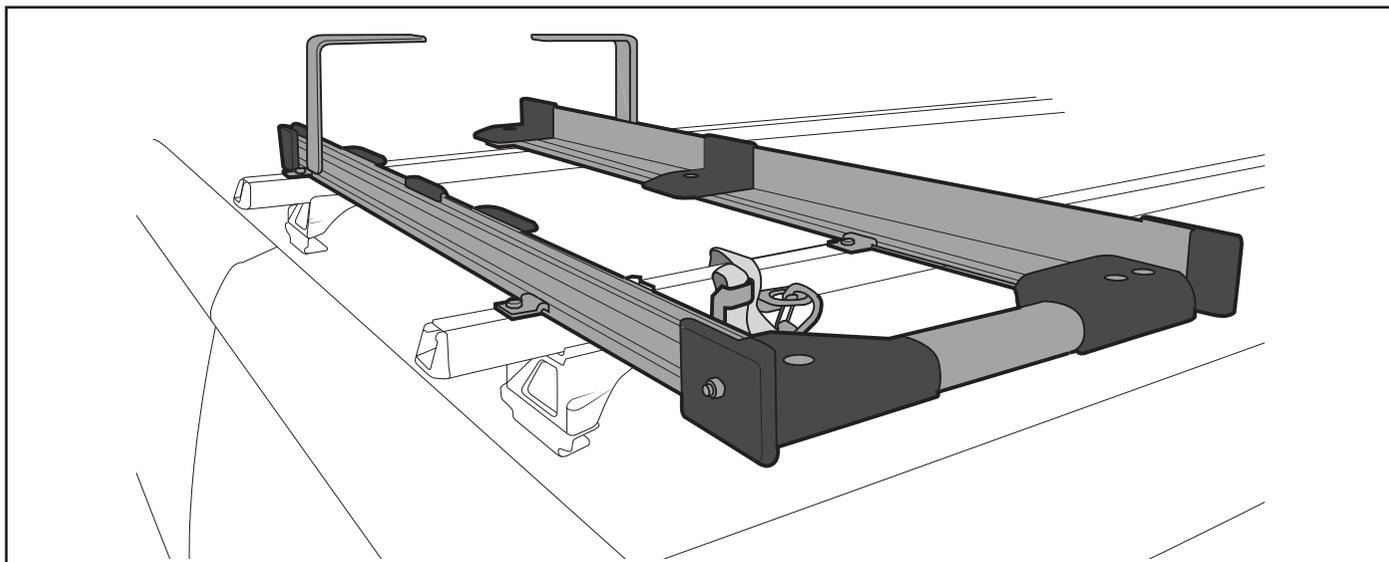


# RHINO-RACK

## MS15-680 Short Multi Slide Step Ladder System

Place these instructions in the vehicle's glove box after installation is complete.

**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 this kit before commencing fitment and report any discrepancies.  
Place these instructions in the vehicle's glove box after installation is complete.



**Care Instruction:** Wash vehicle roof prior to installing Rhino roof racks.

### Important Information

**Maximum carrying capacity: 35kg (including frame and roof bars)**

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

**Use only non-stretch fastening ropes or straps. Sensitivity to cross winds, behaviour in curves and braking.**  
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-resisting loads; special consideration must be taken into account when braking.

**Please remove cross bars when putting vehicle through an automatic car wash.**

**Load Ratings:**

Maximum permissible load is 35kg per ladder rack.

**Note for Dealers and Fitters:**

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

Tab Kit Required (Sold as separate).		Strap Kit Required (Sold as separate).		Hoop Kit Required (Sold as separate).	
Vortex Crossbar	1 x RLTABM6-8	Vortex Crossbar	SLS5	Vortex Crossbar	SUH
Heavy Duty Crossbar	1 x RLTAB-8	Heavy Duty Crossbar	RLS5	Heavy Duty Crossbar	RUH

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Fit Time: 30min  
Issue No: 03  
Issue Date: 01/05/2017

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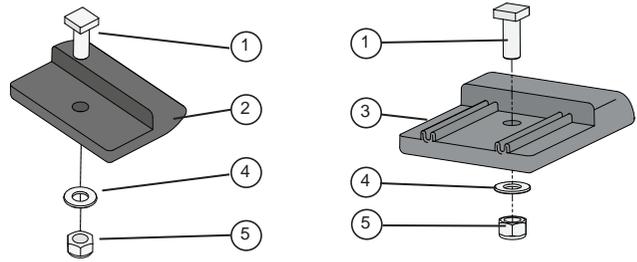


# MS15-680 Short Multi Slide Step Ladder System

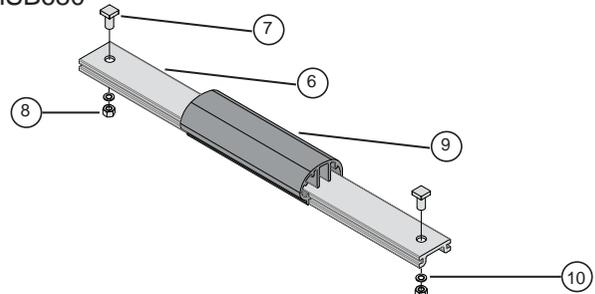
## Parts List:

No.	ID	Description	Qty
<b>A MSGPK Guide Plate Kit</b>			
1	B096	M8 x 20mm T-Bolt	6
2	M068	Front Ladder Rail End Cap	2
3	M069	Side Ladder Rail End Cap	4
4	W020	M8 x 17mm Flat Washer	6
5	N028	M8 Nyloc Nut	6
<b>B MSB680</b>			
6	A197	Bullnose Cross Bar 620mm	1
7	B096	M8 x 20 Steel T Bolt	2
8	N028	M8 Nyloc Nut	2
9	R013-160	PVC Extrusion	1
10	W020	M8 x 17 Flat Washer	2
<b>C Ladder Rail + SUB0620</b>			
11	A198	1.5m Multislide Rail	2
12	M070	Ladder Slide Flat	4
13	N013	M6 Nyloc Nut	4
14	W031	M6 x 16 Flat Washer	4
15	B095	M6 x 15 T Bolt	4
<b>D MSRBK Multislide Rear Bullnose</b>			
16	B095	M6 x 15 T Bolt	4
17	M066	Rear Bullnose - Left	1
18	M067	Rear Bullnose - Right	1
19	N013	M6 Nyloc Nut	4
20	W031	M6 x 16 Flat Washer	4
<b>*E RLS5 Ladder Restrain Strap (sold separately)</b>			
21	B003	M10 x 20 Hex Setscrew	1
22	B019	M8 x 16 Hex Setscrew	1
23	B024	M6 x 50 Hex Bolt Thread	1
24	C033	U-Section Strap Bracket	1
25	C087	Camlock Strap + Snap Hook	1
26	C122	RLS5 Snap Hook Bracket	1
27	N003	M8 Channel Nut	1
28	N013	M6 Nyloc Nut	1
29	N024	M10 Channel Nut	1
30	W021	M10 Shake Proof Washer	1
31	W033	M8 Shake Proof Washer	1

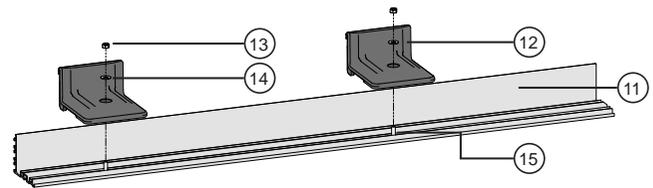
### [A] MSGPK Guide Plate Kit



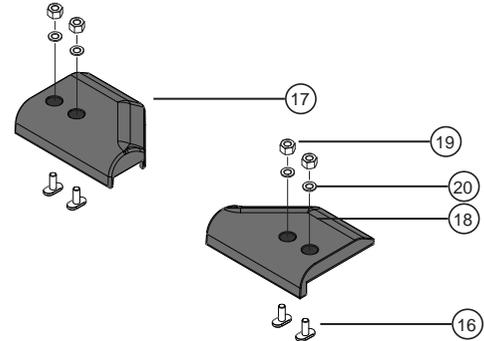
### [B] MSB680



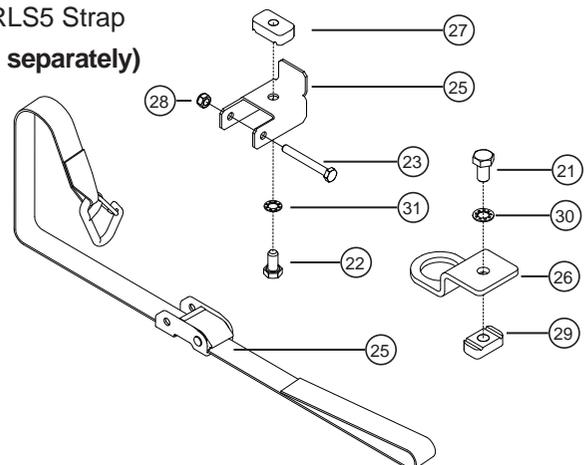
### [C] Ladder Rail + SUB0619



### [D] MSRBK Multislide Rear Bullnose



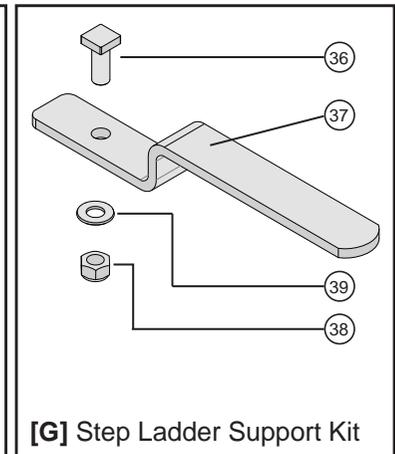
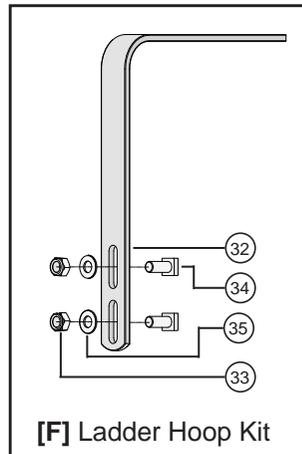
### \*[E] RLS5 Strap (sold separately)





# MS15-680 Short Multi Slide Step Ladder System

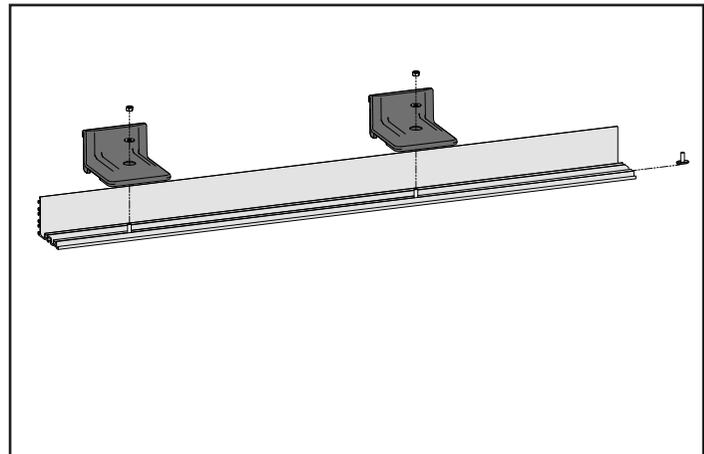
F MSLHK Ladder Hoop Kit			
32	C066	Ladder Hoop Bracket	2
33	N028	M8 Nyloc Nut	4
34	B096	M8 x 20mm T-Bolt	4
35	W020	M8 x 17mm Flat Washer	4
G MSSLS Step Ladder Support Kit			
36	B096	M8 x 20 Steel T Bolt	2
37	C065	Step Ladder Support	2
38	N028	M8 Nyloc Nut	2
39	W020	M8 x 17 Washer	2
40	R710	Instructions	1



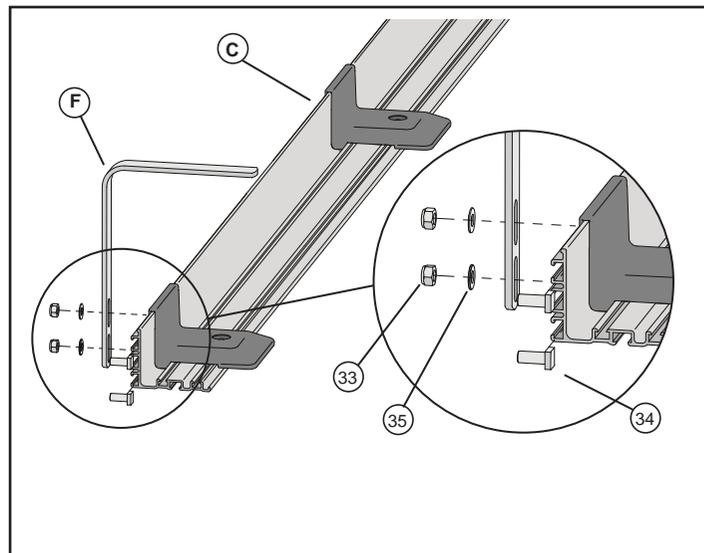
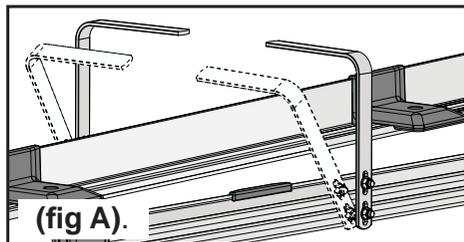
## Assembly

**1** Slide 2 M6 T Bolts onto the ladder rail in the outer slot. Assemble the slides for each rail, 2 x M070, flat washers and nyloc nuts for each. Finger Tighten.

**Note:** Rail assembly must adhere the following sequence so that parts do not have to be removed fit others.



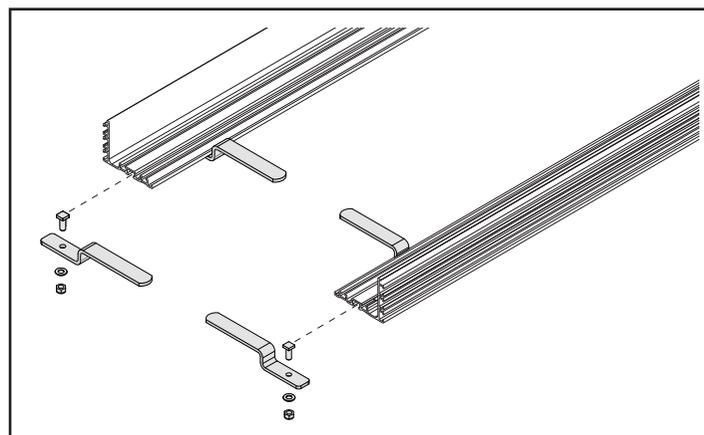
**2** Slide the Ladder Loop Bracket [F] into the top and bottom side channels of Ladder Rail [C]. Make sure the Ladder Hoop Brackets [F] are facing inwards as shown. The angle of the brackets can be adjusted to suit (fig A). Finger tighten only at this stage, adjustments may be required at a later step.



**3** Slide 2 M8 T-Bolts into the underside of the ladder as shown. Attach the step Ladder Support Brackets to these with an M8 washer and nyloc nut.

Position the supports along the rail to support the ladder length being carried.

Finger tighten only at this stage, adjustments may be required at a later step.





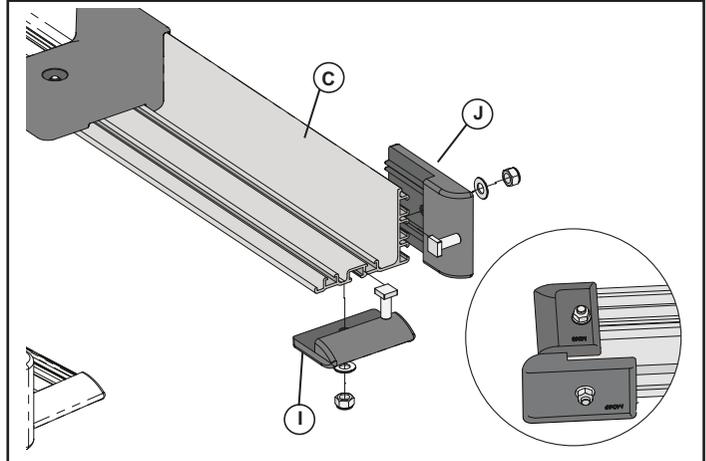
## MS15-680 Short Multi Slide Step Ladder System

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### Front ONLY

Using the M8 x 20 T Bolts, flat washers and nyloc nuts, secure the Front [I] and Side [J] End Caps to each Ladder Rail [C] as shown.

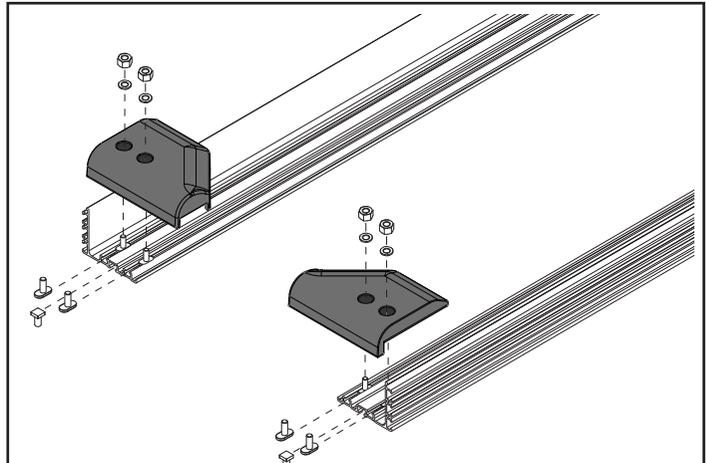
Securely tighten T-Bolts with a 13mm Socket.



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Slide an M6 T Bolt into slots on the base section of the rail as shown. Slide an M8 Steel T Bolt into the underside of each rail.

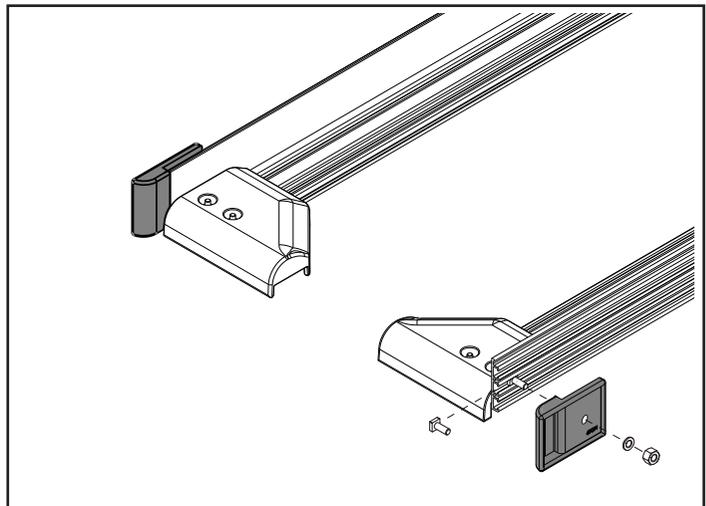
Place the left and right Bullnose over the T Bolts on top of the rail. Ensure the Bullnose is **fully located up against the end of the ladder rail**. Fix in place with M6 washers and nyloc nuts. Tighten with a 10mm socket.



6

Using the M8 x 20 T Bolts, flat washers and nyloc nuts, fix the Side End Caps to each Ladder Rail as shown.

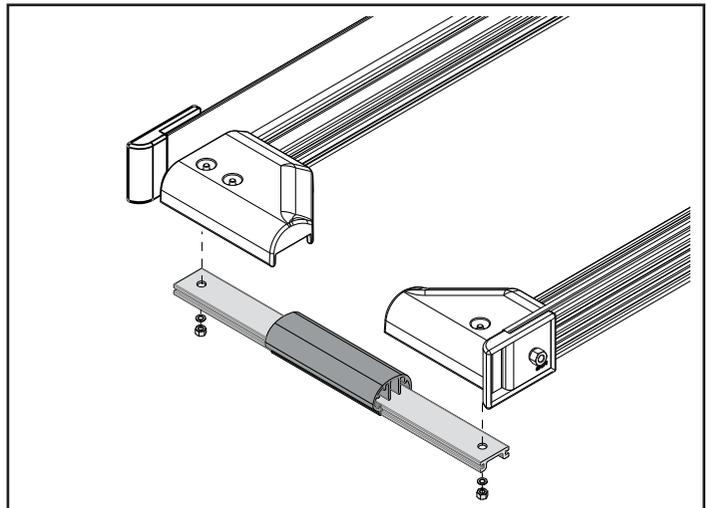
Securely tighten T-Bolts with a 13mm Socket.



7

Attach the MSB620 Bullnose Crossbar to the 2 M8 x 20 Steel T Bolts, installed in step 5.

Secure the crossbar with M8 washers and nyloc nuts. Tighten with a 13mm socket wrench.





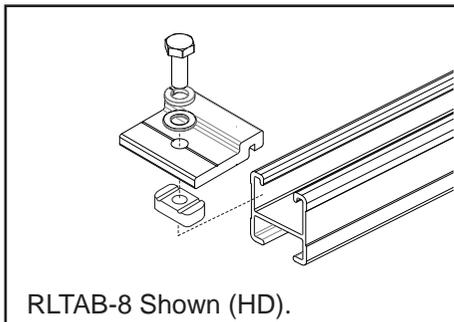
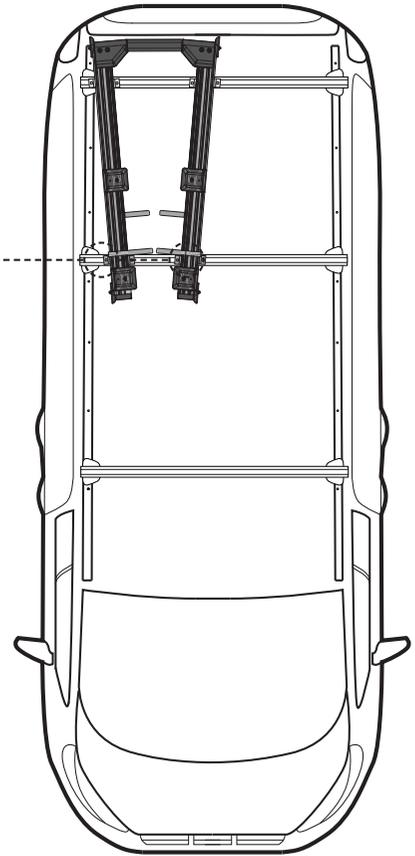
## MS15-680 Short Multi Slide Step Ladder System

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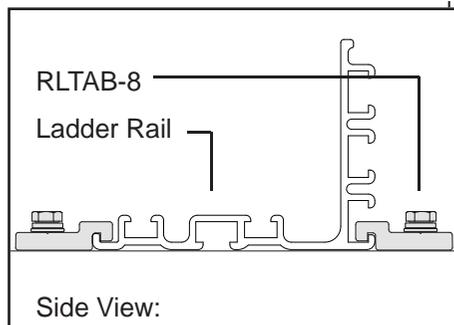
**Note: RLTAB-8 (HD) or RLTABM6-8 (VA) required (sold as separate)**

Position the MS15-680 Multi Slide Ladder Rack onto the vehicle's crossbars in the desired position. Be sure to allow clearance for the rear door of the vehicle.

Slide 4 channel nuts into the crossbars at the front and rear of the ladder rack. The assemblies provided in the chosen RLTAB kit will fix to these. The Tabs will lock onto the outer and inner edge of each ladder rail. When in position, tighten in place with a socket wrench.



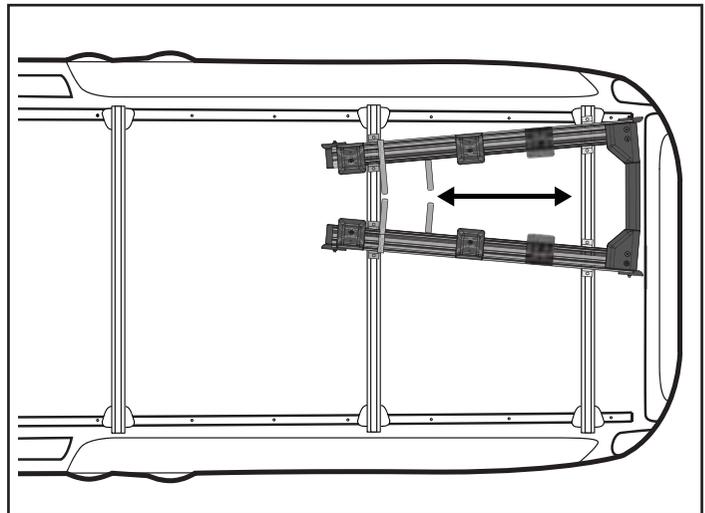
RLTAB-8 Shown (HD).



9

Adjust the positioning of the ladder slides, supports and hoops as required. Tighten in place with a 10 and 13mm socket wrench.

Check all fixtures are secure before use.

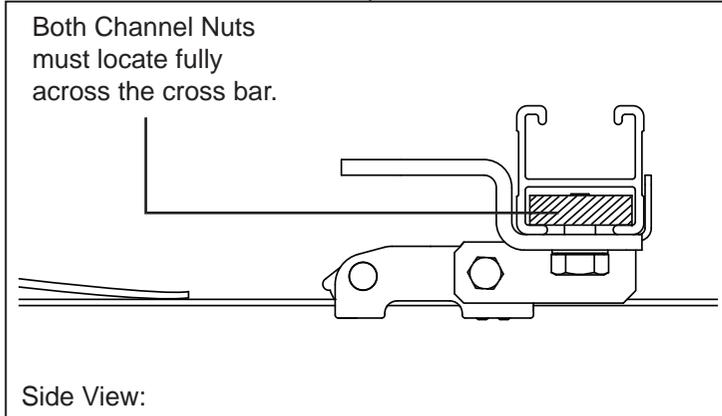
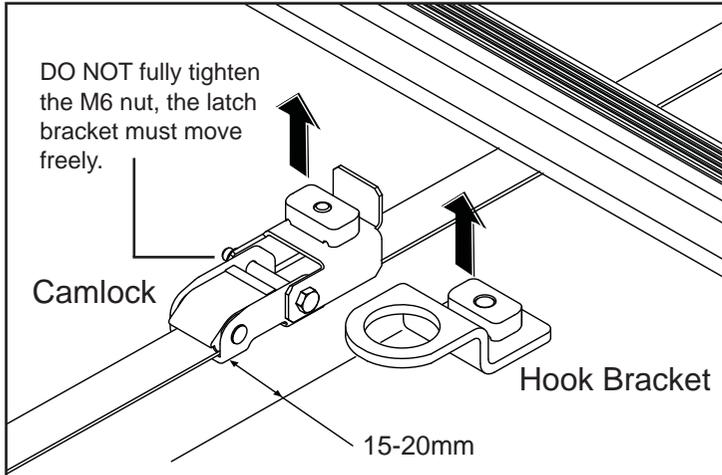




## MS15-680 Short Multi Slide Step Ladder System

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**RLS5 Ladder Restrain Strap (Recommended Fitment):** Insert the camlock and hook bracket to the underside of the rear crossbar 15-20mm apart. Push the attachment bolts up and turn each bolt so that the channel nut is fully located across the cross bar as shown below. Position the Camlock and Hook bracket to suit the ladder. Tighten the bolts.



Wrap the snap hook end of the strap around the ladder rungs and crossbar ensuring the safety latch is fully closed. Pull strap to tighten. Check ladder is secure. To release tension, press the camlock latch and pull the strap back through the camlock, unhook the snap hook. When travelling without a ladder, locate the snap hook onto the hook bracket.

