



Vehicle Model: Tucson

Model Year 2022~

Part No. CWF21 AU101

Language English

Rev. Date 6/11/2024

Accessory: Crossbars

Difficulty: (A)

Note: Difficulty stated above reflects the minimum level of expertise required to install the accessory:

- (A) Customer  
(B) Dealer Technician  
(C) Master Technician or Specialist

## Electronic Installation Instructions



If this is a printed copy of the installation instructions, ensure you have the latest revision by scanning the QR code or by entering the website address listed below before beginning installation. Use the latest revision date as noted by "Rev. Date" above.

www.hyundaiaccessories.com/admin\_media\_uploads/installationSheets/cwf21\_au101.pdf

## Application Notes

**Only applies to models equipped with Flush type roof rails, not Raised / Bridge type roof rails**

**NOTICE:** Improperly installed Crossbars may increase windnoise in the vehicle cabin.  
To avoid, ensure that the Crossbars are installed in the correct position, per this instruction.

## Instructional Symbols / Definitions



Denotes warnings that may lead to serious physical injury or vehicle damage



Denotes quality processes to be checked prior to moving to the next step

Denotes personal protective equipment (PPEs) that may be required for a step. Examples of safety equipment icons noted below:



Denotes cautions to be taken to avoid physical injury or electronic component damage



Denotes specific tools that are necessary to complete a step



Glasses



Gloves



Denotes cautions to be taken to avoid vehicle and component damage



Denotes important information to be reviewed during the step

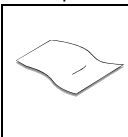


Mask



Hearing Protection

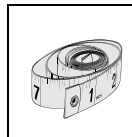
## Basic Required Tools



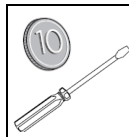
Clean Cloth



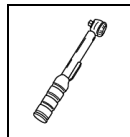
Step Ladder



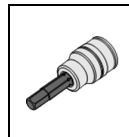
Tape Measure



Coin or Flat-Head Screwdriver



Torque Wrench



5mm Allen Socket

## Part Weight (Gross)

10.60 lbs

4.80 kg

## FMVSS 110 Compliance Information

All dealers must determine if the Net weight they have added in the form of: all options or accessories, when added to the weight of all Port/Dealer Installed options or accessories, exceeds the lesser of 1.5% of GVWR or 100 lbs. If the additional weight does exceed the lesser of the indicated thresholds, a "Load Carrying Capacity Reduced" label must be installed. A black, fine-point, indelible marker must be used to write by hand onto the label, the reduced carrying capacity in kilograms or pounds, which is the total weight of all added options and accessories.

Load Label Part Number: NP070 - 09003



**REGULARLY CHECK THE TIGHTNESS BY PERFORMING A TUG ON CROSSBARS.THEY SHOULD NOT MOVE.**

If crossbars move, see step 3~6 for proper tightening. Incorrect clamp tightness can cause crossbar separation from vehicle resulting in product failure and vehicle damage. Serious physical injury may occur.



Loads must be evenly distributed and secured. Failure to achieve the distribution requirements may result in loss of vehicle control, severe personal injury, or death.



Any weight carried on the vehicle will adversely affect its handling, particularly in cornering or in a cross wind and the vehicle should therefore be driven with increased caution.



Only use NON-STRETCH tie down straps. Use of stretch elastic tie downs may cause loss of load, potential serious injury, and vehicle damage.



**Never exceed 165 LBS (75 KG) on top of crossbars.** Failure to adhere to load limits may result in loss of vehicle control, severe personal injury, or death.

## Notes to the Installer:

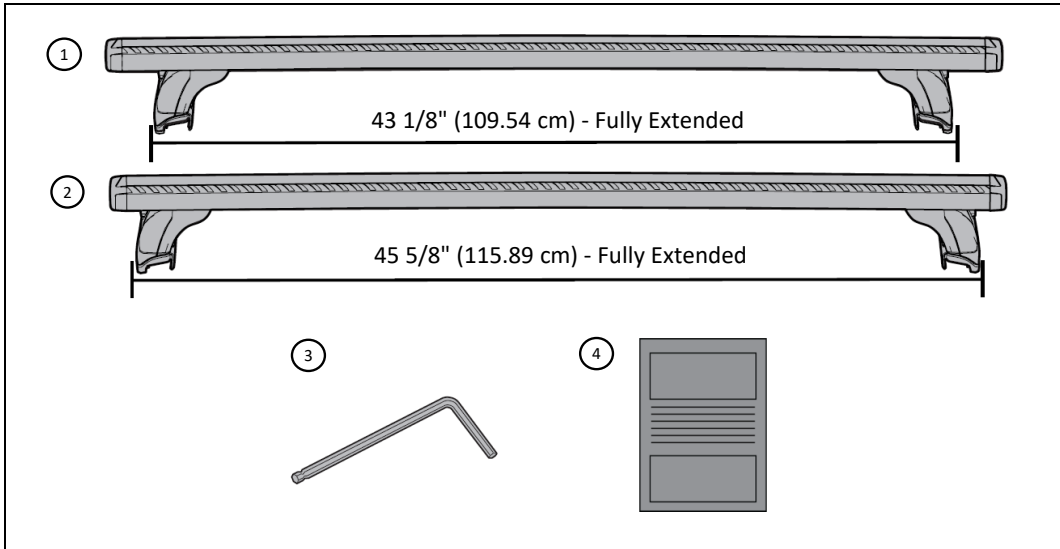
- 1) Read the entire Installation Instructions prior to beginning the installation of this accessory.
- 2) If applicable, scan the barcode label located on the accessory part or packaging prior to installing, to register the part. If this accessory is installed as a replacement, register the removal of the old part before registering the new part. Old and new parts will have different barcode data, and the old registration cannot be reused.
- 3) Make sure the vehicle is completely clean and dry in the area(s) the part is to be installed.
- 4) Ensure the vehicle is properly protected in the area(s) that the accessory is to be installed.
- 5) NEVER place tools on painted surfaces, seating surfaces, dash pad, console or floor carpet/mats.
- 6) Always wear appropriate personal protective equipment, including gloves, safety glasses, etc., when required.

**WARNING**

- Never exceed 165 lbs (75 kg) on top of crossbars.
- Evenly distribute the load
- Ensure the crossbars are secure.
- Always check the height of the vehicle when crossbars and attachments are installed before driving under tunnels or parking structures with low bridges.
- Do not open the vehicle's panoramic roof with crossbars and attachments installed.
- Precaution must be taken when operating vehicle's sunroof with crossbars and attachments installed.

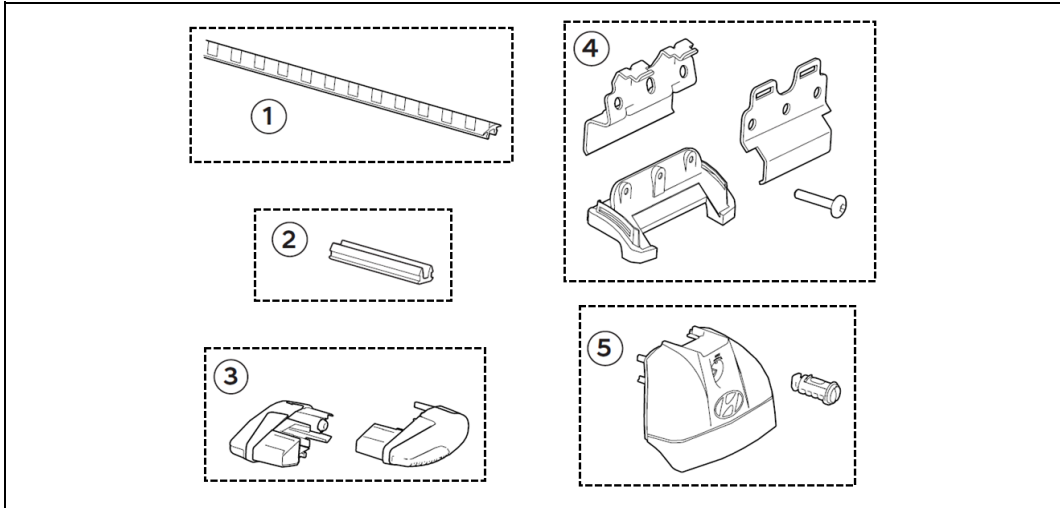
**Failure to adhere to load limits and distribution requirements may result in loss of vehicle control, severe personal injury, or death.**

Kit Overview




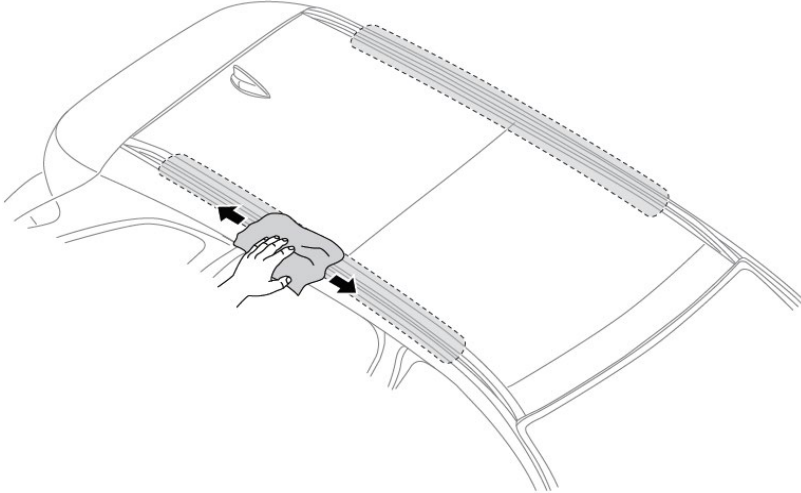


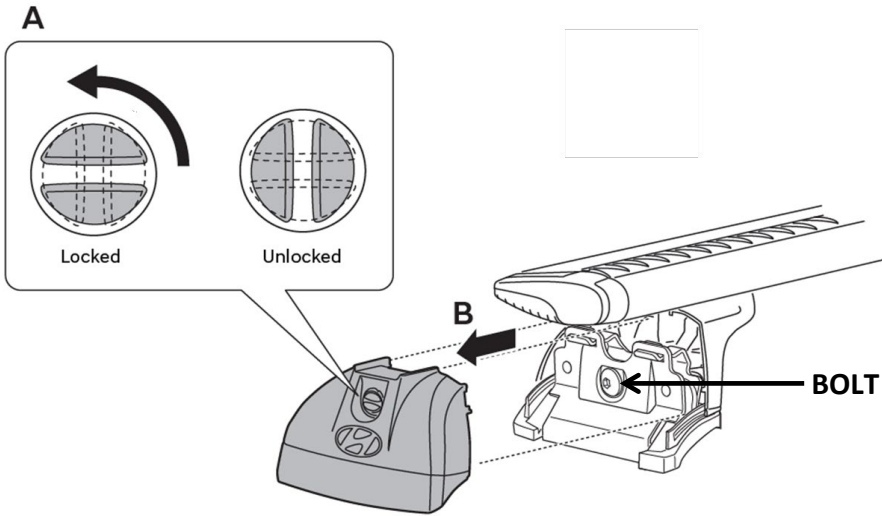
No.	Qty	Description
1	1	Rear Crossbar
2	1	Front Crossbar
3	1	Wrench
4	1	Quick Reference Guide


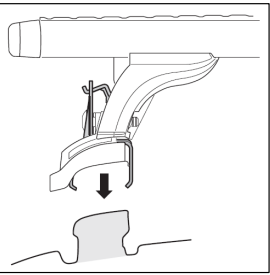
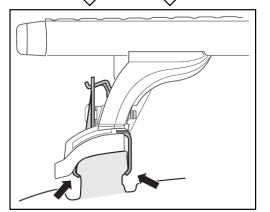
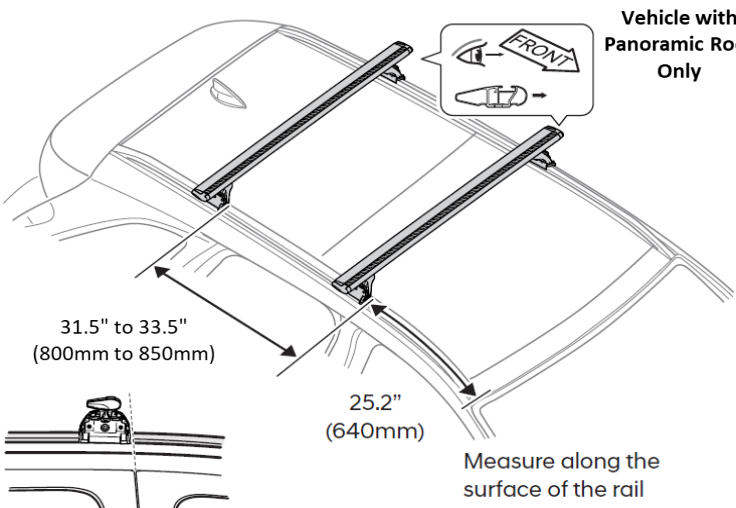

Service Part Overview


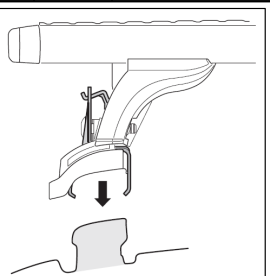
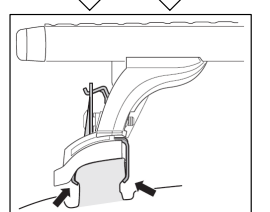
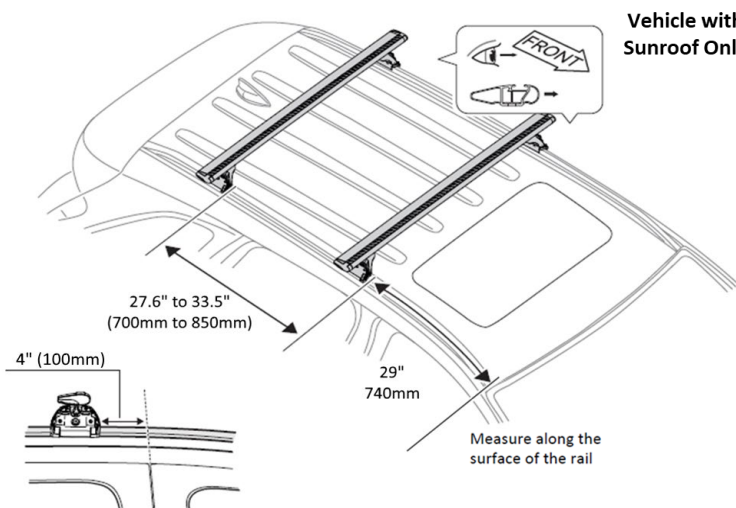




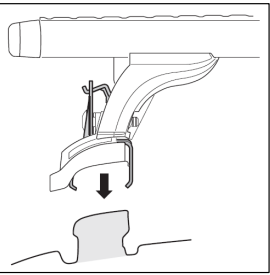
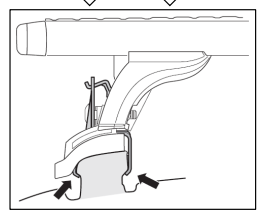
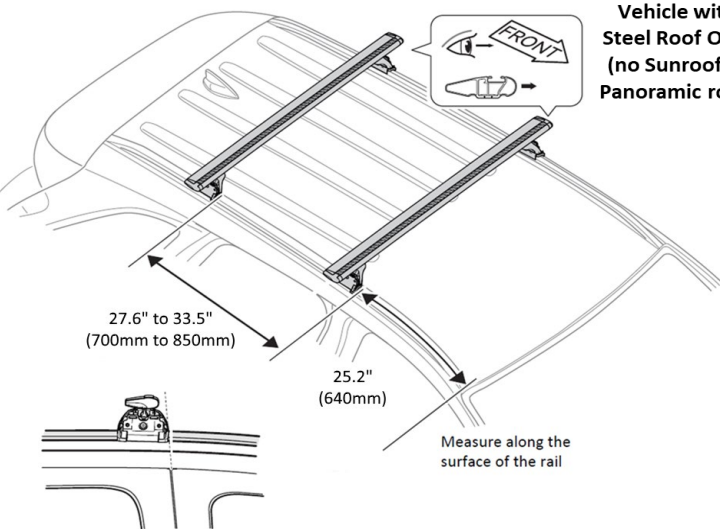

No.	Qty	Service Part Number	Description
1	1	CWF21 AU050	Top Cover Strip
2	1	CWF21 AU060	Lower Cover Strip Set
3	1	CWF21 AU070	End Cap Kit (Left & Right)


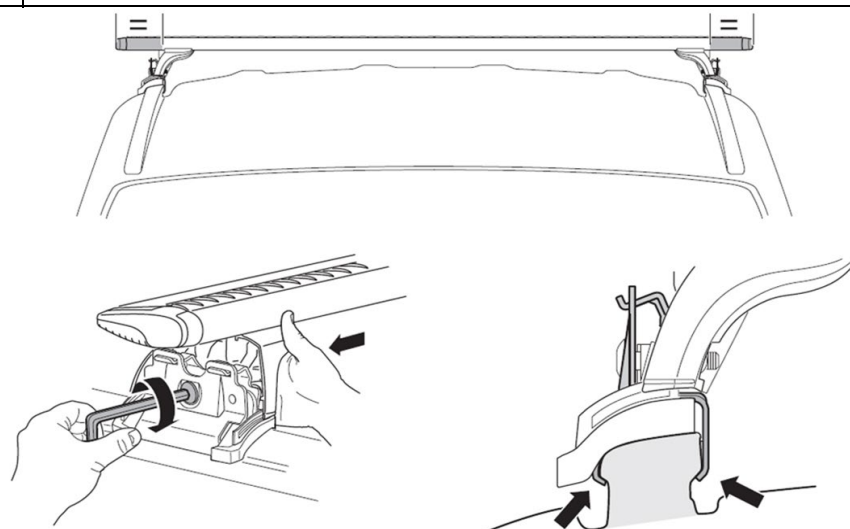

No.	Qty	Service Part Number	Description
4	1	CWF21 AU020	Attachment Hardware Set
5	1	CWF21 AU030	Foot Cover


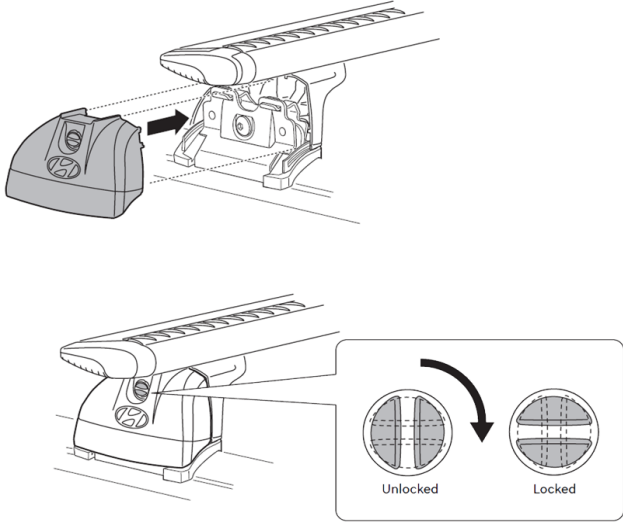


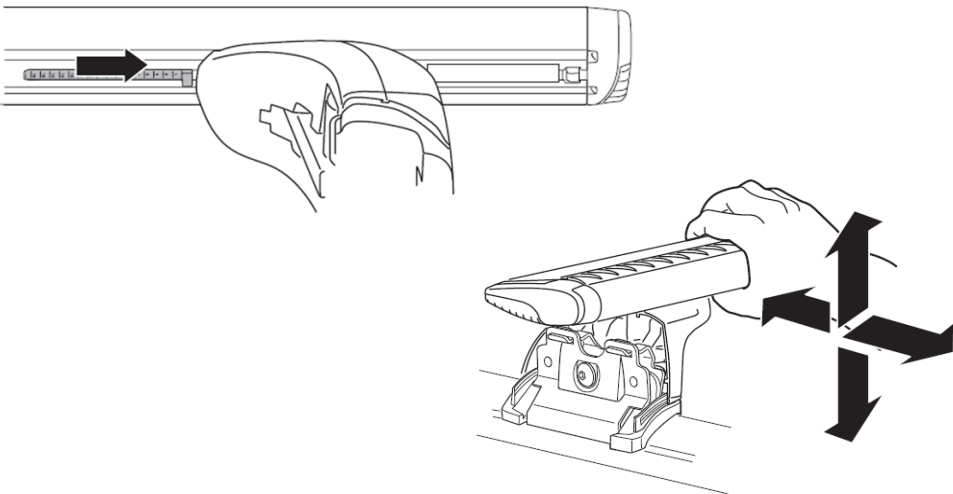

1		Step Ladder and Clean Cloth
		
NOTE		A. Clean the side roof rails in the areas shown.
		Do NOT scratch or damage the vehicle.
2		Wrench, Coin or Flat-Head Screwdriver
		
NOTE		<p>A. Unlock all four (4) plastic cylinders by turning them counterclockwise as shown.</p> <p>B. Carefully remove all four (4) foot covers as shown.</p> <p>C. Set the four (4) foot covers aside in a safe location.</p> <p>D. Loosen all four (4) bolts three (3) full turns using the provided wrench.</p> <p>E. If vehicle is equipped with a <u>Sunroof</u>, skip to step 4 and if vehicle is equipped with a <u>Steel Roof</u> (no Sunroof or Panoramic Roof), skip to step 5.</p>

3		Step Ladder and Tape Measure
<div style="display: flex; justify-content: space-between;"> <div style="width: 30%;">   </div> <div style="width: 65%;"> <p style="text-align: right;"><b>Vehicle with Panoramic Roof Only</b></p>  <p>31.5" to 33.5" (800mm to 850mm)</p> <p>25.2" (640mm)</p> <p>Measure along the surface of the rail</p> </div> </div>		
<div style="display: flex;"> <div style="width: 5%; text-align: center; font-weight: bold;">N O T E</div> <div style="width: 95%;"> <p>A. Locate the front crossbar.</p> <p>B. Verify the rounded profile of the crossbar faces forward for proper orientation as shown.</p> <p>C. Carefully place the front crossbar onto the roof side rails. Ensure the crossbar brackets wrap around the roof rails as shown.</p> <p>D. Position the front crossbars' foot front rubber edge 25.2" (640mm) from the forwardmost edge of the roof side rail on both sides of the vehicle as shown.</p> <p><b>For Reference:</b> The front crossbar is positioned inline with the vehicle's B-pillar (door edge).</p> <p>E. Locate the rear crossbar.</p> <p>F. Verify the rounded profile of the crossbar faces forward for proper orientation as shown.</p> <p>G. Carefully place the rear crossbar onto the roof side rails. Ensure the crossbar brackets wrap around the roof rails as shown.</p> <p>H. Position the rear crossbars' foot front rubber edge between 31.5" (800mm) <u>minimum</u> and 33.5" (850mm) <u>maximum</u> from the edge of the front crossbars' foot forward rubber edge on both sides of the vehicle as shown.</p> <p><b>PIO Technicians Only:</b> Position the rear crossbars' foot front rubber edge 31.5" (800mm) from the edge of the front crossbars' foot forward rubber edge on both sides of the vehicle.</p> <p>I. Skip to step 6.</p> </div> </div>		
<div style="display: flex; align-items: center;">  <div style="margin-left: 10px;">Do NOT scratch or damage the vehicle.</div> </div>		

4		Step Ladder and Tape Measure
<div style="display: flex; justify-content: space-between;"> <div style="width: 30%;">   </div> <div style="width: 65%;"> <p style="text-align: right;"><b>Vehicle with Sunroof Only</b></p>  <p>27.6" to 33.5" (700mm to 850mm)</p> <p>4" (100mm)</p> <p>29" 740mm</p> <p>Measure along the surface of the rail</p> </div> </div>		
<div style="display: flex;"> <div style="width: 5%; text-align: center; font-weight: bold;">N O T E</div> <div style="width: 95%;"> <p>A. Locate the front crossbar.</p> <p>B. Verify the rounded profile of the crossbar faces forward for proper orientation as shown.</p> <p>C. Carefully place the front crossbar onto the roof side rails. Ensure the crossbar brackets wrap around the roof rails as shown.</p> <p>D. Position the front crossbars' foot front rubber edge 29" (740mm) from the forwardmost edge of the roof side rail on both sides of the vehicle as shown.</p> <p><b>For Reference:</b> The front crossbar is positioned 4" (100mm) rearward of the vehicle's B-pillar (door edge).</p> <p>E. Locate the rear crossbar.</p> <p>F. Verify the rounded profile of the crossbar faces forward for proper orientation as shown.</p> <p>G. Carefully place the rear crossbar onto the roof side rails. Ensure the crossbar brackets wrap around the roof rails as shown.</p> <p>H. Position the rear crossbars' foot front rubber edge between 27.6" (700mm) <u>minimum</u> and 33.5" (850mm) <u>maximum</u> from the edge of the front crossbars' foot forward rubber edge on both sides of the vehicle as shown.</p> <p><b>CAUTION:</b> Placing the rear crossbar beyond 29.5" (750mm) from the front crossbar may affect vehicle antenna reception.</p> <p><b>PIO Technicians Only:</b> Position the rear crossbars' foot front rubber edge 29.5" (750mm) from the edge of the front crossbars' foot forward rubber edge on both sides of the vehicle.</p> <p>I. Skip to step 6.</p> </div> </div>		
<div style="display: flex; align-items: center;">  <div style="margin-left: 10px;">Do NOT scratch or damage the vehicle.</div> </div>		





5		Step Ladder and Tape Measure
<div style="display: flex; justify-content: space-between; align-items: flex-start;"> <div style="width: 30%;">   </div> <div style="width: 65%;">  <p style="text-align: right;"><b>Vehicle with Steel Roof Only (no Sunroof or Panoramic roof)</b></p> </div> </div>		
NOTE	<p>A. Locate the front crossbar.</p> <p>B. Verify the rounded profile of the crossbar faces forward for proper orientation as shown.</p> <p>C. Carefully place the front crossbar onto the roof side rails. Ensure the crossbar brackets wrap around the roof rails as shown.</p> <p>D. Position the front crossbars' foot front rubber edge 25.2" (640mm) from the forwardmost edge of the roof side rail on both sides of the vehicle as shown.</p> <p><b>For Reference:</b> The front crossbar is positioned inline with the vehicle's B-pillar (door edge).</p> <p>E. Locate the rear crossbar.</p> <p>F. Verify the rounded profile of the crossbar faces forward for proper orientation as shown.</p> <p>G. Carefully place the rear crossbar onto the roof side rails. Ensure the crossbar brackets wrap around the roof rails as shown.</p> <p>H. Position the rear crossbars' foot front rubber edge between 27.6" (700mm) <u>minimum</u> and 33.5" (850mm) <u>maximum</u> from the edge of the front crossbars' foot forward rubber edge on both sides of the vehicle as shown.</p> <p><b>PIO Technicians Only:</b> Position the rear crossbars' foot front rubber edge 29.5" (750mm) from the edge of the front crossbars' foot forward rubber edge on both sides of the vehicle.</p>	
	Do NOT scratch or damage the vehicle.	

6		Step Ladder, Tape Measure, Wrench, 5mm Allen Wrench and Torque Wrench
		
NOTE	<p>A. Using a tape measure, confirm the load carriers protrusion on the left and right sides are equal on both crossbars as shown.</p> <p>B. Using the provided wrench, snug all four (4) bolts as shown.</p> <p>C. Using a 5mm Allen wrench and torque wrench, torque the driver's side front and rear crossbar bolts to: <b>3.00 N.m (30.60 kgf-cm, 26.55 lbf-in)</b>.</p> <p>D. Torque the passenger's side front and rear crossbar bolts to: <b>6.00 N.m (61.20 kgf-cm, 53.00 lbf-in)</b>. Repeat on the driver's side.</p> <p>E. Ensure all four (4) bolts are properly torqued and that the brackets are properly seated onto the roof side rails as shown.</p>	
	Do NOT over-torque the bolts.	

7		Coin or Flat-Head Screwdriver
		
NOTE		<p>A. Carefully align and reinstall all four (4) foot covers. Turn the plastic cylinders clockwise as shown to lock the foot covers in place.  <b>NOTE:</b> Ensure the foot covers are properly seated and locked.</p>
		<p>Do NOT scratch or damage the vehicle.</p>
8		Step Ladder
		
NOTE		<p>A. Slide the plastic scales towards the feet as shown above.  B. Grab each crossbar and move it up, forward and side to side ensuring they are securely fastened to the side roof rails. <b>No movement should occur.</b>  C. Place the provided wrench and quick reference guide into the vehicle's glove box.</p>
		<p>Always verify vehicle height with crossbars installed and load for parking lots and low height vehicle entry / exits.</p>

Genuine Accessories

Visual Check

Item to be Checked		Result
	Ensure all four (4) bolts are torqued properly.	All four (4) bolts are properly torqued.
	Ensure all four (4) foot covers are fully seated and locked in position.	All four (4) foot covers are properly seated and locked.
	Ensure the crossbars are in a locked position and do not jiggle or rattle. Firmly grab crossbar and wiggle in forward / rearward and upward / downward motions. No movement should occur.	Crossbars are secure.
	Ensure that the crossbars positions are correct. See step 3-5.	Crossbar positions are correct.