WK2 ROOF RACK

INSTALL INSTRUCTIONS

REVISION M

25 NOVEMBER 2024

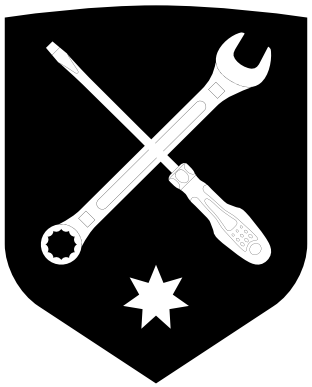


TABLE OF CONTENTS

	PAGE
PRE-INSTALLATION	*3*
WK2 ROOF RACK (Mounting Rails)	4
ROOF RACK (2x Planks) [1146mm]	4
ROOF RACK (2x Half-Planks) [1146mm]	5
ROOF RACK (Platform Frame) [6 Plank]	5
WK2 ROOF RACK (Aero)	6
ROOF RACK (4x Plank End-Caps)	6
ROOF RACK (4x Half-Plank End-Caps)	6
INSTALL START --> WK2 ROOF RACK	*7*
INSTALL START --> WK2 ROOF RACK (Aero)	*10*
INSTALL START --> HALF-PLANKS	*16*
TROUBLESHOOTING	*17*
MAINTENANCE & SUPPORT	*18*

PRODUCT INFORMATION

MODULAR DESIGN + GROUNDBREAKING CONFIGURABILITY

The modular nature of Chief Products' Roof Racks and Roof Rack Accessories, gives the user a vast amount of options depending on the application required. T-Nuts, Tie-Down Points, and Adjustable Load Rails can be quickly and easily repositioned as needed.

EXTENSIVE MOUNTING LOCATIONS

Chief Products' Roof Racks and Roof Rack Accessories, provide extensive mounting locations that can be used to easily mount most aftermarket accessories (Recovery Boards, Bike Holders, Jerry Can Holders, Kayaks, etc.).

IMPORTANT

PROPER INSTALLATION IS ESSENTIAL TO THE PERFORMANCE OF THIS PRODUCT.

ONLY INSTALL THIS PRODUCT ON THE DESIGNATED VEHICLE(S).

ONLY USE THE PROVIDED HARDWARE FOR INSTALLATION.

CHECK PRODUCT REGULARLY FOR DAMAGE. REPLACE IMMEDIATELY AT FIRST SIGN OF DAMAGE.

CHECK FASTENER TIGHTNESS REGULARLY AND TIGHTEN IF REQUIRED.

ATTENTION

WHEN PROPERLY INSTALLED THIS ROOF RACK DELIVERS INDEPENDENTLY TESTED LOAD RATINGS OF 150KG (Dynamic**) & 600KG (**Static**)**. Testing results are certified to comply with Australian Standard (AS 1235-2000) as well as international standards (ISO / PAS 11154 : 2009:2006) and (DIN 75302/02: 1991).

FOR MAXIMUM SAFETY DO NOT EXCEED MANUFACTURERS ROOF WEIGHT LIMITS. Our load ratings represent the maximum mechanical forces this roof rack system can withstand before failure. Our load ratings do not address vehicle safety during high-speed manoeuvres, or changes to vehicle dynamics caused by a higher centre of gravity.

FOR MAXIMUM SAFETY, LOADS SHOULD BE EVENLY DISTRIBUTED AND PROPERLY SECURED TO AVOID SHIFTING DURING TRANSPORT. Before using your roof rack, it is important to familiarise yourself with the proper load securing techniques and be constantly safety oriented. Please note, all of our load ratings are based on an evenly distributed load.

BEFORE STARTING INSTALLATION

CHECK ALL PARTS HAVE ARRIVED.

CHECK REQUIRED TOOLS.

HELPFUL TIPS

LEFT & RIGHT SIDES ARE DEFINED FROM THE DRIVER'S POSITION.

DO NOT OVER-TIGHTEN FASTENERS.

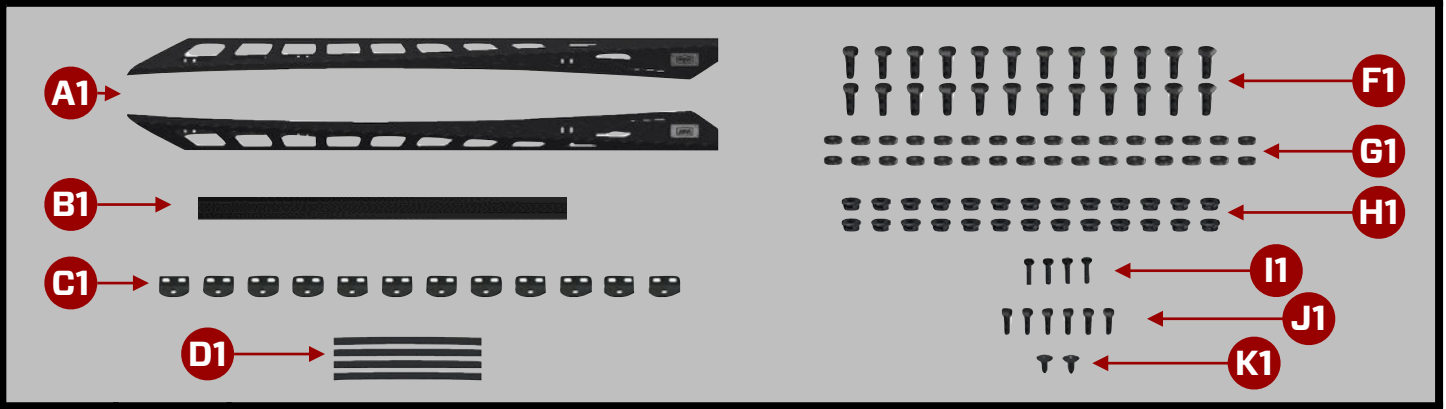
FINAL TIGHTENING OF FASTENERS is best done after fitting all components into place and gradually tightening to achieve the best fit.

ANTI-SEIZE will prevent fasteners from becoming seized and ensure ease of disassembly in future.

PHOTOS ARE REPRESENTATIVE ONLY. Photos may show prototype parts, may be taken from multiple vehicles, and may be different than your vehicle. Due to global vehicle variances, model year changes and differing model options (engine, options, etc.) it is impossible to provide photos that are 100% accurate for all customers.

WK2 ROOF RACK (Mounting Rails)

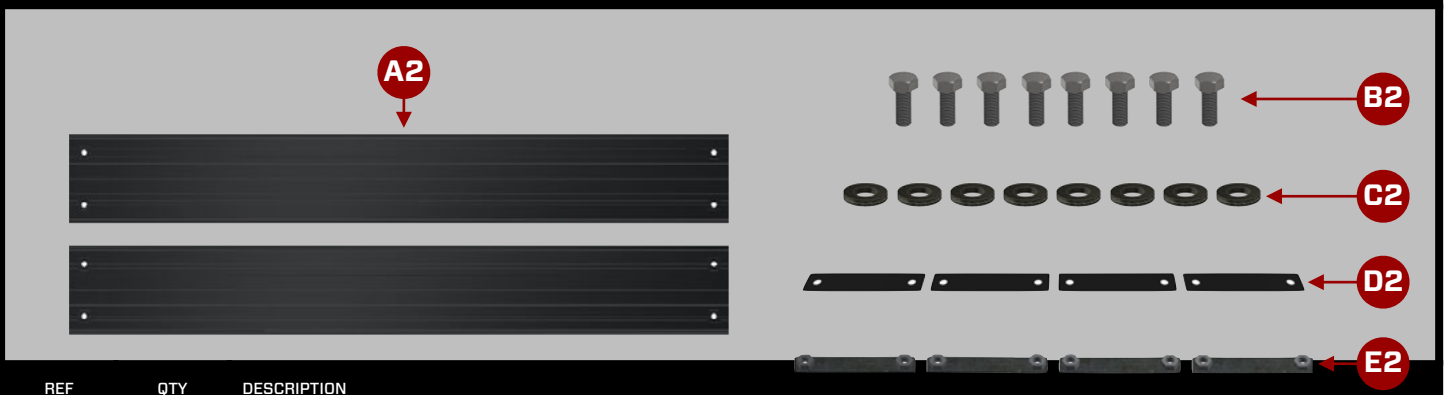
BOX



REF	QTY	DESCRIPTION
A1	*2*	Mounting Rail (Left + Right)
B1	*1*	Stealth Air Dam
C1	*12*	Mounting Rail - Angle Bracket
D1	*4*	EPDM Rubber U-Channel Strip
F1	*24*	M6 x 16mm (1.0) — BOLT (HEX)(CL70) — [SS316][BLACK]
G1	*32*	M6 — WASHER (Wedge-Lock + Extended) — [SS316][BLACK]
H1	*24*	M6 (1.0) — NUT (FLANGE)(CL70) — [SS316][BLACK]
I1	*4*	M6 x 25mm (1.0) TORX (BUTTON HEAD)(CL8.8) — [ALLOY STEEL][BLACK]
J1	*4*	M6 x 20mm (1.0) — BOLT (HEX)(CL70) — [SS316][BLACK]
K1	*2*	M8 x 20mm Plastic X-Mas Tree Plug (20mm Head)
-	*1*	4g Anti-Seize Pouch
-	*1*	Chief Products Shop Rag

ROOF RACK (2x Planks) [1146mm]

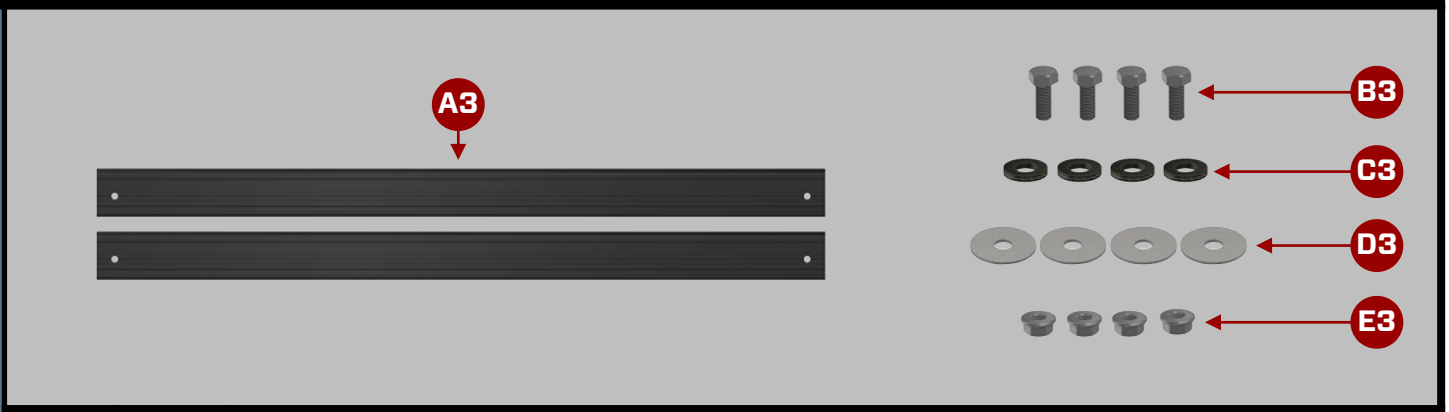
BOX



REF	QTY	DESCRIPTION
A2	*2*	Plank
B2	*8*	M8 x 20mm Hex Head CL70 Bolt (SS316)
C2	*8*	M8 Wedge-Lock Extended Washer (SS316) (BLACK)
D2	*4*	Rubber Isolater Strip
E2	*4*	M8 Fastening Plate

ROOF RACK (2x Half-Planks) [1146mm]

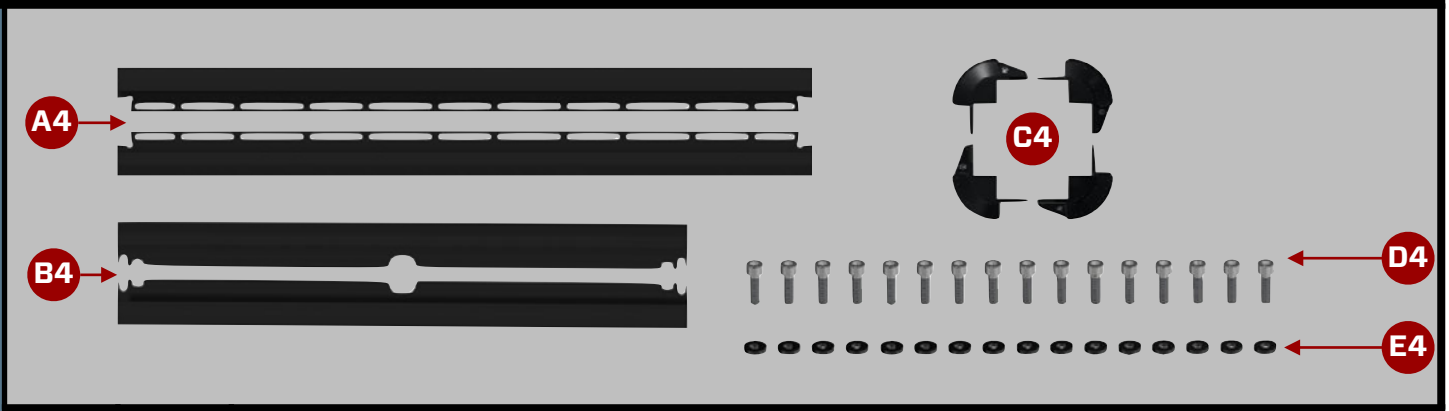
BOX



REF	QTY	DESCRIPTION
A3	*2*	Plank
B3	*4*	M8 x 25mm Hex Head CL70 Bolt (SS316)
C3	*4*	M8 Wedge-Lock Extended Washer (SS316) (BLACK)
D3	*4*	M8 x 32mm Washer (SS316)
E3	*4*	M8 Flange Nut

ROOF RACK (Platform Frame) [6 Plank]

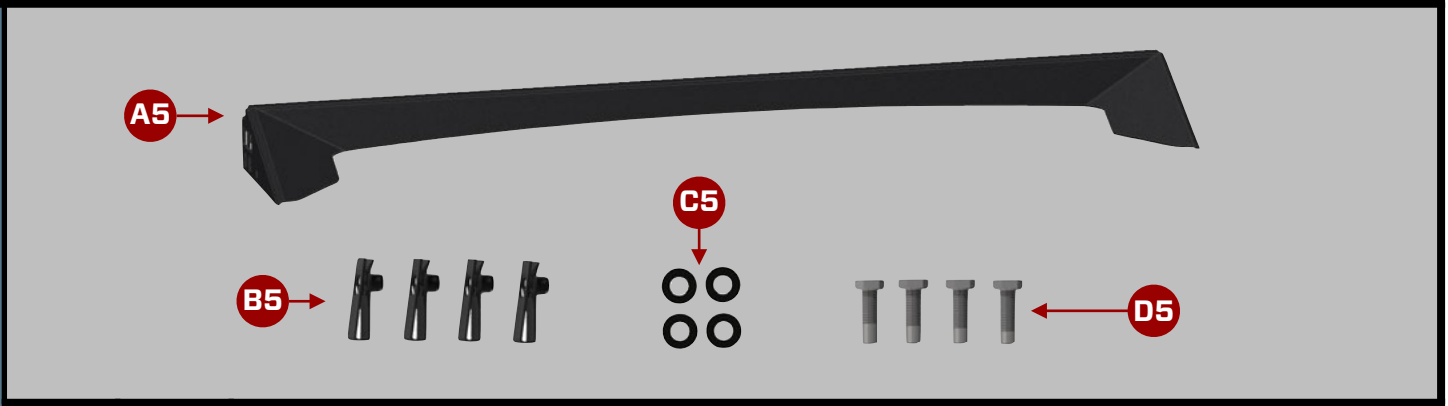
BOX



REF	QTY	DESCRIPTION
A4	*2*	Frame Rail (Left + Right)
B4	*2*	Frame Rail (Front + Rear)
C4	*4*	Frame Corner
D4	*16*	M6 x 20mm H5 Socket Cap Head CL70 Screw (SS316)
E4	*16*	M6 Wedge-Lock Extended Washer (SS316)(BLACK)

WK2 ROOF RACK (Aero)

BOX



REF	QTY	DESCRIPTION
A5	*1*	ROOF RACK (Premium Air-Dam)
B5	*4*	M6 Speed Nut (J nut)
C5	*4*	M6 Wedge-Lock Extended Washer (SS316)(BLACK)
D5	*4*	M6 x 20mmHex Head CL70 Bolt (SS316)(BLACK)

ROOF RACK (4x Plank End-Caps)

SATCHEL



REF	QTY	DESCRIPTION
A6	*4*	Plank End-Cap (Slotted)

ROOF RACK (4x Half-Plank End-Caps)

SATCHEL



REF	QTY	DESCRIPTION
A7	*4*	Half Plank End-Cap (Slotted)

REQUIRED TOOLS

- Socket Wrench
- 13mm Socket
- 10mm Socket
- 100mm Socket Wrench Extension
- 10mm Wrench
- T30 Torx (long shaft; 100mm+)
- H5 Hex Key

REQUIRED TOOLS *(continued)*

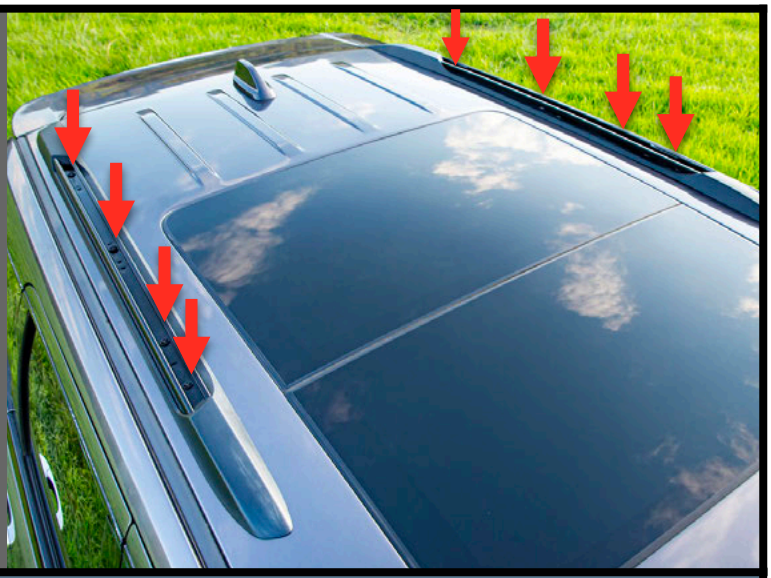
- Torque Wrench
- Tape Measure

1

Remove OEM ROOF RAILS.

1. Remove (8) T30 TORX Screws (inside OEM roof rail channels). Retain for Angle Bracket installation (Step 2). Discard any non-captive washers.
2. Slide OEM Rails backward then up to release from front & rear location posts.

NOTE
TAKE CARE!! If too much force is applied, roof OEM nutserts can break free (spin in place). We advise using a penetrant oil to help release any 'stuck' roof fasteners. On older vehicles, the first and last roof nutserts may have collected dirt and corrosion. If so, cleaning is required or the bolts will not install fully. If highly corroded, a thread tap can be used.

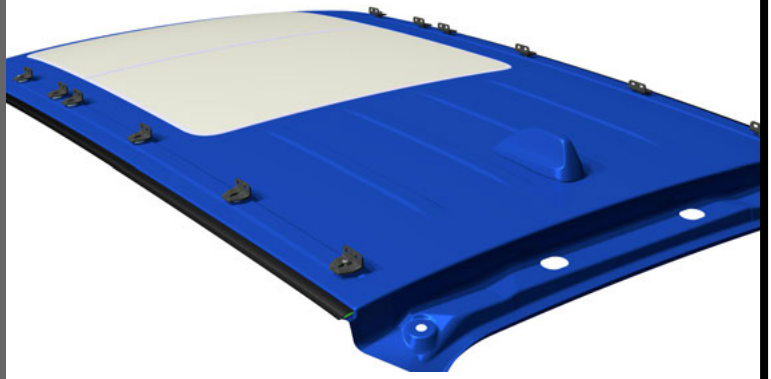


FASTENER THREADS:
- We recommend applying Anti-Seize onto the threads of all fasteners that use Wedge-Lock Washers. This will help prevent corrosion.
- For the (8) OEM T30 TORX Screws (without Wedge-Lock Washers) we recommend Mid-Strength Loctite (or similar) instead of Anti-Seize.

2

Install ANGLE BRACKETS.

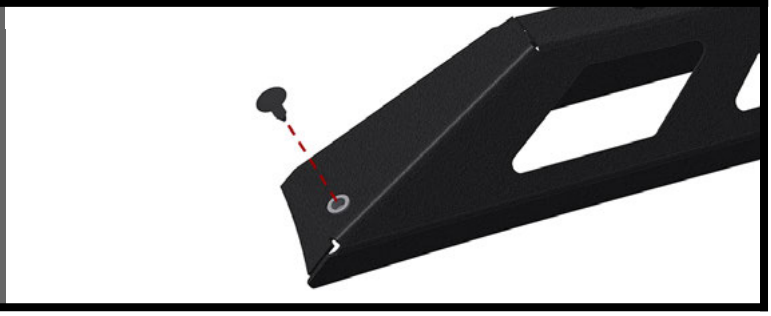
1. Create (4) Screw & Washer Combos, by adding (1) M6 Wedge-Lock Extended Washer [G1] to (1) M6 x 25mm TORX T30 Button Head Screw [J1].
2. Install (1) Angle Bracket [C1] using Screw & Washer Combo onto front nutsert on each side (left & right). Repeat on rear nutserts.
3. Install (8) Angle Brackets [C1] using (8) OEM T30 TORX Screws (from Step 1) into the next (4) nutserts (on each side).
4. Position Angle Brackets [C1] so the upper flange is located inboard. LEAVE ALL BRACKETS LOOSE.



3

Prepare MOUNTING RAILS.

1. Insert (2) M8 x 20mm Plastic X-Mas Tree Plug [K1] into M6 nutserts on front face of Mounting Rails [A1].

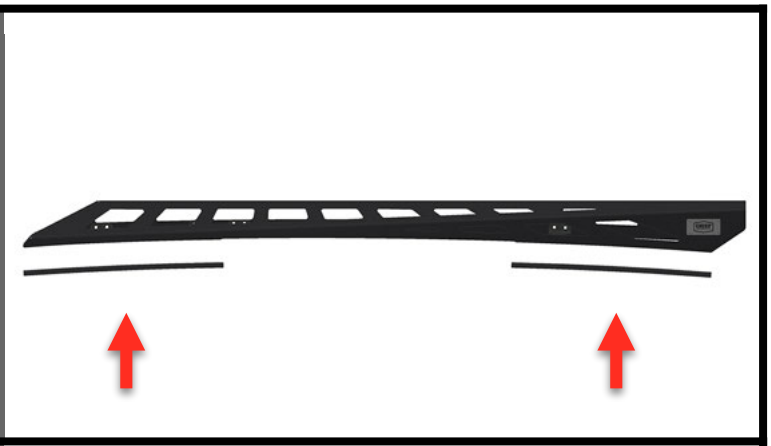


4

Prepare MOUNTING RAILS.

1. Fit (4) EPDM Rubber U-Channel Strips [D1] to the lower front & rear outer edges of Mounting Rails [A1].
2. Align EPDM Rubber U-Channel Strip [D1] ends with front & rear ends of Mounting Rails [A1].

NOTE
Trimming of the Rubber U-Channel Strip "Ends" to match the Mounting Rail Front & Rear Ends, provides a clean finish to your install.

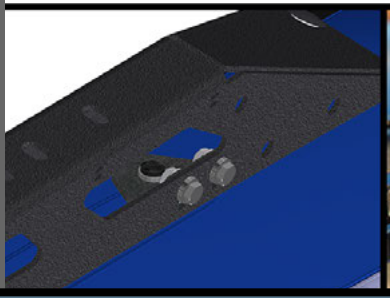


5

Install MOUNTING RAILS.

1. Place Mounting Rails [A1] on vehicle so angled face is forward, and Angle Brackets [C1] (highlighted in grey) are resting against inside face of Mounting Rail [A1].
2. Create (20) Bolt & Washer Combos, using M6 x 16mm Hex Head Bolt [F1] and M6 Wedge-Lock Extended Washer [G1].
3. Insert Bolt & Washer Combo through outside face of Mounting Rails [A1] and Angled Brackets [C1]. Place M6 Hex Flange Nut [H1] on Bolt and loosely tighten against inside face of Angled Brackets [C1].







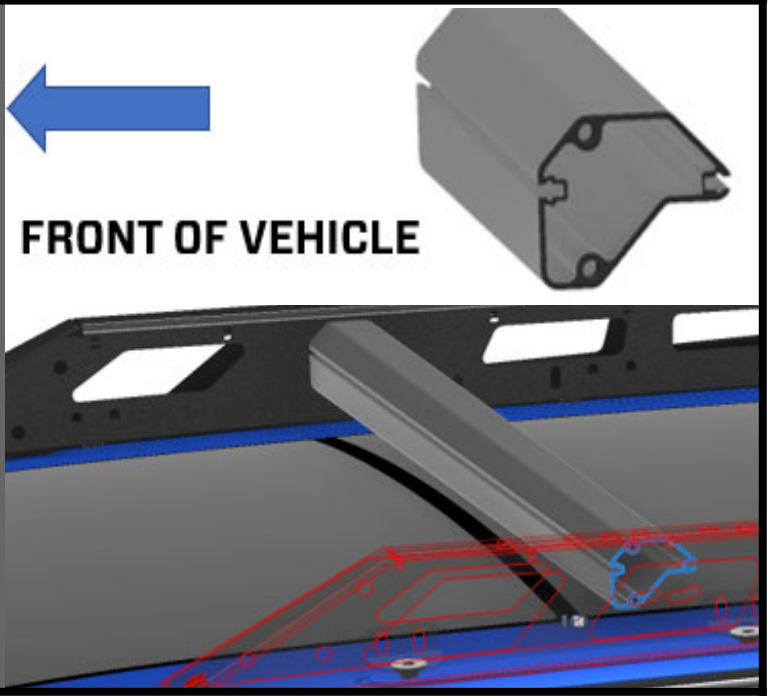
IF YOU'RE INSTALLING:

- STEALTH AIR-DAM *(Go to step 6)*
- WK2 ROOF RACK (Aero) *(Go to step 8)*

6

Install STEALTH AIR DAM.

1. Create (4) Bolt & Washer Combos, using M6 x 20mm Hex Head Bolt [J1] and (4) M6 Wedge-Lock Extended Washer [G1].
2. Position Stealth Air Dam [B1] in the most forward position.



7

Install STEALTH AIR DAM.

1. Loosely attach Stealth Air Dam [**B1**] to Mounting Rails [**A1**] on the right side; using the Bolt & Washer Combos from previous step.
2. Fit and loosely screw the Stealth Air Dam [**B1**] to the Mounting Rails [**A1**] on the left side; using the Bolt & Washer Combos from previous step.



YOU HAVE NOW ASSEMBLED THE STEALTH AIR-DAM.

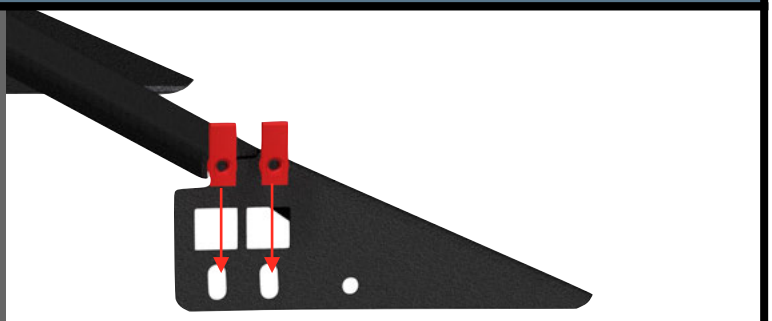
- CONTINUE TO STEP 11.

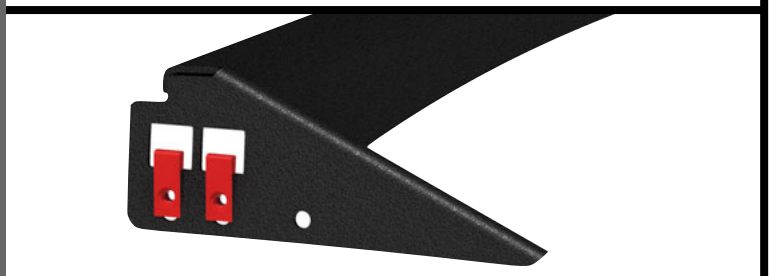
8

Assemble WK2 ROOF RACK (Aero)

1. Attach (2) J-Nuts [**B5**] to each side of the Premium Air-Dam.

NOTE:
Bottom image is reference to what each side should look like when assembled.

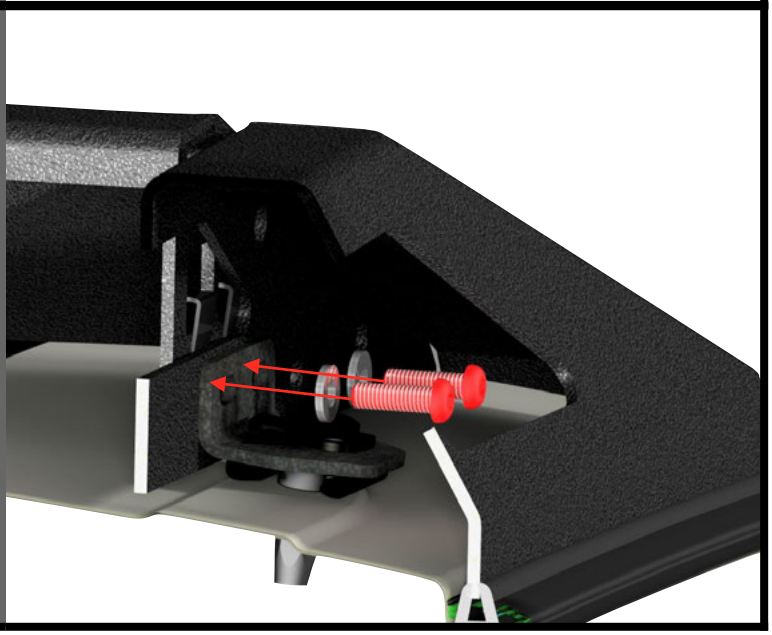




9

Assemble WK2 ROOF RACK (Aero)

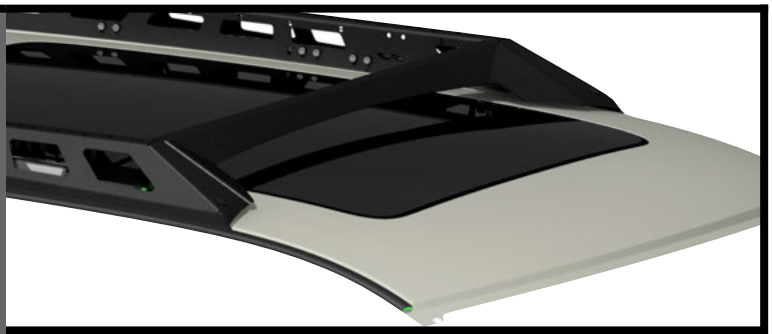
- The installation of the Premium Air-Dam uses the same mounting attachments as the front bracket. If installed with the original hardware remove those from the front mounting bracket. Create 4 Bolt & Washer combo's using the M6 x 20mm Hex Head Bolt [**D5**] and the M6 Wedge-Lock Extended Washer [**C5**] supplied with the air dam. The bolt and washer combo should pass through the mounting bracket [**C1**] through the mounting rails [**A1**] and into the J-Nuts [**B5**].

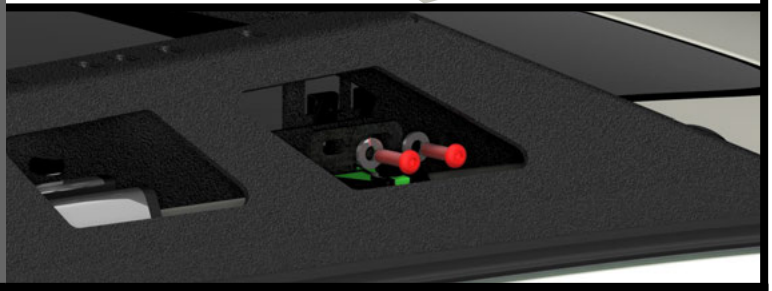


10

Attach WK2 ROOF RACK (Aero)

1. Place the Premium Air Dam [A5] in line with the two Mounting Rails [A1].
2. Assemble all the bolt combo's using (4) of M6 x 20mm Hex Head CL70 Bolt [D5], M6 Wedge-Lock Extended Washer [C5].
3. Attach (2) bolts to each side on the Premium Air Dam [A5].
4. Tighten all (8) bolts to "Finger Tight"





IF YOU HAVE:

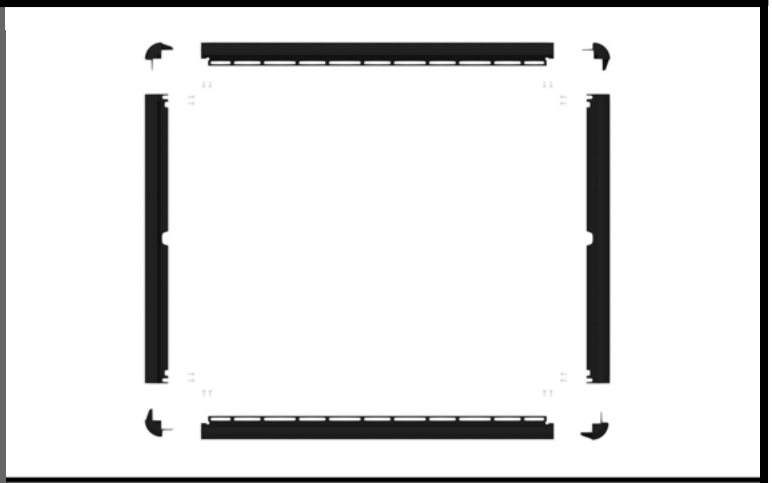
- APEX EDITION *(Go To Step 11).*
- SAFARI EDITION, OVERLAND EDITION, ROOF TOP TENT EDITION or BARE BONES EDITION *(Go To Step 18).*

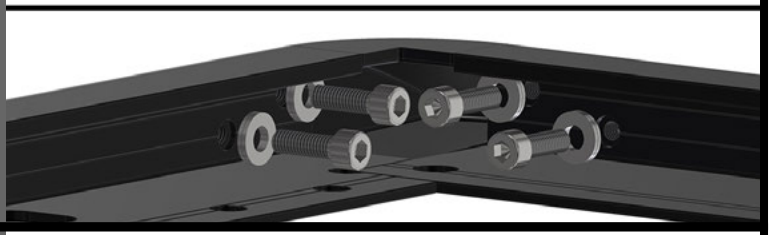
11

Prepare PLATFORM FRAME.

1. Place (2) Frame Rail (Front + Rear) [B4], Place (2) Frame Rail (Left + Right) [A4] and (4) Frame Corner [C4] in position (top photo).
2. Install (1) Frame Corner [C4] into each end of each Frame Rail (Front + Rear) [B4].
3. Create (16) Screw & Washer Combos, by adding (1) M6 Wedge-Lock Extended Washer [E4] to (1) M6 x 20mm H5 Socket Cap Head Screw [D4].
4. Insert (2) Bolt & Washer Combo through inner face of Frame Rail (Left + Right) [A4] and loosely tighten into Frame Corner [C4]. Do this for each Frame Corner [C4].

NOTE
Place parts on blanket to avoid scratches during installation.





12

Prepare PLATFORM FRAME.

1. Place Platform Frame on Mounting Rails [A1]. Align rear edge of Platform Frame with rear edge of Mounting Rails [A1], (red arrow bottom photo).
2. Tighten fasteners for each Frame Corner [C4].

NOTE

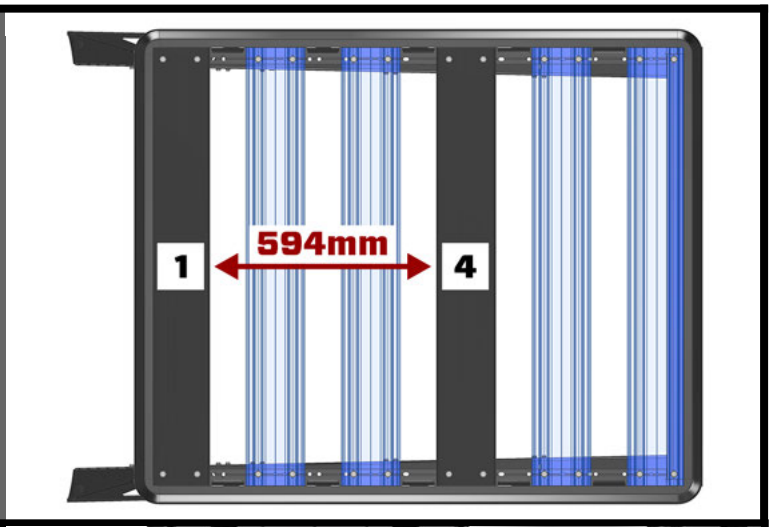


13

Position PLANKS.

1. Place (1) Plank [A2] into the front most location in the Platform Frame.
2. Place (1) Plank [A2] approximately 594mm (23.39”) behind the 1st Plank.

NOTE
Do not install remaining Planks at this time. This simple (2) Plank configuration provides the best access when tightening the Roof + Mounting Rail fasteners.

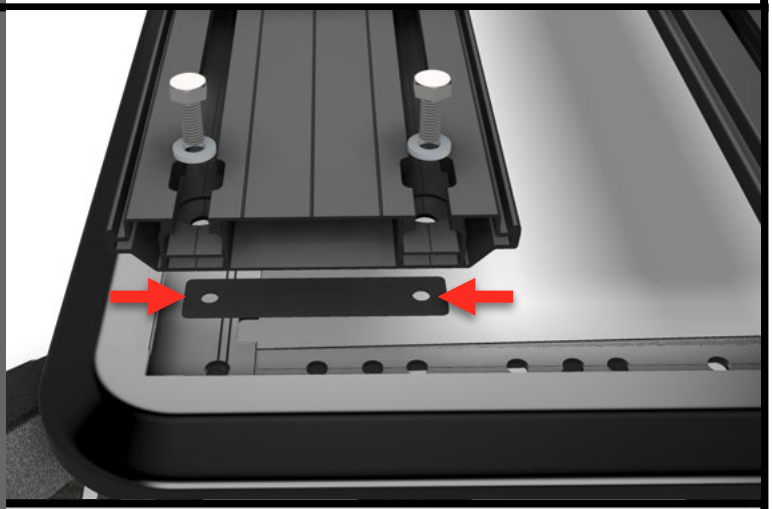


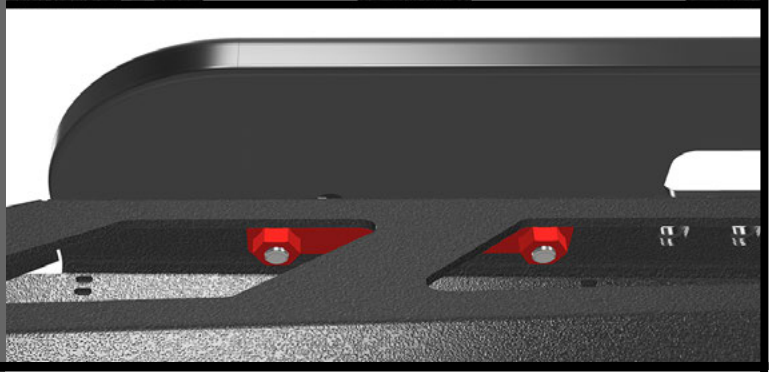
14

Install 2 PLANKS.

1. Create (8) Bolt & Washer Combos, by adding (1) M8 Wedge-Lock Extended Washer [C2] to (1) M8 x 20mm Hex Head Bolt [B2].
2. Using (2) Bolt & Washer Combos and (1) M8 Fastening Plate [E2] secure the end of each Plank [A2]. Place M8 Fastening Plate [E2] on underside of top face of Mounting Rail [A1] (bottom photo - M8 Fastening Plate in red). Insert each Bolt & Washer Combo through Plank [A2], through (1) Rubber Isolator Strip [D2] (red arrows), through Platform Frame, through Mounting Rail [A1] and into M8 Fastening Plate [E2] (top photo). Loosely tighten.
3. Do this for the end of each Plank [A2].

NOTE
Ensure the front lip of your Plank tucks into the Platform Frame. You may need to angle the Plank slightly so the front lip of the Plank slips under the top face of the Frame.





15

Align MOUNTING RAILS.

1. Align as close as practical to the centre of the Channel roof strip for the FRONT and REAR of the Mounting Rails [A1].
2. Ensure the Platform Frame, Planks [A2] and Mounting Rails [A1] are centred on the roof of the vehicle.
3. Tighten (2) M8 Bolts at each end of the Planks [A2].

NOTE
Recommended M8 Bolt Torque = 23Nm (Dry) or 18Nm (Anti-Seize).



16

Secure MOUNTING RAILS.

1. Tighten (12) M6 Roof Bolts, (blue in photo). A long shaft (100mm+) T30 Torx will be required to tighten Roof Bolts, (inset photo).
2. Tighten (24) M6 Hex Bolts [F1], (red in photo).
3. Tighten Stealth Air Dam fasteners on the mounting rails and then tighten the Bracket, Stealth Air Dam fasteners.

NOTE
Recommended M6 Bolt Torque = 14Nm (Dry) or 11Nm (Anti-Seize). Be sure to follow tightening sequence, otherwise joints may not sit flush. If it is difficult to tighten M6 Roof Bolts, read NOTE from STEP 1.





17

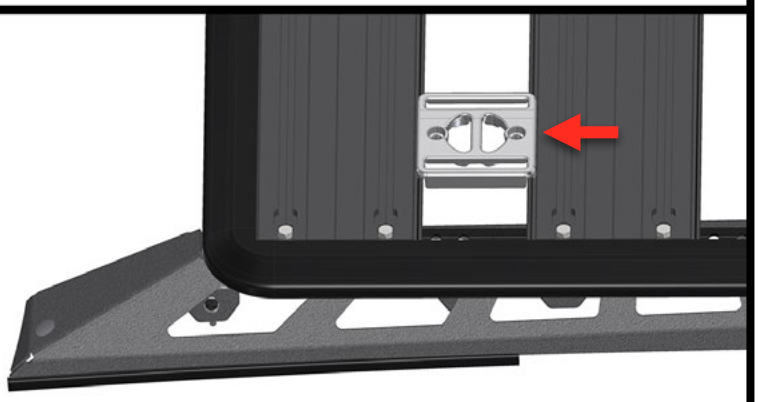
Install PLANKS.

* *You can now install your Planks in whatever configuration best meets your needs.*

1. Create (4) Bolt & Washer Combos, by adding (1) M8 Wedge-Lock Extended Washer [C2] to (1) M8 x 20mm Hex Head Bolt [B2].
2. Using (2) Bolt & Washer Combos and (1) M8 Fastening Plate [E2] secure the end of each Plank [A2]. Place M8 Fastening Plate [E2] on underside of top face of Mounting Rail [A1]. Insert each Bolt & Washer Combo through Plank [A2], through Rubber Isolator Strip [D2], through Platform Frame, through Mounting Rail [A1] and into M8 Fastening Plate [E2] (See Photos from Step 12).
3. Repeat 15.1 and 15.2 for each Plank [A2].
4. Tighten all fasteners.

NOTE
If you're installing Tie-Down Plates, you can use a Tie-Down (Top) to ensure perfect spacing between each Plank (BOTTOM PHOTO).





DAD JOKE

DAD: **loudly** I HATE YOU AND YOUR ENTIRE FAMILY!!
SON: **rushing into the room** Who are you talking to?!
DAD: **calmly** A mosquito.

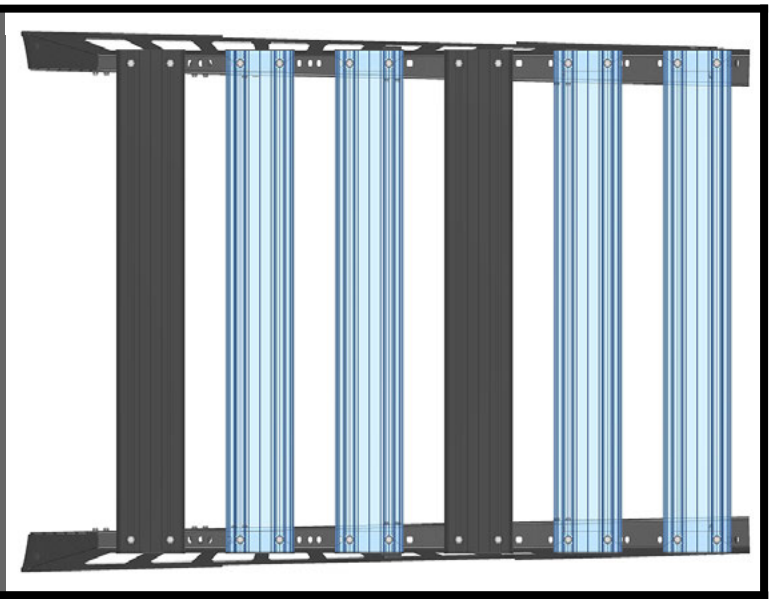
WK2 ROOF RACK (Apex) is now fully installed.

18

Position PLANKS.

1. Place (1) Plank [A2] into the location that best suits your needs.
2. Place (1) Plank [A2] into the 2nd location that best suits your needs.

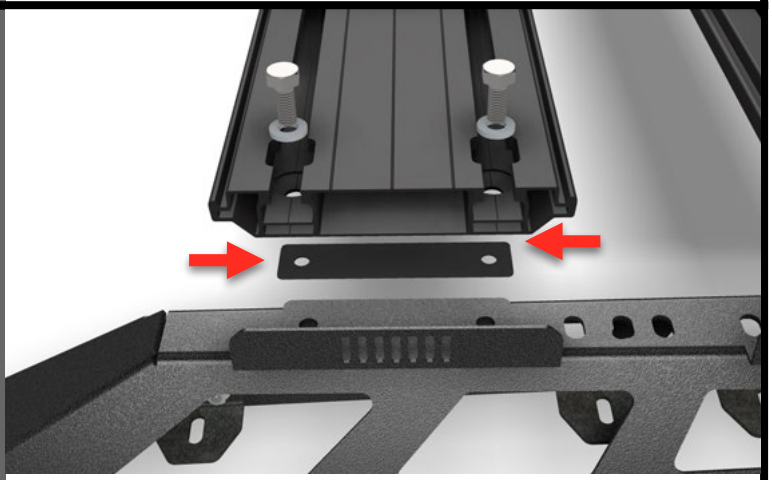
NOTE
Do not install remaining Planks at this time. This simple (2) Plank configuration provides the best access when tightening the Roof + Mounting Rail fasteners.

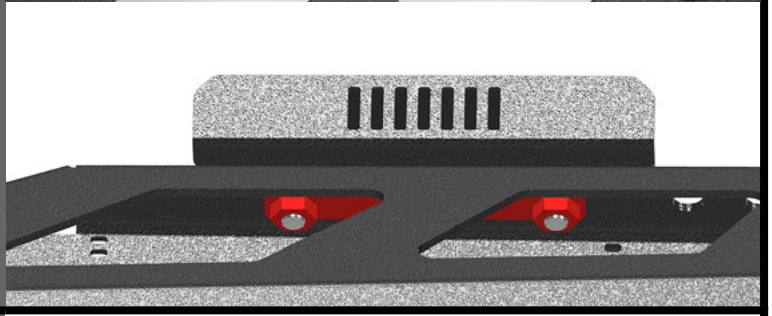


19

Install 2 PLANKS.

1. Create (8) Bolt & Washer Combos, by adding (1) M8 Wedge-Lock Extended Washer [C2] to (1) M8 x 20mm Hex Head Bolt [B2].
2. Using (2) Bolt & Washer Combos and (1) M8 Fastening Plate [E2] secure the end of each Plank [A2]. Place M8 Fastening Plate [E2] on underside of top face of Mounting Rail [A1] (bottom photo - M8 Fastening Plate in red). Insert each Bolt & Washer Combo through Plank [A2], through (1) Rubber Isolator Strip [D2] (red arrows), through End Cap [A6], through Mounting Rail [A1] and into M8 Fastening Plate [E2] (top photo). Loosely tighten.
3. Do this for the end of each Plank [A2].





20

Align MOUNTING RAILS.

1. Align as close as practical to the centre of the Channel roof strip for the FRONT and REAR of the Mounting Rails [A1].
2. Ensure the Planks [A2] and Mounting Rails [A1] are centred on the roof of the vehicle.
3. Tighten (2) M8 Bolts at each end of the Planks [A2].

NOTE
Recommended M8 Bolt Torque = 23Nm (Dry) or 18Nm (Anti-Seize).



21

Secure MOUNTING RAILS.

1. Tighten (12) M6 Roof Bolts, (blue in photo). A long shaft (100mm+) T30 Torx will be required to tighten Roof Bolts, (inset photo).
2. Tighten (24) M6 Hex Bolts [F1], (red in photo).
3. Tighten Stealth Air Dam fasteners on the mounting rails and then tighten the Bracket, Stealth Air Dam fasteners.

NOTE
Recommended M6 Bolt Torque = 14Nm (Dry) or 11Nm (Anti-Seize). Be sure to follow tightening sequence, otherwise joints may not sit flush. If it is difficult to tighten M6 Roof Bolts, read NOTE from STEP 1.





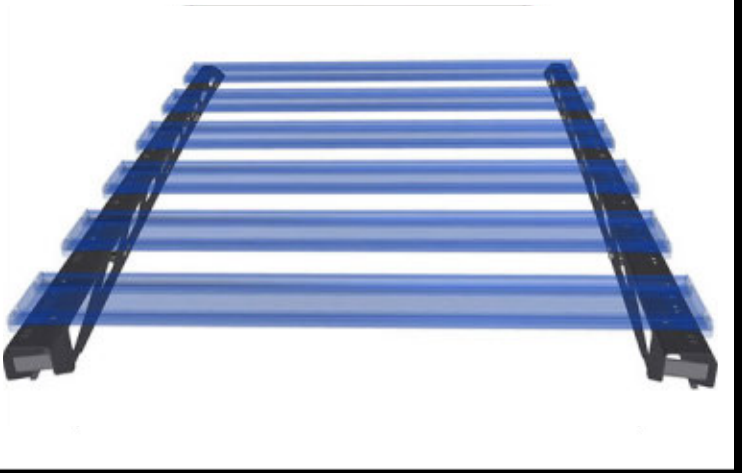
22

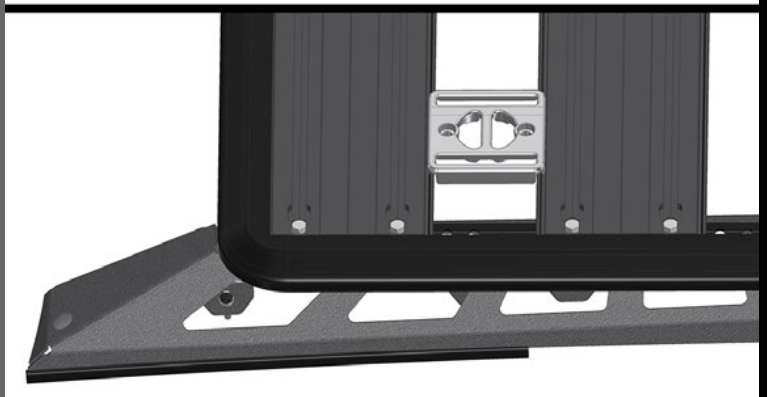
Install PLANKS.

* *You can now install your Planks in whatever configuration best meets your needs.*

1. Create (4) Bolt & Washer Combos, by adding (1) M8 Wedge-Lock Extended Washer [C2] to (1) M8 x 20mm Hex Head Bolt [B2].
2. Using (2) Bolt & Washer Combos and (1) M8 Fastening Plate [E2] secure the end of each Plank [A2]. Place M8 Fastening Plate [E2] on underside of top face of Mounting Rail [A1]. Insert each Bolt & Washer Combo through Plank [A2], through Rubber Isolator Strip [D2], through Platform Frame, through Mounting Rail [A1] and into M8 Fastening Plate [E2] (See Photos from Step 12).
3. Repeat 15.1 and 15.2 for each Plank [A2].
4. Tighten all fasteners.

NOTE
If you're installing Tie-Down Plates, you can use a Tie-Down (Top) to ensure perfect spacing between each Plank (BOTTOM PHOTO).





WK2 ROOF RACK is now fully installed.

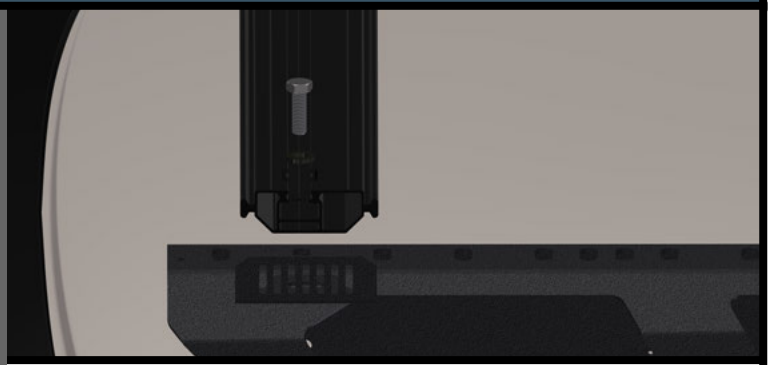
HALF-PLANKS

[START]

1

Install HALF-PLANKS

1. Create (2) Bolt & Washer Combos, by adding (1) M8 Wedge-Lock Extended Washer [**C3**] to (1) M8 x 20mm Hex Head Bolt [**B3**].
2. Using (1) Bolt & Washer Combos and (1) M8 Flange Nut (highlighted red)[**E3**] secure the end of each Plank [**A3**]. Place M8 Flange Nut [**E3**] beneath the M8 x 32mm Washer [**D3**] on the underside of top face of Mounting Rail [**A1**] (bottom photo). Insert each Bolt & Washer Combo through Plank [**A3**], through End Cap [**A7**], through Mounting Rail [**A1**], through M8 x 32mm Washer [**D3**] (red arrow) and into M8 Flange Nut [**E3**]. Loosely tighten.
3. Do this for the end of each Plank [**A3**].





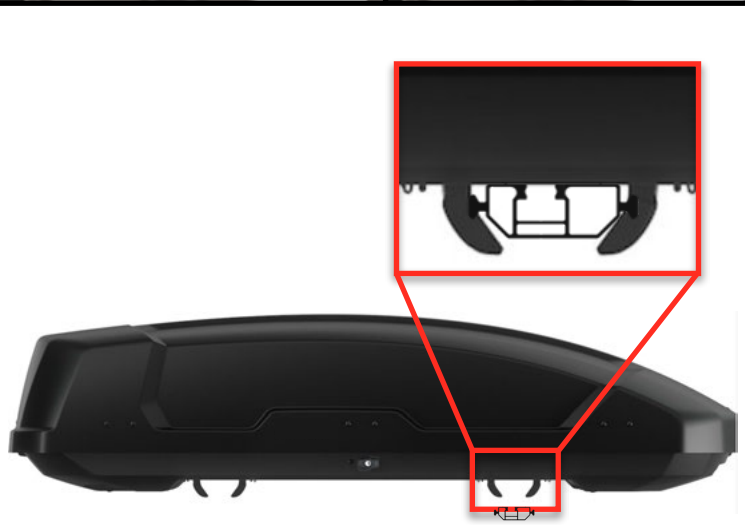
2

Half Plank uses

1. Half Planks can be assembled together to function the same as Full Planks or seperate to use with accessories that clamp around more standard roof bars.
2. Compatible with all other Chief Products attachment accessories.







HALF-PLANKS

[START]

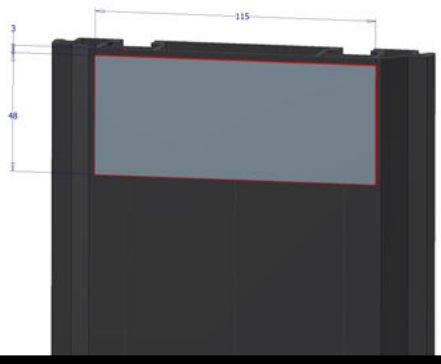
TROUBLESHOOTING

1 TROUBLESHOOTING

NOISE —> VIBRATIONS (HUMMING SOUND 50-80kph)

1. Check that all Rubber Isolator Strip [D2] have been installed properly. They should be positioned between Plank [A2] and Platform Frame or End Cap [A6 , A7].
2. If vibration persists; loosen (without removing) all fasteners retaining Planks [A2] and Mounting Rails [A1]. Tighten fasteners securing Mounting Rails [A1] then tighten fasteners securing Planks [A2].

NOTE
Mounting items on your rack will eliminate Plank vibrations.



1 TROUBLESHOOTING

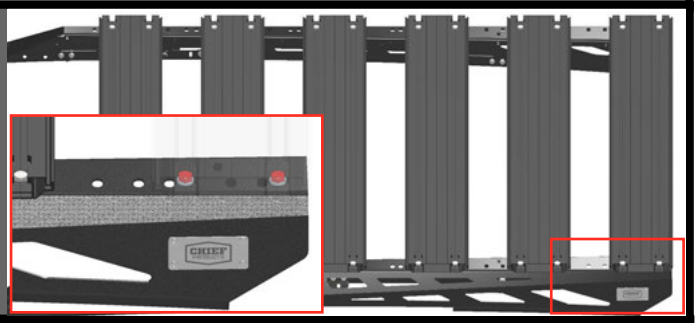
NOISE —> WIND (WHISTLING)

1. Check that all End-Caps [A6 , A7] have been installed properly (Step 20). Open ended Planks can cause whistling noise.

1 TROUBLESHOOTING

SAFARI EDITION NOISE

1. Mounting the planks in the furthest back position while keeping standard plank spacing is the quietest setup for Safari edition users that encounter whistling.



1 TROUBLESHOOTING

NOISE —> WIND (WHOOSHING 80kph+)

1. Check that the Stealth Air Dam [B1] has been installed properly, (Step 6 & Step 7). The Stealth Air Dam [B1] should be positioned behind the front most Plank and run parallel. The fasteners should be screwed tightly.
2. Some Plank combinations/positions produce more wind noise than other combinations/positions. If wind noise persists; try repositioning your Planks or changing your Plank configuration.
3. When properly installed the WK2 Roof Rack has been designed (and extensively tested) to produce very little wind noise. When you install lights, gear, etc. it can have a dramatic effect on the amount of wind noise you experience. If you have excessive wind noise, try repositioning the items on your rack.

NOTE
All roof racks generate some wind noise. The wind noise will get louder the faster you travel or whenever there are large gusts of wind. Most of the wind noise coming from the WK2 Roof Rack is caused by high winds flowing between the Roof and the Planks. Disrupting (or blocking) this flow of air can significantly reduce the sound produced.

MAINTENANCE

FASTENERS
- Check fastener tightness regularly and tighten if required. We recommend checking fasteners after every large off-road trip.

CORROSION PROTECTION
- After an off-road trip; rinse all mud, sand or debris off the product.
- After driving in salt water; rinse product thoroughly with fresh water.

EXTRA CARE
- If you're planning to drive in a salty environment; spray fasteners with WD40 or an equivalent.
- If you're planning to drive in a salty environment; spray product with Lanolin or an equivalent.
- Spray deep scratches (before they rust) with touch up paint to help inhibit corrosion.

SUPPORT

Find answers online.
www.chiefproducts.com.au/pages/support

Having troubles? Make sure you've downloaded the most recent version of these instructions from our website. We occasionally make updates.
www.chiefproducts.com.au/installation/wk2-roof-rack.pdf

If you need additional help, send us an email.
support@chiefproducts.com.au

SHARE

LOOKING TO SHARE?
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