

Part Number(s): Suits BASE RACK:

17940050 1770060/70

Product Description: BASE RACK fitting kit suits:

US Ford Ranger 2019 on

WARNING

REGARDING VEHICLES EQUIPPED WITH SRS AIRBAG:

When installed in accordance with these instructions, the cab rack does not affect operation of the SRS curtain airbags.

ALSO, NOTE THE FOLLOWING:

- ♦ This product must be installed exactly as per these instructions using only the hardware supplied.
- ♦ In the event of damage to any cab rack component, contact your nearest authorised ARB stockist. Repairs or modifications must not be attempted.
- Do not use this product for any vehicle make or model, other than those specified by ARB.
- Do not remove labels.
- This product or its fixing must not be modified in any way.
- ♦ The installation of this product may require the use of specialized tools and/or techniques
- It is recommended that this product is only installed by trained personnel
- ♦ These instructions are correct as at the publication date. ARB Corporation Ltd. cannot be held responsible for the impact of any changes subsequently made by the vehicle manufacturer
- During installation, it is the duty of the installer to check correct operation/clearances of all components
- Work safely at all times
- Unless otherwise instructed, tighten fasteners to specified torque

ARB 4x4 ACCESSORIES

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FITTING REQUIREMENTS

REQUIRED TOOLS FOR FITMENT OF PRODUCT:

Basic tool kit	Centre punch & small hammer
Torque wrench	Metric Torx key set
7.0mm drill bit	Metric Allen key set
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Step drill bit to suit a 10.0mm hole

A conventional drill bit cannot be used or nutserts will not seal correctly.

IMPORTANT:

Step drill bit from the 10mm step must not exceed 30mm in length or you risk drilling into the curtain air bags. (Drill bit shown is only 20mm in length).



Nutsert gun (similar to the one pictured below)



HAVE AVAILABLE THESE SAFETY ITEMS WHEN FITTING PRODUCT:

Protective eyewear



Hearing protection



NOTE: 'WARNING' notes in the fitting procedure relate to OHS situations, where to avoid a potentially hazardous situation it is suggested that protective safety gear be worn or a safe work procedure be employed. If these notes and warnings are not heeded, injury may result.

FASTENER TORQUE SETTINGS:

SIZE	Torque Nm	Torque lbft
M6	9Nm	7lbft
M8	22Nm	16lbft
M10	44Nm	32lbft
M10 Seat Belt Bolts	75Nm	55lbft
M12	77Nm	57lbft

SAFETY

NET PAYLOAD FOR YOUR BASE RACK

The net payload for your BASE RACK is calculated by subtracting the weight of the BASE RACK and the vehicle mounting kit from the vehicle's roof capacity. The table below gives the BASE RACK net payload for fitting kit 17940050, using the vehicles maximum vehicle roof capacity. The vehicle's roof load capacity may vary between models and driving conditions. Refer to vehicle owner's manual for model and condition specific roof load capacities.

Kit	BASE RACK	Vehicle roof capacity* (kg/lb)	BASE RACK + mount kit (kg/lb)	BASE RACK net payload (kg/lb)
17940050	1770060/70	80 / 176	20 / 44	60 / 132

^{*} Maximum roof load capacity. Refer to vehicle owner's manual for model and condition specific roof load capacities.

It is important to follow these safety instructions;

- Maximum load per BASE RACK beam is 25kg.
- ♦ Load must be evenly distributed and adequately secured.
- Any weight carried on the roof of the vehicle will adversely affect its handling, particularly in cornering or in a cross-wind, the vehicle should therefore be driven with increased discretion.
- Regularly check the tightness of the securing clamps and the security of the load.
- Attention is directed to statutory requirements regarding maximum permissible projections from vehicles.

All bolts should be checked prior to touring to ensure the tray is fastened correctly

GENERAL CARE AND MAINTENANCE

By choosing an ARB BASE RACK, you have bought a product that is one of the most sought after 4WD products in the world. Your BASE RACK is a properly engineered, reliable, quality accessory that represents excellent value. To keep your BASE RACK in original condition it is important to care and maintain it following these recommendations:

 As part of any pre-trip preparation, or on an annual basis, it is recommended that a thorough visual inspection of the BASE RACK is carried out, making sure that all bolts and other components are torqued to the correct specification. Replace any components as necessary.

Please contact local Authorised ARB Stockist if you would like to have this service carried out on your behalf.

	PARTS LISTING - BASE RACK fitting kit			
PART NUMBER	SUITS BASE RACK	QTY	DIAGRAM	
17940050	1770060/70	1		

PARTS LISTING 17940050					
PART NO.	PICTURE	QTY	DESCRIPTION		
3750573L	<u> </u>	1	BLADE BRACKET RANGER LH		
3750573R	© 0 0 0	1	BLADE BRACKET RANGER RH		
4654988 L&R		1 PR	FRONT MOUNTING FOOT L&R		
4654989 L&R		1 PR	REAR MOUNTING FOOR L&R		
4584415		12	M8 WASHER FLAT - BONDED		
6151996		12	NUTSERT M6x1.0		
6151934		1	TORX ALLEN KEY		
6151625		4	M8 X 1.25 X 25 BUTTON HEAD TORX - BLK		
4581085		16	M8 WASHER FLAT - BLACK		

1	I	Ī	1
6152008		12	FLANGE HEAD BOLT M6x25
3750574		1	FRONT DIFFUSER
3750575		4	DIFFUSER MOUNT BRACKET
6151475		4	M6 U-NUT
3195184		8	M8 STUD PLATE
6151921		12	M8 X 20 STUD - BLACK
6151212		12	M8 X 1.25 NYLOC NUT - BLACK
4584329		4	M6 WASHER FLAT - BLACK
6151459	6)	4	M6 BTN HEAD SCREW – BLACK
668PB028		1	24mm FOAM TAPE ROLL



The interior roof lining needs to be dropped to install the cab rack kit.

<u>Note:</u> Ensure you retain all fasteners and clips to use when reinstalling the roof lining.

1. Remove the plastic cap to expose the retaining bolt on both rear side seat belts as shown



2. Undo the torx head bolt on each side rear seat belts and remove. Allow the seatbelt to hang down as shown.





3. Pull back the door seal on the top half of the door jamb. Unclip and pull back the side rear pillar trims on both sides as shown.



4. Remove the rear grab handles. This is done by removing plastic covers to expose the torx head screws.

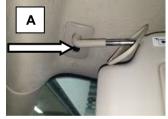


5. Remove the plastic cap to expose the retaining bolt on both front seat belts as shown.

Undo the Torx head bolt on each front seat belts and remove. Allow the seatbelt to hang down as shown.



6. Unclip and remove the B-pillar plastic trim on both sides.





7. Remove the front sun visors (A) by using a small flat blade screwdriver to unclip the plastic cover exposing the hex head screw.

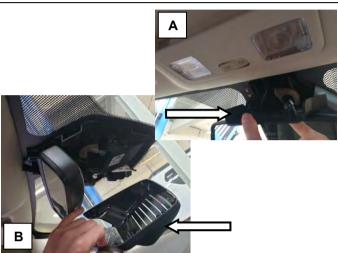
Remove the visor retaining clips (B) by removing the torx head screws.



8. Remove the grab handle on the RHS A-pillar trim. There are two small hex bolts behind the plastic caps.

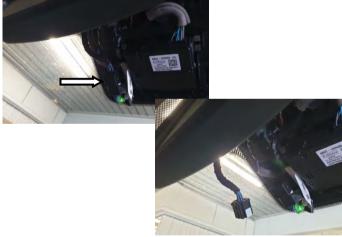


9. Unclip the A-pillar plastic trim as shown. Let it hang from the black plastic straps behind.

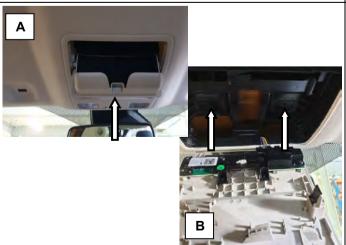


10. Unclip the black plastic trim above the rear vision mirror (A).

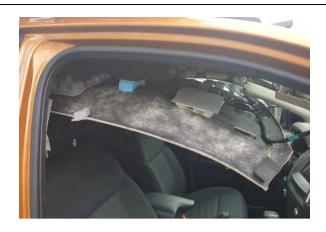
Unclip the black plastic trim behind the rear vision mirror (B).



11. Disconnect the roof lining wiring loom plug behind the rear vision mirror.



- Open up the sunglasses holder and unclip the outer plastic trim shown in (A). Let it carefully hang down as there is wiring to the interior lights.
- 13. Remove the two hidden torx screws as shown (B).
- 14. The only thing holding the roof lining up now is a small magnet on the centre interior light.



15. The roof lining can now be dropped down. The roof lining wiring harness is glued to the roof lining so just let it hang as shown.

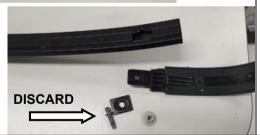
Carefully pull the roof lining past the A-pillar trims.



16. Remove the aluminum gutter trims from the roof. There is a 10mm nut on the ends of each trim on the inside of the roof skin. Use a small ratchet as shown.



DISCARD



17. Remove the front and rear pieces on each roof gutter trim using vice grips to undo the retaining posts. These end pieces will be reused during the installation of the roof rack kit.

Discard the retaining posts.



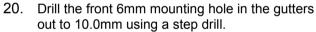
18. Drill out the threaded holes on the end trims to 7.0mm as shown.



Warning: The following steps must be followed with care not to cause any damage to the curtain air bag system on the vehicle.



19. Use low tack film or similar to protect the areas around holes that need drilling as shown.



*See drill specs on page 2

NOTE: Use a shop-vac directly underneath the hole being drilled to ensure no metal debris gets caught on the air bags or roof lining.

*See drill specs on page 2

Hint: Use the nozzle of the shop-vac to pull the air bags away from the area being drilled as shown in the "Inside View" image.



Inside View





21. The rear holes in the gutters are elongated. These also need to be drilled out to 10.0mm using the step drill. Start drilling directly in the middle, the step drill self-aligns.









Using a nutsert gun, fit nutserts to the front and rear holes on both roof gutters as shown.

> Note: Ensure the nutserts are done up tight. If they are not installed correctly, they may leak.

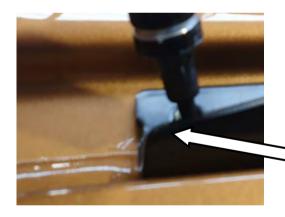
Ensure no roof seam sealant is going to be sitting under the head of the nutsert.



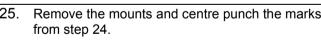
Temporarily bolt the front mount feet in place using M6x25 bolts and washers in the front hole. It is critical that the identification notch faces the front of the vehicle.



24. Temporarily bolt the rear mount feet in place using M6x25 bolts and washers in the rear hole. It is critical that the identification notch faces the front of the vehicle. Mark the hole locations on all 4 feet.



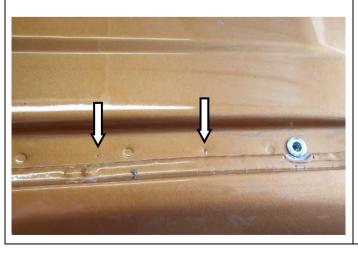
Remove the mounts and centre punch the marks





Use a shop-vac directly underneath the holes being drilled to ensure no metal debris gets caught on the air bags or roof lining.

Hint: Use the nozzle of the shop-vac to pull the air bags away from the area being drilled.





26. Remove any roof seam sealant that is going to interfere with the heads of the nutserts using a small flat blade screwdriver as shown. Use anticorrosive touch up paint on any exposed areas.



27. Fit nutserts in all 8 holes.



Note: Ensure the nutserts are done up tight. If they are not installed correctly, they may leak.

Ensure no roof seam sealant is going to be sitting under the head of the nutsert.

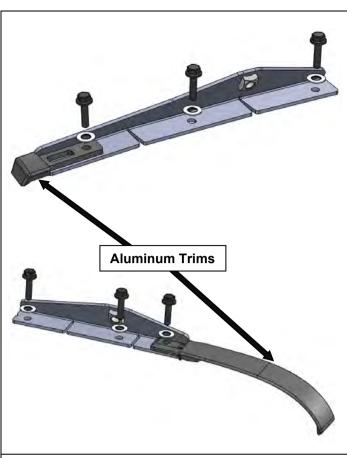


28. Measure and cut 4x pieces of foam seal to fit on the underside of the mount feet.



29. Fit the foam seal on the feet. Using a 7.0mm drill bit, drill through the mount feet holes to open up the foam seal.

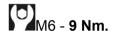


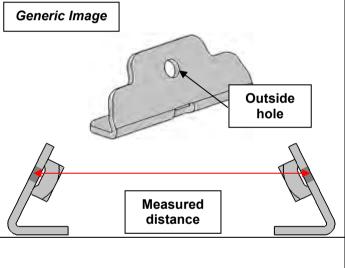


30. Bolt the front and rear mount feet to the roof using M6 flange head bolts & rubber bonded washers as shown. Attach the aluminum trims to the feet (prepared in step 18). Tighten all 12x M6 bolts to specified torque.



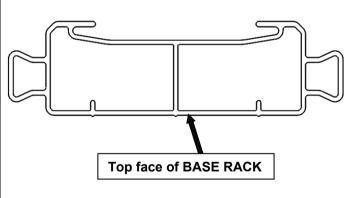




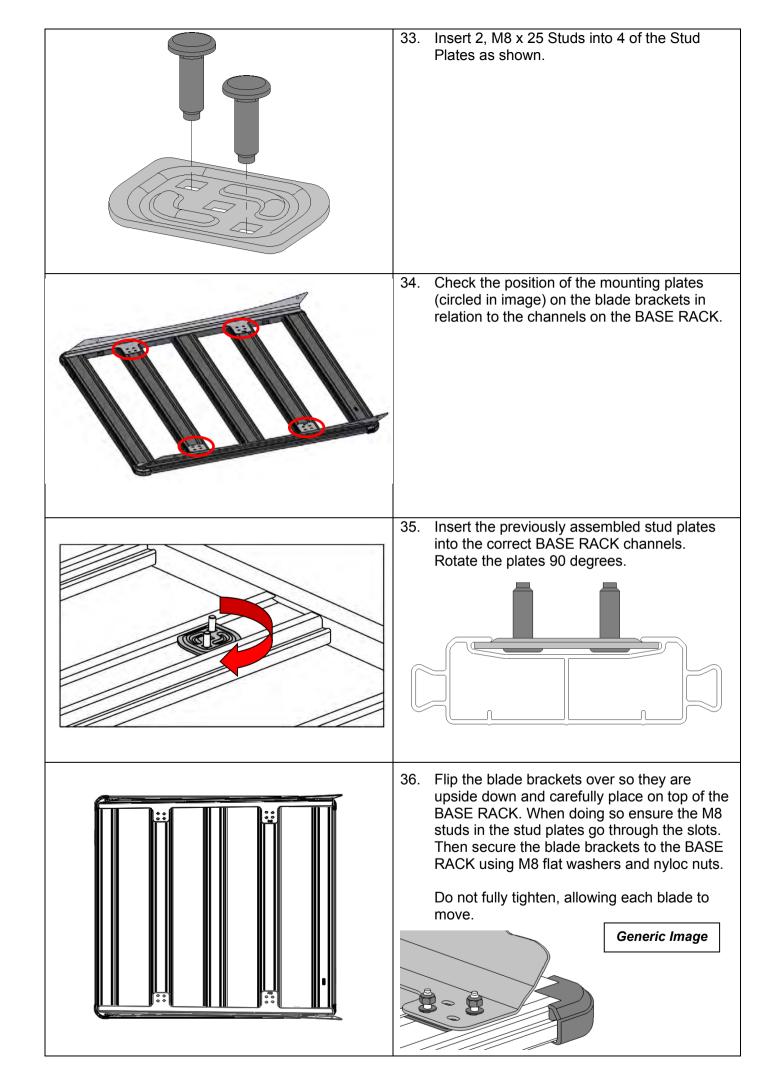


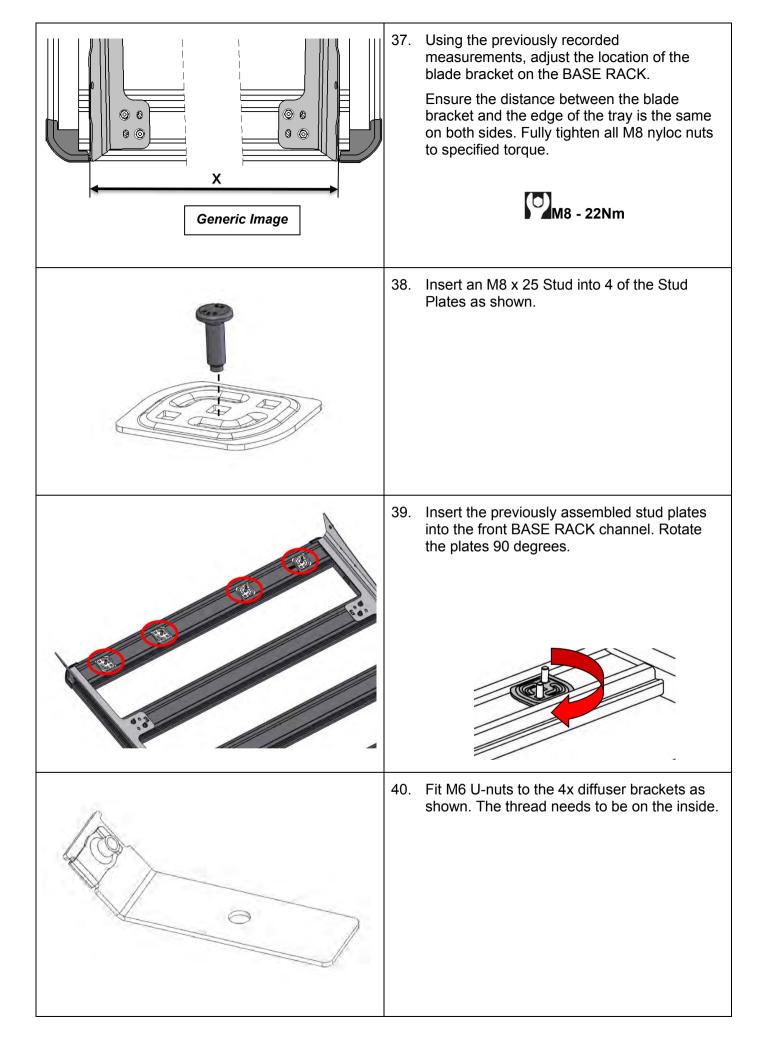
31. Using a tape measure, measure across the vehicle between the middle of the hole on the outside face of the front and rear set of mounting brackets. Make a note of each measurement.

Position	Distance
Front	
Rear	



 Place the BASE RACK face down on a clean flat surface. Provide protection to the top face of BASE RACK to avoid marking of surfaces





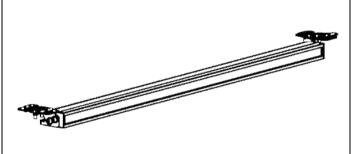


- 41. Loosely fit the diffuser to the mounts and brackets as shown. Use an M8 nyloc nut and washer to hold the diffuser brackets to the stud plates. Use M6 screws and washers to hold the diffuser to the brackets.
- 42. Tighten to specified torque.

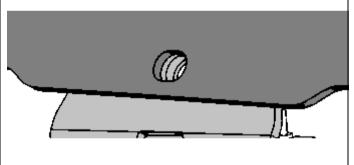




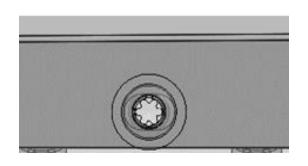




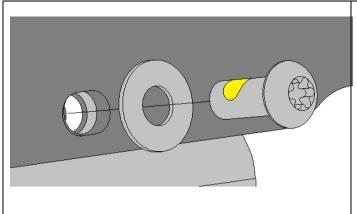
43. If fitting a BASE RACK lightbar it should be fitted to the BASE RACK at this point. Refer to instructions provided with the BASE RACK light bar for fitting details.



- 44. With assistance, carefully place the BASERACK on the vehicle so the inside of the blade brackets rests on the outside of the mounting brackets. The entire BASERACK assembly should be clear of the vehicle roof. All mounting holes/slots should align closely.
- 45. Note: Place protective material on roof to reduce the risk of accidental damage to vehicle when mounting the BASERACK to the vehicle.



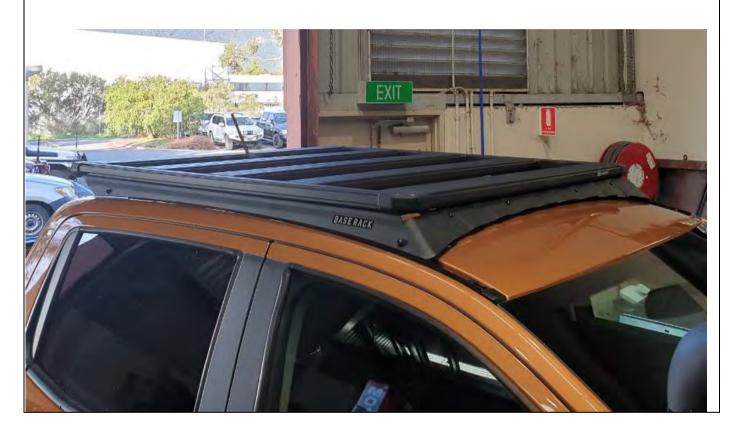
46. Confirm BASE RACK is correctly aligned to vehicle. If it is not it is recommended to remove the BASE RACK from the vehicle roof and repeat the mounting process from the measurement step #31.



47. Use the M8 Button head Torx screws and M8 Black washers to secure the roof tray to the roof mounting brackets. Tighten all screw to the specified torque.

M8 - 22Nm

FITTED PRODUCT - 2020 US Ford Ranger with 1770060 Base Rack



OPTIONAL STEP FOR BASE RACK WIRING KIT

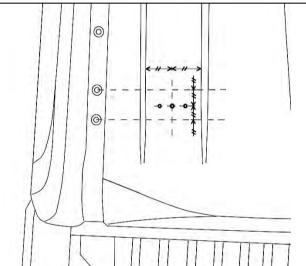
(1780400 & 1780410 SOLD SEPARATELY)

These steps are a vehicle specific supplement to the main instruction, this instruction should be used in parallel. Read and both instructions before proceeding

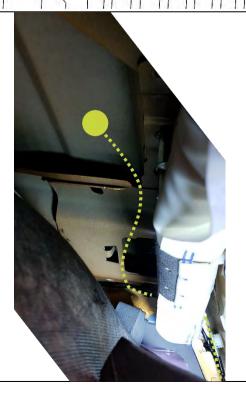


- The recommended location for the wiring kit for this vehicle is the rear, left hand side
- The location provided has been chosen to provide a safe passage away from vehicle components (airbags, vents, etc) and integrated to the rack

! CAUTION – THIS STEP MAY REQUIRE DISASSEMBLY OF SEAT BELT MOUNTS AND WORK IN THE PROXIMITY OF CURTAIN AIR BAGS!



3. Use the hole locations shown. Always verify they are clear inside the cabin before drilling



4. Run the wiring backward then follow and secure to the existing wiring loom down the rear pillar

ENSURE THE WIRING IS <u>BEHIND</u> THE AIRBAG

Obstruction of the airbag will prevent proper inflation and effectiveness