

Part Number(s): Suits BASE RACK:

17940070 1770060/70

Product Description: BASE RACK fitting kit suits:

Ford Ranger Wildtrak 2011 On models PX, PXII

& PXIII

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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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 17940020, 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)
17940070	1770060	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.

FITTING REQUIREMENTS

REQUIRED TOOLS FOR FITMENT OF PRODUCT:

Basic tool kit	Centre punch & small hammer	
Torque wrench	Metric Torx key set	
9.0mm drill bit & cordless drill	Metric Allen key set	

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:

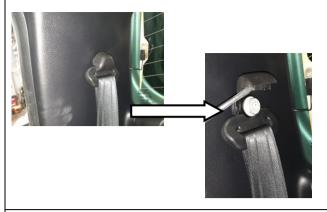
SIZE	Torque Nm	Torque Ibft
M6	9Nm	7lbft
M8	22Nm	16lbft
M10	44Nm	32lbft
Seat Belt Bolts	50Nm	36lbft
M12	77Nm	57lbft

PARTS LISTING - BASE RACK fitting kit			
PART NUMBER	SUITS BASE RACK	QTY	DIAGRAM
17940070	1770060	1	

PARTS LISTING 17940020					
PART NO.	PICTURE	QTY	DESCRIPTION		
3750573L	(c _ 0)	1	BLADE BRACKET RANGER LH		
3750573R	o (c. 1)	1	BLADE BRACKET RANGER RH		
4655137R		1	WELD ASSY REAR BLADE FOOT R		
4655138R		1	WELD ASSY REAR BLADE NUT R		
4655139R		1	WELD ASSY FRONT BLADE FOOT R		
4655140R		1	WELD ASSY FRONT BLADE NUT R		
4655137L		1	WELD ASSY REAR BLADE FOOT L		
6151475		4	M6 U-NUT		

4655138L		1	WELD ASSY REAR BLADE NUT L
4655139L		1	WELD ASSY FRONT BLADE FOOT L
4655140L		1	WELD ASSY FRONT BLADE NUT L
4584415		8	M8 WASHER FLAT - BONDED
6151934		1	TORX ALLEN KEY
6151625		12	M8 X 1.25 X 25 BUTTON HEAD TORX - BLK
4581085		16	M8 WASHER FLAT - BLACK
3750574		1	FRONT DIFFUSER
3750575		4	DIFFUSER MOUNT BRACKET
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		4	SCREW BHD M6x16 BTZP480
6781408		3	TAPE DOUBLE SIDED 0.8 X 15 X 300
668PB028		1	TAPE-RL-24x6.4x1600mm SBR7010
6253417	to: 02/09/2021 Page 5 of 19	8	SPACER BUMPER SUPPORT SUIT NP300 21 ON Eitting instructions# 37800080

FITTING PROCEDURE



The interior roof lining needs to be released along all edges to install the cab rack kit.

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

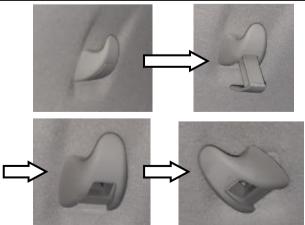
- 1. Remove the plastic cap to expose the retaining bolt on both rear side seat belts as shown

2. Undo the M10 torx head bolt on each side rear seat belt and remove. Allow the seatbelt to hang down as shown.

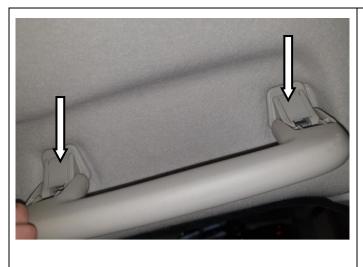




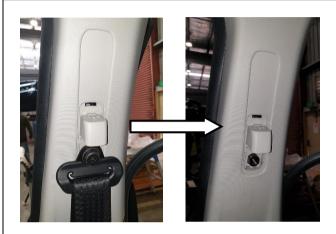
3. Pull back the door seal on the top half of the door jamb. Unclip and pull back the side rear pillar trims on both sides as shown.



4. The hooks above the rear windscreen need to be removed. Remove the centre section, rotate 45° and carefully remove the hook from the roof lining.



5. Remove the 4x grab handles. This is done by lifting the plastic covers to expose the torx head screws.



6. Remove the plastic cover to expose the retaining bolt on both front seat belts as shown.

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



 Pull off the door seal along the tops of front door jambs. Unclip B-pillar plastic trim on both sides.



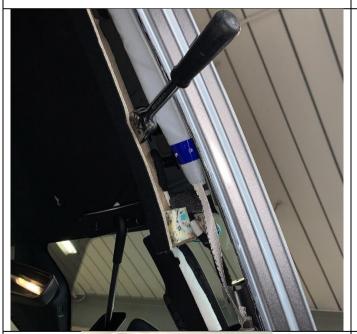
8. Remove the grab handle on both A-pillar trims. There are two small hex bolts behind the plastic caps.



- 9. Both sun visors need to be removed. Remove plastic covers exposing the small torx screws.
- 10. Let the visors carefully hang by the wiring loom as shown.



- 11. Unclip the A-pillar trims.
- 12. The roof lining should now be free along all edges.



13. Drop the roof lining, locate the nuts located up in the roof cavity, and use a rachet to remove. There are 4 nuts per rail (2 at the front and back).



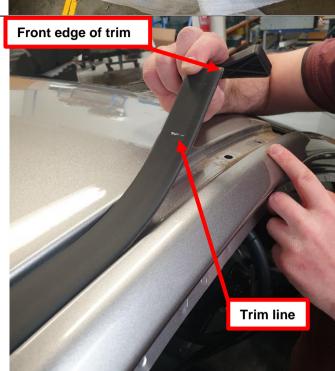
Note: Ensure not to damage the roof lining, when reaching up into the roof cavity



14. Once the nuts are removed, reach up and gently remove the brackets (2 per side).

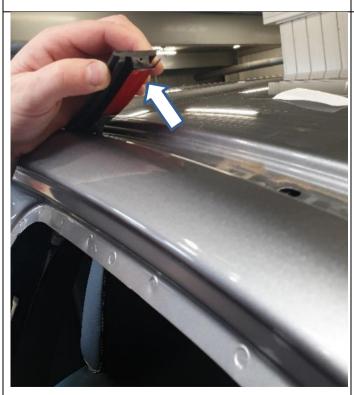


15. Once all the brackets are removed, remove the OE rails.



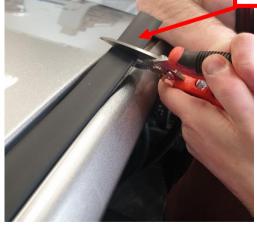
- 16. Measure approximately 65mm back from the front edge of the trim, and mark a line.
- 17. Pry the exterior roof trim from the roof until there is sufficient access to the trim line. Take care not to bend the remaining trim.





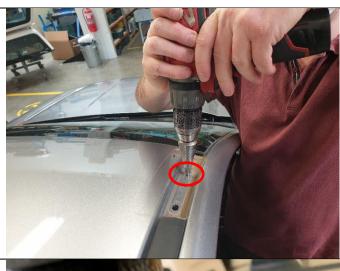
18. Remove excess trim using some pliers or an equivalent cutting apparatus.





Note: Ensure to line the roof with some protective fabric whilst cutting.

19. Apply a section of new double sided tape to the exposed underside of the trim (tape supplied in kit), and reattach to roof channel.



20. Using a step drill, drill out the front hole at the front of the vehicle to Φ8mm.

Note: Ensure to use a vacuum on the inside cavity of the roof whilst drilling.





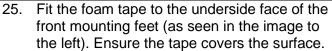
21. Repeat the same process as step 20, and drill out the rear slot at the rear of the vehicle to $\Phi 8mm$.





- 22. Clean openings of channels to remove any debris and or dirt.
- 23. Apply cold galvanising solution or rust preventative paint to cut edges of drilled holes.
- 24. Repeat steps 16 to 23 on the opposite side of the vehicle.





26. Using the bracket holes as a guide, drill 2x Φ6mm holes (2 per bracket) through the tape. Ensure not to tear the tape.

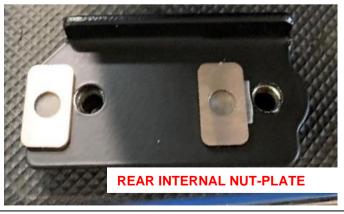
27. Repeat steps 25 & 26 for the rear feet.

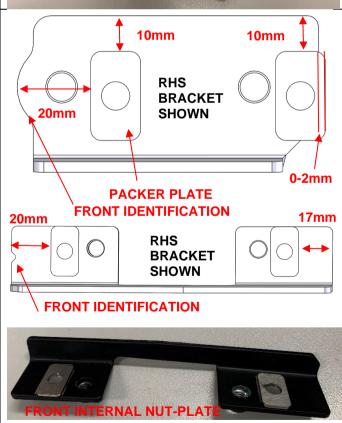


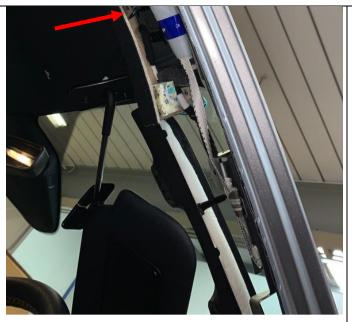
28. Cut the double sided tape into 20mm strips, and apply them to the 8x 1mm packing plates.



29. Apply the packing plates to the internal nut plates (as shown below).







30. At the front of the vehicle, carefully pry open the interior trim (minimise the amount of pressure placed on the trim), and slide the front internal nut plate above the air bag and on to the inner roof skin. Ensure that the nut plate is inserted from the rear of the reinforcement structure, and through the opening between the roof. Once through, align the holes of the nut-plate with their respective roof holes.





31. Once the holes are aligned, secure the front foot to the front internal nut-plate using M8x25mm TORX Button Head Screw (2) and M8x16 Bonded Washer (2).

Note: TORX Allen key provided.



32. At the rear of the vehicle, carefully pry open the interior trim (minimise the amount of pressure placed on the trim), and slide the rear internal nut plate above the air bag and on to the inner roof skin. Ensure that the holes of the nut-plate align with their respective roof holes.

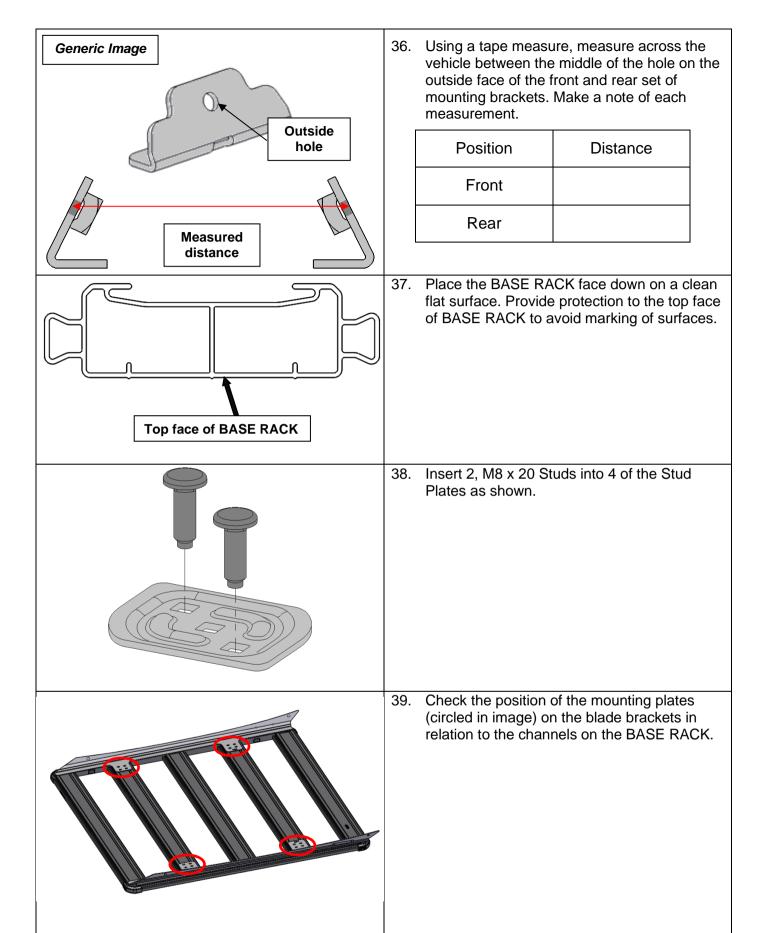


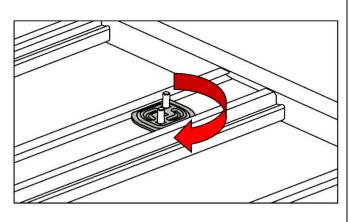
33. Once the holes are aligned, secure the rear foot to the rear internal nut-plate using M8x25mm TORX Button Head Screw (2) and M8x16 Bonded Washer (2).



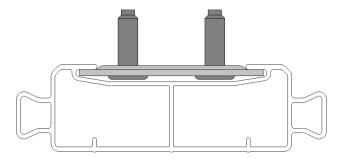
- 34. Repeat steps 30 33 on the other side of the vehicle.
- 35. Tighten all 4 feet to the correct torque settings

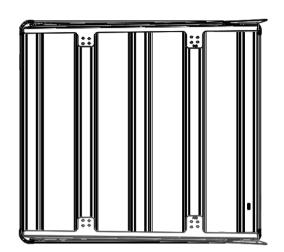
M8 - **22 Nm.**





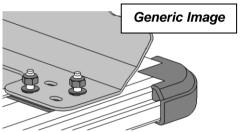
40. Insert the previously assembled stud plates into the correct BASE RACK channels. Rotate the plates 90 degrees.

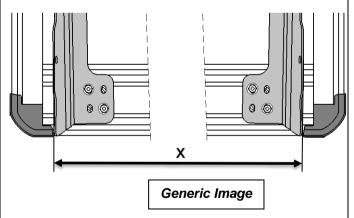




41. Flip the blade brackets over so they are upside down and carefully place on top of the BASE RACK. When doing so ensure the M8 studs in the stud plates go through the slots. Then secure the blade brackets to the BASE RACK using M8 flat washers and nyloc nuts.

Do not fully tighten, allowing each blade to move.

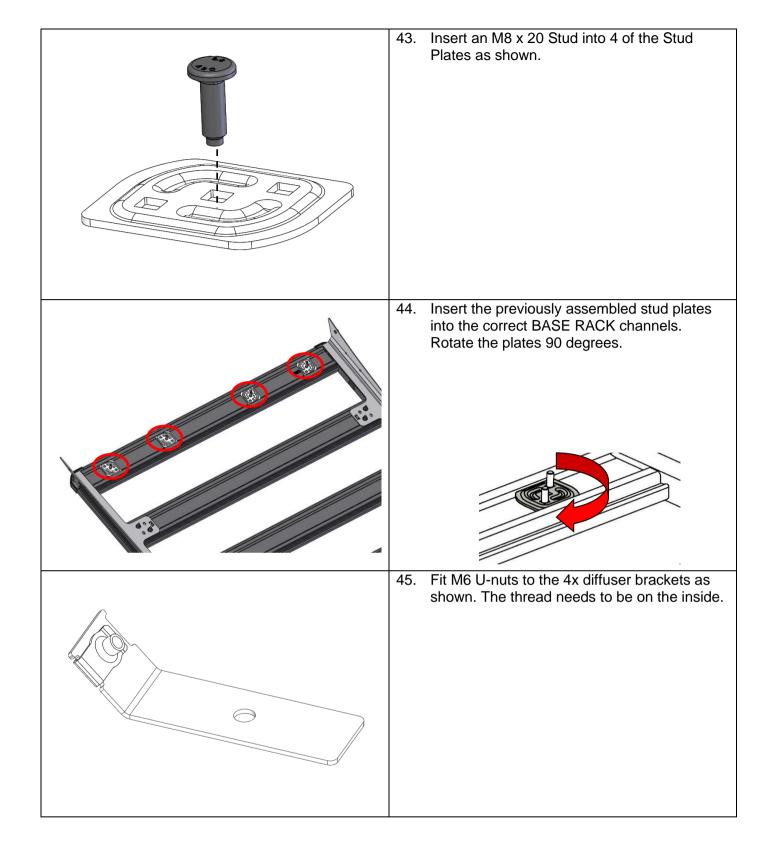


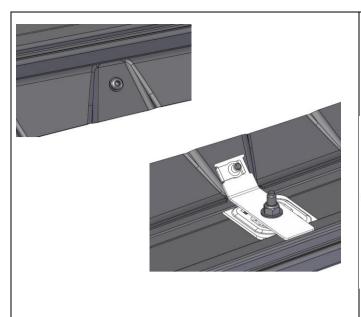


42. Using the previously recorded measurements, adjust the location of the blade bracket on the BASE RACK.

Ensure the distance between the blade bracket and the edge of the tray is the same on both sides. Fully tighten all M8 nyloc nuts to specified torque.





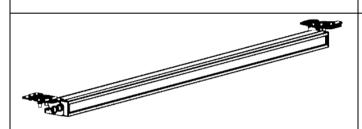


- 46. Loosely fit the diffuser to the mounts and brackets as shown. Use an M8 nyloc nut and washer to hold the diffuser brackets to the stud plates. Use M6 screws and washers to hold the diffuser to the brackets.
- 47. Tighten to specified torque.

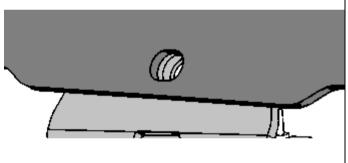






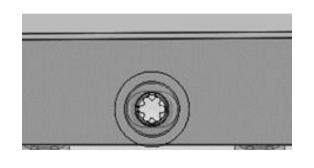


48. If fitting a BASE RACK lightbar it should be fitted to the BASE RACK at this point. Refer to instructions provided with the BASE RACK light bar for fitting details.

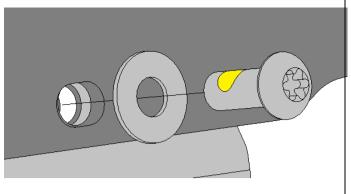


49. With assistance, carefully place the BASERACK on the vehicle so the inside of the blade brackets rests on the outside of the mounting brackets. The entire BASERACK assembly should be clear of the vehicle roof. All mounting holes/slots should align closely.

Note: Place protective material on roof to reduce the risk of accidental damage to vehicle when mounting the BASERACK to the vehicle.



50. 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 36.



51. 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.



PX & PXII aerial position shown



PXIII aerial position shown



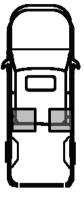
FITTED PRODUCT - 2020 PXIII Wildtrak Ford Ranger with 1770060 Base Rack



OPTIONAL STEP FOR BASE RACK WIRING KIT

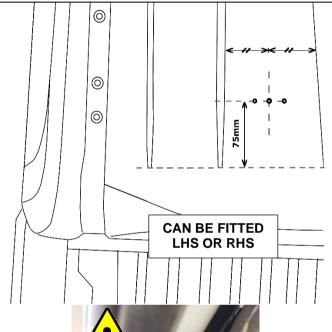
(1780400 & 1780410 SOLD SEPARATELY)

These steps are a vehicle specific supplement to the main instruction



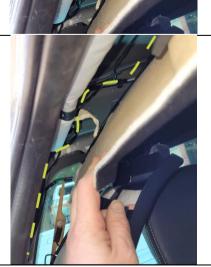
52. The recommended location for the wiring kit for this vehicle is the rear, left or right hand side

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



53. Mark out the hole location between the outer roof ribs as shown. Always verify they are clear inside the cabin before drilling

! CAUTION – TAKE CAUTION NOT TO DAMAGE CABLES ATTACHED TO THE INNER ROOF SKIN & ROOF LINING!



54. Run the wiring backward then follow 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