

Part Number: 1780400 & 1780410

Product Description: Roof Rack Wiring Kit - Wired & Provisional

## **WARNING**

- Care must be taken to ensure the vehicle is not damaged. In particular be aware of curtain airbags, air vents and sunroof cavities
- Vehicle roof linings are easily damaged by creasing, as well as easily marked by dirt and grease. Caution should be used during lowering/removal steps
- If the roof rack is intended to be removed regularly, it is recommended to add an optional connector housed inside the roof (connector not provided)
- This product must be installed exactly as per these instructions using only the hardware supplied
- These instructions are correct as at the publication date
- During installation, it is the duty of the installer to check correct operation/clearances of all components
- Work safely at all times

## **ARB 4x4 ACCESSORIES**

Corporate Head Office

www.arb.com.au

42-44 Garden St Kilsyth, Victoria AUSTRALIA 3137

Australian enquiries North & South American enquiries Other international enquiries Tel: +61 (3) 9761 6622 Fax: +61 (3) 9761 6807

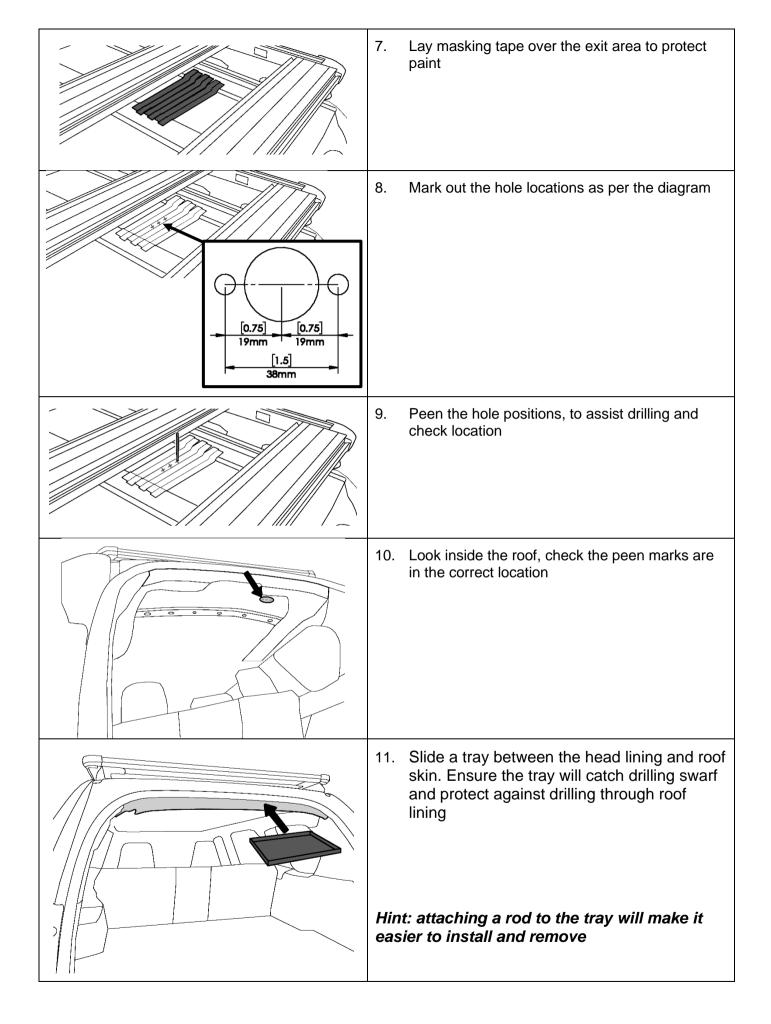
> sales@arb.com.au sales@arbusa.com exports@arb.com.au

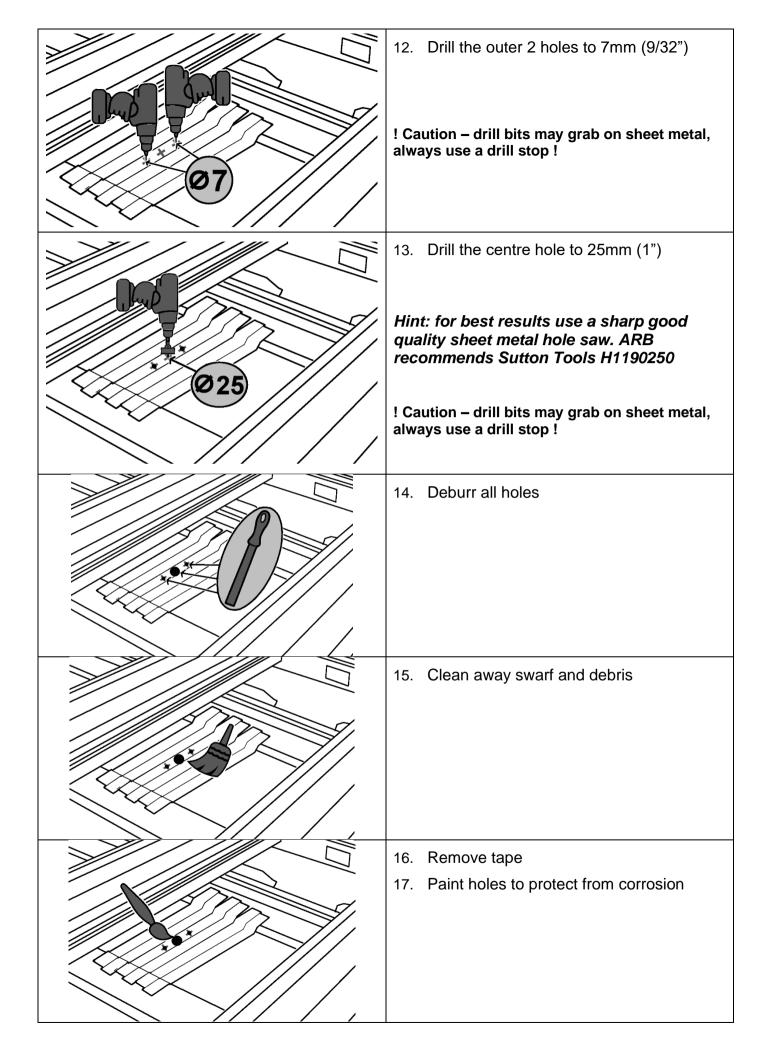
#### REQUIRED TOOLS FOR FITMENT OF PRODUCT:

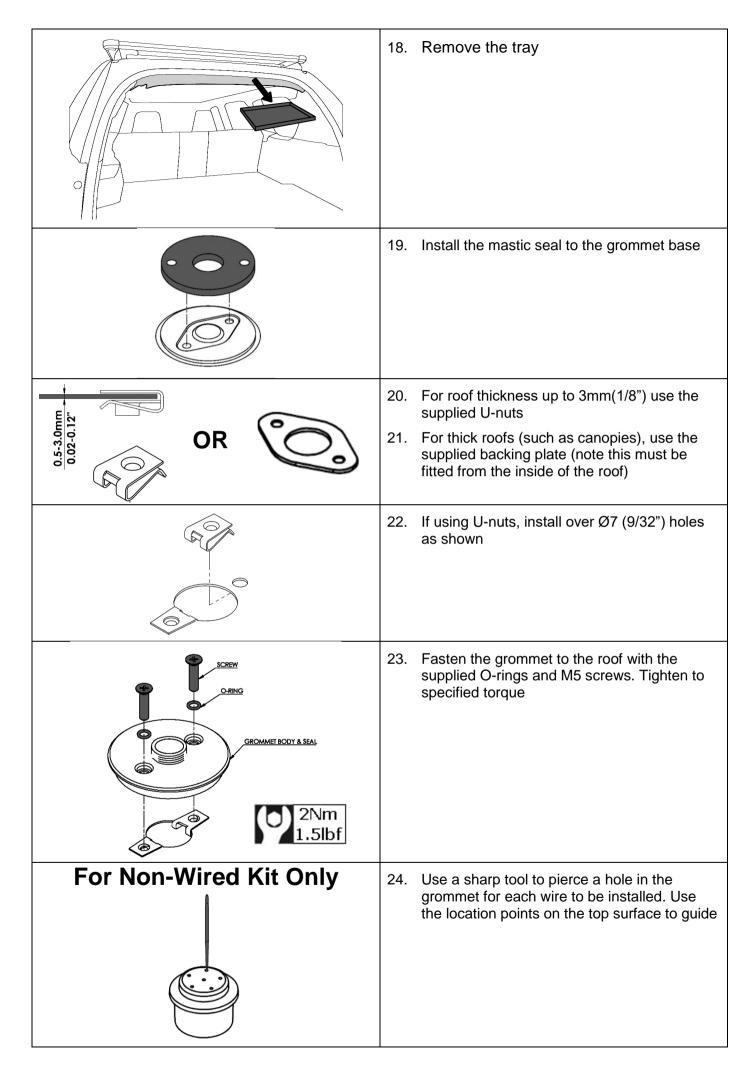
Phillips head screwdriver	Trim removal tools	
Metal tray	Deburring tool	
Touch up paint	Ruler	
Scissors	7mm(9/32") drill + drill stop	
25mm sheet metal hole saw	Centre punch	
(ARB recommends Sutton Tools H1190250)		

PARTS LISTING				
APPLICATION.	SPARE PART KIT #	QTY	DESCRIPTION	
	6980350	1	BOOT MAIN MOULDING	
		1	GROMMET BASE RACK EXIT	
		1	GROMMET DIRECT EXIT	
	6980380	1	GROMMET MAIN BODY	
with 1780400		1	GROMMET WITH WIRES	
with	6980310	1	GROMMET INSERTABLE TYPE 1	
1780410	0000010	1	GROMMET INSERTABLE TYPE 2	
	6980310	1	NUT MOULDED M27x1.5	
with	6980310	1	O-RING BS018	
with 1780410	6980310	1	SLIP RING	
600	6980370	2	SEAL GROMMET MAIN	
	6980360	1	GROMMET BOOT TO BASE RACK	
	6980340	1	PLATE NUT GROM BACKING M5	
<b>(*)</b>		2	SCREW CSK M5x20	
		2	NUT U M5 0.5-3.0mm	
0		2	ORING BS 901 4.7X1.42MM	
8	6980330	6	CLIP CABLE TIE EDGE	

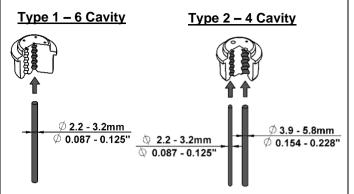
## FITTING PROCEDURE Refer to BASE Rack fitting kit instructions where, suitable drilling locations may be provided. 2. Plan the location Option 1 - Direct to device or through rack Wiring may run inside a rack, or go straight to a device (e.g. a light) Option 2 - Vehicle exit point (front or back, left or right) It is recommended to exit from the rear where possible Read all instructions before starting work 3. Lower the roof lining near the exit point ! Caution - roof linings are easily damaged by creasing as well as easily marked by dirt and grease! 4. Locate a clear area of the roof skin for exit 5. Confirm the area clears the roof rack ! Caution - particular care must be taken to avoid curtain airbags, cross members and air vents! 6. Clean the roof near the exit point







### For Non-Wired Kit Only

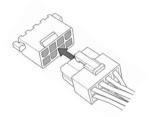


- 25. Insert one wire through each hole in the grommet. Wire should be in the size range shown to ensure sealing
- Type 1 and Type 2 grommets suit different wires gauges – refer to diagram for correct wire diameters

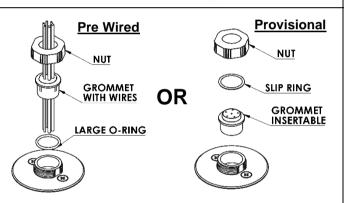
Hint: soapy water will aid installation

! Caution: excessive force and dragging may damage the seal!

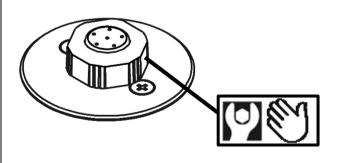
## **Optional Step**



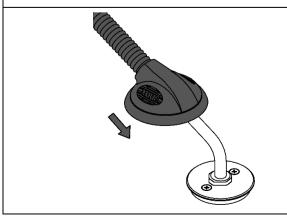
- 27. Add inline connector(s) to fit inside roof (connector not supplied)
  - Adding a connector(s) will aid removal and reinstallation of rack
- ! Caution: ensure the connector(s) will not cause rattles in roof and can pass through the 20mm (0.79") drilled hole!



- 28. Install the wiring gromet, nut and parts as per the diagram
  - For pre-wired version, fit the supplied oring, then grommet with wires, then the nut
  - For provisional/insertable version install the insertable grommet, then the supplied plastic slip ring, then the nut



- 29. Tighten nut by hand
- 30. The nut will come to a hard stop on the thread



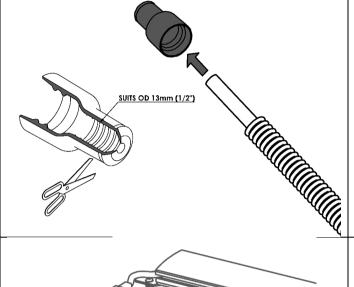
31. Install the boot over the wires and clip the boot over the grommet

Hint: soapy water will aid installation

## For Direct to Device fitment go to Step 32

## For installation into BASE Rack go to Step 35

#### For Direct To Device

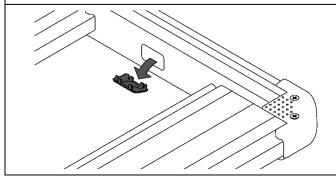


- 32. Install the direct end boot over the cable and boot tail
- 33. If the wires do not fit through the hole, the grommet can be cut to accept 13mm (1/2")
  Outer Diameter convoluted tubing



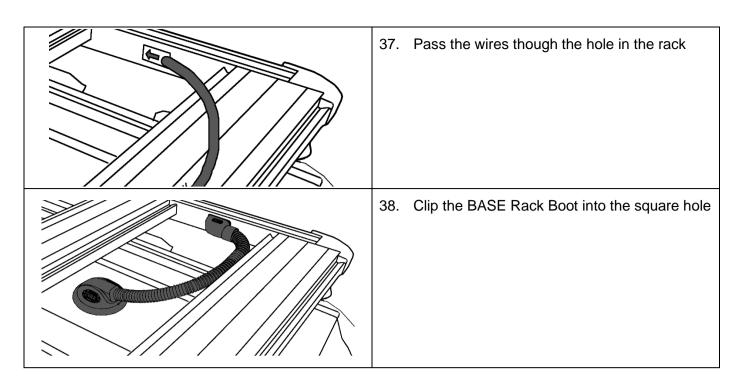
# 35. Install the BASE Rack Boot over the cable and boot tail

For BASE Rack



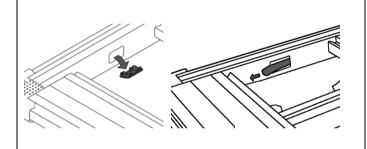
36. Remove the plastic cover from the rack, closest to the roof exit

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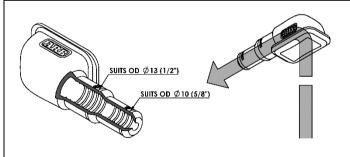


# **EXITING THE BASE RACK**Please note there are multiple options for exiting the rack

#### Using the square exit boot

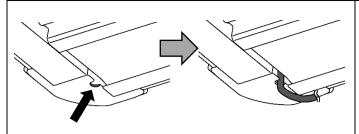


- 39. Remove the plastic cover from the rack
- 40. Pull wires through the hole



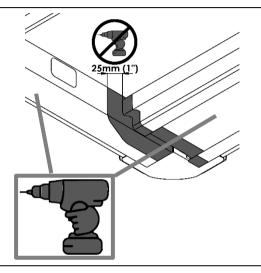
- 41. Pull the wires through the exit boot
- 42. If the wires do not fit through the hole, the grommet can be cut to accept 10mm (3/8) or 13mm (1/2") Outer Diameter convoluted tubing
- 43. Clip the boot into the hole

#### Notching the end cap



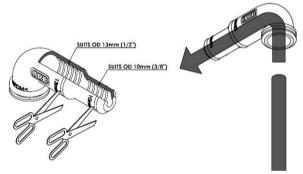
- 44. Create a small notch in the lower roof rack end cap
- 45. Guide the wires from the end of the extrusion and out through the notch in the cap

#### Using optional 6980320 16mm 90° Boot Sold Separately

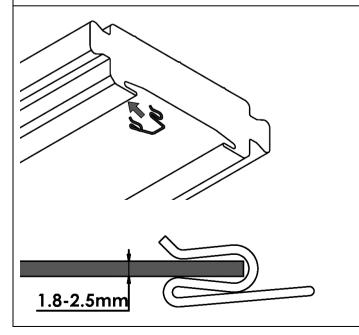


- 46. Use the boot to exit the BASE Rack, through a 16mm (5/8") hole
- 47. Note additional boots can be purchased separately
- 48. The hole can be drilled in the BASE Rack alloy, minimum 25mm (1") away from welds areas

! Caution: never drill in welded areas, it may lead to failure!



- 49. Feed the wires through the 90° Grommet
- 50. If the wires do not fit through the hole, the grommet can be cut to accept 10mm (3/8) or 13mm (1/2") Outer Diameter convoluted tubing



51. Use the cable ties and edge clips to neatly route wiring