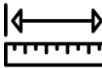
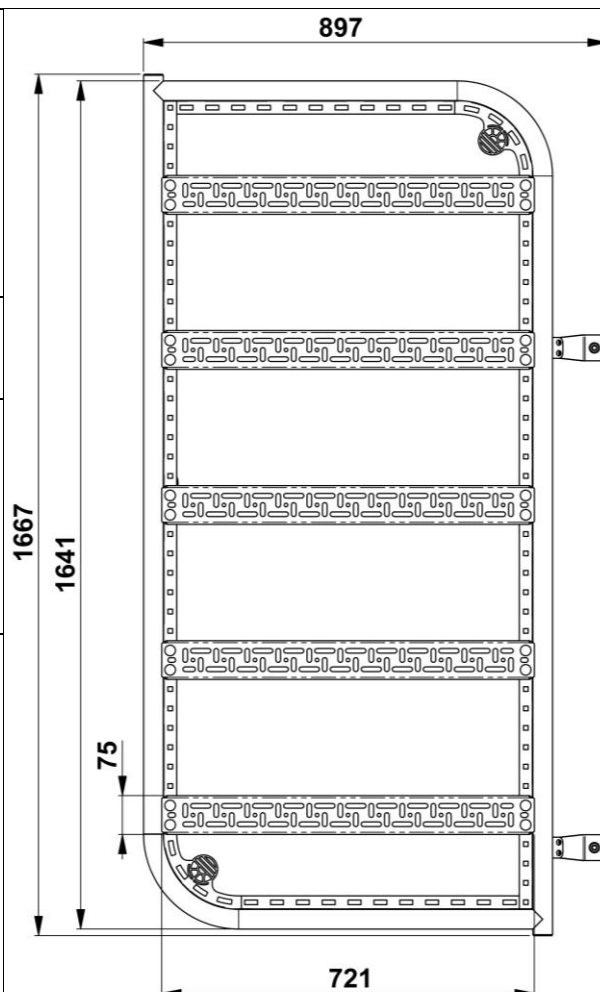


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INSTALLATION AND USE INSTRUCTIONS FOR: MERCEDES VARIO BACKRACK – RIGHT HAND				
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CONTACT INFORMATION

	UK MANUFACTURER CONTACT DETAILS
	WHEELIAMS LIMITED, SCARBOROUGH, NORTH YORKSHIRE, UNITED KINGDOM E: SUPPORT@WHEELIAMS.CO.UK

	APPLICABLE VEHICLES MERCEDES VARIO 1996-2013 Note that vehicle components shown in these instructions are schematic and may not look exactly the same as those on your vehicle.
	ASSEMBLED PRODUCT DIMENSIONS Overall product dimensions: WIDTH 897mm, HEIGHT: 1667, DEPTH 196mm
	PRODUCT WEIGHT 13.5Kg
	PRODUCT CHECKING Please note that as part of our manufacturing process this product has been physically fitted to the specified vehicle door and has been proved to fit correctly.
	PRODUCT LOAD CAPACITY 50Kg applied evenly over multiple rungs. Always position heavier loads in the centre of the Backrack, in line with the left hand support bracket. Do not use this product as a step or Backrack to reach other accessories or other parts of the vehicle.
	APPLICABLE AGE RANGE



	INSTALLATION SKILL LEVEL
SKILL LEVEL	SKILLS REQUIRED
2  	This product should be installed by a person of age 18+ with reasonable practical and mechanical skills and who is familiar with hand and power tools.

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GENERAL INSTRUCTIONS

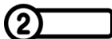
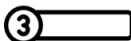
IMPORTANT – READ THE INSTRUCTIONS CAREFULLY BEFORE HANDLING, INSTALLATION AND USE. YOU MUST KEEP THE INSTRUCTIONS WITH YOUR VEHICLE DOCUMENTATION AND PASS ON TO ANY SUBSEQUENT USER OR PURCHASER.

Throughout this document you will see the following symbols; note their meanings and follow the associated instructions:

	WARNING indicates a hazardous situation which, unless avoided could result in death or serious injury.
	CAUTION indicates a hazardous situation which, unless avoided, could result in minor or moderate injury.
	MANDATORY ACTION indicates instructions that must be followed to avoid the risk of personal injury and damage to the product or other equipment.
	IMPORTANT indicates instructions that must be followed to avoid damage to the product or other equipment.
	NOTE indicates additional information for the for the best use of and maintenance of your product.
	CAUTION: WEAR EYE PROTECTION
	CAUTION: FINGER OR HAND TRAP HAZARD
	CAUTION: FINGER OR HAND CUTTING HAZARD: WEAR GLOVES

	SAFE SETUP Before carrying out any work on your vehicle: • ensure that the vehicle is in a stable position and will not move when work is being carried out • if the vehicle rear doors are open, ensure that they are securely latched and will not swing onto you or any passing personnel or vehicles • ensure that other people are protected from any operations that you carry out and that your product or installation equipment do not present a hazard
	SAFE WORK • Before carrying out any work on your vehicle or product always wear the correct personal protective equipment. • Don't struggle to move or position the product by yourself. Always get help if you need it.
	SAFE USE Vehicle doors fitted with additional accessories are much heavier than standard doors: • if the vehicle rear doors are open, ensure that they are securely latched and will not swing onto you or any passing personnel or vehicles • to avoid damage to your accessories or vehicle:
	DO NOT SLAM THE DOORS - ALWAYS CLOSE THE DOORS GENTLY!

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   	INSTALLATION SEQUENCE SUMMARY It is important to follow the correct sequence when installing your product. Critical steps are: 1. Immediately on receipt of your product read all instructions and safety information thoroughly. 2. Your product has been supplied uncoated, do not apply any coating until the product fit has been checked on your vehicle and all preparatory work has been carried out on the vehicle. 3. Follow the installation process shown below and ensure that your product is fitted correctly to your vehicle. 4. Apply the final product finish. 5. Finally re-fit the coated product as specified in the instructions and safety information.

	WHAT'S IN THE KIT? A RIGHT HAND rear door mounted BACKRACK. All components are shown in the exploded assembly drawing on Page 5
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WHAT TOOLS AND EQUIPMENT DO I NEED?		
	SAFETY GLASSES	Impact resistant to EN166 Grade F or better
	WORK GLOVES	Cut resistant to EN388:2003 Level 3 or better
	OPEN ENDED SPANNERS	10mm (M6), 17mm (M10)
	SOCKET WRENCH & SOCKETS	HEXAGON: 10mm (M6), 17mm (M10)
	ALLEN KEYS	5mm (M6)
	TORQUE WRENCH	24Nm Capacity
	DRILL & DRILL BITS	HSS Drill bits: Ø5 - 90-100mm long, Ø9  PRO-TIP: A blunt drill will require extra pressure on body panels which may distort the panel. Always use a sharp drill bit, drill a pilot hole first the open that hole out to the final size.
	TRIM REMOVAL TOOLS	To minimise damage to your vehicle trim or door card you will need an automotive trim removal tool or set of tools. Trim can removed with other tools such as a flat bladed screwdriver but there is an increased risk of trim or trim fastener damage.
	ADHESIVES AND SEALANTS	Sikaflex 522 or C-TEC CT1 or similar adhesive/sealant.
	PAINT	Suitable paint to protect the edges of drilled holes or other cut edges.

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PRODUCT FINISH

PAINTING

Your product is supplied unpainted to avoid the risk of coating damage during shipping or initial installation. You should arrange for the product to be painted, or powder coated by your local contractor.

For the most durable coating you should ensure that your contractor prepares the product correctly by sandblasting and cleaning the product before coating. Colour and finish are your choice; however, we recommend three-stage powder coating or Epoxy Primer followed by a polyurethane based topcoat such as *Upol Raptor*. Please note that we cannot accept any responsibility for the quality and durability of any applied finish.



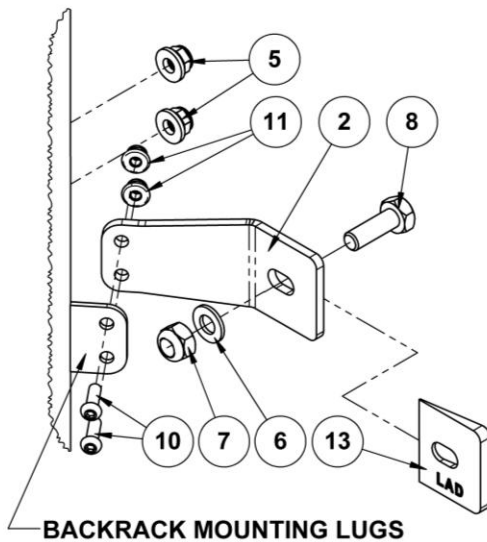
HOT DIP GALVANISING

Any square or rectangular tubes in your product are supplied sealed and consequently are NOT suitable for hot-dip galvanising without further work. Liaise with your galvanising contractor for further information.



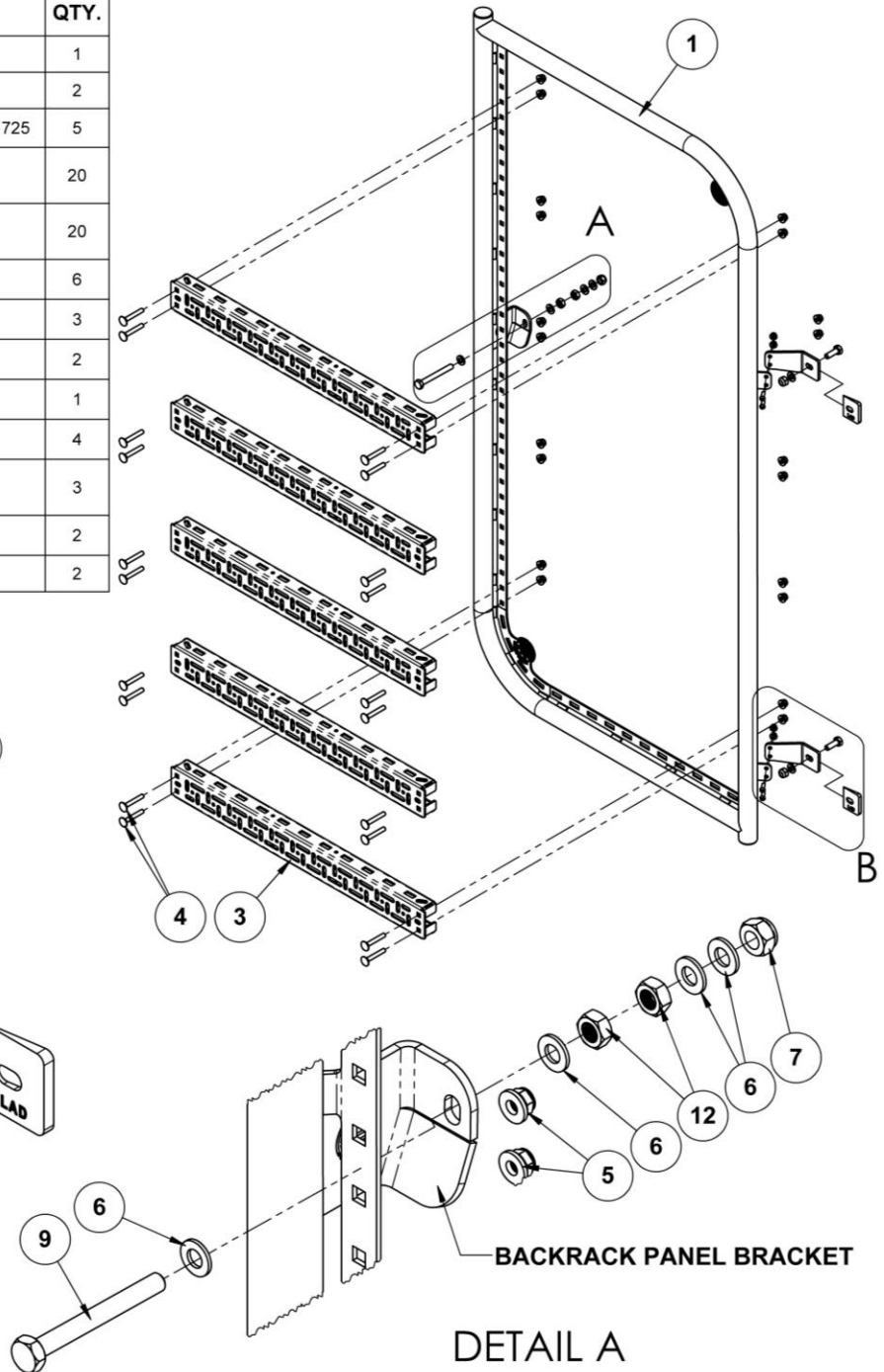
PARTS DIAGRAM

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	A06-0853-A	BACKRACK FRAME	1
2	A02-0759-A	HINGE BRACKET	2
3	A02-0590-B	BACKRACK RUNG - 725	5
4	M8x55 - DOME HEAD COACH BOLT - STAINLESS A2	STOCK FASTENER	20
5	M8 - HEXAGON-GR.8.8 NUT-NYLOC - FLANGED - STAINLESS A2	STOCK FASTENER	20
6	M10x20x2 - FLAT - FORM A WASHER - BZP	STOCK FASTENER	6
7	M10 - HEXAGON-TYPE P-GR.8.8 NUT-NYLOC - BZP	STOCK FASTENER	3
8	M10x30 - HEXAGON SETSCREW - BZP	STOCK FASTENER	2
9	M10x90 - HEXAGON SETSCREW - BZP	STOCK FASTENER	1
10	M6x20 - BUTTON SOCKET SETSCREW - BZP	STOCK FASTENER	4
11	M6 - HEXAGON-GR.8.8 NUT-NYLOC-FLANGED - BZP	STOCK FASTENER	3
12	M10 - HEXAGON-GR.8.8 NUT - BZP	STOCK FASTENER	2
13	P02-1268-A	HINGE PACKER	2



BACKRACK MOUNTING LUGS

DETAIL B

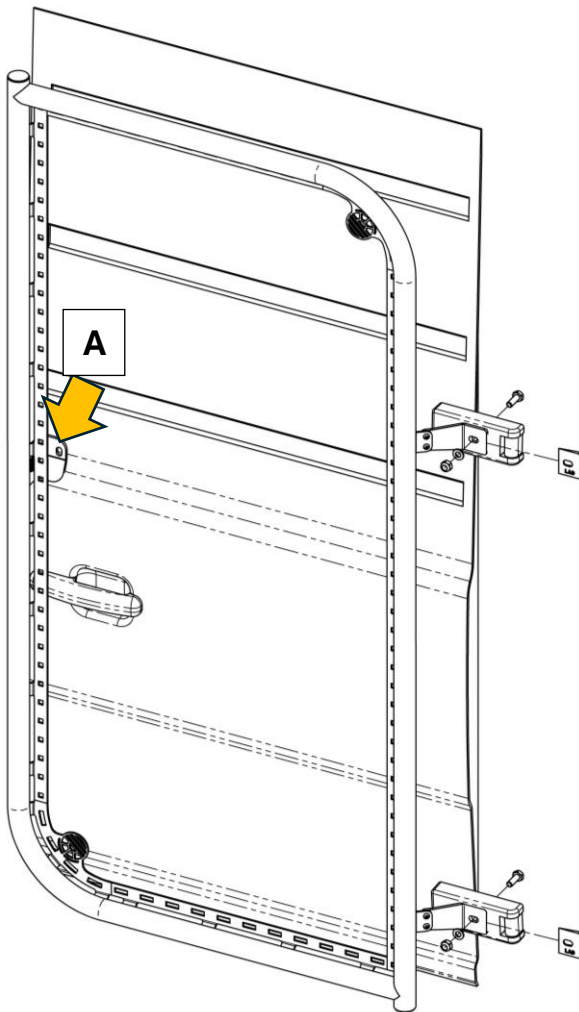


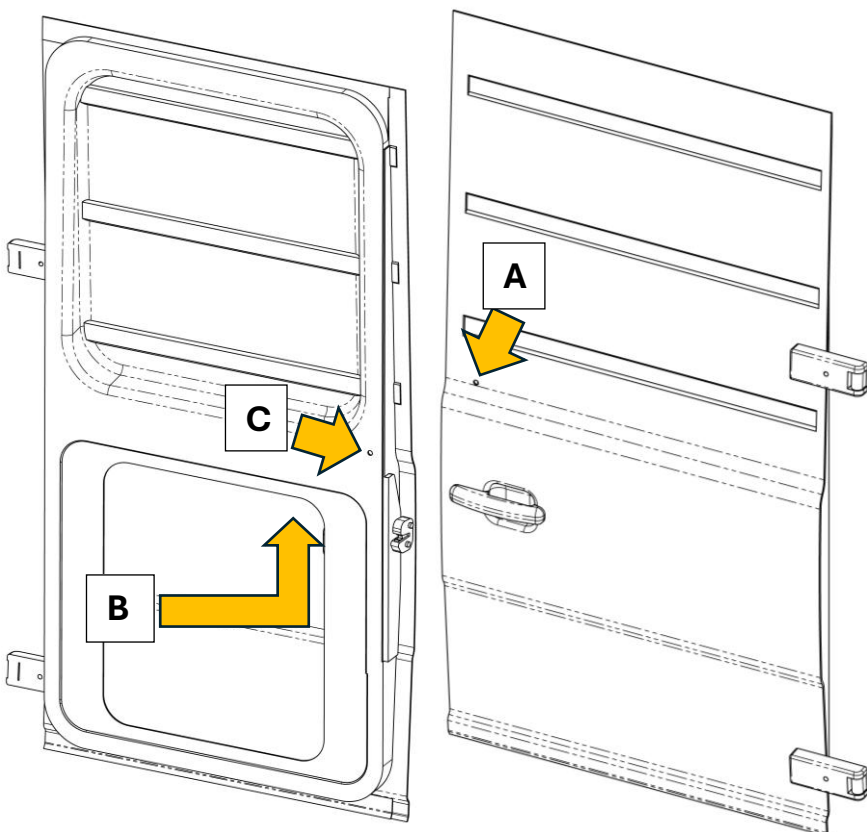
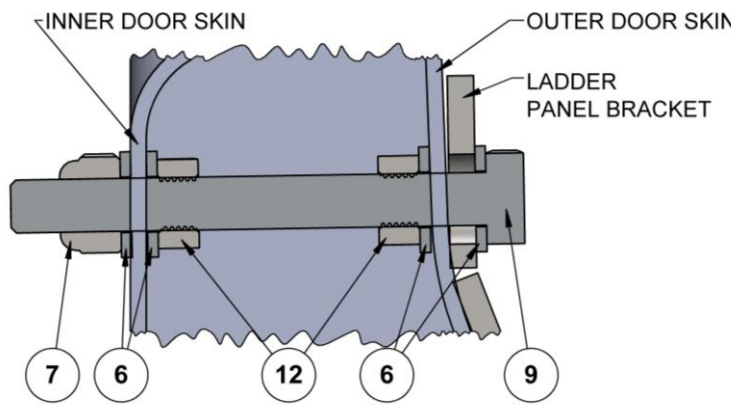
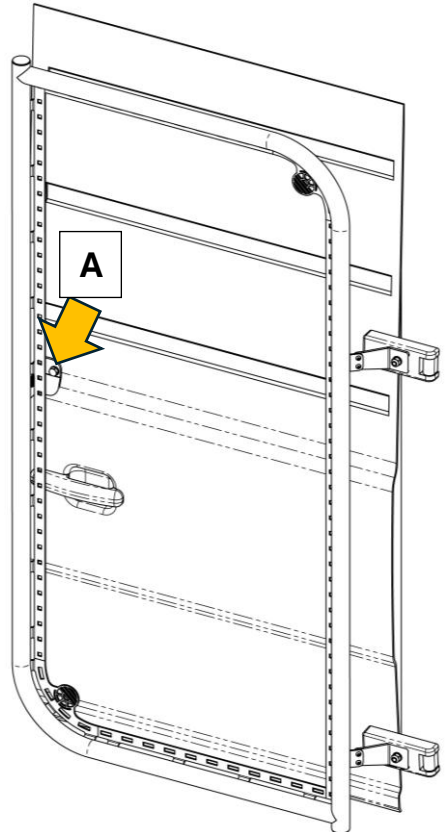
BACKRACK PANEL BRACKET

DETAIL A

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INSTALLATION INSTRUCTIONS

1		Locate all the components shown in the PARTS DIAGRAM At this stage we recommend that you protect the door face and hinges in order to prevent scratching of paintwork as you handle the Backrack components. Applying masking tape in contact areas is a simple way to provide surface protection and the tape is also a good surface on which to mark hole positions, The next steps are done more easily and safely with two people, one to hold the Backrack and one to insert bolts. <i>Note the following illustrations show a door with 180° hinges. The same installation procedure applies to doors with 270° hinges with the addition of angled packers at the hinges as noted in the instructions below.</i>
2	  	Away from the vehicle, attach the Hinge Brackets to the Backrack Mounting Lugs using M6 fasteners as shown in the Parts List. Hand tighten the fasteners.
3	    	Place the assembled Backrack onto the right hand door, aligning the slots in the Hinge Brackets with the holes in the faces of the door hinges. Insert the M10 setscrews from the back of the hinges and fit flat washers and Nyloc nuts on the front as shown in the Parts Diagram. Check that the Backrack Panel Bracket sits correctly on the profile of the centre door rib and that the Backrack lies parallel to the door centreline. Hand tighten the hinge bracket fasteners. If necessary, support the Backrack in the correct position then mark the position of the Backrack Panel Bracket Hole on the door as shown at 'A' prior to drilling the door. <i>Note: If fitting to 270° door hinges insert the black plastic spacers marked "LAD" between the Hinge Brackets and the angled hinge faces to allow the Hinge Brackets to sit in their correct positions.</i> Remove the Backrack from the door. 

4     	On the inside of the right hand door remove the lower door card at 'B' and check that there are no cables or other obstructions within the door cavity where the hole is to be drilled through from the marked position 'A', coming through the inner door skin at 'C'. On the outside of the door at the marked door panel position 'A', drill a pilot hole $\varnothing 5\text{mm}$ completely through both door skins. Take care to ensure that the hole is perpendicular to the door face. Open the holes in both door skins out to $\varnothing 9\text{mm}$ using a $\varnothing 9\text{mm}$ drill bit. Remove any burrs from the edges of the holes. 
5    	Re-fit the Backrack to the hinges as Step 3. Refer to the Parts List on Page 5 and assemble the Panel Bracket connection at 'A' as shown in the section through the door at this position below. Hand tighten the fasteners. Check that the Backrack Panel Bracket sits correctly on the  profile of the centre door rib and that the Backrack lies parallel to the door centreline. 
6 	Once you are satisfied that the fit is correct, remove the Backrack, dismantle the Hinge Brackets and paint or coat all Backrack components as required. Apply a suitable paint finish to the cut edges of all drilled door and hinge holes to minimise the risk of corrosion.

**7**

Once all components are painted, reassemble the Backrack and bolt to the hinges as before, leave these fasteners loose.



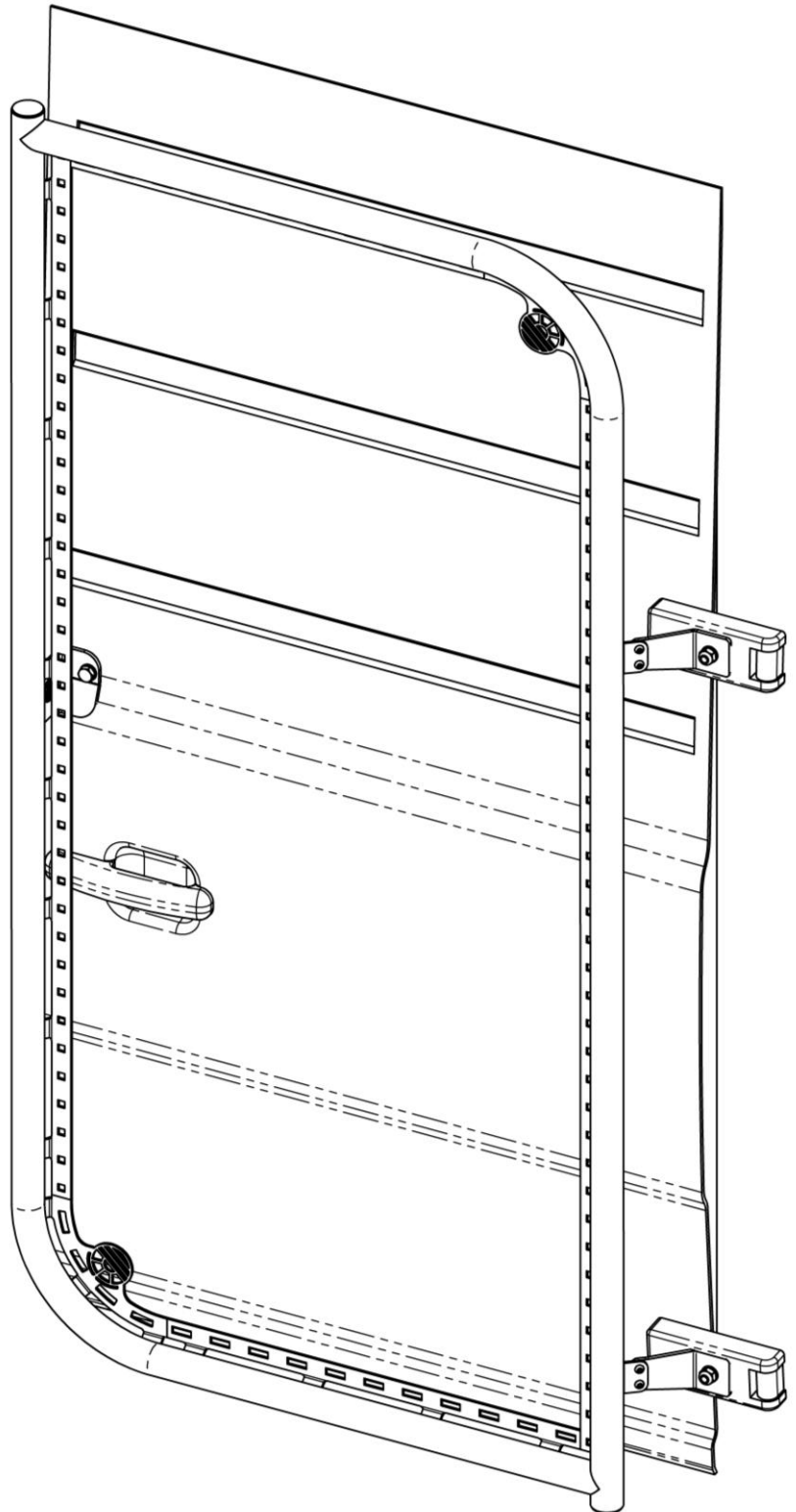
Pull the panel bracket side of the Backrack slightly away from the door. Carefully apply sealant/adhesive between the back of the panel bracket and the door panel so that it will form a layer of sealant between the bracket and the door when clamped up.

Re-fit the fasteners through the panel bracket and through the door and hand tighten.



Finally, tighten all fasteners to their recommended torque settings.

Replace the inner door card.



**8****ASSEMBLE RUNGS**

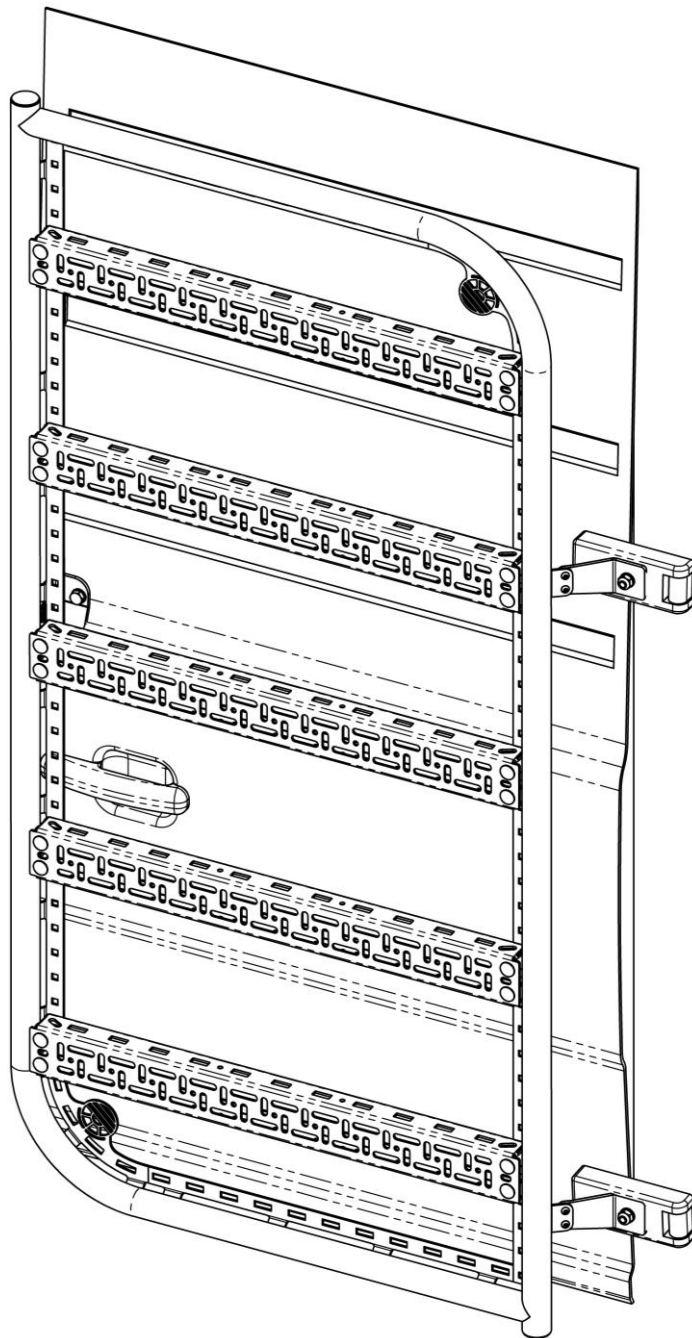
Position the Backrack rungs in any suitable position using four fasteners per rung as shown in the Parts Diagram. Check that the rungs sit flat on the supporting bars.

Ensure that the rungs are positioned so that they do not interfere with the operation of the door handle.



Check that all rung fasteners are fully tight.

The Backrack assembly is now complete.



INSTRUCTIONS FOR MAINTENANCE AND USE



MAINTENANCE

Protection:

All painted products benefit from further surface protection. We recommend applying [GYEON Q²M WetCoat](#) to your finished Wheeliams product to maximise the life of your finish.

Cleaning:

To further prolong the life of your product, ensure that it is regularly cleaned by pressure washing with water and a detergent. Do not apply solvents or corrosive cleaning agents.



Check vehicle connections:

Once every month and before & after long or aggressive journeys check all fixings to ensure that all are tight to the torque settings originally applied. Check vehicle fittings and panels around mounting points to ensure that there are no signs of stress or deflection on the vehicle.



CHECK AFTER FIRST USE

After your first journey with the product fitted, check all fixings to ensure that all are tight to the torque settings originally applied. Check vehicle fittings and panels around mounting points to ensure that there are no signs of stress or deflection on the vehicle.

REFERENCE INFORMATION



TORQUE SETTINGS FOR METRIC FASTENERS

To ensure that all fasteners are secure when installed, and on subsequent checks, we recommend the following torque values for all metric fasteners:

COARSE THREAD SIZE. STEEL GRADE 8.8 FASTENERS, ZINC PLATED	RECOMMENDED MAXIMUM TIGHTENING TORQUE (Nm)
M5	5.8
M6	9.9
M8	24
M10	48
M12	83
M16	200

COARSE THREAD SIZE. STAINLESS STEEL GRADE A2-70 FASTENERS	RECOMMENDED MAXIMUM TIGHTENING TORQUE (Nm)
M5	5.1
M6	8.8
M8	21.4
M10	44
M12	74
M16	183

NOTE: These torque values are nominal, and you may need to adjust the torque if fasteners are lubricated.



LIFTING AND HANDLING

When lifting or handling the product always follow safe manual handling guidelines:

- **Plan:** Plan the lift and practice the route
- **Position:** Centre your body and feet, and keep your back straight
- **Pick:** Use a firm grip, and lift with your knees, not your back
- **Proceed:** Keep the load close to your body, and look forward
- **Place:** Put the load down on a hip-height surface, and lower it without jerking or dropping it

