

Patriot Products

The ORIGINAL, and
BEST, modular roof
rack system,
manufactured in the
UK!

Product Guide & Assembly Instructions For a 2.8m Roof Rack



D110-2800-FLR-RTC-PCB

*Patriot 2.80 m roof rack for a Land Rover Defender 110 SW
(shown with optional full luggage rail)*

www.patriotproducts.online

A Few Words of Welcome

from the manufacturer of Patriot Products:

“Welcome, and thank you for purchasing our high quality, modular roof rack system for which we are justifiably proud to have been the first to design and make. We manufacture the complete range of Patriot Products entirely in the UK and export them all over the world, supporting the British manufacturing industry and contributing to the global economy - but once we have sold a product it doesn't just end there!

Apart from having acquired the best in expedition-duty roof racks, as a valued Patriot customer, you now have access to many more benefits including:

- ✓ Lifetime Warranty* Even if you sell your roof rack at some point in the future, the warranty will be passed to the new owner – a great selling point and a fantastic second-hand value too! **Don't forget to register your purchase to activate the warranty, by completing and returning the Product Registration Form, found at the back of this publication.**
- ✓ Excellent after-sales service & support from our knowledgeable team. After all, no-one knows more about Patriot's products than the company that manufactures them!
- ✓ Patriot's Customer Loyalty Scheme - register your product(s) and you could receive a discount on your subsequent purchases.
- ✓ Options to purchase our other high quality accessories, which all fully-integrate, to compliment your rack and provide load-carrying flexibility
- ✓ Replacement or additional parts and fixings available immediately from stock
- ✓ Clamps and brackets to fit popular makes of tents and awnings available from stock, or can be made upon request
- ✓ Bespoke accessories for your vehicle, inside and out, can be designed and manufactured to suit your exact requirements

We are very confident that you will enjoy many happy years using our products and look forward to being of service to you in the future.”

Paul Hogarth

Hogarth Engineering Ltd

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** NEW ONLINE STORE ** visit www.patriotproducts.online

* *Limitations, exclusions and terms of product use apply. Please refer to "Patriot Products' Lifetime Warranty " on Page 8*

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Our Roof Rack System

Construction:

Patriot roof racks are manufactured to the highest standard.

We use aircraft grade structural aluminium for the main components and architectural aluminium for the luggage rails, to provide a strong, high quality modular product.

All fixings are made solely of stainless steel and nylock fastenings, giving extended life and excellent anti-corrosion properties. Rubber sheaths cover any component that comes into contact with your vehicle to offer the best protection.

Because our rack is modular, you can choose to add a full luggage rail at any time. The six piece set includes all parts necessary to allow any rail configuration, so that you can easily adjust your rack according to the type of load you wish to carry.

Finishes:

Choose yours in natural, anodised or powder coated (choice of RAL colours available)

Fitting Options:

Our racks are delivered flat-packed, directly to your door and come with simple-to-follow assembly instructions, or, if you prefer, a professional fitting service is offered by ourselves and our resellers.

Vehicle range covered:

Available in a variety of lengths (from 0.90 m to 3.50 m) and suitable for a wide range of 4x4 vehicles, including most models of Land Rover, Range Rover, Mercedes, Mitsubishi, Nissan and Toyota.

Need replacement or additional parts?

No Problem! Because we manufacture everything ourselves, we can supply you with everything you need.

Our 4x4 Accessories

We manufacture all of our accessories to the same high standard as our roof racks and they have been specifically designed to integrate with our other products.

Most items are available in the same range of finishes as our racks. All the pieces are well fitting, visually appealing and will perfectly complement your vehicle.

Our most popular accessories include:

- ❖ Access Ladders
- ❖ Light Brackets. Multi Accessory Brackets and Waffle Board Mounts
- ❖ Light Bars
- ❖ Loading Rollers, semi and full width
- ❖ Hi Lift Jack Mounts
- ❖ Jerry Can Holders
- ❖ Roof Bars
- ❖ Sand & Bridging Ladders
- ❖ Tilt Security
- ❖ Secure Rack Top Luggage Boxes
- ❖ Spare Wheel Mounts
- ❖ Internal, Fitted Rear Security Box (not available for all models)

*Need a bespoke accessory?
We can work with you to design and
manufacture exactly what you want.*

Our Chequer Plate

Construction:

Patriot aluminium chequer plate products are available in three ranges, to suit all budgets, and we can also supply optional foam gaskets:

- Economy - 2mm aluminium, counter-bored for rivets, aluminium rivets included
- Standard - 3mm aluminium, counter sunk holes, deburred, stainless steel fixings included
- Premium- 3mm aluminium, counter sunk holes, fully machined-chamfered edges all around, stainless steel fixings included

We currently have complete sets of chequer plate for all Land Rover Defenders (other vehicles are due to be included in the range shortly) in the same range of finishes as our other products. Items can be purchased either as sets, or individually.

- ❖ Bonnet Protectors, including Puma
- ❖ Bumper Tread Plates, short and long
- ❖ Fuel Filler Surround
- ❖ Rear Corners, Quadrants and Cross Members
- ❖ Side Sills
- ❖ Wing Top Protectors (aerial holes as necessary)

*Need a different chequer plate product?
Enquire about how we can tailor-make
products specifically for your vehicle,
inside and out.*

Powder coating & Fitting Kit

Powder coating

Powder coating is the only part of the process that is not done in-house

The systems of the powder coating company we use meet the requirements of NBS Z31 powder coating specifications, and their operating business management systems are in accordance with ISO9001-2000.

Their pre-treatment (the patented Keronite) process transforms the surface of light alloys such as aluminium into a dense, hard ceramic with outstanding resistance to corrosion and wear. As a ceramic, the surface has other useful characteristics: it acts as a thermal barrier and an electrical insulator, and yet, the Keronite layer remains flexible and resistant to cracking or chipping, providing extremely good adhesion for scratch-resistant topcoats and giving our products twice the normal life of standard powder coated finishes.

Expert fitting kit

If you choose to fit one of our racks yourself we provide all of the necessary, high quality tools, to do the job properly, free of charge. Our fitting kit includes:

- ❖ Hexagon key(s)
- ❖ Spanner(s)
- ❖ Hylomar universal gasket sealer (see below for further details)
- ❖ Tube of grease
- ❖ A Patriot pen
- ❖ Full, step-by-step, illustrated assembly instructions (found in Section 2 of this publication)

Note: We reserve the right to alter the specifications/contents of our fitting kit at any time, without prior notice, and we may substitute items with others of either equal or superior quality.

Hylomar Blue is a polyester urethane based sealant, acting as an excellent anti-corrosion barrier. It is non-setting and non-hardening, even at high temperatures. The special formulation is based on the original material developed in conjunction with Rolls-Royce to withstand the high temperatures and intense vibration found within the most demanding jointing applications. We recommend that it is used to seal all threaded parts during assembly of our products.

Further information about Hylomar, including technical data, can be found on their website:

<http://www.hylomar.com>

Product List - Roof Racks

VEHICLE	STANDARD RACK LENGTH
MAKE & MODEL	
LAND ROVER :	
Defender	
Any	0.9m
Any	1.4m
Any	1.7m
90 Hard Tops	2.0m
90 Truck Cab	2.1m
110 Hard Tops	2.8m
110 Double Cab	2.8m
130 HCPU	3.5m
Discovery	
I, II	1.4m
I, II	2.0m
I, II	2.5m
III, IV	2.25m
Freelander	
I	2.0m
Range Rover	
Classic	2.4m
MERCEDES :	
G-Wagon	
SWB	2.0m
LWB	2.5m
MITSUBISHI :	
Shogun/Pajero	
SWB	2.0m
LWB	2.3m
NISSAN :	
Patrol	
Y60	2.5m
Y61	2.5m
TOYOTA :	
Land Cruiser	
70 Series	2.0m
80 Series	2.4m
95 Series	2.5m
100 Series	2.5m
105 Series	2.3m
120 Series	2.4m

If you do not see the rack length you want for your vehicle please contact us as, it may possible for us to modify or manufacture one to suit your needs.

Product List - Accessories

TYPE OF ACCESSORY	DETAILS
Access Ladders	
Gutter to Chassis	Gutter mounted ladder for Defender hard tops only
Rear Door	Rear door mounted ladder, for Discovery I and II only
Rack to Chassis	Rack mounted ladder for Defender hard tops only
Rack to Sill	Side mounted for Defenders only (130 default)
Twin Rear (incl. with relevant racks)	Used for rear supports on Defender pick ups/ soft tops
Light Brackets	
Small	50mm x 50mm
Medium	50mm x 75mm
Large	50mm x 100mm
Extra Large	50mm x 125mm
Work Light	50mm x 125mm
Light Bars	
Defender	A light bar with seven mountings
Discovery	A light bar with seven mountings
Range Rover Classic	A light bar with seven mountings
Loading Rollers	
Full Width	A full width loading roller for all racks except Tourer
Semi Width	A reduced width loading roller for all racks
Other Accessories	
HiLift Jack Mount	A secure Hi Lift Jack Mount for Patriot roof racks
Double Jerry Can Holder	A rack mounted holder for two jerry cans
Multi Accessory Bracket	A pair of brackets for Patriot roof racks
Discovery Roof Bars	A pair of roof bars for Discovery models
Defender Roof Bars	A pair of roof bars for Defender models
Sand Ladders	Sand and bridging ladders
Tilt Security	A cage type insert for canvas tilt equipped vehicles
Top Box	A secure rack top luggage box
Waffle Mounts	Utilises Multi Accessory Brackets for mounting waffle boards etc
Wheel Mount	A secure mount for carrying spare wheels
Security Fitting Tool	Used to loosen or tighten security fittings
Security Nuts	Used to secure bolts against unwanted removal
Replacement Hannibal Spacers	Set of four, to fit a Hannibal Awning to a Patriot roof rack
Tent Clamps	For attaching tents to a Patriot Roof rack

Product List - Chequer Plate

TYPE OF ACCESSORY	DETAILS
Bonnet Centres	
Puma	A two piece bonnet protector for Puma model of Defender
Defender	A bonnet centre for Defenders (Pre'07/Puma)
Bumper Tread Plates	
Short	A pair of short bumper tread plates - 200mm
Long	A pair of long bumper tread plates - 280mm
Rear Corners	
110	A pair of rear corners for Defender 110
90	A pair of rear corners for Defender 90
Fuel Filler Surround	
TDi	A Defender fuel filler surround for pre-TD5 models
TD5	A Defender fuel filler surround for TD5
Rear Quadrants	
Defender	A pair of rear quadrants for Defenders
Rear Cross Members	
Defender	One cross member for rear of vehicle (tow bar can be fitted over)
Side Sills	
110	A pair of sills for 5 door Defender 110
Van	A pair of sills for 3 door Defender 110
90	A pair of sills for Defender 90
Wing Tops	
	(Aerial hole position must be stated - RHAH, LHAH or NH)
Puma	A pair of wing top protectors for Puma model of Defender
Defender	A pair of wing top protectors for Defenders (Pre-07/Puma)
Foam Gaskets	
Defender	A pair of foam gaskets to go underneath our wing top protectors

All chequer plate products come in a range of finishes:

- Natural (uncoated)
- Powder Coated - a range of RAL colours available
- Anodised - silver or black, hardwearing & non-oxidising.

Patriot Products' Lifetime Warranty

This warranty does not cover problems caused by normal wear and tear (including, but not limited to, scratches, dents or aesthetic oxidation of surfaces, or natural breakdown of colours and materials over extended time and use), accidents, unlawful vehicle operation, or modifications or repairs not performed or authorised by Hogarth Engineering Ltd. In addition, this warranty does not cover problems resulting from conditions beyond the manufacturer's control including, but not limited to, theft, misuse, overloading, or failure to assemble, mount or use the product in accordance with written instructions or guidelines included with the product or made available to the original retail purchaser.

If a product is believed to be defective, the purchaser should contact the dealer from whom they purchased the product, who will give them instructions on how to proceed. If the purchaser is unable to contact the dealer, or the dealer is not able to remedy the defect, the purchaser should contact the manufacturer by e-mail at: sales@patriotproducts.co.uk or phone +44 (0) 1234 340421 for shipping instructions.

Upon contacting the manufacturer directly they will provide the purchaser with appropriate instructions for returning the product to them. The purchaser will be responsible for the cost of returning the product to Hogarth Engineering Ltd. In order to receive any remedy under this warranty (either from a Patriot dealer, or from Hogarth Engineering Ltd directly), proof of purchase in the form of an original purchase invoice or receipt is strictly required. Lifetime warranty applies to all products manufactured within 10 years of original retail purchase date (reduced to 5 years if in commercial use)

Products not registered (by original retail purchaser and/or any subsequent owners) with Hogarth Engineering Ltd, in writing, will be deemed "out of warranty".

LIMITATIONS - REPAIR OR REPLACEMENT OF A DEFECTIVE PRODUCT, OR THE ISSUANCE OF A REFUND OR CREDIT (AS DETERMINED BY HOGARTH ENGINEERING LTD), IS THE EXISTING OWNER'S EXCLUSIVE REMEDY UNDER THIS WARRANTY. DAMAGE OR INJURY TO THE EXISTING OWNER, TO HIS OR HER VEHICLE, CARGO, OR PROPERTY, AND/OR TO ANY OTHER PERSON OR PROPERTY IS NOT COVERED BY THIS WARRANTY. THIS WARRANTY IS EXPRESSLY MADE IN LIEU OF ANY AND ALL OTHER EXPRESS WARRANTIES, WHETHER ORAL OR WRITTEN.

HOGARTH ENGINEERING LTD'S SOLE LIABILITY IS LIMITED TO THE REMEDY SET FORTH ABOVE. IN NO EVENT WILL HOGARTH ENGINEERING LTD BE LIABLE FOR ANY DIRECT, INDIRECT, CONSEQUENTIAL, INCIDENTAL, SPECIAL, EXEMPLARY, OR PUNITIVE DAMAGES OR FOR ANY OTHER DAMAGES OF ANY KIND OR NATURE (INCLUDING, BUT NOT LIMITED TO, LOST PROFITS OR LOST SALES).

This does not affect your statutory rights.



Assembling your roof rack

The following pages will explain how to assemble our roof rack, step-by-step.

Before you begin, please take a few moments to ensure that you have everything you need to hand:

1. **Components:** Check the contents of all boxes and make sure that you have all the necessary components as listed on the following page. Use the Diagrammatic Component Guide on Page 11 and the photographs on Page 12 to familiarise yourself with all of the parts.
2. **Screw pack(s):** You should have a screw pack containing all the necessary fixings, corresponding to the fixings list on Page 10. If you have also purchased a ladder there will be a separate screw pack in the ladder box. In all cases, a small bag of spare fixings are also included, just in case. Please make sure you have all fixings before attempting to assemble the rack.
3. **Fitting tools:** A free set of quality fitting tools are provided and will include:
 - Hexagon Key(s) - 4mm - for M6 counter sunk screws on the luggage rail
 - 5mm - for all M8 counter sunk screws
 - 6mm - for M10 counter sunk screws
 - Spanner(s) - 13mm - for all M8 nylocks
 - 17mm - for all M10 nylocks
 - Hylomar Blue - to coat all fixings (except the gutter clamp bolts) prior to assembly
 - Small tube of grease - for lubricating the gutter clamp bolt threads
 - A Patriot pen - to tick off each stage once completed
4. If anything is missing from the boxes please contact us immediately.

Please read the assembly instructions carefully and if, at any stage of the fitting, you are unsure of anything you can contact us, or our resellers, and we will be happy to advise you.

Are you ready? OK, lets go ...

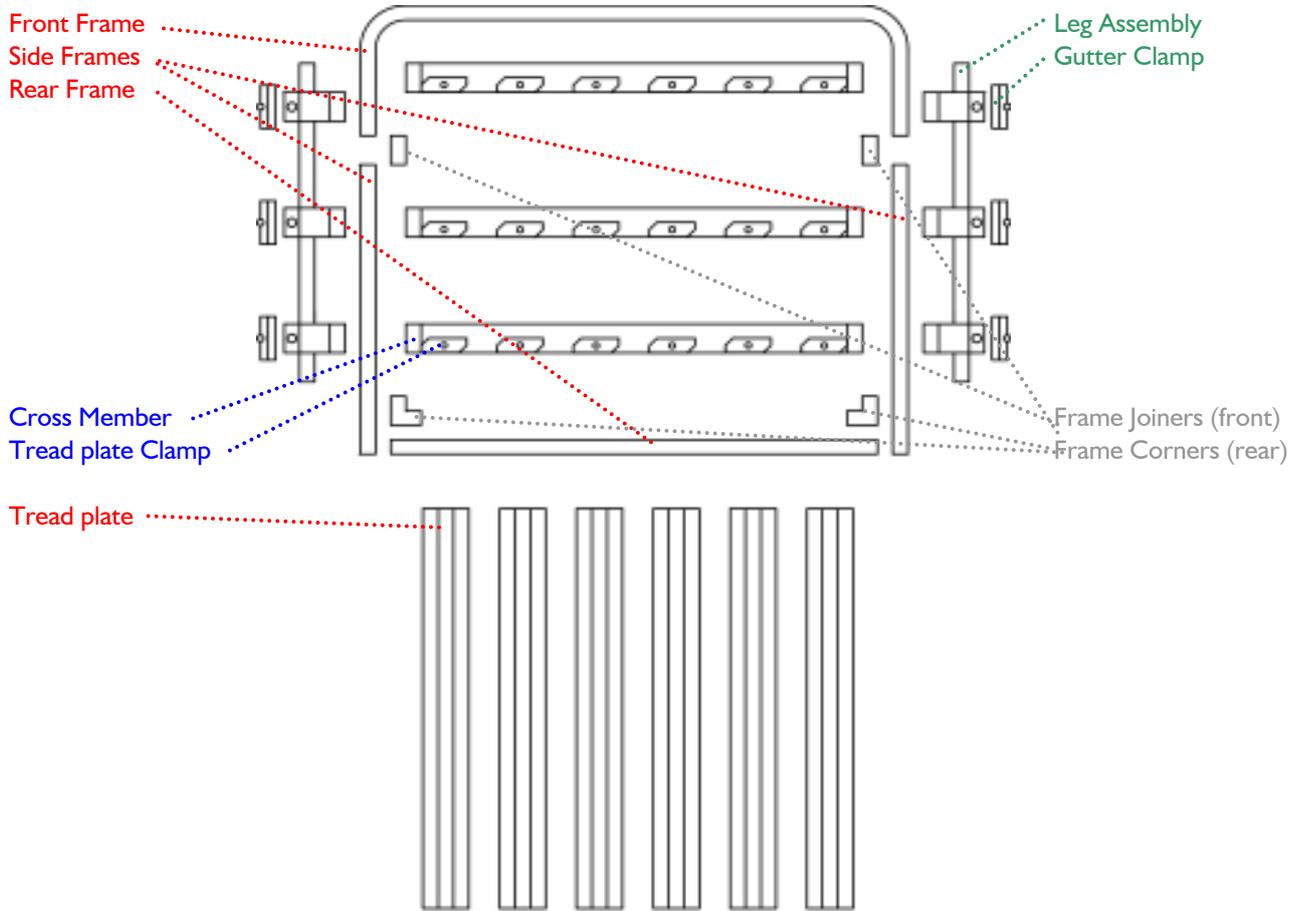
Component & Fixings List

Use the following list to ensure you have all the parts required to complete your rack:

Component Name	Quantity	Received?
FRAME		
Front Frame	1	✓
Rear Frame (engraved with seller's website address)	1	
Side Frames (engraved "PATRIOT")	2	
Frame Joiners (front section)	2	
Frame Corners (rear section)	2	
CROSS MEMBERS & TREAD PLATES		
Cross Members	4	
Tread plate clamps	24	
Tread plates	6	
LEGS AND GUTTER CLAMPS		
Leg Assemblies	4	
Gutter Clamps	8	
(OPTIONAL) FULL LUGGAGE RAIL		
Front Luggage Rail	1	
Side Luggage Rails	2	
Rear Luggage Rail	1	
Luggage Rail Uprights	10	
Sloping Luggage Rails	2	
FIXINGS (DI I0-2800-FLR)		
M10x45 Countersunk Screws	8	
M10 Washers (of which 8 are already on clamps)	16	
M10 Nylock Nuts (of which 8 are already on clamps)	16	
M8x40 Hex Set Screws	24	
M8x30 Countersunk Screws	16	
M8x25 Countersunk Screws	24	
M8x20 Countersunk Screws (if no optional luggage rail)	16	
M8x20 Countersunk Screws (with optional luggage rail)	36	
M8 Washers	64	
M8 Nylock Nuts	40	
M6x16 Countersunk Screws (only with optional full luggage rail)	14	
Spare fixings bag (just in case)	1	
MISCELLANEOUS		
Patriot Fitting Tool Kit	1	

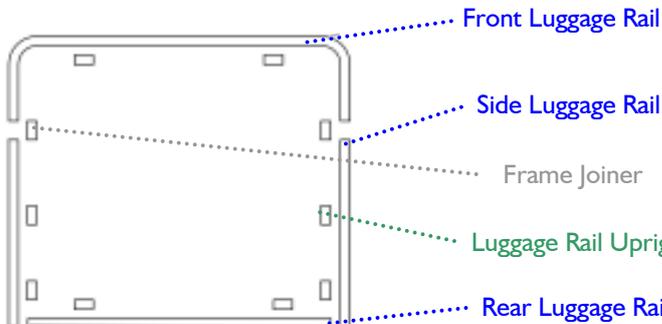
Diagrammatic Component Guide

The following diagrams are intended as visual representations only and are not drawn to scale. They serve only to indicate the component layout and their relationship with adjoining components.



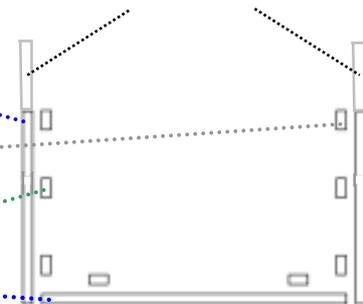
Optional Luggage Rail

Full Luggage Rail



Sloping Luggage Rail

No front luggage rail - a sloping rail is attached to each of the side luggage rail sections instead.



Pre-Assembly



- These little squares have been inserted to allow you to tick off the steps you have successfully completed.*

These first steps are very important - please do not continue until you are satisfied that they have been completed correctly.

- Using the Components & Fixings List on Page 10, check you have received all components and fixings.
- Lay each component on the ground as shown above (the photograph shows a defender 2.0m roof rack - if you have a larger one there may be more components but this can still be used as a guide). When laying out the frame sections ensure they are upside down as this will make assembly easier.
- With all the components accounted for now you can move on to the fixings. You can use the pictures on the right to familiarise yourself with some of the fixings used across the range of our racks (you may not necessarily need all of those pictured) and, get all of the necessary fixings to hand.
- IMPORTANT** - Coat each of the fixings with your Hylomar gasket sealer. You must make sure that the threads and underside of the counter sunk fixings are liberally coated, before you move on to loosely assemble the frame, cross members and legs, as shown on following pages. This is to protect against galvanic reaction and is therefore very important to ensure your rack does not suffer corrosion over time.

M10x45 CS

M10 Washer

M10 nylock

M8x40 Hex

M8x30 CS

M8x25 CS

M8x20 CS

M8 Washer

M8 nylock

M6x16 CS



Frame Assembly

- Ensure each of the frame sections is upside down (this is quite easy as three of the sections have been engraved and the front section can be correctly positioned by referring to the rear section and making sure the twelve tread plate holes can be aligned).
- Take eight of the M8x30 counter sunk bolts and connect the front and side frames together, using the frame joiners. **DO NOT** tighten bolts as this stage - all fixings are fully tightened in the final stages of assembly



- Using the remaining eight of the M8x30 counter sunk bolts, connect the side and the rear frame sections using the corner joiners. Again, **do not** tighten the bolts at this stage. It is a good idea to re-check all the frame sections are upside down at this point as it will be increasingly difficult to correct further into the assembly

- Now you need to attach the tread plate clamps to the cross members. This is done by placing a M8 washer onto one of the M8x40 hex bolts, inserting it into the cross member and then winding on one of the tread plate clamps. Special care must be taken to ensure the clamps are on the side of the large holes in the ends of the cross members. Care must also be taken to ensure the tread plate clamp will tighten into the tread plate when wound into place. Repeat this stage for each of the clamps.



- Now align each cross member up to the corresponding holes in the frame. Using an M10x45 counter sunk bolt inserted into the frame, stand the leg assemblies on the bolts. Now gently place the cross members over the bolts as well. Secure with an M10 washer and nylock, finger tightened onto the bolt. Finally use two M8x20 to tighten the leg assembly onto the cross member. These should be fully tightened now using a 5mm hexagon key. (torque setting 15 N/M)

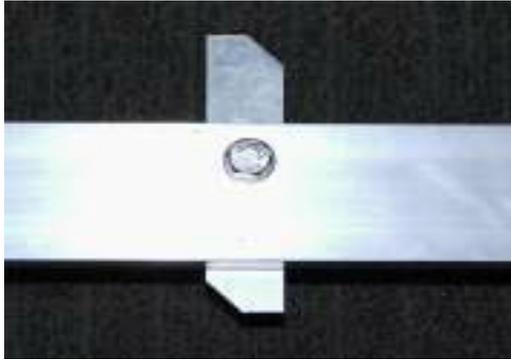


- Now is a good time to take a break and review each of the stages so far to ensure nothing has been missed or overlooked.

Tread Plate Assembly

Your roof rack should now look something like the picture on the right.

- Before you can add the tread plate you must turn each of the tread plate clamps to right-angles from the cross member, as in picture below.



- Using the picture on the right as a reference, lay each of the tread plates underneath the upside-down frame assembly. Ensure each tread plate has the clamps inside it.



- Starting at either the front or back, the tread plates can now be fixed into place. This is done by using an M8x25 counter sunk bolt, an M8 nylock nut and a washer. These can be tightened fully using a 13mm socket or spanner and a 5mm hexagon key, (torque setting 27 N/M) however, try to ensure the ridges on the top of the tread plate are not higher than the frame itself.



- Finally, with each tread plate now tightened at both ends, the tread plate clamps can be rotated into place and fully tightened using a 13mm socket or spanner (torque setting 27 N/M).

Rack Completion

- Now, with the help of an assistant, turn the roof rack the correct way up. It should now look similar to the picture on the right.



- Referring to the three pictures above, the frame bolts can now be fully tightened with a 5mm hexagon key. Once the bolts are tight it is important that you hold them in place with the hexagon key whilst you use a 13mm socket or spanner to tighten the M8 nylocks (torque setting 27 N/M). This is to prevent the bolts from rotating and becoming loose again. **Do not forget to place the washers on these fixings prior to fitting the nylocks.**

- Make sure the eight M10x45 bolts which go through the frame, leg assembly and standard cross member, are fully tightened. Once the bolts are inserted you need to hold them in place with a 6mm hexagon key whilst you use a 17mm socket or spanner to tighten the M10 nylocks (torque setting 55 N/M). It is imperative that these bolts are tight and the gap is fully closed.



If you have opted to add the luggage rail to your rack please follow the instructions on the following page, otherwise, congratulations - your rack is now fully assembled and is ready to be mounted onto your vehicle, as described on Page 17.

Luggage Rail Assembly



Place all the luggage rail uprights into the frame by using M8x20 counter sunk bolts (pictured left). These are on to hold the item in place, so **do not** tighten.

Next, place the front luggage rail onto the luggage rail uprights and fix into place with an M6x16 counter sunk bolt, using a 4mm hexagon key. These can be fully tightened into place (torque setting 10 N/M).

Now repeat the previous step with each of the luggage rail sides and, finally, with the rear luggage rail.



With all the luggage rail in place all of the remaining upright bolts can now be fully tightened using a 5mm hexagon key (torque setting 27 N/M).

Finally your new roof rack is complete with luggage rail.

Before moving on to fit your rack, we recommend that you re-check each of the fixings to make sure that none have been missed.



Congratulations - your rack is now fully assembled with the luggage rail and is ready to be mounted onto your vehicle, as described on the next page.

Fitting the Rack



Fitting of the roof rack cannot be performed alone without appropriate lifting equipment.

We recommend help from as many people as necessary to comfortably lift the rack above head height.

- Once everybody is ready, lift the entire roof rack above head height and, walking slowly and carefully, manoeuvre it above the vehicle. If you are fitting a Rack to Chassis ladder you **must** align the rear of the roof rack with the rear of the vehicle.
- When finally lowering the rack onto the vehicle, place the leg assemblies into the gutters (please ensure the protective rubber sheath is present to avoid damage). If your vehicle has alpine windows it may be necessary to apply a little side pressure to the legs in order for the gutter rail to clear the alpine rubber.



- Carefully insert a gutter clamp into each of the blocks on the leg assembly (the roof rack may need to be lifted slightly for this, or, in the case of alpine windows, side pressure applied to the legs).
- Apply a small amount of grease to the threaded part of the gutter clamp to prevent galling and then secure into place using an M10 washer and a nylock nut. This only needs to be loosely attached at the moment.
- With all the gutter clamps in place they can now be tightened using a 17mm socket or spanner (torque setting 15 to 20 N/M). **DO NOT** over tighten the nuts as this will only serve to damage the clamp. When tightening the clamps do so until the bottom of the clamp pulls parallel to the vehicle's gutter.

Unless you have chosen the optional ladder, you have now successfully assembled and fitted your rack. You can now enjoy a celebratory cup of tea and put your feet up!



Fitting the Ladder

If you have purchased an optional access ladder please refer to the instructions enclosed in the separate ladder box.



Caring for your rack

Caring for your rack is easier than you think:

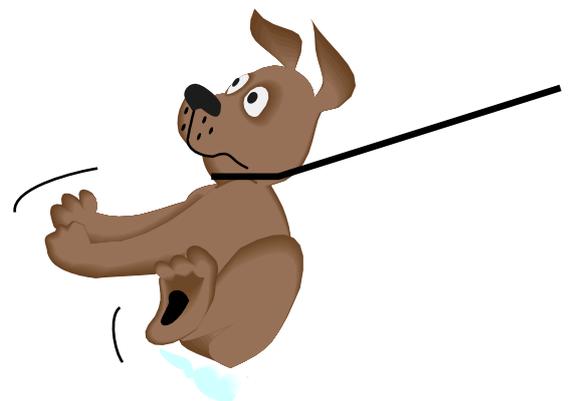
1. Periodically remove your roof rack for thorough cleaning with warm soapy water. If the roof rack is natural aluminium (not powder coated) then we recommend carefully graining it, in the direction of the lay the component, with a semi-abrasive pad. You could then seal it with any oil based or silicon product to prevent corrosion.
2. When you re-mount the rack you **MUST** clean the threads of any foreign matter, dust, grit etc and then re-apply grease to the threaded part of the clamps.



Safe Usage

We want you to safely get the most enjoyment from using our products so please follow these guidelines

1. **Maximum Static Load** - Most roof rack manufacturers include an MSL value in their documentation but we do not. This is simply because our roof racks are strong enough to accept not only the vehicle manufacturer's maximum weight, but far more. If you respect your vehicle manufacturer's guidelines you can be confident that our product will serve you very well for many years.
2. **Centre of Gravity** - When loading your vehicle you should always try to keep the centre of gravity as low as possible. Your vehicle's handling characteristics are less prone to dramatic changes if you load the heavier objects lower down and the lighter ones higher up.
3. **Loading** - Learn how to load your roof rack to obtain the least wind resistance, and make sure the heaviest items are loaded fairly centrally on the rack, just in front of the rear axle. If kayaks or canoes are being carried then make sure they are tied down from both the bow and the stern.
4. **Straps, ropes and ties** - Whatever the load, always make sure it is secured properly. You are responsible for items coming loose, potentially causing serious injury to you and other road users. Remember, if you are travelling long distances, stop regularly to re-check the tension of all load restraints.
5. **Height Restrictions** - Remember to take into account the added height of your vehicle. Take particular care when travelling through an area, or entering a car park, which has height restrictions in place. Should you forget this very important point, we can supply you with replacement roof rack parts but we can not do so under warranty, nor can we repair a damaged roof!
6. **Driving** - Never drive with a person or animal on the roof rack. **Before setting off** always check that nothing has been left tethered to any part of the vehicle, rack or access ladder - you don't want to leave the family dog leashed to the bottom of the ladder (yes, this has actually happened)!





PRODUCT REGISTRATION FORM

Thank you for purchasing a quality, new Patriot product.

Please take a moment to fill in this form and return it to us in order to activate your warranty. The information entered on this form will not be shared with third parties without your express permission, unless we are required to do so by law (to a Police Authority, for example, in the case of theft). If you transfer ownership of the product(s) the new owner will be required to register their details with us, or the Warranty will cease from date of sale. A "New Owner Registration Form" is available upon request. If you require any help to complete this form, or have any questions regarding it, please contact us.

Your Name:

Address:

Post Code:

Telephone: Fax:

Mobile:

Email:

Vehicle: Registration:

Details of the Roof Rack Purchased:	Accessories also purchased: <small>(Please ✓ applicable items)</small>	Quantity:
Length: <input type="text"/> <small>(Please ✓ applicable items)</small>	<input type="checkbox"/> Small Light Bracket/s	<input type="text"/>
Luggage Rail: <input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Medium Light Bracket/s	<input type="text"/>
Ladder: <input type="checkbox"/> Gutter To Chassis	<input type="checkbox"/> Large Light Bracket/s	<input type="text"/>
<input type="checkbox"/> Rack To Chassis	<input type="checkbox"/> X Large Light Bracket/s	<input type="text"/>
<input type="checkbox"/> Rack To Sill	<input type="checkbox"/> Work Light Bracket/s	<input type="text"/>
<input type="checkbox"/> Rear Door	<input type="checkbox"/> HiLift Jack Mount	<input type="text"/>
<input type="checkbox"/> Other: <input type="text"/>	<input type="checkbox"/> Loading Roller - semi/full width*	<input type="text"/>
Powder Coat: <input type="checkbox"/> No	<input type="checkbox"/> Luggage Top Box	<input type="text"/>
<input type="checkbox"/> Yes	<input type="checkbox"/> M.A.B./s	<input type="text"/>
Colour: <input type="text"/>	<input type="checkbox"/> Roof Bar/s	<input type="text"/>
	<input type="checkbox"/> Sand Ladder/s	<input type="text"/>
	<input type="checkbox"/> Spare Wheel Mount	<input type="text"/>
	<input type="checkbox"/> Tilt Security	<input type="text"/>
	<input type="checkbox"/> Jerry Can Holder	<input type="text"/>
	<input type="checkbox"/> Cargo Strip: With/without Clip/s	<input type="text"/>

Date of Purchase: Serial / Invoice Number:

Purchased From:

Intended Use: **Commercial / Personal** (delete as appropriate)

Signed: Date:

Thank you. Please return this completed form to:

HOGARTH ENGINEERING LTD, UNIT C, BURY CLOSE, HIGHAM FERRERS, RUSHDEN, NORTHAMPTONSHIRE, NN10 8HQ

Tel: +44 (0) 1966 316408 Fax: +44 (0) 1933 311415 Email: sales@patriotproducts.co.uk





PRODUCT REGISTRATION FORM

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Your Name:	<input style="width: 100%;" type="text"/>		
Address:	<input style="width: 100%;" type="text"/>		
	<input style="width: 100%;" type="text"/>		
	<input style="width: 100%;" type="text"/>		
Post Code:	<input style="width: 100%;" type="text"/>		
Telephone:	<input style="width: 40%;" type="text"/>	Fax:	<input style="width: 20%;" type="text"/>
Mobile:	<input style="width: 100%;" type="text"/>		
Email:	<input style="width: 100%;" type="text"/>		
Vehicle:	<input style="width: 40%;" type="text"/>	Registration:	<input style="width: 20%;" type="text"/>

Details of the Roof Rack Purchased:	Accessories also purchased: <small>(Please ✓ applicable items)</small>	Quantity:
Length: <input style="width: 80%;" type="text"/> <small>(Please ✓ applicable items)</small>	<input type="checkbox"/> Small Light Bracket/s	<input style="width: 100%;" type="text"/>
Luggage Rail: <input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Medium Light Bracket/s	<input style="width: 100%;" type="text"/>
Ladder: <input type="checkbox"/> Gutter To Chassis	<input type="checkbox"/> Large Light Bracket/s	<input style="width: 100%;" type="text"/>
<input type="checkbox"/> Rack To Chassis	<input type="checkbox"/> X Large Light Bracket/s	<input style="width: 100%;" type="text"/>
<input type="checkbox"/> Rack To Sill	<input type="checkbox"/> Work Light Bracket/s	<input style="width: 100%;" type="text"/>
<input type="checkbox"/> Rear Door	<input type="checkbox"/> HiLift Jack Mount	<input style="width: 100%;" type="text"/>
<input type="checkbox"/> Other: <input style="width: 50%;" type="text"/>	<input type="checkbox"/> Loading Roller - semi/full width'	<input style="width: 100%;" type="text"/>
Powder Coat: <input type="checkbox"/> No	<input type="checkbox"/> Luggage Top Box	<input style="width: 100%;" type="text"/>
<input type="checkbox"/> Yes	<input type="checkbox"/> M.A.B./s	<input style="width: 100%;" type="text"/>
Colour: <input style="width: 50%;" type="text"/>	<input type="checkbox"/> Roof Bar/s	<input style="width: 100%;" type="text"/>
	<input type="checkbox"/> Sand Ladder/s	<input style="width: 100%;" type="text"/>
	<input type="checkbox"/> Spare Wheel Mount	<input style="width: 100%;" type="text"/>
	<input type="checkbox"/> Tilt Security	<input style="width: 100%;" type="text"/>
	<input type="checkbox"/> Jerry Can Holder	<input style="width: 100%;" type="text"/>
	<input type="checkbox"/> Cargo Strip: With/without Clip/s	<input style="width: 100%;" type="text"/>

Date of Purchase: <input style="width: 90%;" type="text"/>	Serial / Invoice Number: <input style="width: 90%;" type="text"/>
Purchased From: <input style="width: 100%;" type="text"/>	
Intended Use: <input style="width: 100%;" type="text"/> Commercial / Personal (delete as appropriate)	
Signed: <input style="width: 80%;" type="text"/>	Date: <input style="width: 20%;" type="text"/>

This is your copy - please keep it for your records.

HOGARTH ENGINEERING LTD, UNIT C, BURY CLOSE, HIGHAM FERRERS, RUSHDEN, NORTHAMPTONSHIRE, NN10 8HQ

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Published January 2020

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