



RHINO-RACK

Aerodynamic & Heavy Duty Roof Rack Systems

RKLS Key Locking Skewer

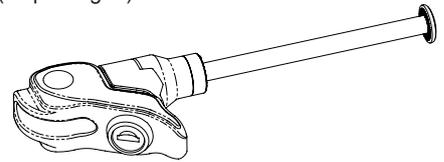
Place these instructions in the vehicle's glove box after installation is complete.

Important: Please read these instructions carefully prior to installation. Please refer to your fitting instruction to ensure that the roof racks are installed in the correct locations. Check the contents of this kit before commencing fitment and report any discrepancies.

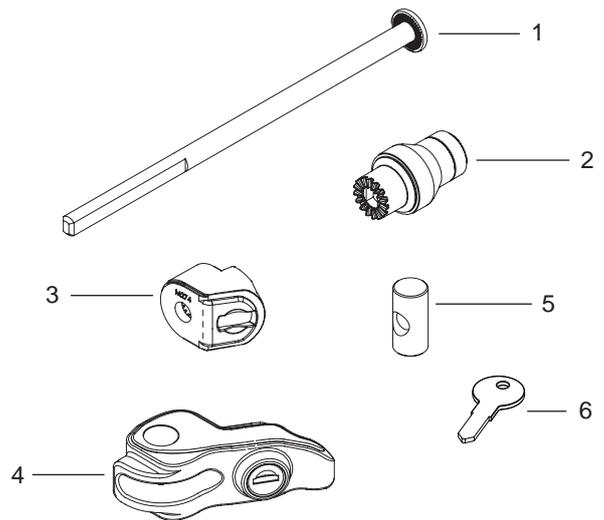
Parts List

Item	Component Name	Qty	Part No.
1	Skewer Shaft	1	B151
2	Clamp Housing Assembly	1	M291A
3	Lock Plate	1	M274
4	Lever Assembly	1	M273A
5	Dowel Nut	1	N044
6	Key	1	n/a
7	Instruction Manual	1	RS-277

Locking Skewer (as packaged)



Disassembled Components



Care Instruction:

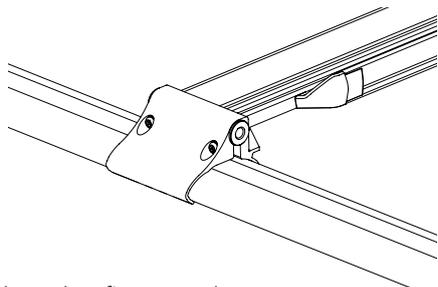
Thoroughly clean vehicle roof racks and/or bicycle carrier prior to fitting the Rhino Key Locking Skewer.

Tools Required

No tools are required for installation of this item.

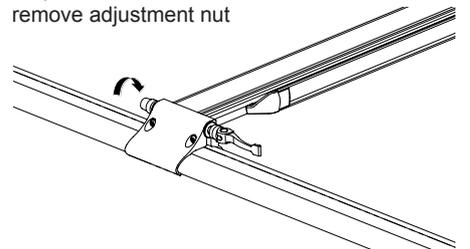
Remove existing skewer assembly

When upgrading a previously purchased bicycle carrier you will first need to remove the existing skewer prior to installing your Key Locking Skewer.

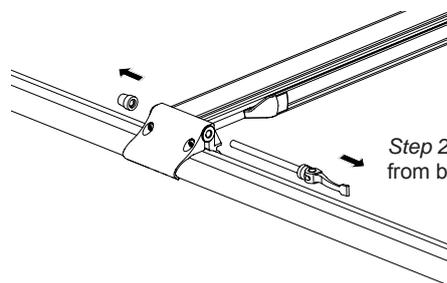


Bicycle carrier after removal of standard skewer.

Step 1: Unscrew and remove adjustment nut



Step 2: Remove skewer from bicycle carrier.

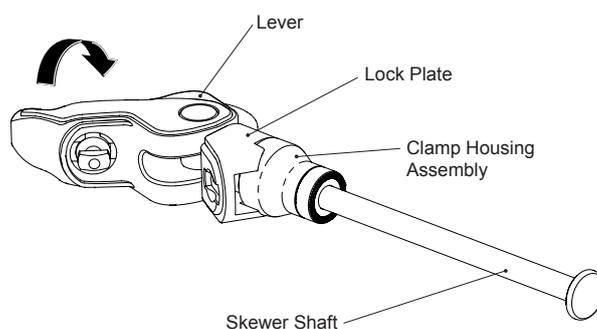


1 Disassemble Locking Skewer:

Insert key into lock and turn anti-clockwise to unlock, then remove key from lock. Release Lever to the position shown in image at right.

Whilst holding onto the skewer shaft, rotate the Lever in an anti-clockwise direction until the lever is completely removed from the skewer shaft.

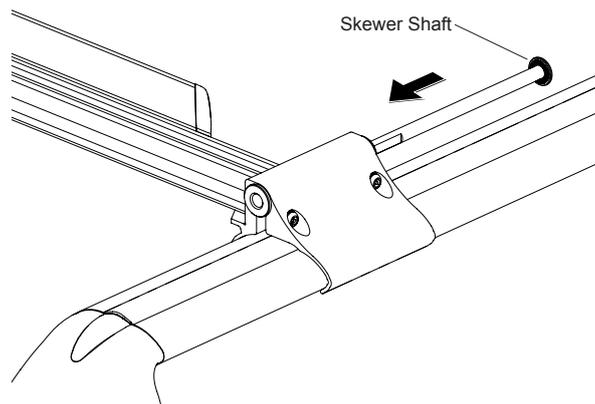
Proceed to slide the Lock Plate and Clamp Housing Assembly off the skewer shaft.



2 Insert skewer shaft into bicycle carrier:

Insert threaded end of skewer shaft into brass bushes within the front housing of the bicycle carrier. The thread of the skewer shaft should be facing towards you with the head of the shaft oriented towards the centre of the vehicle. Continue to slide the skewer through the bushes until completely in place.

Note: The skewer can be assembled in either direction to provide easy access from either side of the vehicle.

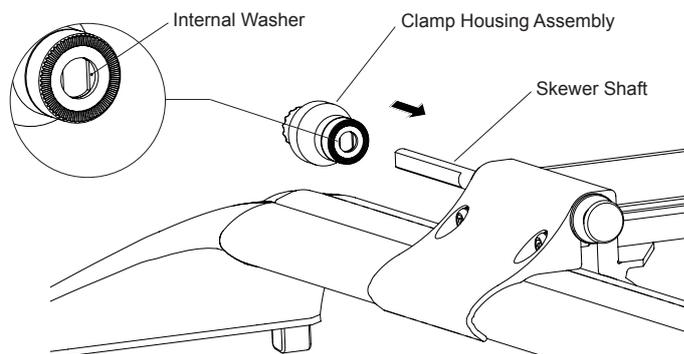


3 Clamp Housing Fitment:

Slide clamp housing assembly over end of skewer shaft (as detailed in image) ensuring to align the flats on the shaft with the slot of the internal washer.

Continue to insert the shaft through the clamp housing.

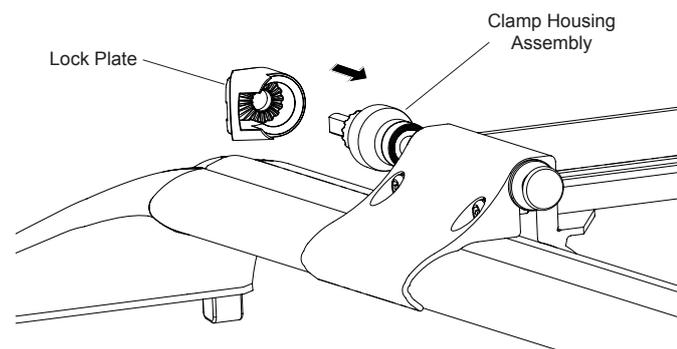
Note: you may need to rotate the skewer shaft to align the slot at opposite end of clamp housing.



4 Insert Lock Plate:

Slide lock plate over skewer shaft as detailed below until the part is placed against the clamp housing.

Do not be concerned about its rotational position at this stage.

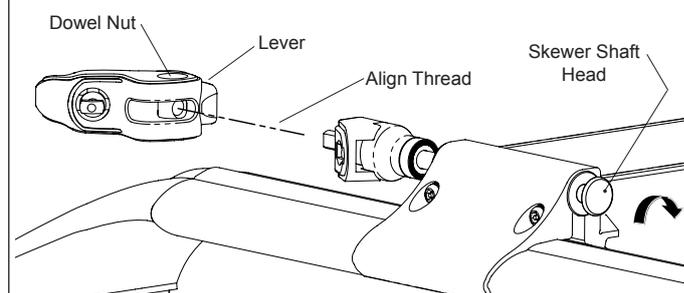


5 Assemble Lever:

Take Lever in one hand with dowel nut still inserted, grip the dowel nut between your thumb and forefinger so it cannot rotate.

Align thread of dowel nut with skewer shaft thread and bring together with slight pressure whilst turning the skewer shaft head in a clockwise direction.

Once the thread is engaged continue to turn the skewer shaft until the shaft protrudes through the dowel nut.



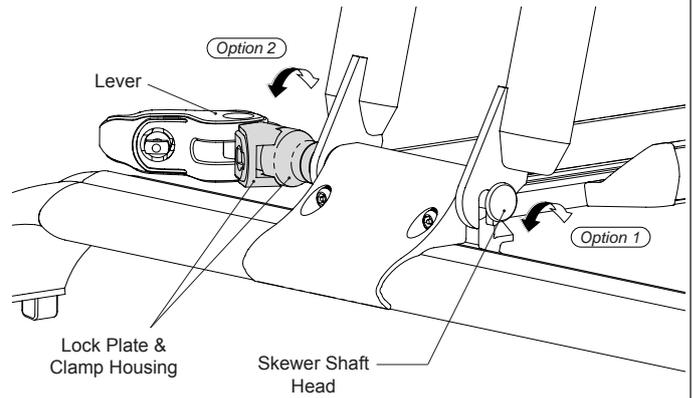
Locking Skewer Adjustment

A Adjusting your skewer:

There are two ways in which you can adjust your skewer. With your bicycle in place, hold Lever in one hand and with the other hand do either of the following.

Option 1: Rotate the Skewer Shaft Head in a clockwise direction to tighten, anti-clockwise to loosen (or)

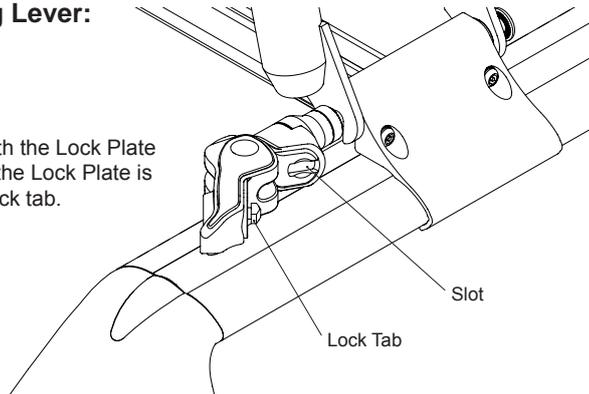
Option 2: Rotate both the lock plate and clamp housing together. This operation is in reverse, anti-clockwise to tighten and clockwise to loosen.



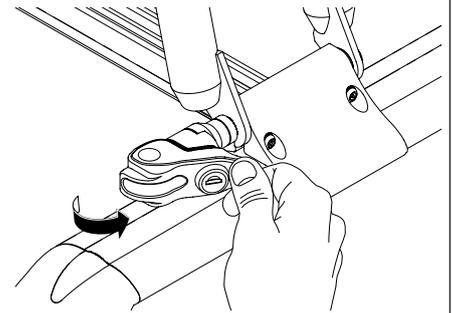
B Activating Lever:

Step 1:

Align the Lever with the Lock Plate so that the slot in the Lock Plate is aligned with the lock tab.



Step 2: Swing Lever to the clamped position applying pressure with your thumb as indicated.



Note:

When activating the lever as detailed above, your bike should become clamped securely in position.

You may need to repeat steps A & B several times to obtain an appropriate clamp position.

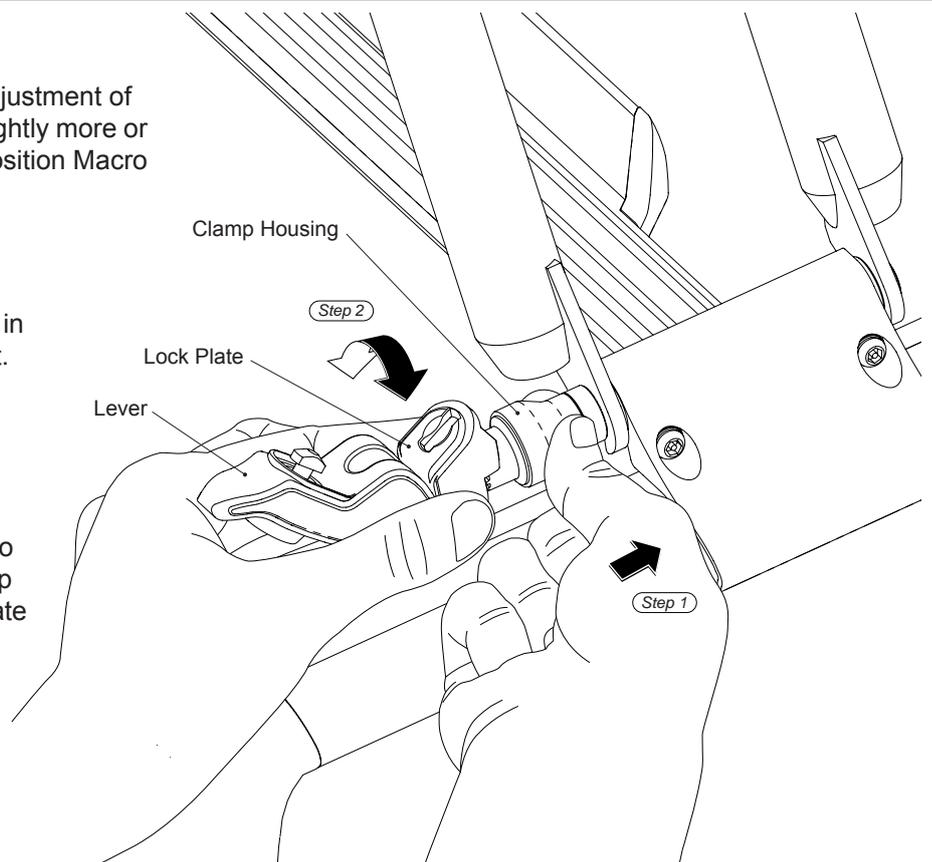
Further adjustment is possible as detailed in step C below.

C Macro Adjustment:

Macro adjustment is useful for finer adjustment of your Locking Skewer. If you require slightly more or less pressure to secure your bike in position Macro Adjustment may be required.

Step 1: Grip the Clamp Housing in one hand whilst holding the lock Plate in the other as indicated in image at right. Separate the two components slightly by pushing the Clamp Housing in the direction indicated.

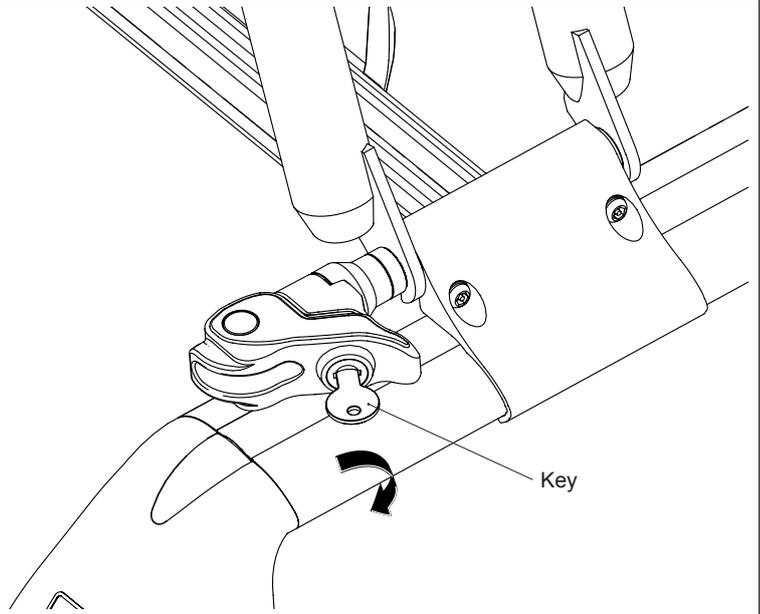
Step 2: Rotate the Lock Plate anti-clockwise to loosen or clockwise to tighten as required. Release the Clamp Housing in the new position and activate the Lever as detailed in Step B above.



D Lock Skewer:

Insert key supplied into lock and turn key clockwise as indicated, remove key from skewer.

Note: It is very important that the skewer remains locked at all times when in use.

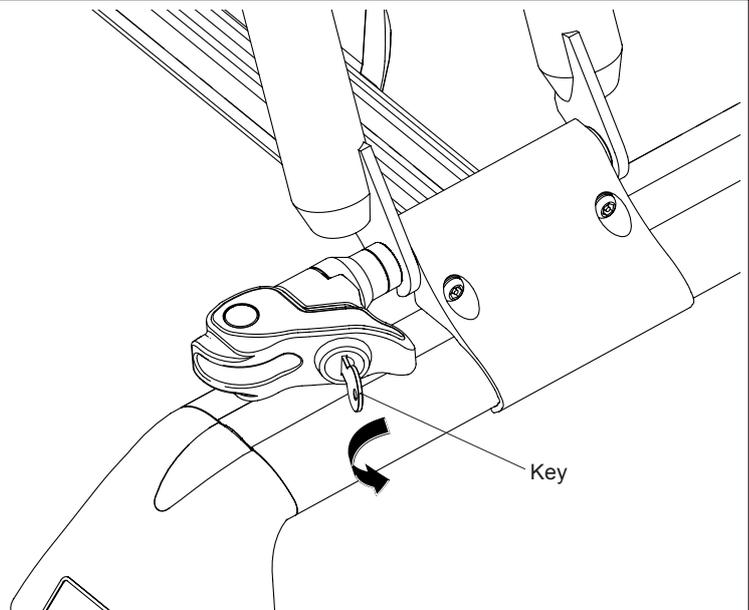


Release Locking Skewer

I. Unlock Skewer:

Insert key supplied into lock and turn key anti-clockwise as indicated, remove key from skewer.

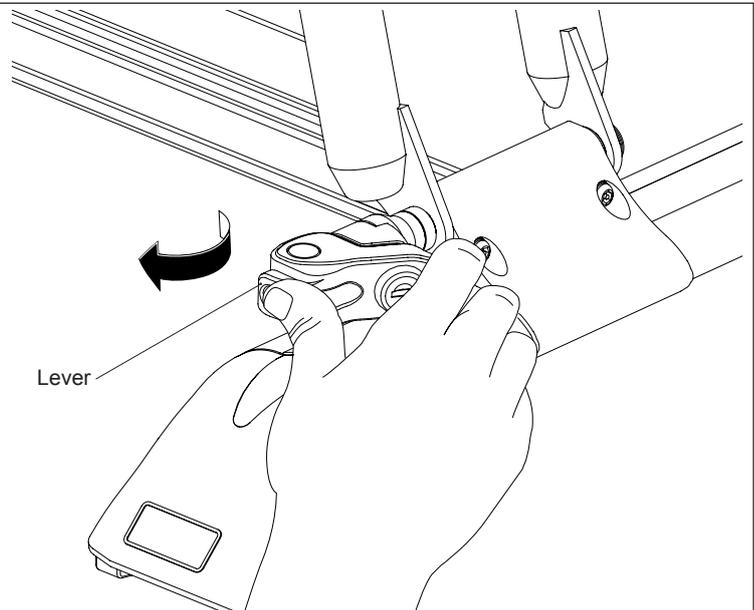
Note: It is recommended that you remove the key during operation to ensure the key does not get knocked and rotate during adjustment. This may hinder activation of the Lever.



II. Release Lever:

Grip the lever as indicated in image at right.

Apply slight pressure to your thumb and pull the Lever with your forefinger to release as indicated.



Important Information

Recommendations

It is essential that all bolt connections be checked after driving a short distance when you first install your Rhino Rack accessory. Bolt connections should be checked again at regular intervals (probably once a week is enough, depending on road conditions, usage, loads and distances travelled). You should also check the roof bars and accessories each time they are refitted.

Make sure to fasten your load securely. Please ensure that all loads are evenly distributed and that the centre of gravity is kept as low as possible.

Use only non-stretch fastening ropes or straps.

Sensitivity to Crosswinds, Behaviour in Curves and Braking

The handling characteristics of the vehicle, changes when you transport a load on the roof. For safety reasons, we recommend you exercise extreme care when transporting wind-resisting loads; special consideration must be taken into account when braking.

Please remove crossbars when putting vehicle through an automatic car wash.

Load Ratings

Refer to vehicle manufactures carrying capacity for roof bars. When roof racks are to be used in off-road conditions, please build a safety factor of 1.5 into this load limit. Although the roof racks are tested and approved to AS1235-2000, Australian road conditions can be much more rigorous. However, increasing the number of crossbars does not increase the vehicles maximum permissible roof loading.

Note for Dealers and Fitters

It is your responsibility to ensure instructions are given to the end user or client

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