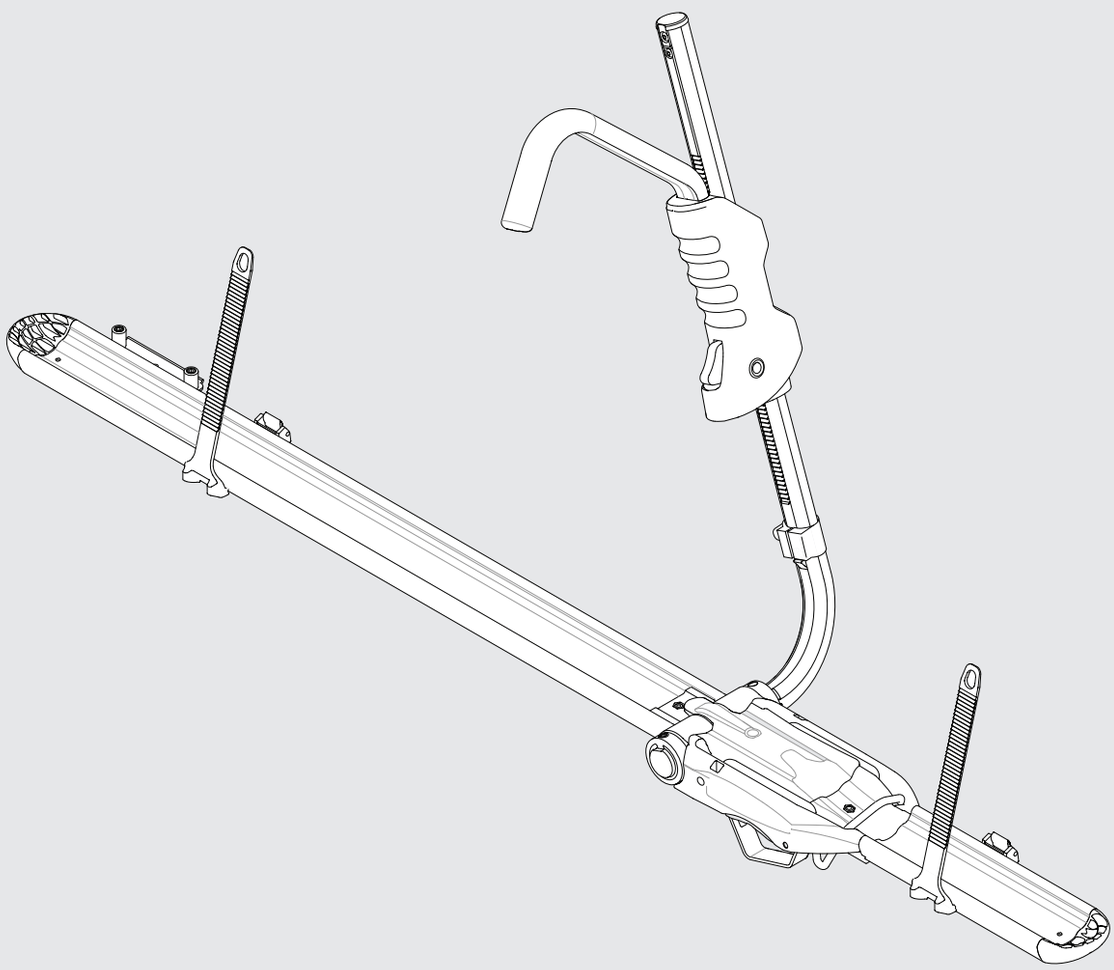
# Hybrid Bike Carrier

RBC050

**Important:**

1. Check the Rhino-Rack website to ensure you have the latest issue of these instructions.
2. Please refer to your fitting instruction to ensure that the roof racks are installed in the correct locations.
3. Check the contents of kit before commencing fitment and report any discrepancies.
4. Place these instructions in the vehicle's glove box after installation is complete.
5. These instructions must be followed for warranty to be upheld.

**Fit Time:** 30 mins

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RHINORACK.COM

Document No: R475
Issue No: 08
Issue Date: 13/12/2022

## Carrying Capacity

Maximum bike carrier capacity: **21kg/45lbs**.
Check your vehicle owners hand book for vehicle maximum carrying capacity. Please ensure you use the vehicle manufactures maximum roof allowance if it is lower than the figure listed in this instruction.
Load must be evenly distributed over the platform.

## Warning

- Check part number/ or kit is correct for use with your vehicle.
- Do not attempt to fit the rack system to your vehicle unless you fully understand these fitting instructions. Please direct any questions regarding fitting to the dealer from where the roof racks were purchased.
- Although the system is tested and approved to AS1235-2000 / ISO 11154, off-road conditions can be much more rigorous. Extreme care must be taken in off road conditions.
- Roof racks must be removed when vehicle is put through an automatic car wash.
- With utility vehicles, the cabin and the canopy move independently. Roofracks and vehicle can be damaged if the item transported is rigidly fixed at points on both the cabin and canopy. Instead, rigidly fix to either the cabin roofracks or the canopy roofracks.
- Always ensure you fasten your load securely.
- Use only non-stretch fastening ropes or straps to attach cargo to your load.
- Bike carrier is not suitable for tandem bikes, E-bikes, recumbent. Remove front fenders, child seats and panniers before use.

## In service maintenance checks

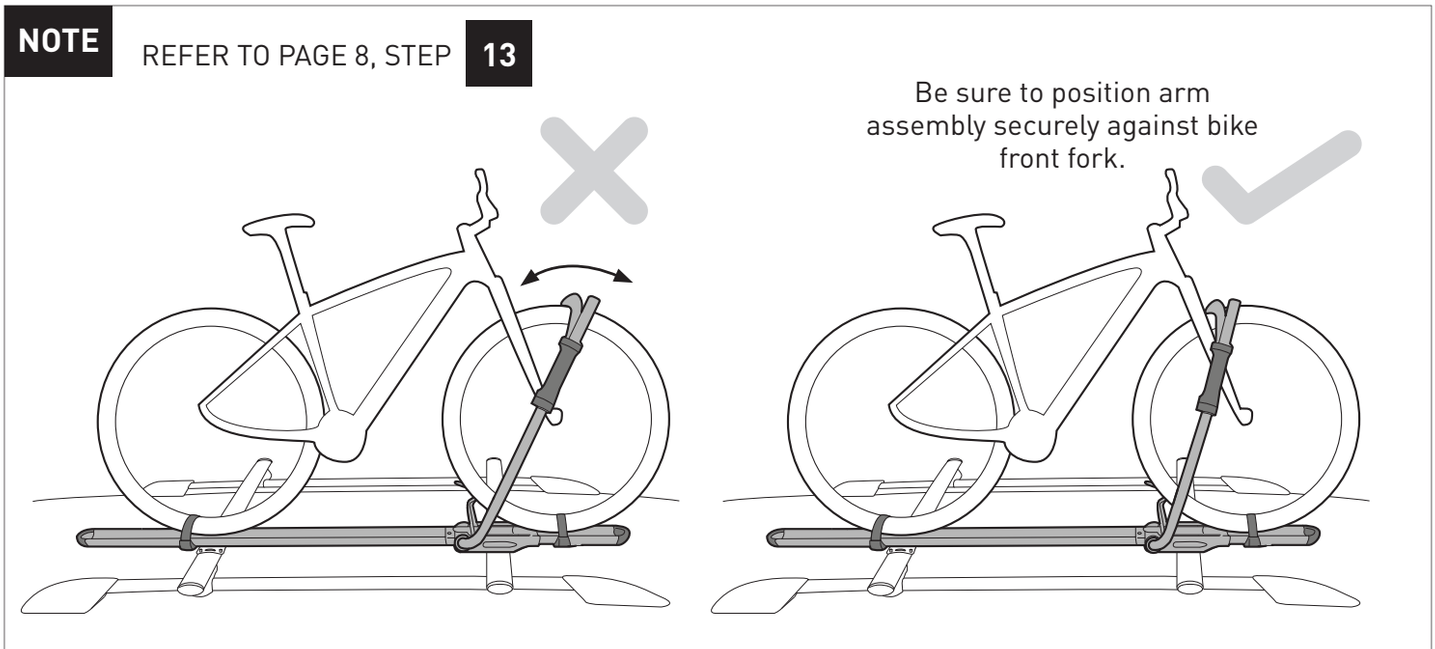
- All bolt connections should be checked after driving a short distance when you first install your roof racks.
- All bolted connections should be checked again at regular intervals (weekly is recommended, depending on road conditions, usage, loads and distances travelled).
- All bolted connections should be checked each time they are re-fitted.
- Off-road conditions are more rigorous. Check all bolted connections and your load more regularly.
- Ensure that your vehicle manufacturer's GVM, and gross axle weights are not exceeded (refer to vehicle owner's manual).

**Torque Settings:**
Unless stated otherwise in these instructions, all fasteners should be set to the following torque settings:

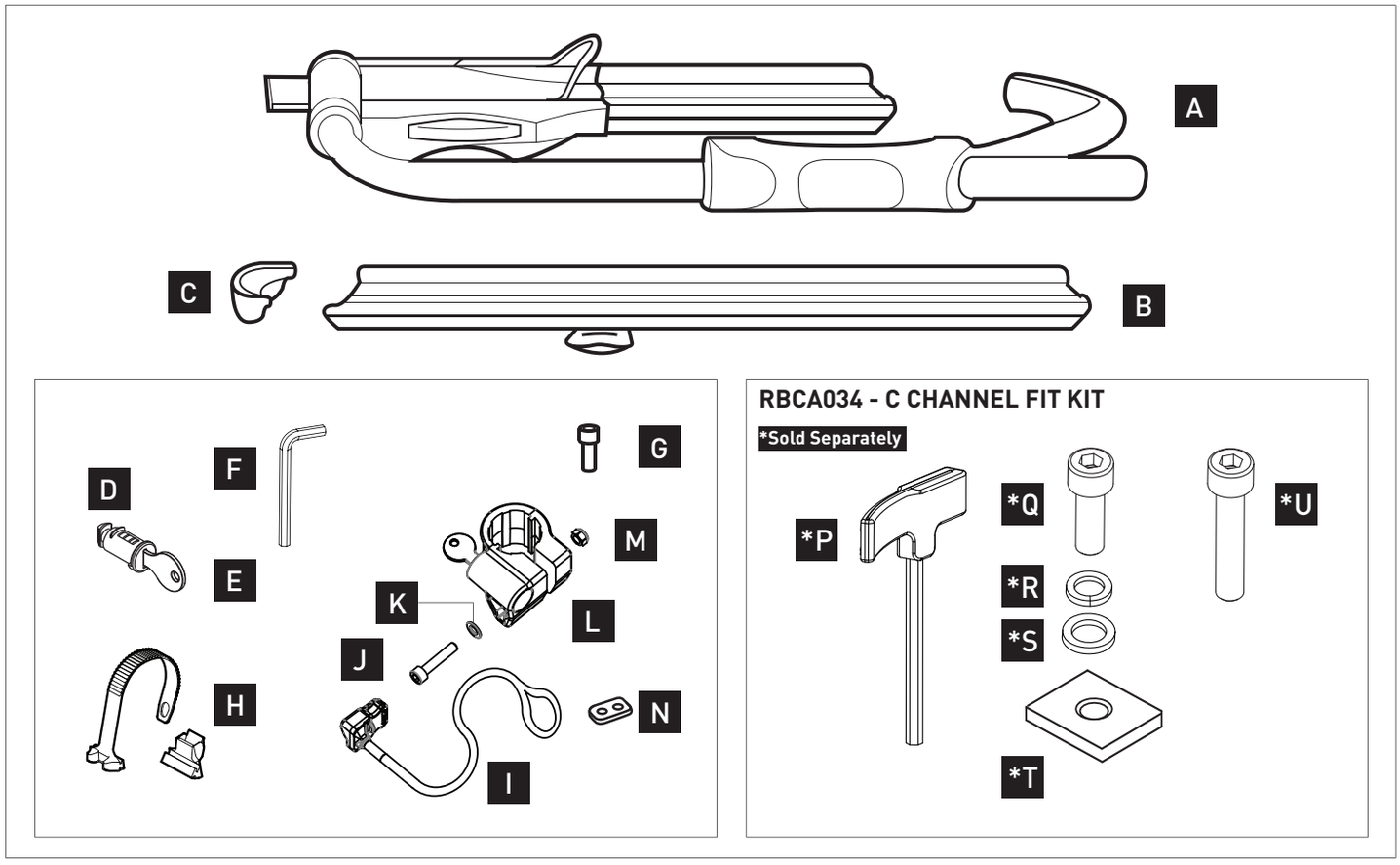
## Note for Dealers and Fitters

It is your responsibility to ensure these fitting instructions are given to the end user or client. These instructions remain the property of Rhino-Rack Australia Pty. Ltd. and may not be used or changed for any other purpose than intended.

**NOTE** REFER TO PAGE 8, STEP **13**



## Parts List




| Item | Bike Carrier Body | Qty |
|---|---|---|
| A | Main Body Casting | 1 |
| B | Rear Extrusion (955mm) | 1 |
| C | Extrusion End Caps | 2 |

| Item | Carrier Body Parts | Qty |
|---|---|---|
| D | Lock Core | 3 |
| E | Metal Key | 2 |
| F | Allen Key | 1 |
| G | M6 x 18mm Skt Head Screw | 2 |
| H | Wheel Strap | 2 |
| I | Cable | 1 |
| J | M6 X 30mm Cap Screw | 1 |
| K | M6 Flat Washer | 1 |
| L | Cable Lock Housing / Key | 1 |
| M | M6 Nyloc Nut | 1 |
| N | Washer Plate 36 x 20mm | 1 |
| O | Instructions | 1 |

| Item | *C Channel Fit Kit | Qty |
|---|---|---|
| *P | Torque Allen Key | 1 |
| *Q | M6 x 16mm Cap Screw | 1 |
| *R | M6 Spring Washer | 1 |
| *S | M6 x 12.5 Flat Washer | 1 |
| *T | M6 Square Washer | 3 |
| *U | M6 x 25mm Cap Screw | 2 |

**Tools Required**
**T1** - Mallet
**T2** - Loctite (Optional)
**T3** - Flathead Screwdriver
**T4** - 4mm Allen Key

## TABLE OF CONTENTS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| Opposing Arm Assembly | 9 |
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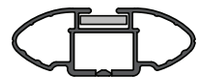
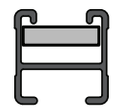
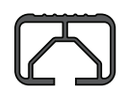
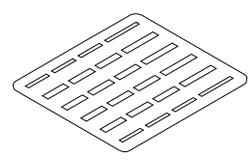
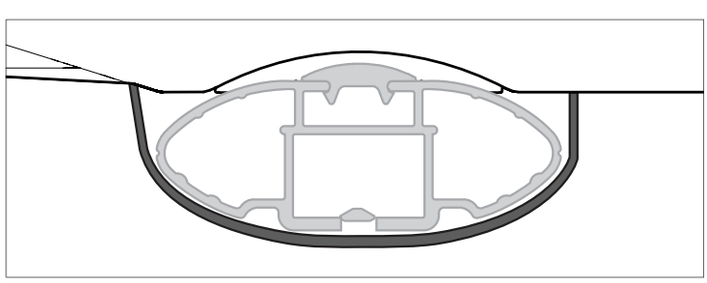
| Securing the Bike | 13 |
| Fat Wheel Adapter | 14 |

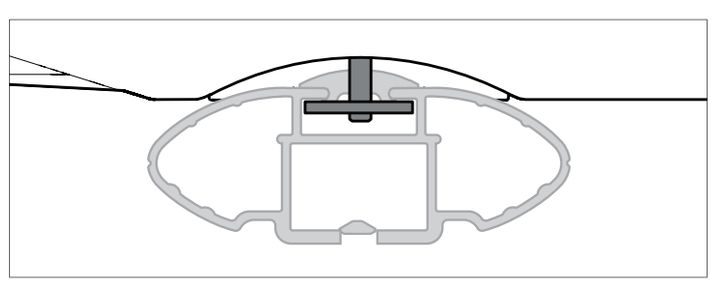
## Roof Rack Compatibility

| | | | | |
|---|---|---|---|---|
| CROSS BARS | Vortex |  | ✓ | WRAP AND C CHANNEL |
| | Heavy Duty |  | ✓ | WRAP AND C CHANNEL |
| | Reconn Deck | | ✓ | WRAP AND C CHANNEL |
| | Euro |  | ✓ | WRAP |
| PLATFORM | Pioneer Platform |  | ✓ | C CHANNEL (Front Channel & Plank Only) |
| | Accessory Bar (mounted on the pioneer platform) | | ✓ | WRAP AND C CHANNEL |

**WRAP FITMENT**

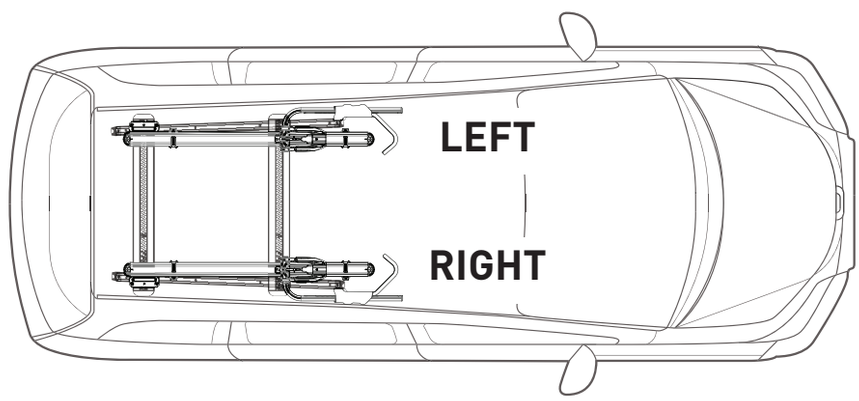


**C CHANNEL FITMENT**

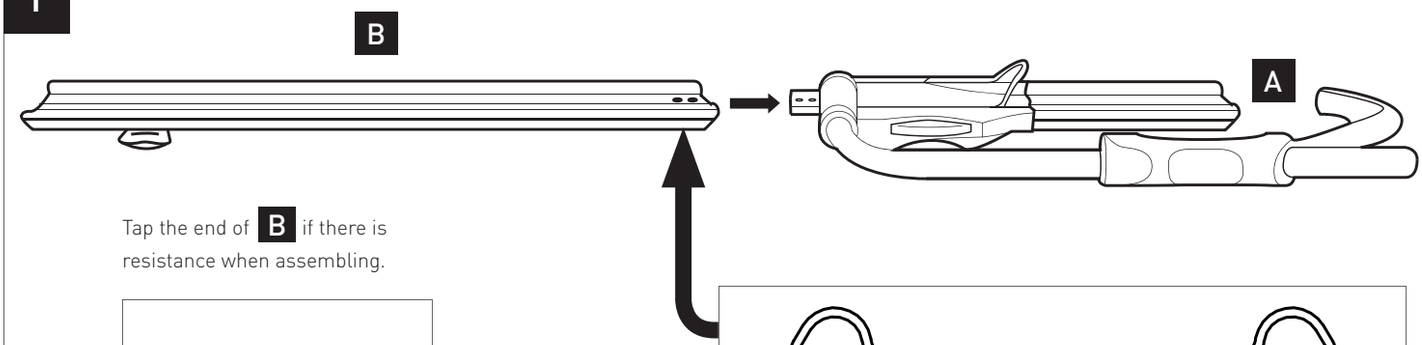


**NOTE:**
Images reflect installation onto the right side of the vehicle.

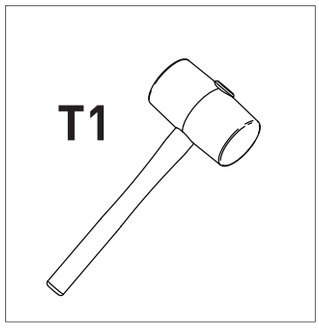
LEFT SIDE INSTALLATION
To install to the LEFT side begin at Page 9, to complete "Opposing Arm Assembly", and Switch Lock Housing Orientation" then proceed to Page 5

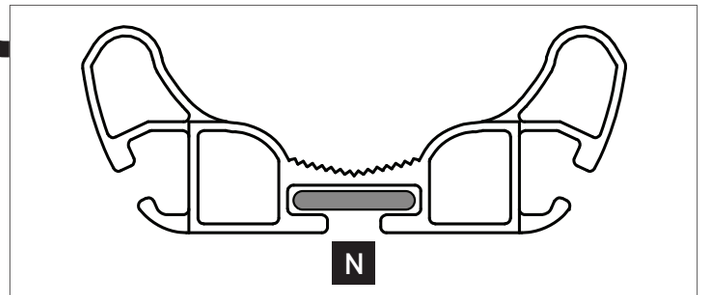


## 1



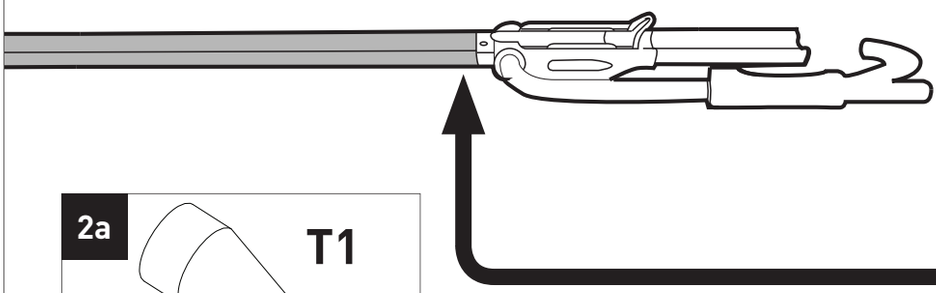

Tap the end of **B** if there is resistance when assembling.



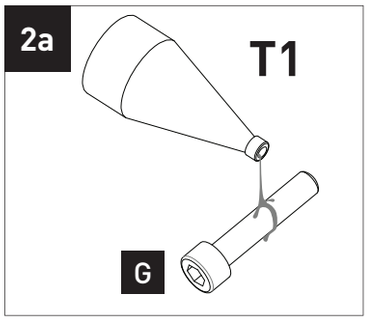




Ensure pre-installed plate washer is in place

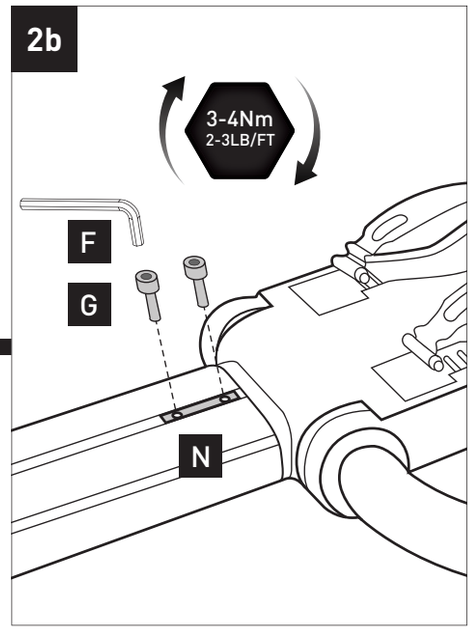
## 2



**2a**

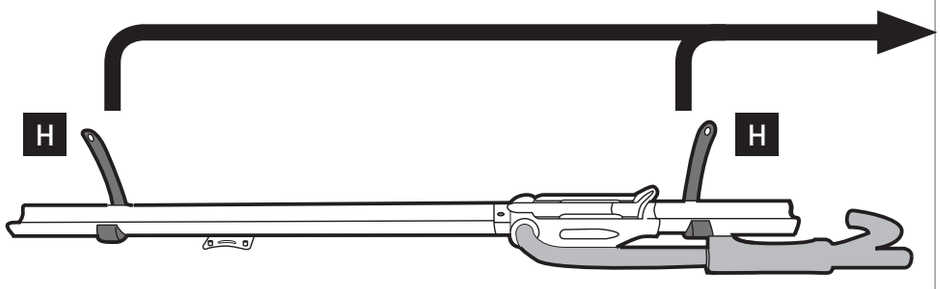



**2b**

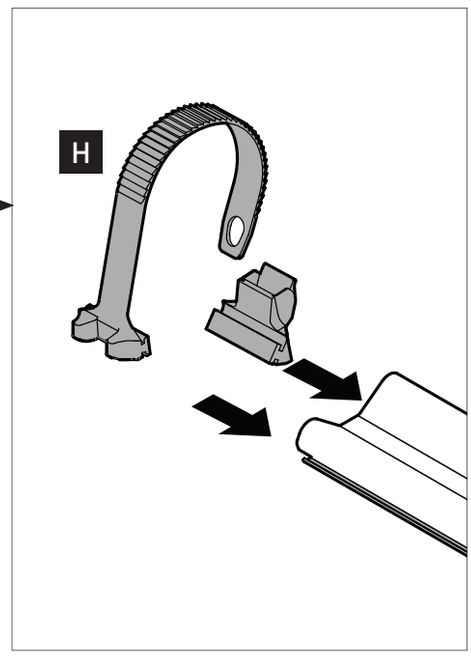



## 3

Install **H** strap opposite to Wheel Lock




**Wheel Lock**



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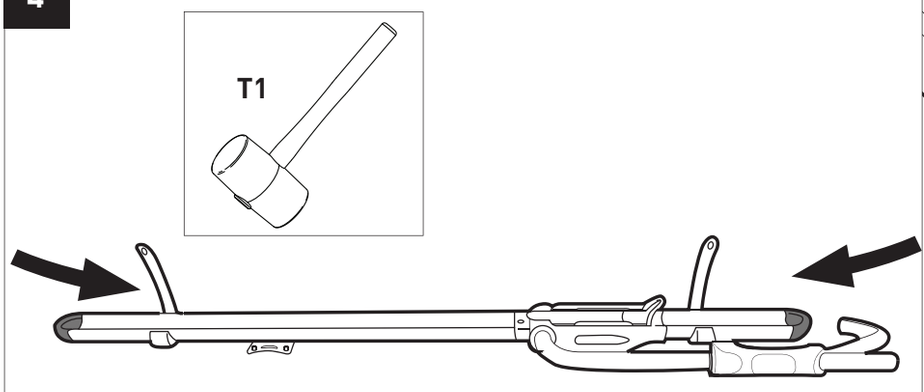
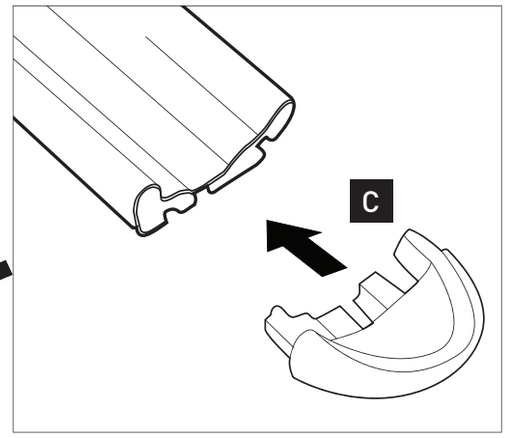
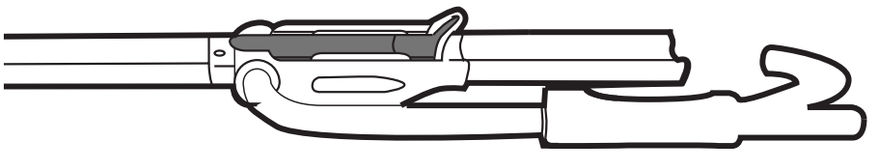
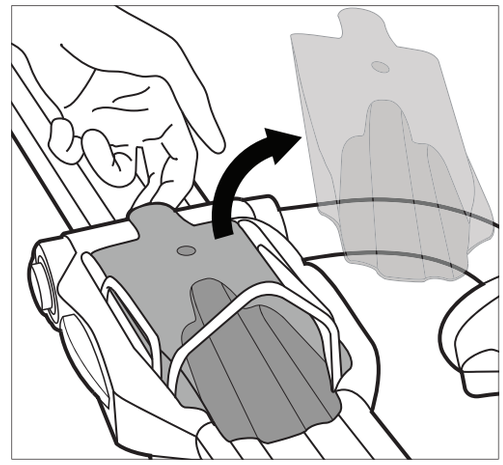



**5** Skip to page 11 if installing into C channels





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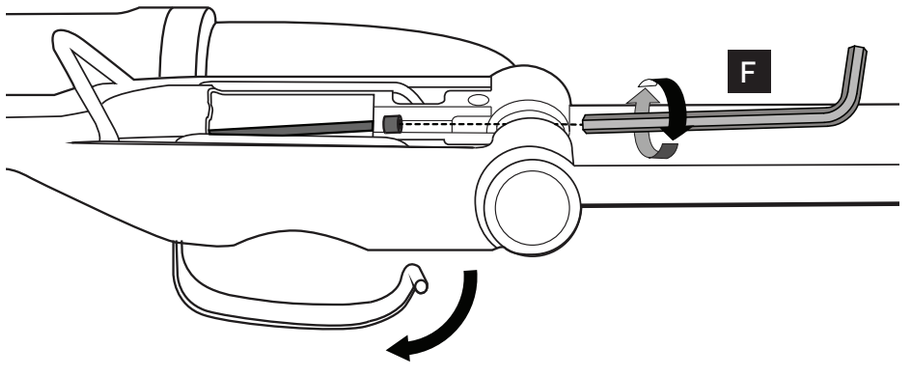


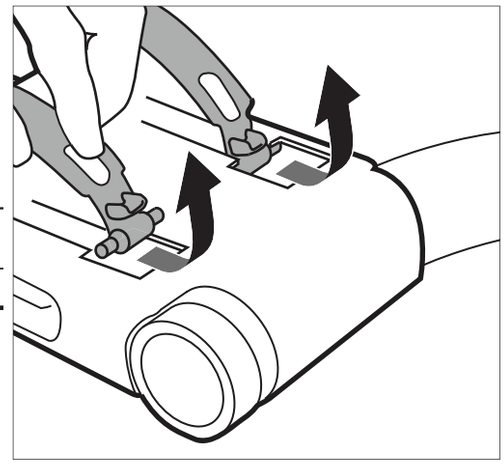

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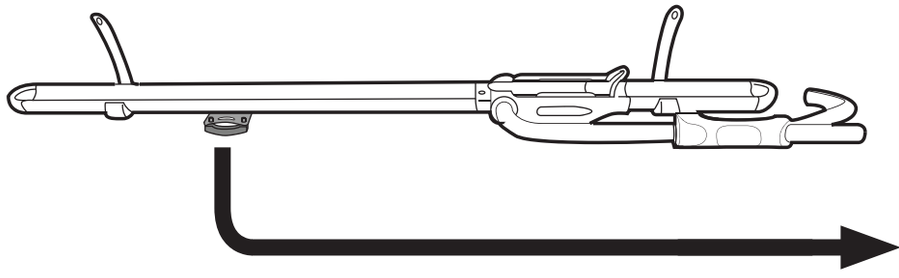
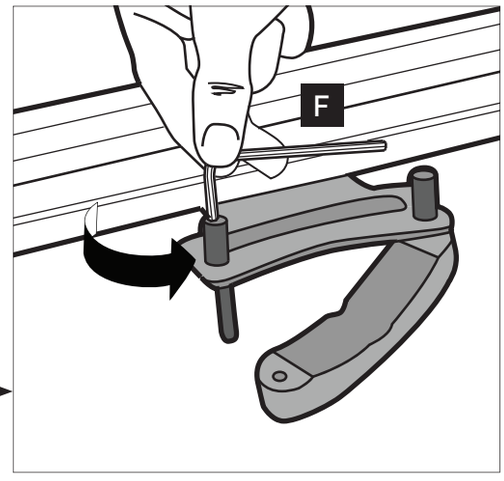
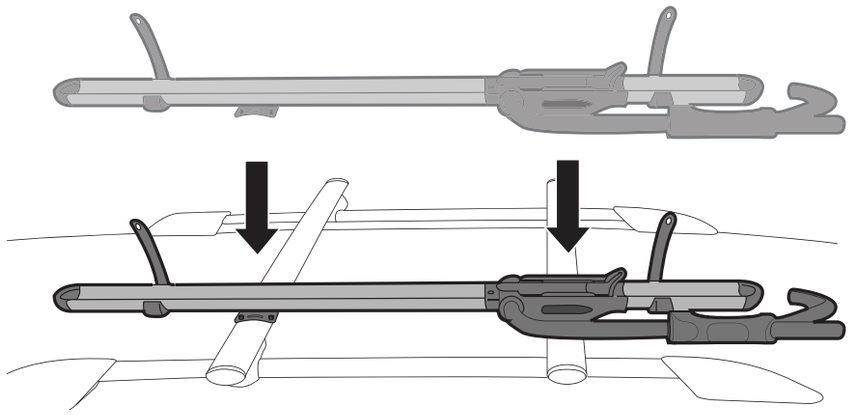
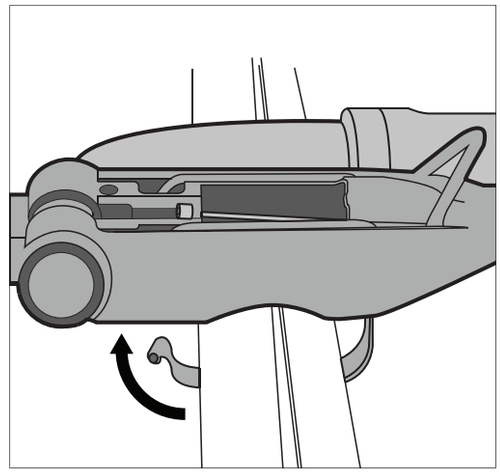


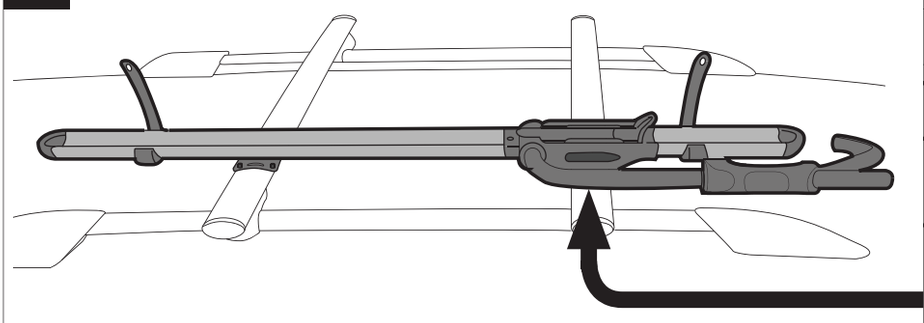


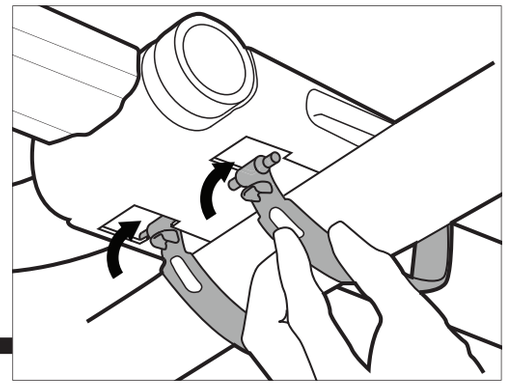
**8** If installing to left side of the vehicle continue to page 9 before proceeding





**9**





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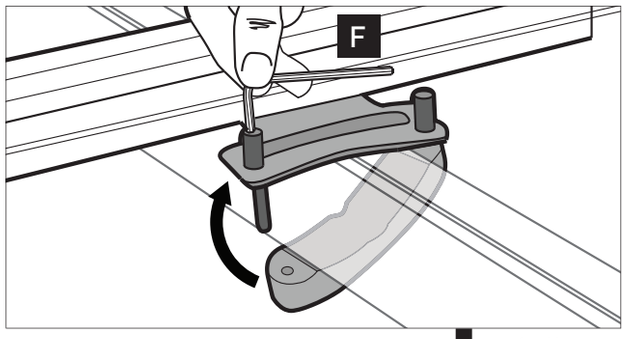
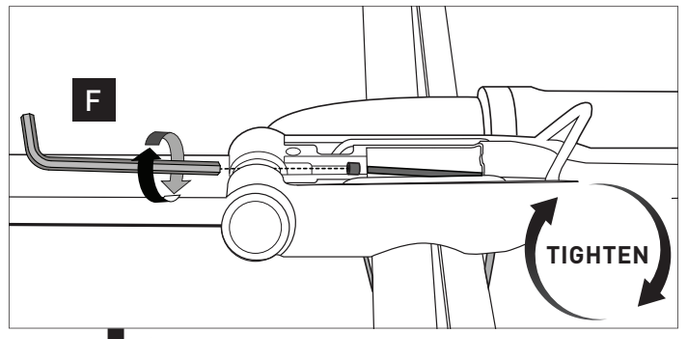
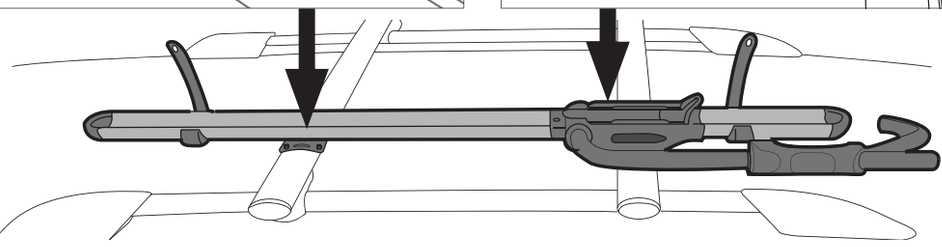
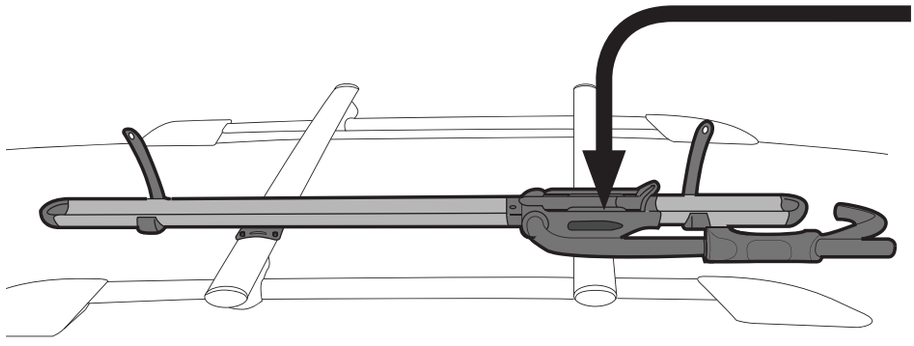
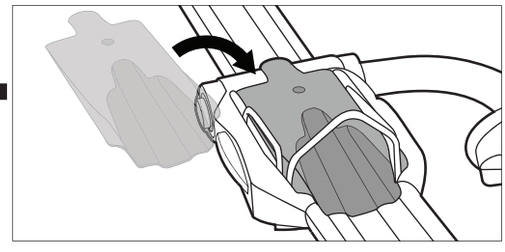


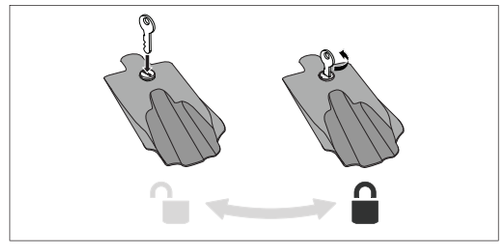



**11**

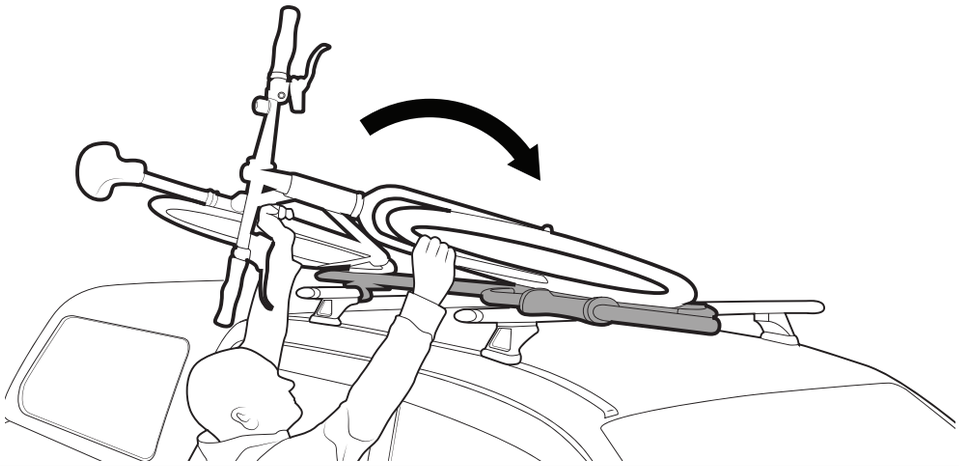


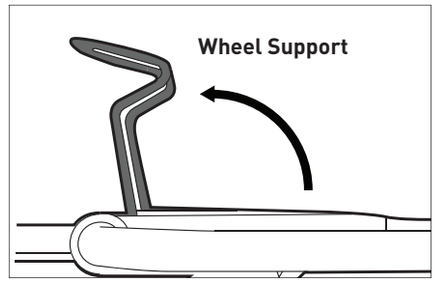


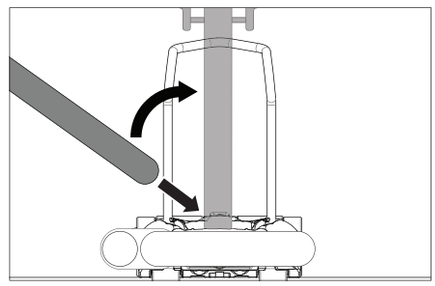


**12**

1: Swing open the Wheel Support.
2: Carefully lift the bike up to the Carrier.
3. Place the wheels into the Wheel Support.
Hold the front wheel into the Wheel Support.



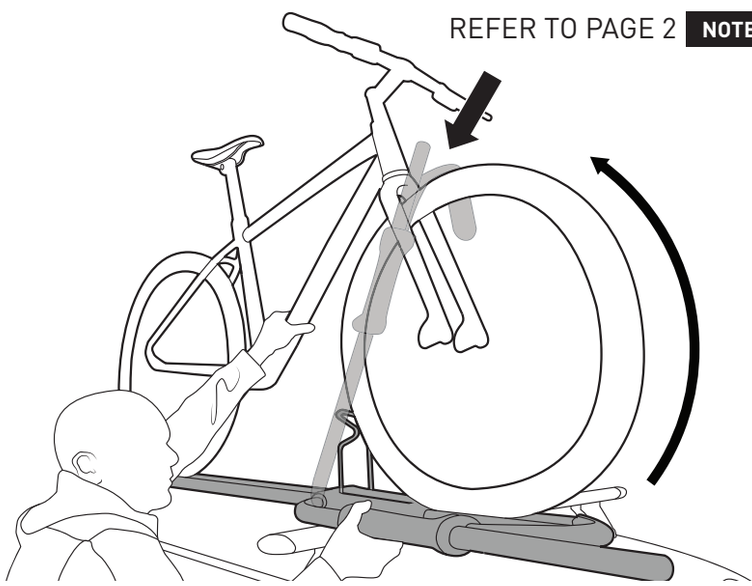


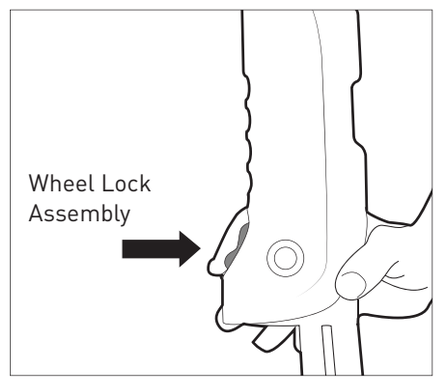



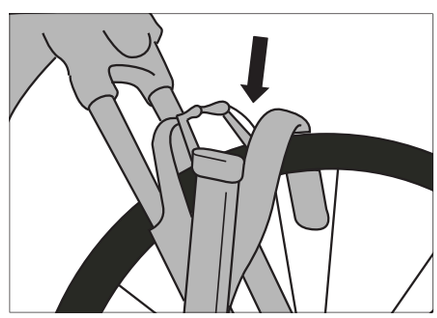
**13**

With the bike upright, depress the lock on the Wheel Lock Assembly & extend the arm over the front wheel. Pull the Wheel Lock tightly onto the wheel. Ensure fitting is secure before releasing grip on bike.

REFER TO PAGE 2 **NOTE**

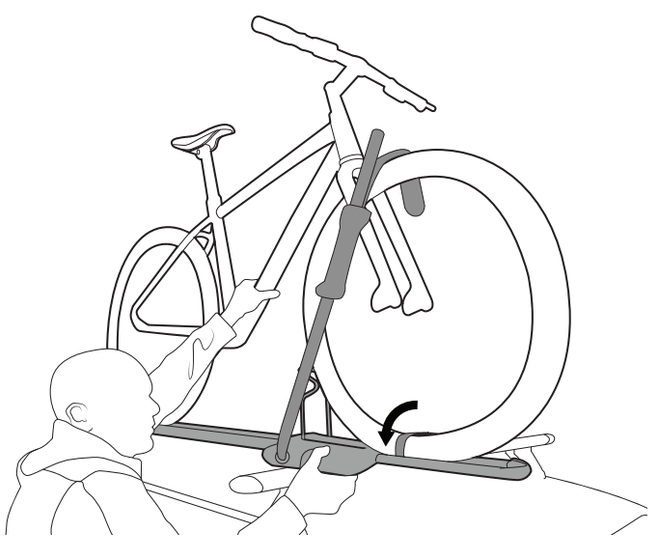


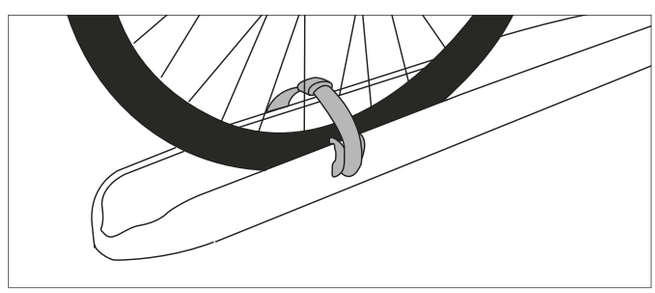


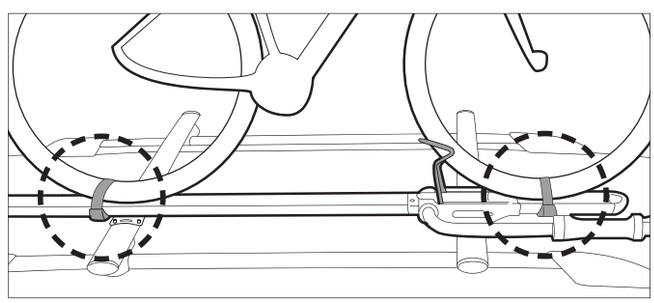



**14**

Secure the Wheel Strap to the front and rear wheel

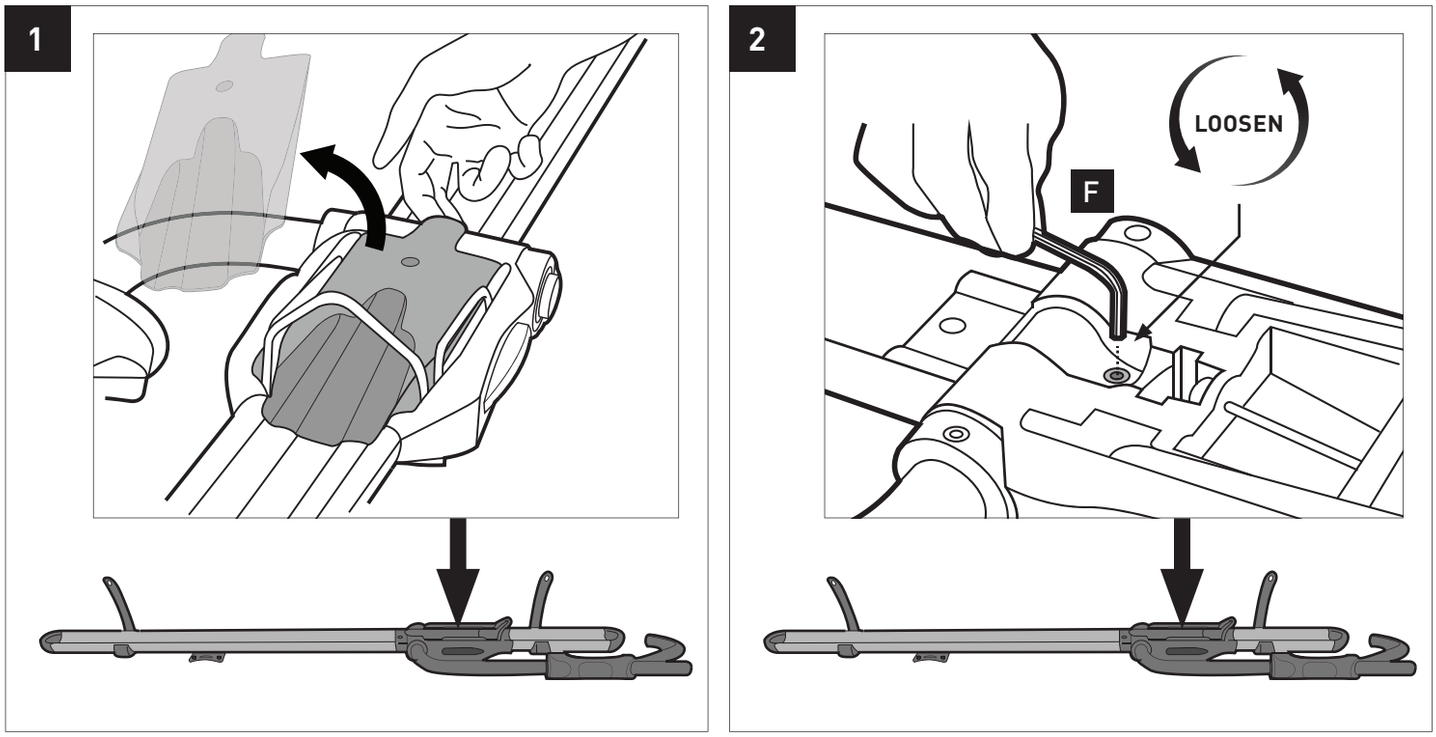




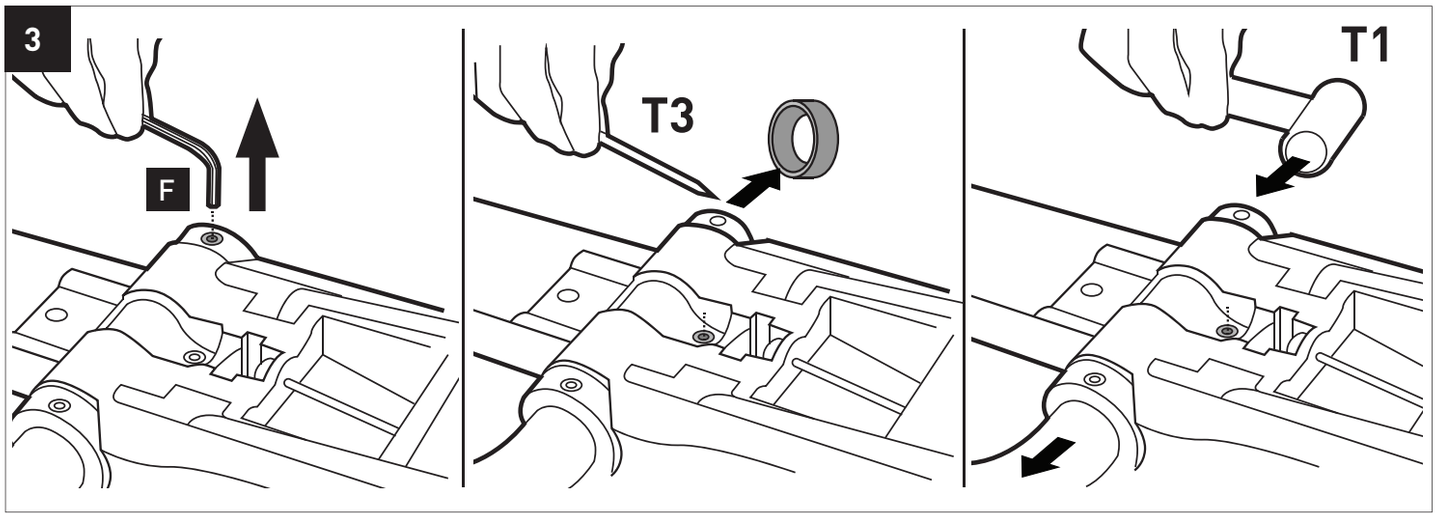


Proceed to Page 13

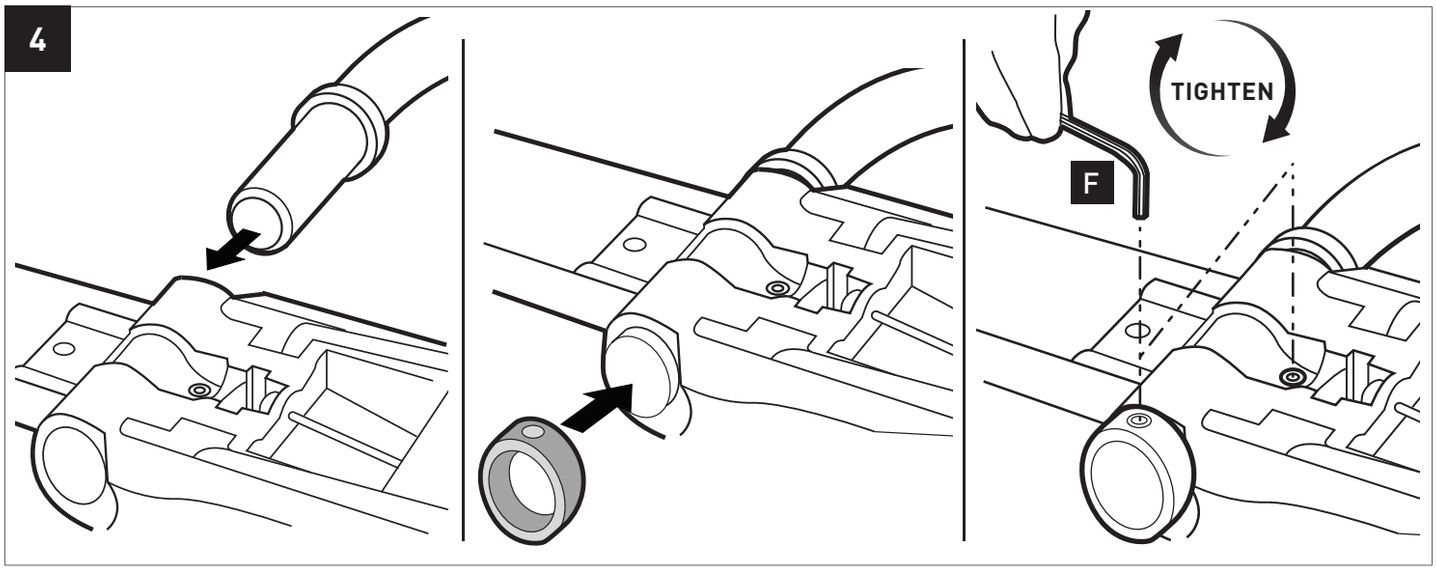
## OPPOSING ARM ASSEMBLY INSTALLATION




REMOVE WHEEL LOCK ASSEMBLY

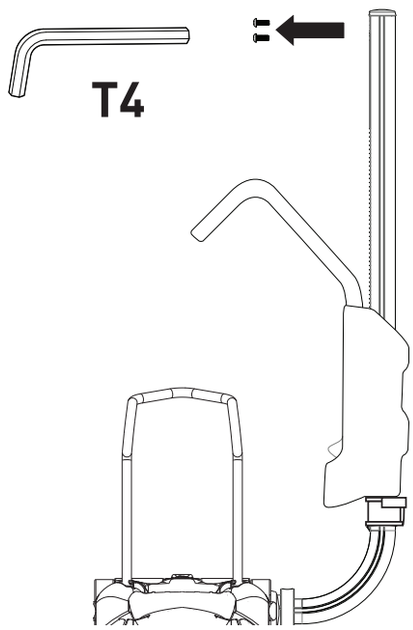



REINSTALL TO OPPOSITE SIDE

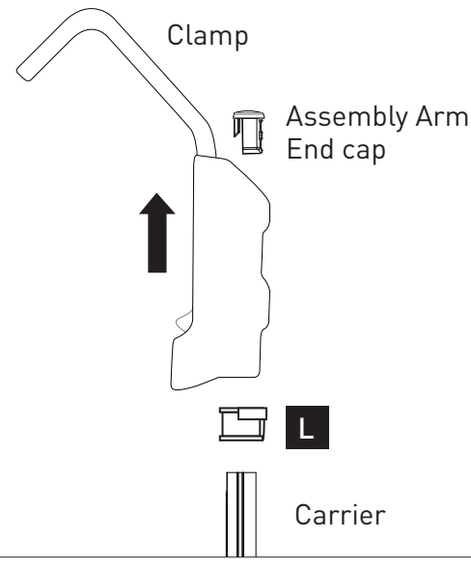


## SWITCH LOCK HOUSING ORIENTATION

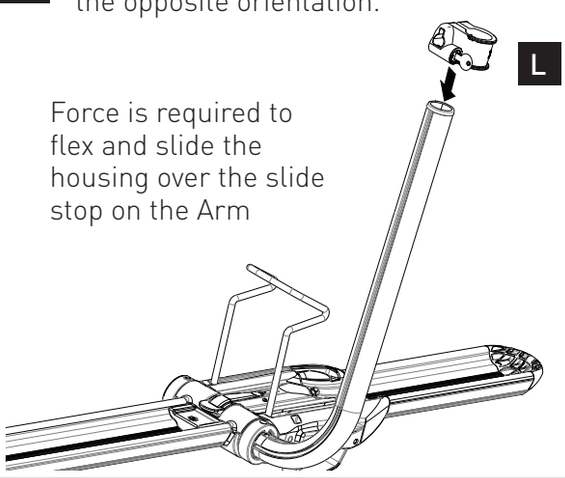
**5** Remove the Cap Screws

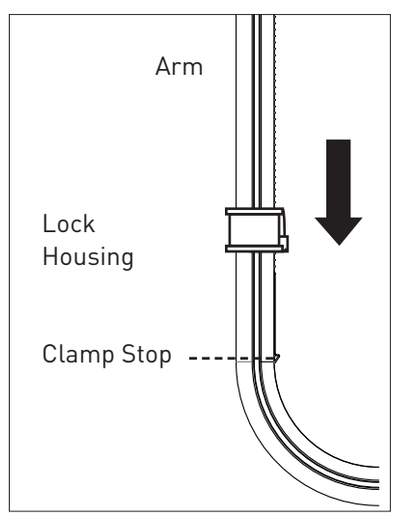


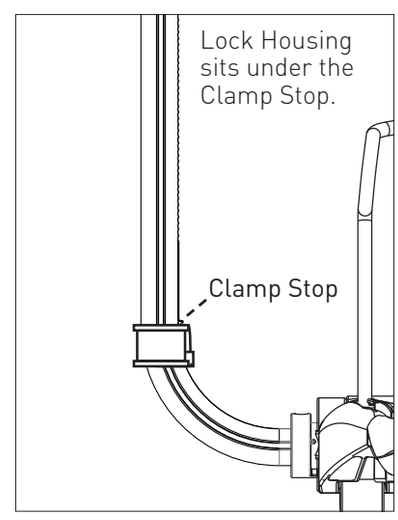

Slide the Assembly Arm End Cap and Clamp off the Carrier. Remove the hardware holding the Lock Housing.
*NOTE:* **L** *may need to be flexed open to slide it off.*



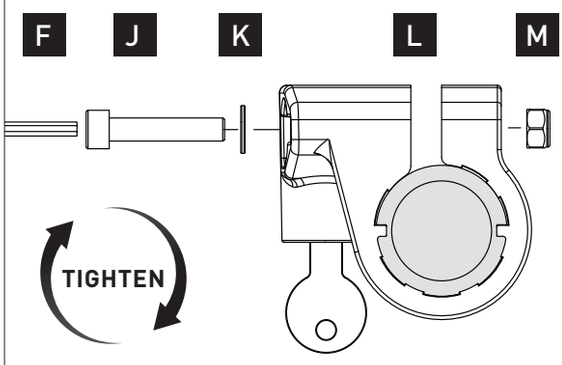

**6** Slide the Lock Housing down the Arm in the opposite orientation.



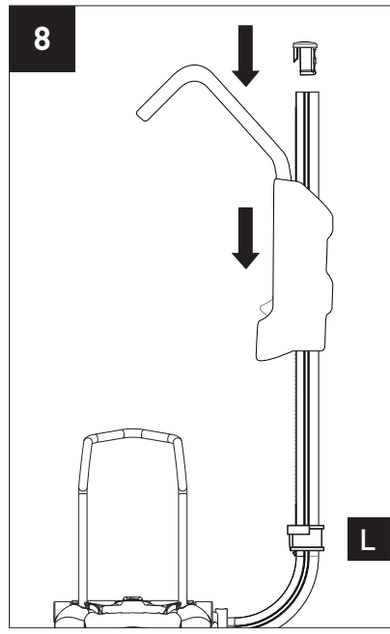



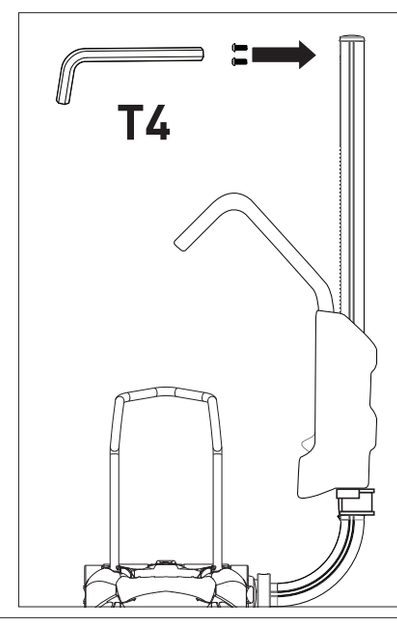




**7**




**8**

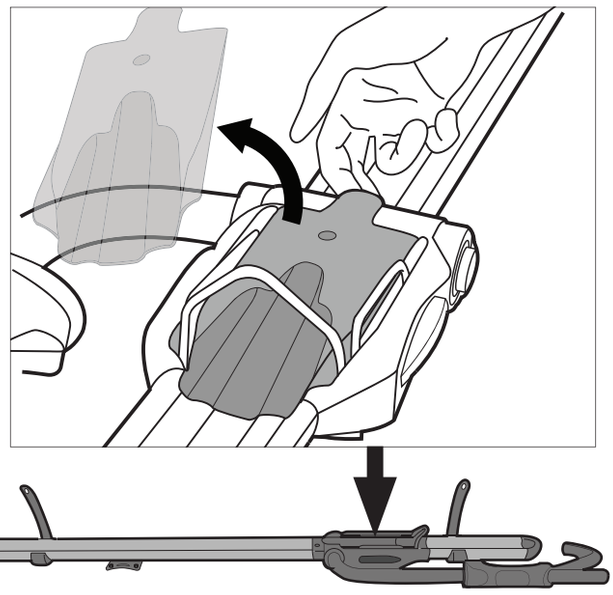


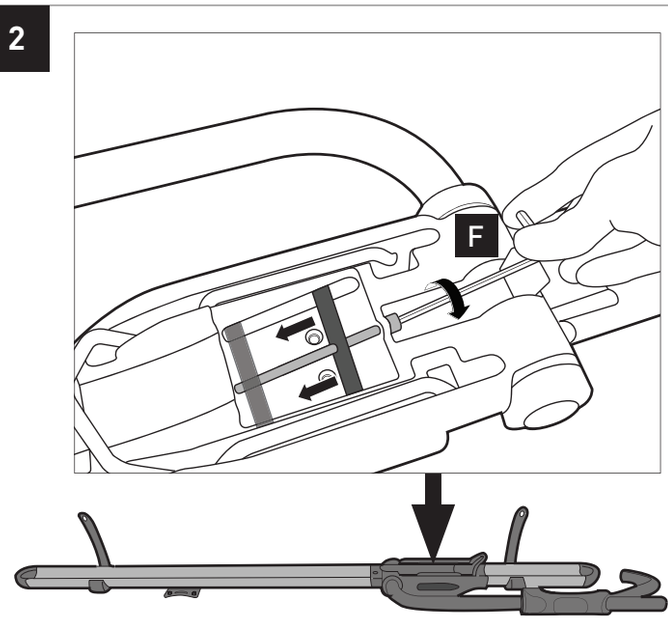

Proceed to Page 7, Step **8**

## **C CHANNEL FITMENT** (RBCA034/RBC035A required)

**1**



**2**

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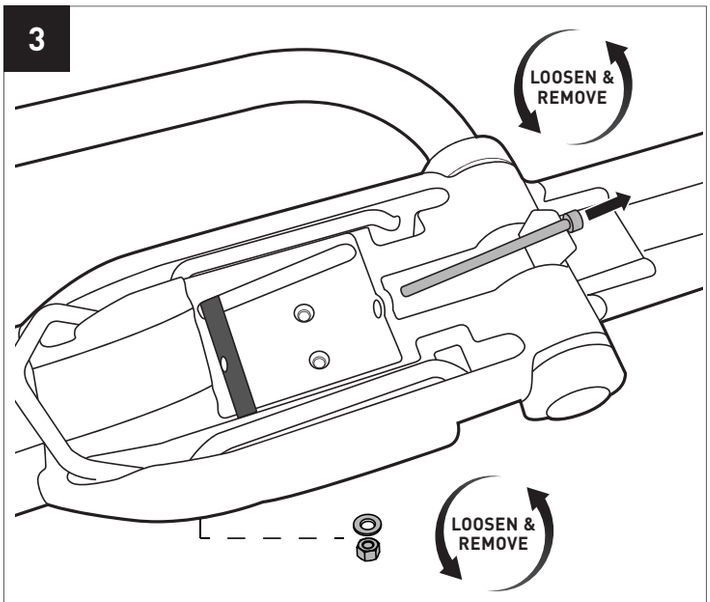
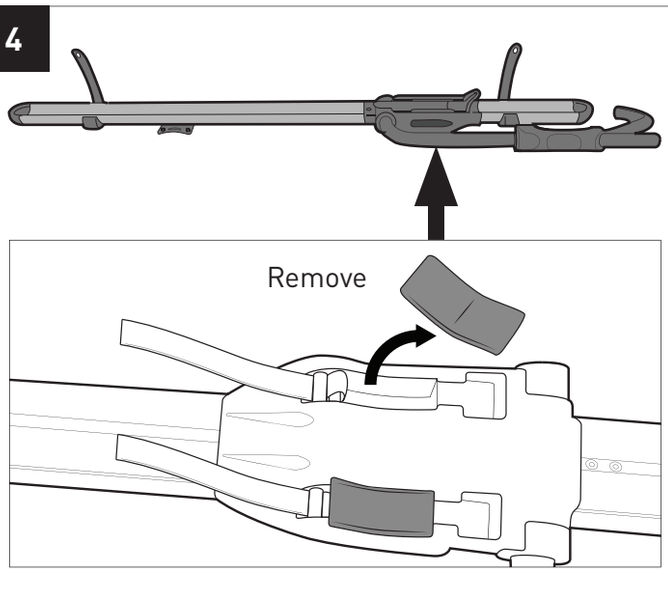
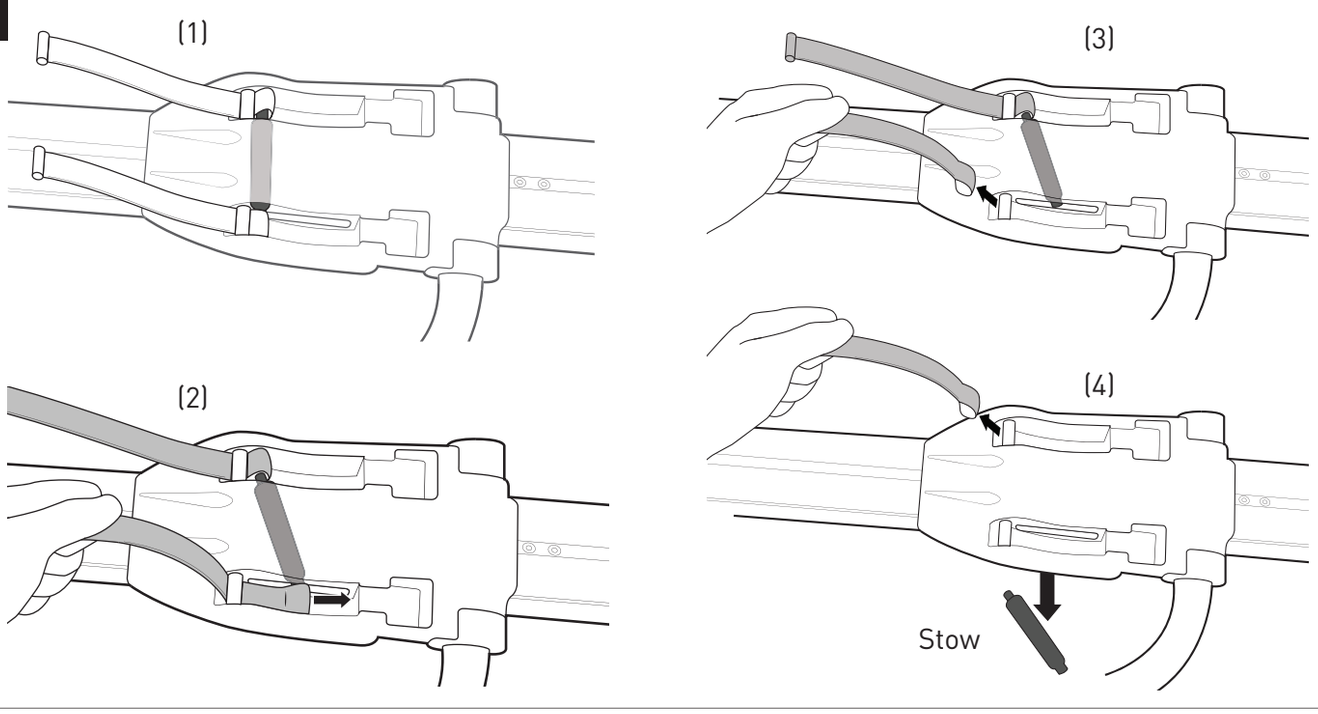


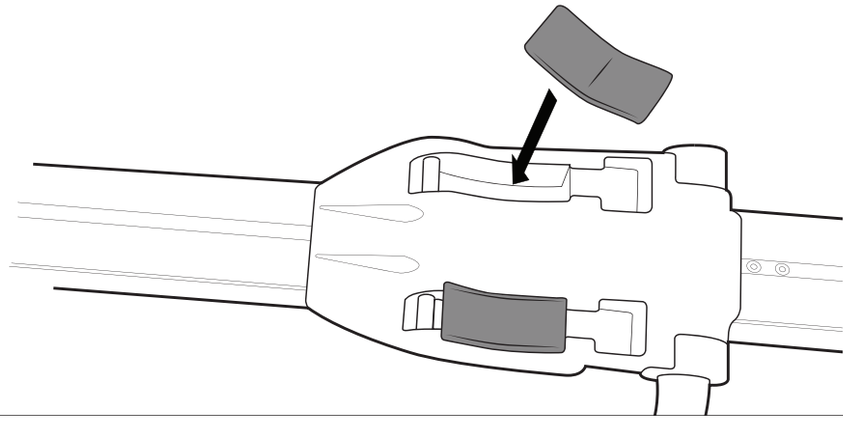

**4**



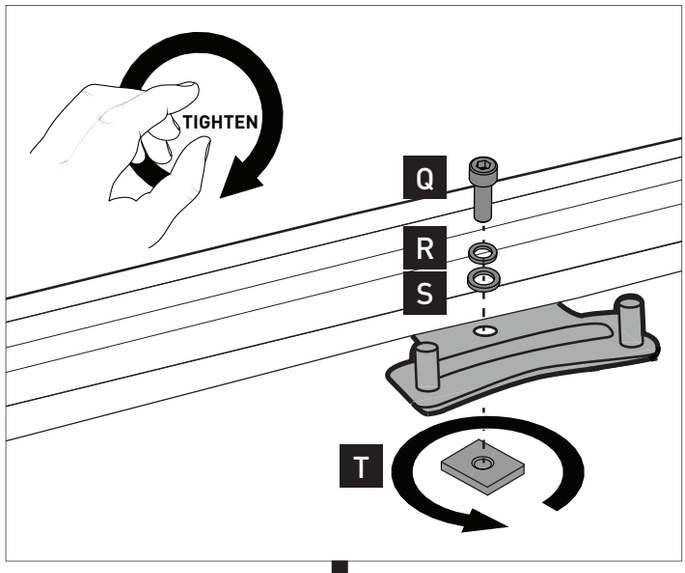

**5**

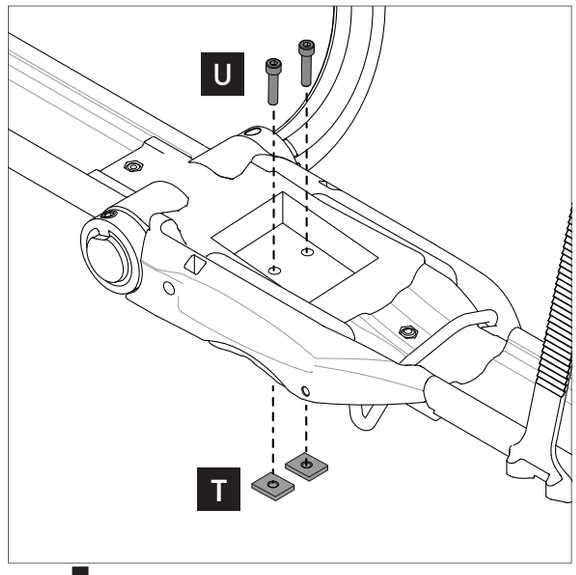


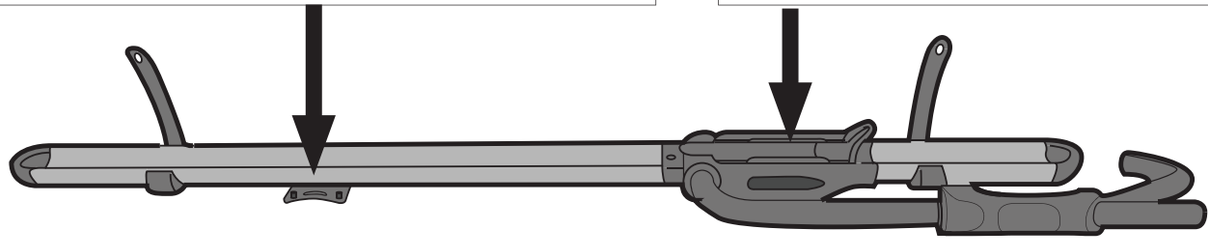
**6**



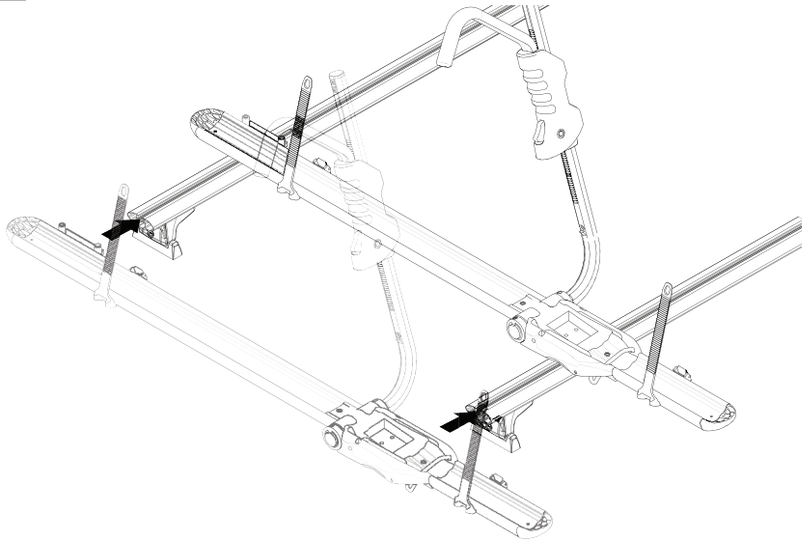
**7** Loosely fix fit kit hardware

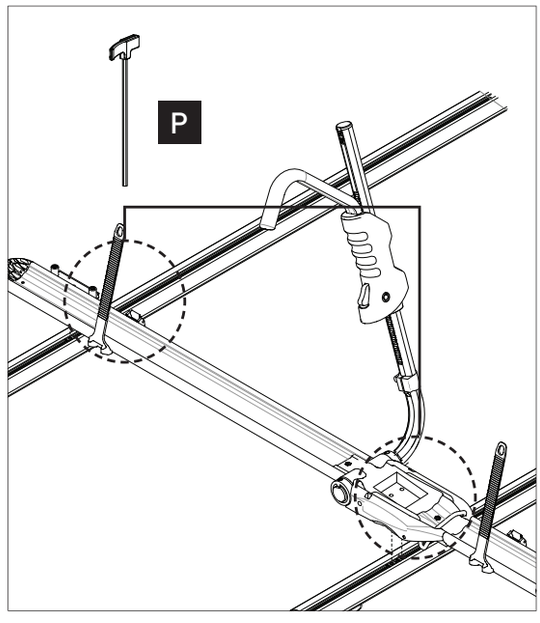


**8** Refer to compatibility page to slide into roof rack

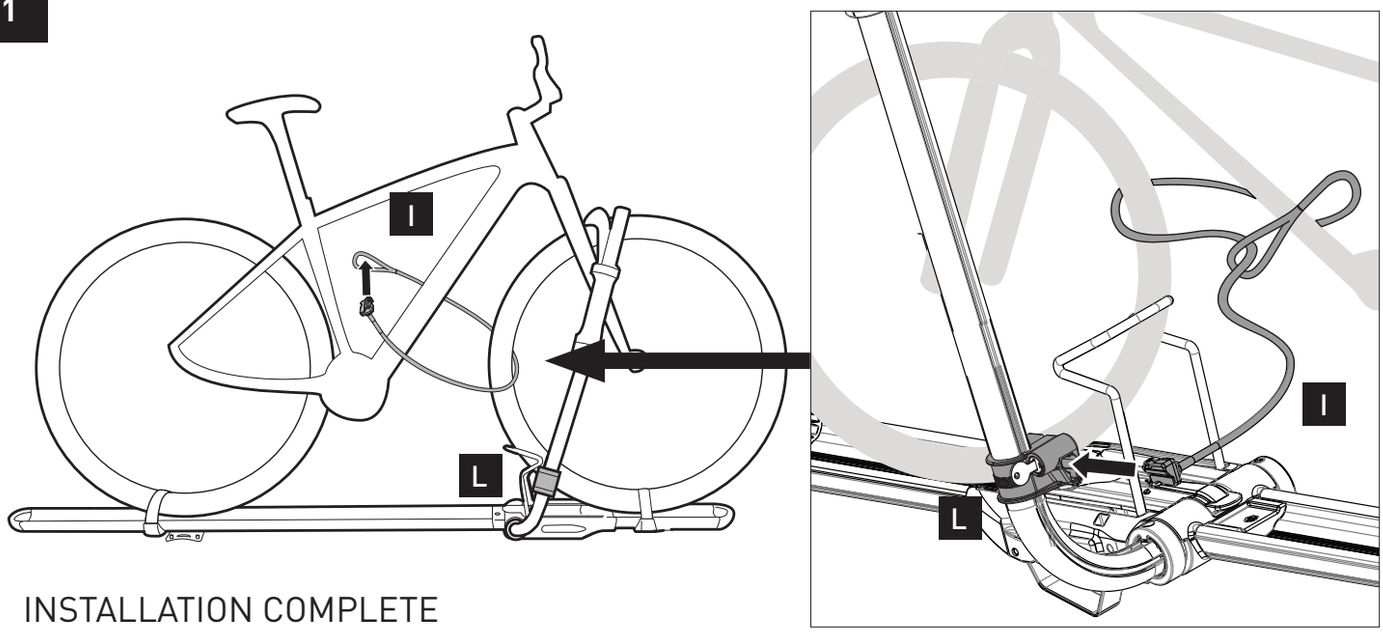





Proceed to Page 7, Step **11**

## SECURING THE BIKE

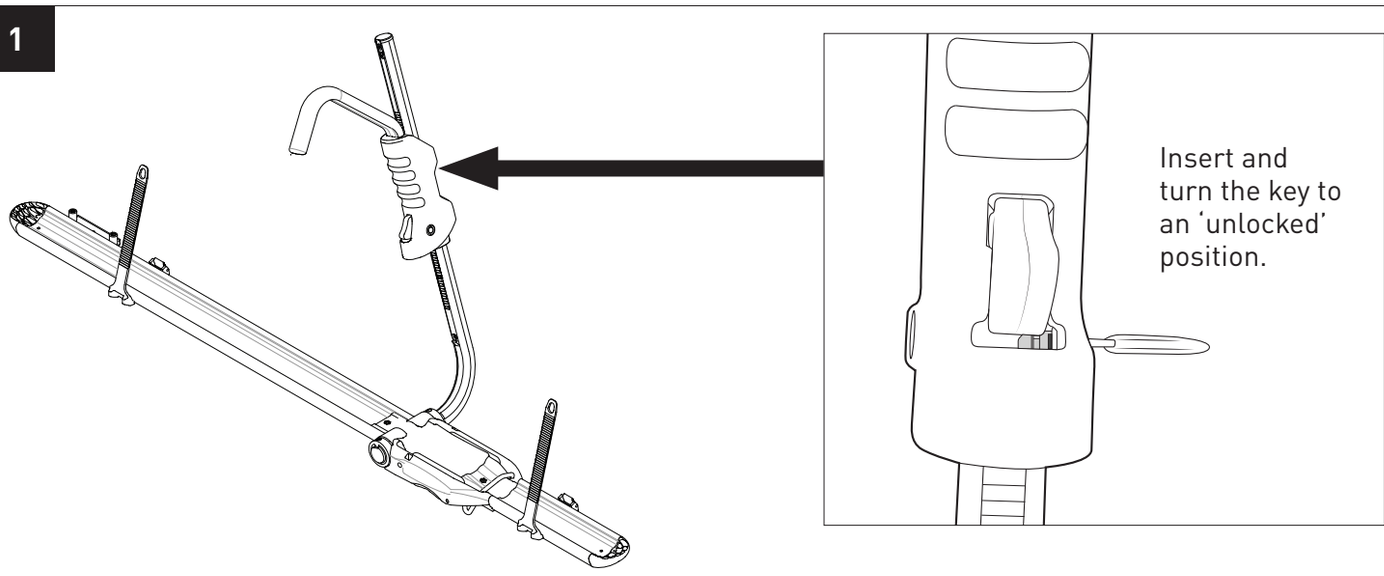
**1**



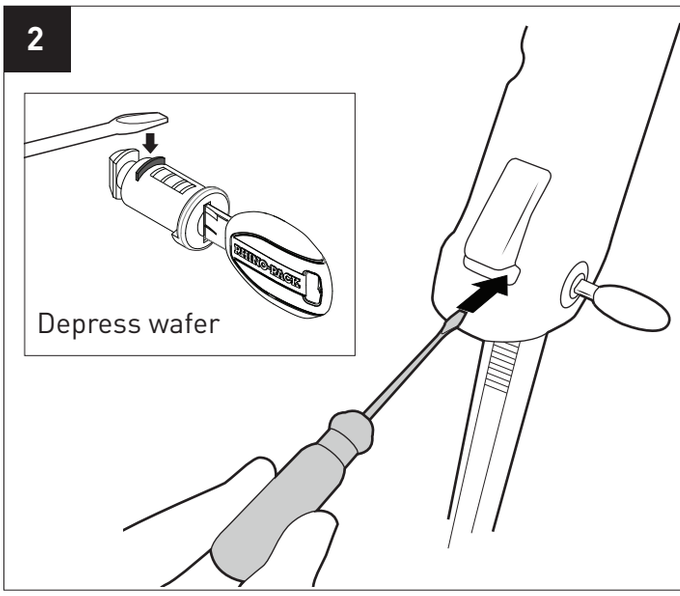

INSTALLATION COMPLETE

## REMOVING KEY BARREL FOR MASTER KEY FITMENT (sold separately)

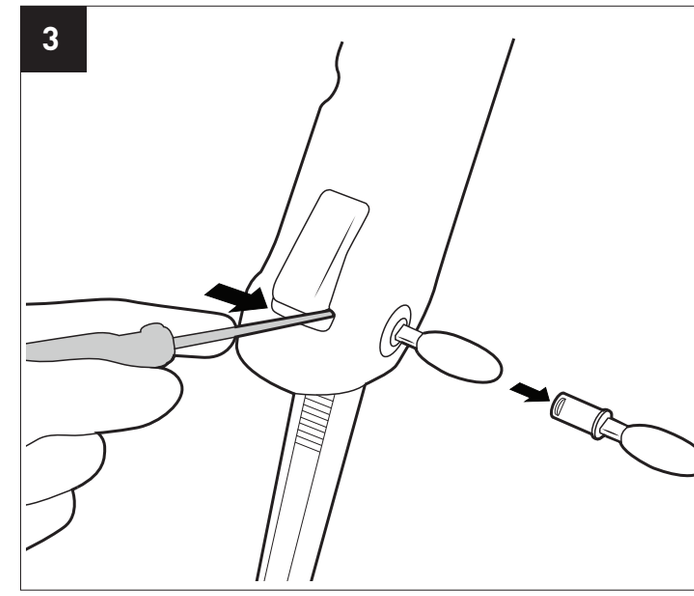
**1**




**2**

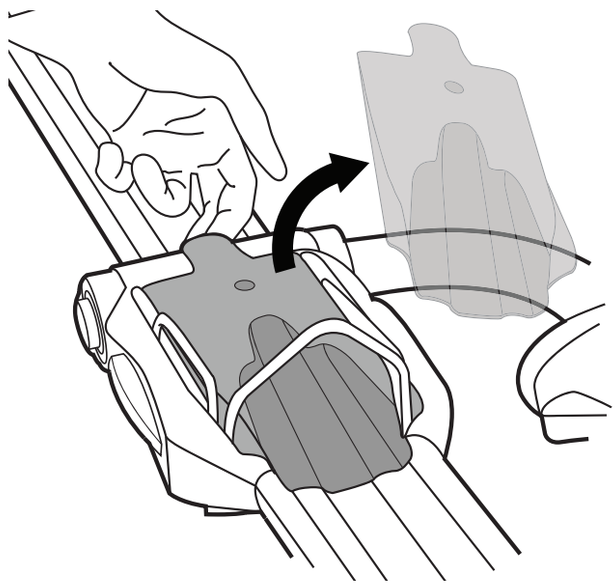



**3**

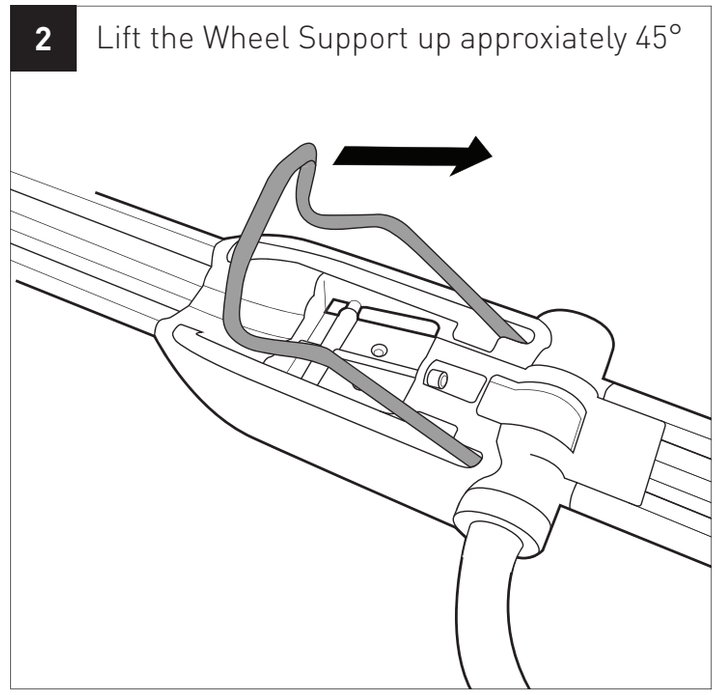


## **FAT WHEEL ADAPTOR** (RBCA033 sold separately)

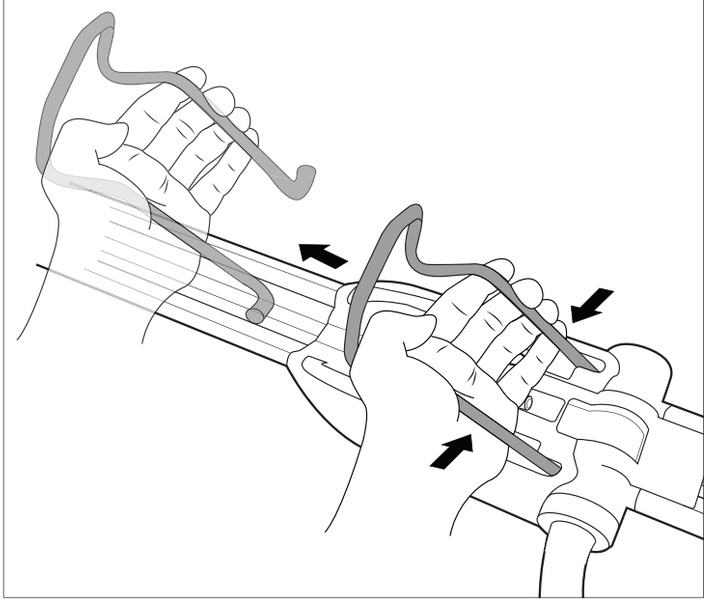
**1**



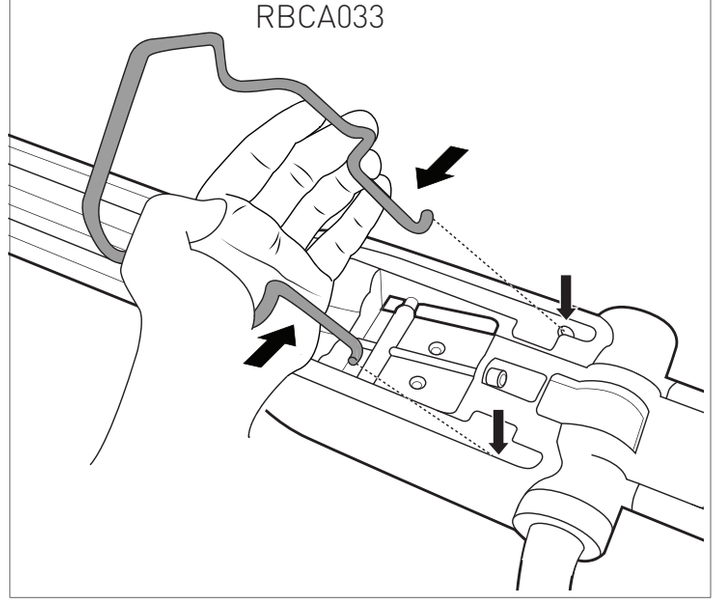
**2** Lift the Wheel Support up approxiately 45°



**3**



**4**




**5** Re-install