This is a page of instructions for the Rhino-Rack Hybrid Bike Carrier (RBC050). The instructions highlight the importance of reading them carefully prior to installation and ensuring that the roof racks are installed in the correct locations. They also advise checking the contents of the kit before commencing installation and reporting any discrepancies. The instructions recommend checking bolt connections after driving a short distance upon installation and again at regular intervals. They note that the bike carrier is not suitable for tandem bikes, e-bikes, or recumbents and recommend removing front fenders, child seats, and panniers before use. A warning is given to lock only as a deterrent and to exercise caution when protecting items from theft. They also caution against sensitivity to cross winds, behavior in curves, and braking, stating that the handling characteristics of the vehicle change when transporting a load. The instructions end by advising to remove the bike rack when putting the vehicle through an automatic car wash. The maximum carrying capacity is specified as 21kg/45lbs. The layout includes diagrams and a table with detailed instructions and recommendations.
**Tools Required:**

1. Rubber Mallet 2. Allen Key (provided) 3. Metal Key 4. Loctite

**Note:** See spare parts drawing online for any replacements required.

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**Fitting Instruction**

1. Using a rubber mallet, tap the Wheel Tray over the Arm Assembly fixture point.

The Arm Assembly fixture point will slide into the Wheel Tray here.

The Plate Washer will be pre installed in the Wheel Tray. Be sure it is in place.

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**General Parts List**

<table>
<thead>
<tr>
<th>Item</th>
<th>Component Name</th>
<th>Qty</th>
<th>Part No.</th>
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</thead>
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<tr>
<td>1</td>
<td>Extrusion End Caps</td>
<td>2</td>
<td>SP203</td>
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<tr>
<td>2</td>
<td>Arm Assembly/ Main Body Casting</td>
<td>1</td>
<td>SP212/ SP211</td>
</tr>
<tr>
<td>3</td>
<td>Rear Extrusion (955mm)</td>
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<td>SP214</td>
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<tr>
<td>4</td>
<td>Lock Core</td>
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<td>-</td>
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<tr>
<td>5</td>
<td>Metal Key</td>
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</tr>
<tr>
<td>6</td>
<td>Allen Key</td>
<td>1</td>
<td>H021</td>
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<tr>
<td>7</td>
<td>Socket Head Screw M6 x 18mm</td>
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<td>-</td>
</tr>
<tr>
<td>8</td>
<td>Wheel Strap Complete</td>
<td>2</td>
<td>SP204</td>
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<tr>
<td>9</td>
<td>Cable</td>
<td>1</td>
<td>CA1509</td>
</tr>
<tr>
<td>10</td>
<td>M6 x 30mm Cap Screw</td>
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<td>11</td>
<td>M6 Flat Washer</td>
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<td>14</td>
<td>Washer Plate 36mm x 20mm</td>
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<td>15</td>
<td>Instructions</td>
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<td>R475</td>
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</table>
2 Turn the unit over. Using the two Socket Head screws provided, fix the Arm Assembly in place to 3-4Nm. It is recommended to use Locktite on these screw to avoid loosening over time.

3 Remove the cover plate on the Arm Assembly.

4 With the allen key provided. Unlock the grips at the opposite end of the unit from the Arm Assembly.

5 Slide the Wheel Tie Down Assemblies onto the Wheel Tray at both ends. Face the loose end of the strap to the outside of the vehicle.

6 Insert the End Caps into both the front and rear of the unit.

End of strap should face the outside of the vehicle.
7. Place the unit onto vehicle crossbars. Wrap the fixture straps under the bar as shown.

8. The fixture wraps slip into place on the underside of Arm Assembly.

9. Tighten the socket head on top of the Arm Assembly with the allen key provided. Tightening will engage the fixture wraps around the crossbar.

10. Wrap the rear carrier grips around the rear crossbar. Using the allen key provided, tighten in place.

11. Install the cover plate into the carrier.

Note: Spacers can be removed for taller crossbars to gain extra bolt length.

Push the wrap into place.

Push the cover back into place.

Be sure cover is in an unlocked position.
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1: Swing open the Wheel Support Arm. 2: Carefully lift the bike up to the Carrier. Drop the wheels into the body of the Carrier. The far side of the Carrier will provide purchase as the bike is lifted into position. Be sure the Bikes front wheel sits in the Wheel Support.

Side View 2: Slide the wheels in on an angle and then lift upright.

With the Bike in an upright position, depress the lock on the Arm Assembly and extend the arm over the front wheel of the bike. Pull the Arm hard onto the wheel. Make sure fitting is secure before releasing grip on bike.

Tall vehicle setup shown.
Secure the Wheel Strap both front and rear of the Bike. Be sure both fittings are secure.

Be sure to position Arm Assembly securely up against the front wheel fork of the bike. Do not position it at a significant distance from the fork.
Opposing Arm Assembly Installation

1. Remove cover plate from the Arm Assembly. With the provided allen key remove the hardware from the Arm Collar.

2. Loosen centre bolt hardware on the Arm Assembly. Do not fully remove.

3. Remove the Arm Collar with a flat head screw driver.

4. Using a rubber mallet, tap out the Arm.

5. 1: Swap the Arm to opposite site and insert back into the unit. 2: Place the Arm Collar back into position. 3: Return collar hardware and tighten. Tighten centre bolt hardware.
If the Arm has been moved to the right side, the Lock House orientation must be corrected. Use a 4mm Allen Key and remove the Cap Screws at the top of the Arm Assembly.

Use the M6 x 30mm Cap Screw, Flat Washer and Nyloc nut to fix the Housing in place. Tighten using the Allen Key provided.

Slide the Lock Housing down the Arm Assembly and into position. The housing needs to be flexed over the slide stop on the Arm (force is required).

Note: The orientation of the unit must be as shown. The Lock Housing is flipped from its original position.

Slide the Clamp and End Cap back on the Arm.
2: Refit the Cap Screws.
1. With the Cover Plate off the Arm Assembly and using the allen key provided, begin unscrewing the socket head screw within. Note the Strap Bar will move towards the front of the unit.

2. Continue to unscrew the socket head screw until it comes free. Be sure to collect the M6 flat washer and nut that will drop out under the unit.

3. Turn the Arm Assembly over. Remove the Rubber Pads from the underside of the unit. Do not throw away.

4. Note the position of the Strap Bar, this holds the straps in place.

5. Take one of the straps and push it forward as shown. This will release one side of the Strap Bar from the strap.

6. Remove both straps. The Strap Bar should fall out of the Arm Assembly. Store in a safe place.
8 Replace the Rubber Pads onto the bottom of the unit.

9 Loosely fit the M6 x 16mm socket screw, spring and flat washers with an M6 square nut to the rear of the carrier. This hardware is located in the RBCA034 fit kit.

10 Loosely fit the M6 x 25mm socket screws with M6 square nuts to the front of the carrier. This hardware is located in the RBCA034 fit kit.

11 Slide the carrier into the C channel of the crossbars as shown. Using the torque allen key provided in the RBCA034 kit, fix RBC050 into place. Check fitment is secure before use.
1: Loop the Cable Lock around the bike frame.
2: Place the Cable lock into the Housing on the Assembly Arm. Lock using the key provided. Remove the key.

Attach the Cable to the Bike frame as shown.

Clip the Cable into the Housing and lock using the key provided.
Removing Key Barrel (For Master Key Fitment)

1. Locate the trigger on the Arm Assembly. Insert the Metal Key into the Lock Barrel and set to the 'unlocked' position. The Locking Wafer on the Barrel should be visible.

2. Use a flat head screwdriver to depress the Wafer within the Arm Assembly.

3. With the Wafer still depressed, carefully push the Lock Barrel out of the unit.

Master Keys Sold as separate*

Fit Master Key as per instruction (sold separately)
Fat Wheel Adaptor Fitment RBCA033 (sold separately)

1. Remove the Cover Plate on the Arm Assembly.

2. Lift the Wheel Chock up partially. Lift the original Wheel chock up approximately 45°.

3. 1: Compress both sides of the Wheel Chock inwards. 2: This with release it from the Carrier. Remove the Chock.

4. Compress both sides of the Fat Wheel Chock inwards. Slide it into the same orientation and position as the original Chock.

5. Replace the Cover Plate onto the Carrier.
1: Slide the Wheel Strap Extension over the Wheel straps already fixed to the Carrier.

2: Secure the Extended Wheel Straps both front and rear of the Bike. Be sure both fittings are secure.