RAKETA

GEN 3 TRACK HUBS MANUAL

1. LIMITED WARRANTY

Raketa provides a limited five (5) years warranty against manufacturing defects to the original owner. In order to be considered for warranty, original proof of purchase from a Raketa retailer or dealer showing the date of purchas must be provided. If the product was purchased straight from us, the customer must write an e-mail with the confirmation of recieving the product so that the date of recieving the product is the date of purchase. If the customer fails to confirm recieving of the product, the date of purchase is the date when the product was shipped. All Raketa products have an intended purpose. Raketa GEN 3 Track Hubs are designed for track use and road street riding with no jumps. Products used outside of that purpose will not be warranted and Raketa cannot be held responsible for any damage that may occur due to misuse.

2. NOT COVERED UNDER THIS LIMITED WARRANTY

1. Normal wear of the parts that are subject to wear (e.g. bearings).
2. Incorrect re-assembly.
3. Use of improper tools (e.g. threading a lockring or pressing the bearings)
4. Use in combination with other products that are not compatible (e.g. threading a freewheel)
5. Improper maintenance, misuse and neglect.

3. HUB MAINTENANCE

Raketa GEN 3 Track Hubs feature an automatic preload adjustment. No additional manipulations with the hubs should be performed after the purchase. One or a few rides may be required for the beaings to adjust their position and remove an excessive drag. Note that the bearings are prone to wear. If the bearings feel rough or do not spin freely, it is advisable to replace them. If you are not comfortable with performing any of the following instructions, find a bicycle shop in your area that will be able to assist you.

3.1. QUICK REFERENCE GUIDE

1. The instructions for the front and rear track hubs are the same.
2. Front hub uses NSK 6902 bearings. Any internal clearance exceeding and including CN is allowed.
3. Rear hub uses NSK 6902 bearings. Any internal clearance exceeding and including C3 is allowed (lower internal clearance may not work).
4. Front bolts dimensions are M8x30 for 6 mm allen key.
5. Rear bolts dimensions are M8x35 for 6 mm allen key.

3.2. DISASSEMBLY

An arbor press or mallet is required for the disassembly. A mallet can be used only if the bearings are not going to be used again.
1. Unscrew one M8 bolt leaving 10 to 15 mm clearance between the washer and the endcap and press out the axle with the bearing.
2. Unscrew the M8 bolt completely to remove the endcap under the bolt.
3. Remove the endcap and the bearing from the axle.
4. Press out the second bearing. It is allowed to use the axis with the M8 bolt screwed in for pressing out.

3.3. REASSEMBLY

An arbor press or bike bearing press tool with 6 mm axle is required for the assembly. Pre-lubrication of the axles is not required.
1. Clean all the parts with the mild degreaser.
2. Press in one bearing into the hub shell.
3. Insert the axle into the installed bearing (it may take a little effort due to the presence of an o-ring on the axle under the bearing).
4. Install the endcap on the axle from the side of the installed bearing. When installing, you must first orient the endcap relative to the axis by the triangular guide surface located on the endcap and the axis. To make sure that the installation is done correcly, it is necessary to put the endcap on the axis with your hand and slightly pressing, rotate it around the axis until the rotation stops. Further pressing can be continued only after the endcap is fixed in an angular position (a small backlash for rotation in both diretions will be present).
5. Press in the second bearing by pressing on the **INNER** ring of the bearing. Pressing on the outer ring or both rings at once is not allowed. On a manual arbor press, it is necessary to install the hub on the already installed endcap. If a bike bearing press tool is used, the end face of the installed endcap is the support surface during pressing. When pressing, it is important not to damage the triangular guide surface located on the axis (mentioned in paragraph 4). It is not allowed to use an endcap for pressing (using an endcap for pressing can damage the triangular guide surface located on the axis and the endcap).
6. At this point it is recommended to check hub rotation with the pressing load present. The hub should hardly rotate with the pressing load present and spin freely once the pressing load is removed. If the hub spins freely in both cases (with and without the pressing load) you should disassemble the hub and start again from the other side of the hub shell.
7. Install the second endcap according to paragraph 4.
8. Screw in the bolts with washers.

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GEN 3 TRACK HUBS OVERVIEW