

Atilla The Hub

BMXCassette Hub

WHEEL BUILDING

The Atilla is designed to use 14 and 15 gauge spokes, in a 3 cross pattern. Any thing less than a 3 cross pattern voids the factory warranty.

HUB DIMENSIONS

Center to Flange	left 37.1mm right 30.2mm
Flange Diameter	51mm

WHEEL INSTALLATION

Steps to Follow:

- Step 1) Remove the axle nuts, steel washers, and the knurled washers from both sides of the hub.
- Step 2) Place wheel in frame and put the chain on the cog.
- Step 3) Re-assemble the knurled washers (knurled side facing frame), steel washers (flat side facing knurled washer), and the axle nuts (flat side facing steel washer.)
- Step 4) Align the wheel and hand tighten the axle nuts.
- Step 5) Tighten the axle nuts (19mm socket) to approximately 150 inch pounds.

MAINTENANCE

The Atilla is supplied with high quality double sealed bearings; it is best to leave these alone. The seals and factory lubrication have proven to be very effective against dirt, dust, grime, and water spray. However, when cleaning your bike, do not spray solvents or water near the bearing seals.

The Atilla bearings are replaceable, however, under normal use they will last for years. At some point you may wish to have the bearings replaced. This should be done by a Sun Ringlé Dealer.

The Atilla cassette hub features three independently sprung pawls that engage simultaneously with a ratchet ring that has 36 teeth. This enables the mechanism to engage at ten degree increments. The system is designed to have very low drag when coasting. Periodic cleaning and lubrication is required to insure continued smooth operation and long service life.

The three pawl ratchet mechanism is designed for ease of disassembly and maintenance. Maintenance should be performed on a regular basis at intervals determined by your riding conditions (extremely dusty or wet conditions require more frequent maintenance). If you notice that the chain feeds forward while coasting or that it is difficult to back pedal, it is definitely time to clean and lubricate the operating parts of the ratchet mechanism. The ratchet mechanism comes ready to ride from the factory and is lubricated with a medium weight oil (Pedro's SYN lube ATB). Do not use grease to lube the pawls. Grease retards the action of the pawls and may prevent full engagement with ratchet teeth. The use of grease in the ratchet mechanism will void the factory warranty.

CLEANING & LUBRICATION PROCEDURE

Two 16mm flat wrenches are required for disassembly of ratchet mechanism. Remove cog before starting the following steps.

- Step 1) Use the 16mm flat wrench to thread the drive side lug out of the sub axle.
- Step 2) Slide drive spacer off of the sub axle
- Step 3) The cog carrier and crush tube will slide off the sub axle

- Step 4) To clean and lube, carefully remove the pawls and springs. It is extremely important that the springs do not get bent or stretched. We find it easiest to clean the cog carrier, pawls, and ratchet ring with a cotton swab.
- Step 5) For re-assembly, first put springs in place, then put a drop of medium weight oil in each pawl retaining pocket and slip the pawls into place. Make sure the spring is seated in the spring pocket of the pawl.
- Step 6) Put a light coat of oil on the O-ring seal, and on the teeth of the ratchet ring.
- Step 7) Place crush tube on the axle.
- Step 8) Slide the cog carrier back onto the axle. The pawls must be compressed so that they will engage with the ratchet ring. Now slide the cog carrier all the way on.
- Step 9) Place the drive spacer onto the sub axle. the stepped side of the drive spacer faces the cog carrier bearing.
- Step 10) Tighten the drive side lug back down with the 16mm flat wrench.
- Step 11) Make sure the cog carrier ratchets freely.

COG MOUNTING

The Atilla cassette hub comes complete with a 16 tooth cog. 13 throw 17 tooth cogs are available, ask your dealer for more information.

To remove the cog, place a chain whip on the cog and, using a 36mm headset wrench, thread off the cog retaining nut. When remounting the cog, the flat side of the cog must face the hub shell, the not so flat side faces the cog retaining nut.

SUN RINGLE LIMITED WARRANTY: Sun Ringle racing components warrants to the original retail purchaser that all of its products are of the finest quality and are free from manufacturer defects for a period of one year from the date of original retail purchase (so like many items it is a good idea to keep your receipt just in case of a warranty claim). It is at the sole discretion of Sun Ringle racing components to repair or replace any one of its products during the above warranty period. ALL warranties are VOID if product is subject to abuse, crash, damage, neglect or lack of maintenance, improper installation, improper repair, alterations or use unintended by the manufacturer. This warranty is in lieu of all other agreements and warranties, general or special, express or implied and no representative or person is authorized to assume any liability on behalf of Sun Ringle racing components in connection with the sale or use of our products.

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