

BRIEF INSTRUCTION

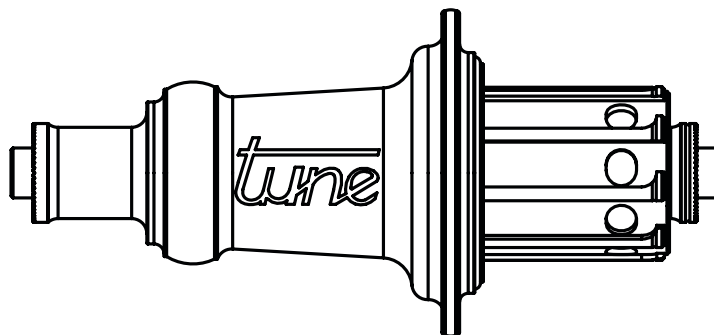
MAG 150 REAR HUB

The logo for the brand 'tune' is written in a white, lowercase, cursive font. It is positioned on a dark green background that features a stylized white silhouette of a tree on the left and a cluster of white evergreen trees on the right.

BORN IN THE BLACK FOREST BUILT TO ENJOY NATURE
As of Januar 2016

This brief instruction includes the most important informations about your Tune hub. A more detailed manual, including a graphic maintenance instruction can be found under www.tune.de/en/manual.

Number of holes	16, 20, 24 (12/12 or 16/8), 28, 32
Disc mount	none
Hub spacing	130 mm (Road); 135 mm (MTB)
Axle diameter	17 mm
Colours	black, silver, red, gold, blue, green, orange, froggy-green
Bearings	4 spezific Tune grooved ball bearings (1 x 61903, 2 x 61803, 1 x 61803 full complement)
Weight limit	none



Instructions

General:

- Before every ride, make sure that your tune product is in a good condition and functioning properly. If there seems to be any irregularities the product should not be used. Contact your retailer for help.
- The Quickrelease must be mounted properly.
- Never clean your Tune products directly with high water pressure (pressure cleaner) and do not use aggressive detergents.
- Only use tires that suit the rim, pay attention not to exceed the maximum tire pressure of the rim and tire.

Maintenance:

The hub should be maintained at least once a year. If used in extreme conditions (rain, mud, salted streets, transport in the rain) regularly the hub must be maintained more often. A regular service supports the technical condition, as well as the durability of the hub. You can maintain your Tune hub yourself, a detailed manual, including graphic instructions can be found online under <http://www.tune.de/en/manual>.

Freewheel body:

The freewheel body is made out of aluminium, due to that the sprockets of the cassette will leave indentations in the freewheel body splines. These indentations will cease after a short period of time. The aluminium gets compressed and further wear stops. Burrs should be removed with a file. The functionality of the hub is not impaired by the indentations.

Stuck cassette sprockets can be removed by using two chain whips.

The cassette lock ring shall be mounted with the torque given by the manufacturer.

The **Tune Edelzwicker** cassette lock ring can be purchased separately, it shall be mounted with a tension of max. 40 Nm.

Shimano/Sram 10-speed freewheel body

- The freewheel body width of the Shimano/Sram 10-speed freewheel body can only be used with Shimano/Sram 8-/9-/10-speed road cassettes and 8-/9-/10-/11-speed mtb cassettes.

Shimano/Sram 11-speed freewheel body

- The freewheel body-width of the Shimano/Sram 11-speed freewheel body is designed for Shimano/Sram 11-speed road cassettes. By using a 1,8mm spacer Shimano/Sram 8-/9-/10-speed road cassettes and 8-/9-/10-/11-speed mtb cassettes can be used as well.

Campagnolo freewheel body

- A Campagnolo lock ring with a 27x1 thread is needed (current Campagnolo standard).
- The Tune Edelzwicker cassette lock ring is also available for Campagnolo

Sram XD freewheel body

- Freewheel body for the Sram XD standard. Further informations upon fitting cassettes can be obtained from Sram.

Lacing:

The Tune MAG 150 hub must be laced with straight spokes on the left side and crossed spokes on the right side. It's allowed to tie the spoke crossings with carbon. The construction of twisted laced or tied and soldered spoked wheels is forbidden.



MAG 150:

The highest permitted spoke tension is **1100 N**.

Pitch circle diameter Ø (l / r)	28,4 mm / 55,5 mm
Distance hub flange to wheel centre line (l / r)	34,6 mm / 17,0 mm (130 mm hub spacing / road) 31,6 mm / 20,0 mm (135 mm hub spacing / MTB)
Spoke hole diameter Ø	2,4 mm

Service

Warranty:

Tune grants a two year warranty from the date of purchase on material defects and production errors. On bearings, rims and spokes we grant a one year Warranty, as these are wear parts. Claims can only be made if a copy of an original dealer invoice is presented.

There is no claim for warranty services in case of:

- normal wear
- improper use or careless treatment
- disregard of service instructions
- inappropriate repair, assembly, or maintenance works or negligence
- defects caused by wrong wheel building (spoke patterns, spoke crossings, spoke tension, etc.)

Warranty claims have to be sent to the local Tune distributor and are subject to the assessment of Tune. Based on this warranty, the company Tune is not liable for compensation, especially not for indirect damage caused by accidents, collateral damage and consequential damage. All anodized parts can bleach in sunlight.

Crash Replacement:

Tune offers a Crash Replacement in addition to the legal warranty. The service can be engaged if your Tune product is damaged and not be rideable any more, due to a crash, accident or overload .

Conditions:

- Due to our huge products variety, the discount we can give, is assessed individually for every case.
- The damaged part is replaced by the same model. Tune reserves the right to replace the damaged part with an equal alternative.
- The damage has to affect the functionality of the component (optical damage is excluded).
- Damaged parts pass into the ownership of Tune.
- The Crash Replacement offer does not cover the costs of transport and labour.

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Outside of Germany please contact your local distributor.



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