

WARNINGS:**GENERAL WARNING**

Please read before installation! When you ride beyond your limits, cycling can be dangerous. Take a good look at the trails before you shred them, and don't follow an idiot. You should read our instructions carefully before assembly. FAILURE TO FOLLOW these instructions before installing and using Ambit components can result in long, boring, unintentional bike-riding breaks, as well as serious injury or death.

WHEEL ASSEMBLY WARNING

Building bicycle wheels is both an art and a science, and should be performed by trained professionals. Special tools are required, such as a truing stand, spoke wrenches, as well as spoke tension gauges. Do not attempt to disassemble, reassemble or straighten (true) wheels without proper training and equipment.

This manual covers **Ambit Enduro Wheelsets** consisting of three main components:

- Ambit Realm Enduro Rims
- Ambit Realm Enduro Hubs
- SAPIM (or similar) premium spokes

RIM WARNING

This rim has been designed to meet international TLR (tubeless ready) standards, however, suitable rim tape needs to be applied to the rim after wheel building in order to complete the tubeless ready condition. Check with a dealer specialist to acquire suitable TLR rim tape.

WARRANTY

For complete warranty and registration information visit:
ambit-components.com/en/tech-support/service-warranty/

WHEELSETS ARE OFFERED IN MULTIPLE RIM DIAMETERS AND HUB OPTIONS. TECHNICAL DETAILS WILL VARY PER SPECIFICATION.

PRODUCT DESCRIPTION	AMBIT HUB	AXLE	SIZE	COLOR
Ambit Wheel, Enduro, Aluminum	Front Boost	15 x 110mm	29"	black or silver
Ambit Wheel, Enduro, Aluminum	Rear Boost, XD, 102 POE	12 x 148mm	29"	black or silver
Ambit Wheel, Enduro, Aluminum	Rear Boost, MS, 102 POE	12 x 148mm	29"	black or silver
Ambit Wheel, Enduro, Aluminum	Rear Boost, HG, 102 POE	12 x 148mm	29"	black or silver
Ambit Wheel, Enduro, Aluminum	Rear Boost, XD, 612 POE	12 x 148mm	29"	black or silver
Ambit Wheel, Enduro, Aluminum	Rear Boost, MS, 612 POE	12 x 148mm	29"	black or silver
Ambit Wheel, Enduro, Aluminum	Rear Boost, HG, 612 POE	12 x 148mm	29"	black or silver
Ambit Wheel, Enduro, Aluminum	Front Boost	15 x 110mm	27.5"	black or silver
Ambit Wheel, Enduro, Aluminum	Rear Boost, XD, 102 POE	12 x 148mm	27.5"	black or silver
Ambit Wheel, Enduro, Aluminum	Rear Boost, MS, 102 POE	12 x 148mm	27.5"	black or silver
Ambit Wheel, Enduro, Aluminum	Rear Boost, HG, 102 POE	12 x 148mm	27.5"	black or silver
Ambit Wheel, Enduro, Aluminum	Rear Boost, XD, 612 POE	12 x 148mm	27.5"	black or silver
Ambit Wheel, Enduro, Aluminum	Rear Boost, MS, 612 POE	12 x 148mm	27.5"	black or silver
Ambit Wheel, Enduro, Aluminum	Rear Boost, HG, 612 POE	12 x 148mm	27.5"	black or silver

WHEELSET FEATURES & BENEFITS

- System-developed Enduro wheelset.
- Front and rear-specific rim profiles.
- Wide rim flange to reduce snakebites
- Two engagement options: 102 or 612 points of engagement (POE) depending on riding style.
- Optimized hub flange angle for increased system stiffness and improved durability
- Spare parts available.

WHEELSET KEY SPECIFICATIONS

- Boost standard: 15x110 / 12x148 mm
- 6-bolt disc mount
- Shimano MicroSpline / SRAM XD / HG
- 27.5" / 29"
- 30mm internal width
- Spokes & nipples: Sapim
- Lacing: 3-cross

POINTS OF ENGAGEMENT (POE) EXPLAINED:**102 POE = 3.5°**

- Larger engagement segments
- Fewer simultaneous contact points
- Lower internal friction
- Slightly more tolerance
- More suspension freedom
- Ride character: Balanced, controlled, natural

612 POE = 0.6°

- Extremely fine engagement pattern
- Many simultaneous contact points
- Fastest possible engagement
- Very direct power transfer
- For maximum pedaling precision
- Ride character: Aggressive, immediate, race-focused

AMBIT REALM ALUMINUM ENDURO RIM ACR01

ARTICLE # AC23 005 RIM

RIDE INTENTION: CATEGORY 5 / ENDURO & DH

USAGE: FRONT SPECIFIC, REAR SPECIFIC (29" ONLY)

DIAMETERS AVAILABLE: 27.5, 29"

DRILLINGS AVAILABLE: 28H OR 32H

FINISH: BLACK ANODIZED OR POLISHED SILVER

TIRE COMPATIBILITY: TUBELESS READY (TLR)

IMPORTANT

Ambit flat double-concave-profile spoke nipple washers are a requirement for Ambit Realm Enduro aluminum rims and have been used for assembly. When having wheels serviced, only use Ambit flat double-concave-profile washers. Do not use traditional concave washers.

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WHEEL BUILDING & ADJUSTMENT

Building a bicycle wheel requires special training, tools and skill. Only a professional wheel builder should build a wheel with this rim. It is critical that proper spoke tension is maintained. If you are not qualified to perform the adjustments, or lacking proper tools, you should take the wheel to a qualified dealer specialist.

TECHNICAL DATA

Material:

AL6069 T6

Rim Depth:

Front: 18.5mm

Rear: 21.0mm

Rim Outer Width:

Front: 36.6mm

Rear: 37.6mm

Effective Rim Diameter (ERD):

27.5" Outer/Inner: 584/565mm

29" Outer/Inner: 559/530mm

Weights:

27.5 Front & Rear: 644g

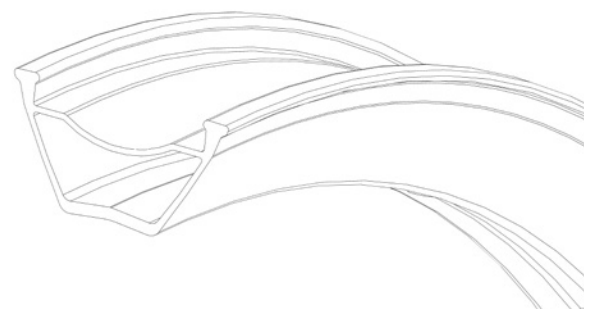
29" Front: 639g

29" Rear: 684g

Spokes & Nipples:

Rim drilling compatible with 14G or 15G spokes & nipples.

Brass material nipples are recommended for overall strength and longevity.



MAINTENANCE + TIPS

Before each ride, carefully check the wheel for trueness, spoke tension and for signs of damage. If service is required, you may need to visit a specialist dealer or send the component to Sport Import Service, Industriestrasse 39, 26188 Edewecht, Germany.

AMBIT REALM BOOST MTB HUBS AC049

SHAPE: EXCLUSIVE AMBIT DESIGN

MATERIAL: 7075 ALUMINUM SHELLS, AXLES & END CAPS

MECHANICS: PREMIUM QUALITY RATCHET + PAWL SYSTEM

OVERLOCKNUT DIMENSIONS: FRONT: 110MM; REAR:148MM

AXLE DIAMETERS: FRONT:15MM, REAR 12MM

SPOKE HOLE DRILLING: FRONT: 28H; REAR: 32H

PCD: FRONT: 44MM; REAR 58MM

SPOKE TYPE & GAUGE: J-BEND, 14G

DISC BRAKE INTERFACE: 6-BOLT

FINISH: BLACK ANODIZED W/LASER AMBIT LOGOS

FREEHUB OPTIONS: SRAM XD, SHIMANO MICROSPLINE, SHIMANO HG, 102 POE, 612 POE*

*POE = POINTS OF ENGAGEMENT



HUB ARTICLES

	NO.	AXLE / HOLES	COLOR
Hub Front Boost 28H	AC049	110 mm, 28H	black or silver
Hub Rear Boost 32H Shimano MS 102 POE	AC049	148 mm, 32H	black or silver
Hub Rear Boost 32H Shimano HG 102 POE	AC049	148 mm, 32H	black or silver
Hub Rear Boost 32H SRAM XD 102 POE	AC049	148 mm, 32H	black or silver
Hub Rear Boost 32H Shimano MS 612 POE	AC049	148 mm, 32H	black or silver
Hub Rear Boost 32H Shimano HG 612 POE	AC049	148 mm, 32H	black or silver
Hub Rear Boost 32H SRAM XD 612 POE	AC049	148 mm, 32H	black or silver

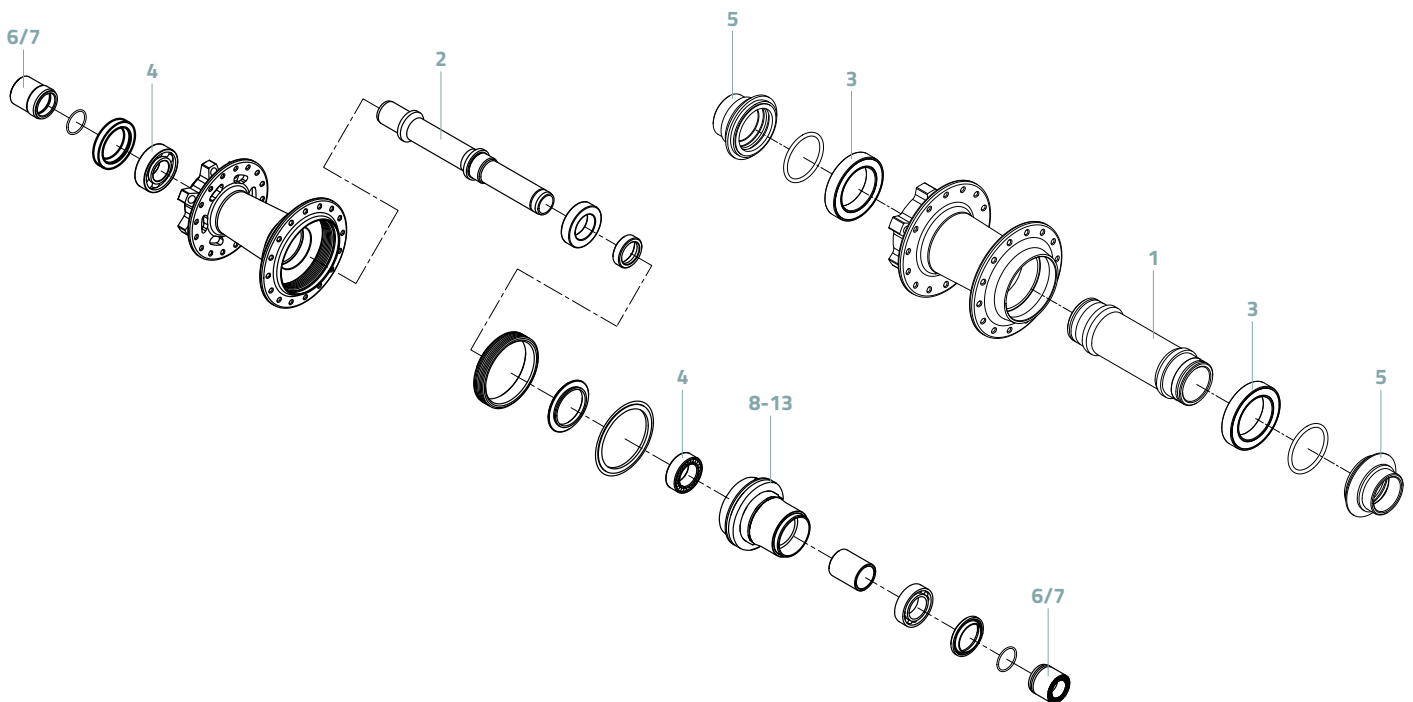
AMBIT REALM BOOST MTB HUBS AC049

PARTS LIST

- | | | |
|----|--------------------|---|
| 1 | P7060010 00 | Ambit Boost Hub Front Axle |
| 2 | P7060010 01 | Ambit Boost Hub Rear Axle |
| 3 | P7060010 04 | Ambit Boost Hub Front Bearings, Pair |
| 4 | P7060010 05 | Ambit Boost Hub Rear Bearings, Pair |
| 5 | P7060010 08 | Ambit Boost Hub Front End Caps & O-Ring; 2 x 15 mm, 2 x 20 mm, 1 set of 4 |
| 6 | P7060010 09 | Ambit Boost Hub Rear End Caps SRAM XD & HG, Pair |
| 7 | P7060010 10 | Ambit Boost Hub Rear Caps Shimano MS, Pair |
| 8 | P7060010 12 | Ambit Boost Freehub Body 102 POE, Shimano MS |
| 9 | P7060010 13 | Ambit Boost Freehub Body 102 POE, SRAM XD |
| 10 | P7060010 14 | Ambit Boost Freehub Body 612 POE, Shimano MS |
| 11 | P7060010 15 | Ambit Boost Freehub Body 612 POE, SRAM XD |
| 12 | P7060010 16 | Ambit Boost Freehub Body 102 POE, Shimano HG |
| 13 | P7060010 17 | Ambit Boost Freehub Body 612 POE, Shimano HG |

MAINTENANCE + TIPS

Hub bearings are sealed and should not require frequent regular maintenance. However, it is important that hubs are kept clean and away from water. Before each ride, wipe down the sides of the hub, near the axles, to remove mud, dirt and moisture that may have accumulated. Do not use a pressure washer to clean your hubs. Highly pressurized water can penetrate sealed bearings and remove grease, leading to corrosion and premature wear. At 3000 kilometer intervals, Ambit recommends that a hub overhaul service be performed by professional bicycle mechanic. During the overhaul, sealed bearings should be completely cleaned and regreased. If bearings, axles, end caps, or freehub bodies are found to have significant wear or damage, replacement parts are available. When service is required, visit a specialist dealer or send the component to Sport Import Service, Industriestrasse 39, 26188 Edewecht, Germany.



SAPIM SPOKES

SAPIM is industry leader, known for its exceptional durability. Crafted from high-tensile, fatigue-resistant steel, SAPIM spokes adhere to rigorous quality standards. Depending on supply chain availability, spokes may be substituted with another brand of equal quality.

ADDITIONAL INFORMATION: Can be found online at ambit-components.com