



RAAW MADONNA V2 USER MANUAL

V2.2 – 02.2020

WWW.RAAWMTB.COM

CONTENTS

Madonna general information
Technical specifications
Cable routing
Compatibility of components
Torque settings
Cleaning
Warranty
Crash replacement
Contact

MADONNA GENERAL INFORMATION

The RAAW Madonna is an enduro mountain bike designed to ride up and down mountains. It is a product that needs to be built up carefully by a professional mechanic, with components that fit according to the technical specifications. The bike needs to be maintained and checked on a regular basis to avoid damage or uncommon wear. All components need to be taken care of, as described in the manufacturers manual. The RAAW Madonna can be used for all kinds of trails including bikepark riding, but the owner is always fully responsible for his or her riding.

TECHNICAL SPECIFICATIONS

Travel front/ back	170 mm (180) / 160 mm
Wheel size	29" (740-755 mm)
Max tire width	2.6" (66 mm)
Tire clearance	84 mm
Rear hub	148*12
Shifting	One-by only, boost, 36t max
BB	73mm BSA / ISCG05
Brake	203mm Postmount
Seat tube diameter	31.6 mm inside, 35 mm outside
Internal seatpost routing	Yes
Shock remote routing	Yes
Seatpost max insert	S 225 mm / M 240 mm / L 275 mm / XL 275 mm
Headset	44 / 56 Zero stack
Cable routing	All external
Tire to seat tube clearance	10 – 18 mm (depending on size and tire)
Shock hardware	Ball bearings and hardware included
Bearings main pivot	2x 61808-2RS1 (52*40*7)
Bearings other pivots	10x 91903-2RS1 (28*15*7)
Recommended fork dimensions	ATC 577.1 mm – Rake 44 mm
Shock dimensions	205 x 60 or 205 x 65 – Trunnion
Weight	3.6kg (incl. all hardware, w/o shock, size S)
Material	AL 6066 T6

CABLE ROUTING

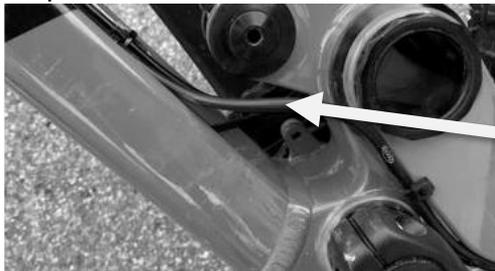
The cable routing is fully external, which makes it a dream for the assembly of the brake, seat post and derailleur. Here is an overview of the advised routing:



- ← Seat post cable
- ← Brake hose
- ← Gear cable

With a different configuration on the handlebars, the position of the cables on the front of the downtube can be changed.

Make sure the cables are not twisted to avoid them rubbing the frame. The hose of the brake and the cable of the derailleur need a little s-bend above the BB as picture below. This is important for the movement of the rear suspension. We recommend to assemble the cables without the shock mounted, to be able to verify the free movement of the suspension.



Check free movement of the brake hose and gear cable during assembly at fully compressed suspension.

COMPATIBILITY OF COMPONENTS

The components chosen to build up the frame need to fit according to the technical specifications.

Most shocks of other manufacturers than Fox will fit the Madonna. However, we do not guaranty that all shock with large and wide piggy-bags will fit, especially size small and medium.

TORQUE SETTINGS

All frame bolts including the brake mount bolts need to be tightened to 12 nm. The main pivot nut needs to be tightened to 50 nm. Make sure to use a thread-locker in medium strength for the brake mount bolts. All frame bolts should be assembled with grease on the thread and contact surfaces.

CLEANING

The bike needs to be maintained and checked on a regular basis to avoid damage or uncommon wear. All components need to be taken care of, as described in the manufacturers manual. Cleaning should be done with water, mild soap and a brush. The Madonna has a fully sealed pivot design, but it is still recommendable to avoid pressure washing.

WARRANTY

Our frames are produced by one of the world's best companies, Genio Bikes, who are based in Taiwan. The frames are tested to ISO standards and additional in-house standards. We guarantee the highest quality and provide a warranty service for two years. The warranty covers manufacturing and material failure. Damage caused by a crash or wear is not covered by the warranty.

If you have any questions or issues, please contact us: ruben@raawmtb.com

CRASH REPLACEMENT

Bad things can happen and crashes are a part of our sport. If you happen to damage your Madonna frame, we offer a crash replacement program over a period of five years. Our crash replacement program is an additional program we offer to support you when things don't go your way. The crash replacement is valid on frames that are damaged up to the point where it becomes a threat to your safety. It is upon us to judge if this is the case or not. Intentionally caused damage is excluded from our policy.

If you have a damaged frame and would like to use our crash replacement program, please send us good quality photos and a description of the incident causing the damage. We also need the original invoice, but you don't need to be the first owner.

If your case is within our policy we will send you an offer that roughly translates in a -35% discount on the part of the frame that is damaged. This way you will only have to replace the damaged parts. The damaged frame has to be send back to us.

We have stock of frames and hardware for warranty and crash replacement, but we keep the right to offer the best alternative if a certain model, color or size is not available.

If you have any questions or issues, please contact us: ruben@raawmtb.com

CONTACT

RAAW Mountain Bikes GmbH
Albert-Einstein-Str. 5
87437 Kempten, Germany

Phone: +49 (0)83152615898
Email: ruben@raawmtb.com