RampAir – User Manual & Safety Instructions

Compatible with suspension forks from RockShox®, Fox®, Marzocchi®, SR Suntour® and DVO®

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1. General Information

This original user manual is intended for riders and operators of the RampAir products described herein. The original manual is written in German.
All other language versions are pure translations and are not valid without the German edition.

This original user manual applies to the following RampAir models:

- RockShox ZEB from 2021 - 2026
- RockShox Domain from 2022
- RockShox Lyrik from 2016 - 2026
- RockShox Pike from 2018
- RockShox Yari ab 2016
- RockShox SiD 35mm from 2024
- RockShox Boxxer 35mm 2019 - 2023
- RockShox Boxxer 38mm from 2024
- Fox 34
- Fox 36
- Fox 38
- Fox 40
- Marzocchi Z1 ab 2019
- Marzocchi Bomber 58
- Marzocchi Super Z
- SR Suntour Rux
- SR Suntour Durolux
- DVO Onyx 38

1.1 Manufacturer

Ramp Air GmbH
Äpfelberg 38
5231 Schalchen
Österreich

1.2 Scope of delivery

1 RampAir Unit

1.3 Product description

RampAir is an innovative air-spring tuning system that enhances your suspension fork through a dynamic dual-chamber design. It delivers a sensitive initial response, improved mid-stroke support, and controlled end-progression – all without tokens or spacers. The dual-positive air-chamber design provides the ideal spring curve throughout the entire travel. It mimics the linear feel of a coil spring while retaining the adjustability of an air spring – a true game changer for modern suspension forks.

⚠️ This product is intended exclusively for use on suitable MTB suspension forks. Improper use may lead to malfunction.

1.4 Important 2 Know

This manual contains important information for the safe operation and maintenance of your RampAir unit. Take the time to read this manual carefully before your first ride. It will inform you of risks and hazards that may arise from improper handling of your RampAir system.

This manual does not replace the expertise of a professional bicycle mechanic. We recommend having all maintenance and service work carried out by a qualified dealer. It is important to follow the information provided to ensure safe and proper operation of your RampAir unit and to maintain the longevity of your bicycle.

If you have further questions or require additional information, please contact your dealer or reach out to us at info@rampair.bike.

2. Safety instructions

⚠ **Danger to life due to improper installation!**
Please read this manual completely before beginning installation.
Use RampAir only if you have the required technical expertise – otherwise, we strongly recommend installation by a qualified workshop.

Be sure to observe the following:

- **Before installation:** Fully release all air from the suspension fork
- Always wear safety glasses and protective gloves
- Never work on components under pressure
- Do not modify, alter, or open the product
- Do not exceed the maximum pressure (see Section 5)
- Never ride without valve caps
- After installation: Check for frame clearance (e.g., downtube)

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3. Product description & functionality

RampAir adds a second positive chamber to your fork's main air chamber, separated by a movable piston. The deeper the fork compresses, the more the second chamber becomes "activated" — providing a linear, rider-specific adjustable spring curve.

Advantages:

- Sensitive off-the-top response
- Significantly increased mid-stroke support
- Smooth end-progression during hard impacts
- Individual pressure tuning without spacers/tokens

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4. Installation instructions

❗ **Only perform this procedure if you have the necessary technical knowledge, workshop experience, and suitable tools. Otherwise, have the installation carried out by a qualified bicycle workshop.**

Step-by-step instructions
(A detailed version can be found at www.rampair.bike)

- **Check and note your current standard air pressure**
- **Release pressure:** Fully release all air from the main chamber!
- **Remove the TopCap:** Disassemble according to the fork manufacturer's instructions
  (may require loosening the crown on dual-crown forks)
- **Remove valve covers:** Unscrew both RampAir valve caps
- **Apply grease:** Use suitable sealing grease on O-rings and threads
  (R.S.P. Slick Kick, Slick Honey, SRAM Butter, or similar)

- **Carefully thread in RampAir:** 2–3 turns by hand, smooth engagement

- **Tighten with a torque wrench:**
  Torque according to manufacturer specifications, e.g.:
  • Fox/Marzocchi: 24.8 Nm
  • RockShox Boxxer: 7.3 Nm
  • RockShox Single Crown forks: 28 Nm

- **Align the valve head** (for versions with a rotatable valve head):
  Using a 24 mm open-end wrench, clockwise

- **Calculate pressures:**
  Use the calculator at www.rampair.bike or proceed as follows:
  • **New main chamber pressure:** 85% of your previously noted standard pressure
  • **RampAir pressure:** 1.6× the new main chamber pressure

- **Fill the RampAir chamber (++):**
  With 1.6× the new calculated main pressure
  (max. **200 psi** for Single Crown versions;
  if the main chamber is empty: max. **170 psi**)

- **Fill the main chamber (+):**
  Approx. 85% of your previous standard pressure

- **Fine-tune main chamber:**
  Set SAG to **20–28%**, note the final pressure

- **Fine-tune RampAir:**
  Pressure × RampAir factor — depending on fork model
  (recommendations see table)
  If the pressures you require exceed the maximum values specified, contact our support.

- **Fine-tune damping:**
  Depending on terrain and riding style, you may need to run slightly softer compression and a slightly faster rebound.

- **Install valve caps**

- **Before your first ride:**
  Re-check steering clearance to avoid contact between the valves and your frame (e.g., downtube).

- **Test ride & have fun!**

⚠️ **Do not use a RampAir unit designed for a different travel length. This can lead to severe damage or injury.**

Pressure ratios (guidelines):

Model	Ratio
Pike 2020–22	1,7–2,1
Lyrik/Yari from 2023	1,5–1,9
ZEB from 2023	1,6–1,9
Fox 36 from 2022	1,5–2,1
More on our Website	

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5. Technical specifications

- **Max. RampAir pressure (Single Crown version):** 200 psi
- **Max. RampAir pressure (Double Crown version):** 400 psi
- **Max. pressure difference (RampAir chamber vs. main chamber):** 170 psi
- **Compatibility:** RockShox, Marzocchi, DVO, SR Suntour & Fox suspension forks (see www.rampair.bike)
- **Material:** CNC-machined, anodized aluminum
- **Weight:** approx. 75 g

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6. Maintenancen & service

- Visual inspection every 50 h (or once per season)
- Full service every 100–150 h (including lubrication)
- Use only acid-free lubricants and original seals
- Do not use high-pressure washers

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7. Legal information / Warranty

Modifications or alterations will void the warranty.
No liability is accepted for improper installation or use.
RampAir is a tuning product and does not require CE certification.
Warranty: 2 years with proper use
Support: info@rampair.bike

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8. Troubleshooting

Issue: Clicking noise during rebound

Cause:
Under certain pressure conditions and/or with a fast rebound setting, the RampAir piston may hit the retaining ring, causing a clicking noise.

Solution:
Release the air from both chambers. Then remove the RampAir unit and take out the retaining ring using retaining ring pliers.

Push the floating piston slightly into the RampAir unit and apply a small amount of stable grease, such as RockShox Dynamic Seal Grease or Öhlins silicone grease, between the piston and the retaining ring seat.

Reinstall the retaining ring, making sure that the wider side of the ring is facing the piston.

Finally, reinstall the RampAir unit into the fork and refill both the RampAir unit and the fork with the desired air pressure, starting with the RampAir chamber (++).

Issue: Air loss at the valve cores

Cause:
Occasionally, valve cores can loosen slightly, for example if a shock pump is threaded on too tightly.

Solution:
Carefully tighten the valve core using a suitable tool, such as a valve core remover.

✅ **Final step: RIDE ON!**
Whether Enduro, Trail, DH or Bike Park — RampAir gives your fork more control, more feel, and more fun.

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