

MegNeg Air Can 2020



UPGRADE MANUAL

SRAM® LLC WARRANTY

EXTENT OF LIMITED WARRANTY

Except as otherwise set forth herein, SRAM warrants its products to be free from defects in materials or workmanship for a period of two years after original purchase. This warranty only applies to the original owner and is not transferable. Claims under this warranty must be made through the retailer where the bicycle or the SRAM component was purchased. Original proof of purchase is required. **Except as described herein, SRAM makes no other warranties, guaranties, or representations of any type (express or implied), and all warranties (including any implied warranties of reasonable care, merchantability, or fitness for a particular purpose) are hereby disclaimed.**

LOCAL LAW

This warranty statement gives the customer specific legal rights. The customer may also have other rights which vary from state to state (USA), from province to province (Canada), and from country to country elsewhere in the world.

To the extent that this warranty statement is inconsistent with the local law, this warranty shall be deemed modified to be consistent with such law, under such local law, certain disclaimers and limitations of this warranty statement may apply to the customer. For example, some states in the United States of America, as well as some governments outside of the United States (including provinces in Canada) may:

- a. Preclude the disclaimers and limitations of this warranty statement from limiting the statutory rights of the consumer (e.g. United Kingdom).
- b. Otherwise restrict the ability of a manufacturer to enforce such disclaimers or limitations.

For Australian customers:

This SRAM limited warranty is provided in Australia by SRAM LLC, 1000 W. Fulton Market, 4th Floor, Chicago, IL, 60607, USA. To make a warranty claim please contact the retailer from whom you purchased this SRAM product. Alternatively, you may make a claim by contacting SRAM Australia, 6 Marco Court, Rowville 3178, Australia. For valid claims SRAM will, at its option, either repair or replace your SRAM product. Any expenses incurred in making the warranty claim are your responsibility. The benefits given by this warranty are additional to other rights and remedies that you may have under laws relating to our products. Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

LIMITATIONS OF LIABILITY

To the extent allowed by local law, except for the obligations specifically set forth in this warranty statement, in no event shall SRAM or its third party suppliers be liable for direct, indirect, special, incidental, or consequential damages.

LIMITATIONS OF WARRANTY

This warranty does not apply to products that have been incorrectly installed and/or adjusted according to the respective SRAM user manual. The SRAM user manuals can be found online at sram.com, rockshox.com, avidbike.com, truvatv.com, or zipp.com.

This warranty does not apply to damage to the product caused by a crash, impact, abuse of the product, non-compliance with manufacturers specifications of usage or any other circumstances in which the product has been subjected to forces or loads beyond its design.

This warranty does not apply when the product has been modified, including, but not limited to any attempt to open or repair any electronic and electronic related components, including the motor, controller, battery packs, wiring harnesses, switches, and chargers.

This warranty does not apply when the serial number or production code has been deliberately altered, defaced or removed.

This warranty does not apply to normal wear and tear. Wear and tear parts are subject to damage as a result of normal use, failure to service according to SRAM recommendations and/or riding or installation in conditions or applications other than recommended.

Wear and tear parts are identified as:

- Dust seals
- Bushings
- Air sealing o-rings
- Glide rings
- Rubber moving parts
- Foam rings
- Rear shock mounting hardware and main seals
- Upper tubes (stanchions)
- Stripped threads/bolts (aluminium, titanium, magnesium or steel)
- Brake sleeves
- Brake pads
- Chains
- Sprockets
- Cassettes
- Shifter and brake cables (inner and outer)
- Handlebar grips
- Shifter grips
- Jockey wheels
- Disc brake rotors
- Wheel braking surfaces
- Bottomout pads
- Bearings
- Bearing races
- Pawls
- Transmission gears
- Spokes
- Free hubs
- Aero bar pads
- Corrosion
- Tools
- Motors
- Batteries

Notwithstanding anything else set forth herein, the battery pack and charger warranty does not include damage from power surges, use of improper charger, improper maintenance, or such other misuse.

This warranty shall not cover damages caused by the use of parts of different manufacturers.

This warranty shall not cover damages caused by the use of parts that are not compatible, suitable and/or authorised by SRAM for use with SRAM components.

This warranty shall not cover damages resulting from commercial (rental) use.



SAFETY FIRST!

We care about YOU. Please, always wear your safety glasses and protective gloves when servicing RockShox® products.

Protect yourself! Wear your safety gear!

TABLE OF CONTENTS

ROCKSHOX® SERVICE	5
PART PREPARATION	5
SERVICE PROCEDURES.....	5
PARTS, TOOLS, AND SUPPLIES	6
COMPATIBILITY	7
BENEFITS.....	7
STANDARD AIR CAN REMOVAL	8
MEGNEG AIR CAN INSTALLATION	11
OUTER SLEEVE INSTALLATION	13
SETUP	15

RockShox® Service

We recommend that you have your RockShox suspension serviced by a qualified bicycle mechanic. Servicing RockShox suspension requires knowledge of suspension components, as well as the use of specialized tools and lubricants/fluids. Failure to follow the procedures outlined in this service manual may cause damage to your component and void the warranty.

Visit www.sram.com/service for the latest RockShox Spare Parts catalog and technical information. For order information, please contact your local SRAM® distributor or dealer.

Information contained in this publication is subject to change at any time without prior notice.

Your product's appearance may differ from the pictures contained in this publication.



For recycling and environmental compliance information, please visit www.sram.com/company/environment.

Part Preparation

Disconnect and remove the remote cable from your rear shock, if applicable. For additional information about RockShox remotes, user manuals are available at www.sram.com/service.

Remove the shock from your bike. Remove end caps and bushings from the eyelets.

Clean the exterior of the product with mild soap and water to avoid contamination of internal sealing part surfaces.

Service Procedures

The following procedures should be performed throughout service, unless otherwise specified.

Clean the part with RockShox Suspension cleaner or isopropyl alcohol and a clean, lint-free shop towel.

Clean the sealing surface on the part and inspect it for scratches.



Replace the o-ring or seal with a new one from the service kit. Use your fingers or a pick to pierce and remove the old seal or o-ring.

Apply grease to the new seal or o-ring.



NOTICE

Do not scratch any sealing surfaces when servicing the product. Scratches can cause leaks. Consult the spare parts catalog to replace the damaged part.

Use aluminum soft jaws when placing a part in a bench vise.

Tighten the part with a torque wrench to the torque value listed in the red bar. When using a crowfoot socket and torque wrench, install the crowfoot socket at 90 degrees to the torque wrench.



Parts, Tools, and Supplies

Parts

- MegNeg air can 550, 650, or 750 kit

Safety and Protection Supplies

- Apron
- Clean, lint-free rags
- Nitrile gloves
- Oil pan
- Safety glasses

Lubricants and Fluids

- Isopropyl alcohol
- Maxima Extra™ 15w50
- RockShox® Dynamic Seal Grease

RockShox Tools

- RockShox 1/2" x 1/2" rear shock bushing removal/installation tool
- RockShox shock pump

Common Tools

- Bench vise with aluminum soft jaws
- Crowfoot wrench: 13 mm
- Hex wrenches: 2 mm
- Pick
- Schrader valve tool
- Socket wrench
- Strap wrench
- Torque wrench

SAFETY INSTRUCTIONS

Always wear safety glasses and nitrile gloves when working with suspension oil.

Place an oil pan on the floor underneath the area where you will be working on the shock or suspension fork.

Compatibility

NOTICE

The MegNeg air can is compatible with RockShox® Deluxe™ and Super Deluxe™ shocks with a stroke between 47.5-75 mm. The stroke size is printed on the bottom of the damper.

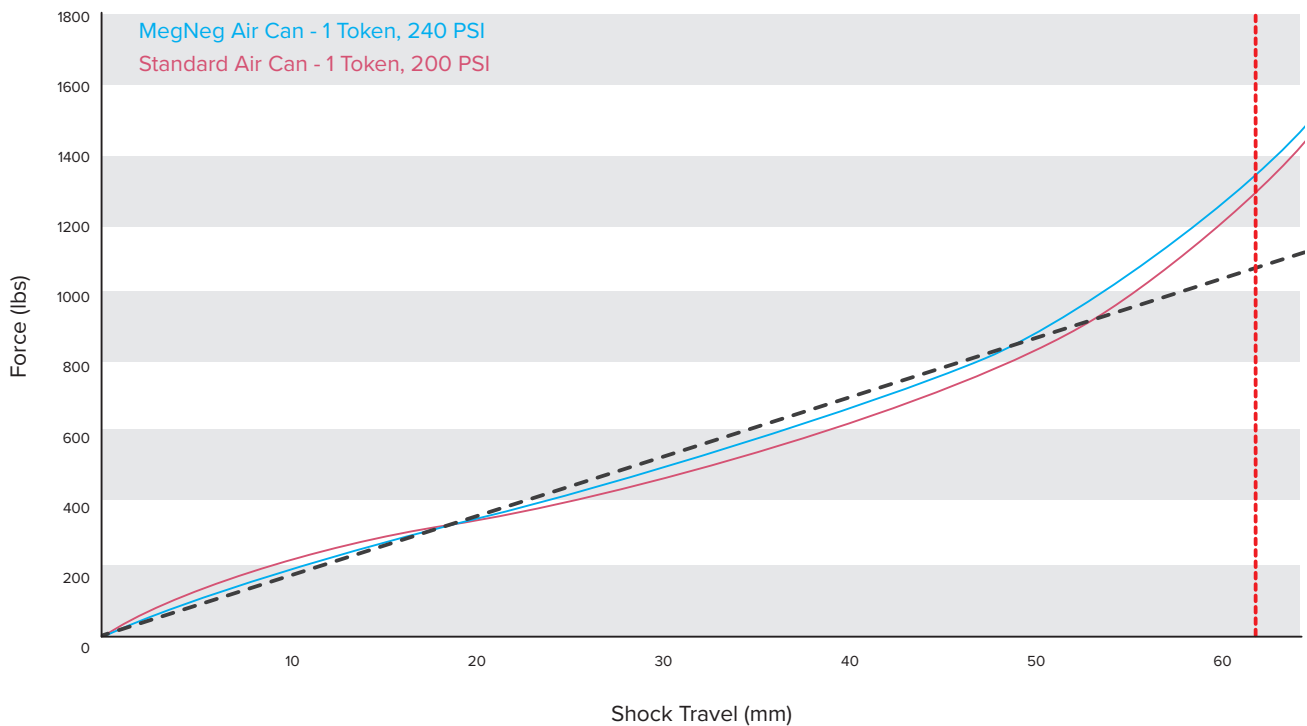
The MegNeg air can will increase your air pressure by about 20%. Add 20% to your current air pressure value, and verify that the new value does not exceed the maximum rated pressure printed on your shock eyelet.

Stroke (mm)	MegNeg kit
47.5-55	550 kit
57.5-65	650 kit
67.5-75	750 kit



Benefits

The MegNeg air can provides better small bump compliance, more support in the middle of travel, and is harder to bottom out than the standard air can. Adding the MegNeg air can allows you to play around with your suspension, tuning the positive and negative springs. Generally, these customizations are good for smart, fast, and aggressive riders like you.



Standard Air Can Removal

- 1 Record your air pressure setting to assist with post-service set up.
Remove the air valve cap. Use a small hex wrench to lightly depress the Schrader valve and slowly release all air pressure from the air can.

CAUTION - EYE HAZARD

Do not disassemble a pressurized shock, this can cause suspension oil or debris to forcefully eject from the shock. Wear safety glasses.

Slowly release the air from the air can to make sure the air is removed from both chambers. Quickly releasing the air can trap air in the negative chamber and cause the air can to forcefully eject from the shock upon disassembly.

Use a Schrader valve core tool to remove and reinstall the valve core from the valve body to make sure all air has been removed.



- 2 Clamp the shaft eyelet into a vise, with the shock positioned horizontally.



- 3 Remove the sag indicator.



- 4 Insert a shop towel through the damper body eyelet to prevent the air can from forcefully ejecting from the shock.

⚠ CAUTION- EYE HAZARD

The air can may still have air pressure in the negative chamber, which may cause the air can to forcefully eject from the shock upon disassembly. Wear safety glasses.



- 5 Use a strap wrench to remove the air can. Wrap the strap around the section of the air can furthest from the shaft eyelet. Turn the wrench counter-clockwise to unthread the air can.

NOTICE

Do not place the strap wrench on the air can decal.

Once it is completely unthreaded, slowly pull the air can along the damper body to remove it.

Remove the shop towel from the damper body eyelet.

Vacuum pressure will increase as you pull the air can along the damper body, and will suddenly release when the air can is pulled over the air piston.



- 6 Remove the Counter Measure™.



- 7 Remove 1-2 tokens from the positive chamber of your shock. The RockShox® MegNeg air can produces more force near bottom out.

NOTICE

If you do not remove any tokens from the positive chamber, then full travel may be difficult to achieve.

Token Removal: Clamp the shaft eyelet into the vise. Move the bottom out washer and o-ring away from the shaft eyelet. Use a pick to separate the token from the other tokens or the shaft eyelet, then remove the token from the shaft.

NOTICE

Do not scratch the damper shaft, shaft eyelet, or the eyelet o-ring. Scratches can cause leaks.



8 Clean the damper body.

Pro Tip: Since the air can is removed, this is a great time to give your shock a 50 hour service. Consult www.sram.com/service for the Super Deluxe™ or Deluxe™ service manual for 50 hour service instructions.



MegNeg Air Can Installation

- 1 Remove the shock from the vise, turn it over and clamp the damper body eyelet in the soft jaws. Install the Counter Measure™ onto the damper body. Apply grease to the seal head/air piston seals.



- 2 Apply a thin layer of grease to the quad seal, backup ring, and wiper seal.



- 3 Inject 1 mL of Maxima Extra™ 15w50, or half a pillow pack, along the internal wall of the threaded side of the air can before installing the air can onto the damper.

Firmly press the air can over the damper body until the sealhead/air piston is inserted into the air can.

⚠ CAUTION- EYE HAZARD

Oil will eject out of the openings as you install the air can onto the damper. Wear safety glasses.



- 4 Inject another 1 mL of Maxima Extra 15w50, or the rest of the pillow pack, into the air can.



- 5** Firmly press the air can onto the damper then thread it onto the shaft eyelet until it is hand tight.
Clean the air can.



- 6** Remove the shock from the vise. Turn it over and clamp the damper body eyelet in the vise.
Stabilize the air can with a strap wrench to prevent it from rotating.
Tighten the air can.



Outer Sleeve Installation

The RockShox® MegNeg air can ships with an outer sleeve and DebonAir™ bands for negative air tuning. Add bands for less negative volume, less air pressure, and less air ramp. Use the table for negative volume percentages.

NOTICE

The outer sleeve must be installed for the rear shock to perform properly. Whether or not you install any bands, the outer sleeve must be installed onto the rear shock.

Air Can Tuning	Negative Volume (%)
Standard Air Can	100
MegNeg with 0 bands	211
MegNeg with 1 band	199
MegNeg with 2 bands	188
MegNeg with 3 bands	176
MegNeg with 4 bands	164

- 1 Install up to 4 bands onto the MegNeg air can. Slide the bands up the can toward the eyelet. If you are not sure how many to install, start with two bands.

NOTICE

Make sure the bands are flush and flat. Do not cover the holes on the air can.



- 2 Apply grease and install the two small o-rings to the grooves on the air can.



- 3** Apply grease to the inner diameter of the outer air sleeve. Install the outer air sleeve onto the air can with the bump on the outer diameter of the outer sleeve oriented away from the eyelet.

Slowly twist the sleeve as you slide it on to prevent damage to the o-rings.



- 4** Slide the outer sleeve until it stops. Install the large o-ring in the remaining groove.



- 5** Install the sag indicator o-ring.



Setup

- 1 Reinstall the mounting hardware. Reinstall the shock to your bicycle frame according to the bicycle manufacturer's instructions.

Clean the shock and dry it with a shop towel.



- 2 Use a shock pump to pressurize the shock to the recorded air pressure plus 20%. After adding air to the shock, the pressure will need to be equalized between the shock chambers.

Record the air pressure value on the pump, then unthread it from the shock. Slowly but firmly press or sit on the saddle to compress the shock until there is a hissing sound. This sound indicates air transfer between chambers.

Reinstall the pump and pressurize the shock to the desired air pressure. Record the air pressure, then unthread it from the shock. Repeat this process until you reach the desired amount of sag, then install the valve cap.

NOTICE

When pressurizing the shock, do not exceed maximum pressure rating.

The pump must be removed from the shock prior to checking sag to avoid damage to the pump.



Shock Pump

- 3 Apply the decals from the kit so they are facing the desired direction, according to the orientation of the shock on your bike.



This concludes the RockShox® MegNeg air can installation. For video and service manuals, please visit www.sram.com/service. Time to shred on your newly tuned shock!

This publication includes trademarks and registered trademarks of the following companies:

Maxima Extra™ 15w 50 is a registered trademark of Maxima Racing Oils®

ASIAN HEADQUARTERS

SRAM Taiwan
No. 1598-8 Chung Shan Road
Shen Kang Hsiang, Taichung City
Taiwan R.O.C.

WORLD HEADQUARTERS

SRAM LLC
1000 W. Fulton Market, 4th Floor
Chicago, Illinois 60607
U.S.A.

EUROPEAN HEADQUARTERS

SRAM Europe
Paasbosweg 14-16
3862ZS Nijkerk
The Netherlands