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

Preclude the disclaimers and limitations of this warranty statement from limiting the statutory rights of the consumer (e.g. United Kingdom).

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 local 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, truvativ.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 (aluminum, 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!
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RockShox® Damper Upgrade Kit Installation

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](http://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](http://www.sram.com/company/environment).

### Part Preparation

Remove the component from the bicycle before service.

Disconnect and remove the remote cable from the fork, if applicable. For additional information about RockShox remotes, user manuals are available at [www.sram.com/service](http://www.sram.com/service).

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. For hard to reach places (e.g. upper tube, lower leg), wrap a clean, lint-free shop towel rag around a non-metallic dowel to clean the inside.

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

Damper top caps and upper tube thread pitches may vary; consult the chart to verify compatibility before damper upgrade installation. Installation of an incompatible damper top cap will damage the upper tube and damper top cap threads. If you are unsure what model year or generation you have, contact your local SRAM® distributor or dealer.

### 32 mm Chassis

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<th>Model Year</th>
<th>Generation</th>
<th>Max Travel (mm)</th>
<th>Wheel Size (in)</th>
<th>Compression Adj.</th>
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**Parts, Tools, and Supplies**

**Parts**
- CHARGER 2 DAMPER™ RLC Remote 120 max travel
- CHARGER 2 DAMPER RLC Crown 120 max travel
- CHARGER 2 DAMPER RCT Remote
- CHARGER 2 DAMPER RCT3 Crown
- CHARGER 2 DAMPER RC2 Crown
- CHARGER 2 DAMPER RC2 Crown BoXXer®

**Safety and Protection Supplies**
- Apron
- Clean, lint-free shop towels
- Nitrile gloves
- Oil pan
- Safety glasses

**Lubricants and Fluids**
- SRAM® Butter grease
- RockShox® Suspension Cleaner or isopropyl alcohol
- RockShox 0w-30 Suspension Oil (PIKE®/Revelation™/Lyrik™/Yari™/BoXXer)
- RockShox 15wt Suspension Oil (SID®/Reba®/Bluto®)

**Bicycle Tools**
- Bicycle work stand
- Shock pump

**Common Tools**
- Cassette lockring tool or RockShox Top Cap/Cassette Tool (3/8"/24 mm)
- Hex bit sockets: 2 mm, 2.5 mm, 5 mm
- Hex wrenches: 1.5 mm, 2 mm, 2.5 mm, 4 mm, 5 mm
- Internal retaining ring pliers
- Long plastic or wooden dowel
- Open end wrench: 10 mm, 24 mm (XLoc™)
- Pick
- Rubber or plastic mallet
- Socket wrench: 6 mm, 24 mm, 30 mm
- 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 fork.
Lower Leg Removal

The procedure for removing the lower leg is similar across RockShox® front suspension forks. Your fork's knobs, bolts, and chassis may appear different from the pictures. Consult your fork’s service manual for more detailed instructions.

1. Loosen the rebound adjuster knob screw, if present.

Remove the rebound adjuster knob.

2. Place an oil pan beneath the fork to catch the draining oil.
Loosen both bottom bolts 3 to 4 turns.

BoXXer®: Loosen the damper side bottom bolt 3 to 4 turns.
Strike each bottom bolt to dislodge the shafts from the lower leg on each side. The bolt head should contact the bottom of the lower leg.

2019+ BoXXer®: Strike the damper side bottom bolt to dislodge the shaft from the lower leg. The upper tube does not need to be removed from the lower leg to remove the Charger Damper™ RC. Continue with BoXXer Damper RC Removal.

Hollow Bottom Lower Leg: Insert a 5 mm hex wrench into the bolt head and strike the wrench. Remove each bottom bolt. Clean each bolt and set them aside.

Firmly pull the lower leg downward until fluid begins to drain. Continue pulling downward to remove the lower leg. If the lower leg does not slide off of the upper tube or if oil does not drain from either side, the press fit of the shaft(s) into the lower leg may still be engaged. Reinstall the bottom bolts 2 to 3 turns and repeat the previous step.

NOTICE
Do not strike the fork arch with any tool when removing the lower leg as this could damage the lower leg.
Clean the inside and outside of the lower leg. Clean the wiper seals. Set the lower leg aside.

SID®/Reba®/Bluto™ Continue with Motion Control or Charger 2 Damper Removal.

PIKE®/Revelation™/Lyrik™/Yari™ Continue with Motion Control, Charger Damper, or Charger 2 Damper Removal.
The procedure for removing the damper is similar across RockShox® front suspension forks. Your fork's knobs, bolts, and damper may appear different from the pictures. Consult your fork’s service manual for more detailed instructions.

1 **Crown**: Rotate the adjuster knob to the open position.

2 **Crown**: Remove the retention screw, nut (some models), and compression adjuster knob(s).
3 Remote: Remove the retention screw and cable spool. Loosen the remote cable stop collar clamping bolt, and remove it.

Remove the lower remote spool, if present.

4 Unthread the compression damper top cap.
Remove the compression damper by pulling up firmly and slowly, while gently rotating the damper in a circular motion.

**NOTICE**
Do not force the damper out of the upper tube if there is resistance. This can cause separation of the piston from the damper tube.

**XLoc™ Remote:** Press the XLoc remote button to the compressed (open) position. Unthread the compression damper.
Remove the compression damper by pulling up firmly and slowly, while gently rotating the damper in a circular motion.

**NOTICE**
Do not force the damper out of the upper tube if there is resistance. This can cause separation of the piston from the damper tube.
5. Remove the fork from the work stand and pour the suspension oil into an oil pan.

6. Clamp the fork into the work stand. Thread the bottom bolt onto the rebound damper shaft and push the shaft into the upper tube.

7. Remove the retaining ring.

8. Pull the rebound shaft to full extension. Remove the rebound damper and seal head. Remove the bottom bolt, if installed.

**SID®/Reba®/Bluto™** Continue with SID/Reba/Bluto Charger 2 Damper Installation

**PIKE®/Revelation™/Lyrik™/Yari™** Continue with Pike/Revelation/Lyrik/Yari Charger 2 Damper Installation
**Charger 2 Damper™ Removal**

The procedure for removing the damper is similar across RockShox® front suspension forks. Your fork’s knobs, bolts, and damper may appear different from the pictures. Consult your fork’s service manual for more detailed instructions.

1. **Crown adjust:** Turn the lockout adjuster knob to the open, unlocked position.

2. **Crown adjust:** Remove the knob retaining screw.
Remove the low speed compression and lockout knob from the top cap.

Remove the compression mode adjuster knob.

Remote: Remove the low speed compression adjuster knob and spool assembly. Remove the cable stop collar. Keep the parts together and set aside.

Remove the cable stop collar. Remove the spool.
Remove the Charger 2 Damper™ assembly.
Clean the upper tube threads.

SID®/Reba®/Bluto™ Continue with SID/Reba/Bluto Charger 2 Damper Installation
PIKE®/Revelation™/Lyrik™/Yari™ Continue with Pike/Revelation/Lyrik/Yari Charger 2 Damper Installation.
The procedure for removing the damper is similar across RockShox® front suspension forks. Your fork’s knobs, bolts, and damper may appear different from the pictures. Consult your fork’s service manual for more detailed instructions.

1. **Crown**: Turn the lockout adjuster knob to the open, unlocked position.

2. **Crown**: Remove the knob retaining screw and remove the compression adjuster knob.

**RCT3 Only**: Remove the low speed adjuster knob screw. Remove the low speed adjuster knob.

Remove the knob retaining nut. Remove the compression adjuster knob.
Remove the Charger Damper™ assembly.
Clean the upper tube threads.

PIKE®/Revelation™/Lyrik™/Yari™ Continue with Pike/Revelation/Lyrik/Yari Charger 2 Damper Installation.
1 Turn the compression adjuster knob counter-clockwise, to the full open position, until it stops.

2 Remove the retaining screw and remove the knob.

3 Unthread the damper top cap and remove the Charger Damper™ RC assembly.
   Clean the upper tube threads.

   **NOTICE**

   To prevent scratching the rebound damper shaft, use your fingers to protect and guide the shaft as you remove the Charger Damper RC from the upper tube.

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**BoXXer** Continue with [BoXXer Charger Damper™ RC2 Installation](#)
**Damper Upgrade Installation**

**SID®/Reba®/Bluto™ Charger 2 Damper™ Installation**

1. Clean the inside and outside of the upper tube.

2. Install the Charger 2 Damper into the damper side upper tube.

3. Thread the top cap into the upper tube, and tighten.
   
   **SID® World Cup**: Tighten to 7.3 N·m (65 in-lb).
4 **RLC:** Install the lockout adjuster knob onto the top cap so the knob rotates from open to closed.

Install the low speed compression knob onto the lockout knob. Install and tighten the retention screw.

5 **RLC R:** Install the cable stop collar with the cable guide in the forward position. Install the remote spool onto the hex adjuster with the cable set screw oriented within the 87° range zone.

Install and tighten the low speed compression knob screw.

Hand tighten the cable stop collar bolt, and then tighten it.

**NOTICE**

Do not overtighten the cable stop collar bolt. Overtightening the bolt may result in damage to the remote top cap and cause the cable to rub.

Consult the remote user manual at [https://www.sram.com/rockshox/component/remotes](https://www.sram.com/rockshox/component/remotes) for cable and remote installation instructions.

**SID®/Reba®/Bluto™** Continue with Lower Leg Installation.
1. Clean the inside and outside of the upper tube.

2. Install the Charger 2 Damper assembly into the damper side upper tube. Thread the top cap into the upper tube.
3. Tighten the top cap.
**RCT3:** Install the compression mode adjuster knob onto the top cap with the tab in the forward, unlocked position.

**RC2:** Install the high speed compression adjuster knob.

**RC2/ RCT 3:** Install the low speed compression adjuster knob onto the hex adjuster rod. Install and tighten the retaining screw.
RCT R: Install the cable stop collar with the housing guide in the 6 o’clock forward position, angled ~20 degrees from center.

Install the remote spool onto the hex adjuster with the cable set screw oriented within the 87° range zone.
Install the glide ring and low speed adjuster knob onto the hex adjuster.
Install and tighten the knob retaining screw.

Tighten the cable stop collar set screw.


PIKE®/Revelation™/Lyrik™/Yari™ Charger 2 Damper™ Installation
Push the rebound damper shaft in to leave room to inject oil into the lower leg. Install the Charger 2 Damper™ assembly into the damper side upper tube. Thread the top cap into the upper tube.

**NOTICE**

To prevent scratching the rebound damper shaft, use your fingers to protect and guide the shaft as you install or remove the Charger 2 Damper from the upper tube.

Tighten the top cap.
Install the high speed compression adjuster knob.

Install the low speed compression adjuster knob onto the hex adjuster rod.
Install and tighten the retaining screw.

Continue with Lower Leg Installation, step 4.
Lower Leg Installation

The procedure for installing the lower leg is similar across RockShox® front suspension forks. Your fork’s knobs, bolts, and chassis may appear different from the pictures. Consult your fork’s service manual for more detailed instructions.

1. Clean the upper tubes.
   BoXXer®: Continue to step 4 if the lower legs are installed.

2. Apply grease the inner surfaces of the wiper seals.

3. Slide the lower leg onto the upper tube enough to engage the upper bushing with the upper tube.

   **NOTICE**
   Make sure both wiper seals slide onto the tubes without folding the outer lip of either seal.
   The inside bottom of the lower leg should not contact the spring or damper shafts. A gap between the shaft ends and the lower leg bolt holes should be visible.
Position the fork at an angle with the lower leg bolt holes oriented upward.
Angle a syringe fitting in each lower leg bolt hole so the fluid will only contact the inside of the lower leg.
Consult the Front Suspension Oil, Air, Coil Spring Specification Chart at www.sram.com/service for your fork's recommended oil weight and volume.
Inject the suspension oil into each lower leg through the lower leg bolt hole.

**NOTICE**
Do not exceed the recommended oil volume per leg as this can damage the fork.

Slide the lower leg assembly toward the crown until it stops.
Verify each shaft is centered and seated in the lower leg shaft/bolt hole and no gap is visible between the lower leg and the shaft end.

Install the black bottom bolt into the spring side shaft of the lower leg.
Install the hollow bottom bolt into the damper side shaft of the lower leg.

Oil wt and Volume vary

<table>
<thead>
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<th>Oil wt and Volume vary</th>
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<td>32 mm: 6.8 N·m (60 in-lb)</td>
</tr>
<tr>
<td>35 mm: 7.3 N·m (65 in-lb)</td>
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</table>
Install the rebound damper knob.

Tighten the set screw, if present.
*Do not over-tighten the set screw. Over-tightening will seize the adjuster knob and it will not turn.*

Clean the entire fork.

This concludes the upgrade to Charger 2 Damper™.