

ROCKSHOX

2023 Eyelet and Damper Shaft Replacement

Deluxe (C1), Deluxe Coil (B1)

Super Deluxe (C1), Super Deluxe Coil (B1)



SERVICE MANUAL

SRAM LLC WARRANTY

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS AGAINST SRAM, LLC. YOU MAY ALSO HAVE OTHER RIGHTS THAT VARY FROM STATE TO STATE, COUNTRY, OR PROVINCE. THIS WARRANTY DOES NOT AFFECT YOUR STATUTORY RIGHTS. TO THE EXTENT THIS WARRANTY IS INCONSISTENT WITH THE LOCAL LAW, THIS WARRANTY SHALL BE DEEMED MODIFIED TO BE CONSISTENT WITH SUCH LAW. FOR A FULL UNDERSTANDING OF YOUR RIGHTS, CONSULT THE LAWS OF YOUR COUNTRY, PROVINCE, OR STATE.

THIS WARRANTY APPLIES TO SRAM PRODUCTS MADE UNDER THE SRAM, ROCKSHOX, TRUVATIV, ZIPP, QUARQ, AVID AND TIME BRAND NAMES.

EXTENT OF LIMITED WARRANTY

Except as otherwise set forth herein, SRAM warrants its bicycle components to be free from defects in materials or workmanship for a period of two (2) years after original purchase of the product.

SRAM warrants all Zipp MOTO Wheels and Rims to be free from defects in materials or workmanship for the lifetime of the product.

SRAM warrants all non-electronic Zipp branded bicycle components, Model Year 2021 or newer, to be free from defects in materials or workmanship for the lifetime of the product.

GENERAL PROVISIONS

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 product was purchased or a SRAM authorized service location. Original proof of purchase is required. All SRAM warranty claims will be evaluated by a SRAM authorized service location whereupon acceptance of the claim the product will be repaired, replaced, or refunded at SRAM's discretion. To the extent allowed by local law claims under this warranty must be made during the warranty period and within one (1) year following the date on which any such claim arises.

NO OTHER WARRANTIES

EXCEPT AS DESCRIBED HEREIN, AND TO THE EXTENT ALLOWED BY LOCAL LAW, 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.

LIMITATIONS OF LIABILITY

EXCEPT AS DESCRIBED HEREIN, AND TO THE EXTENT PERMITTED BY LAW, IN NO EVENT SHALL SRAM OR ITS THIRD PARTY SUPPLIERS BE LIABLE FOR DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES. SOME STATES (COUNTRIES AND PROVINCES) DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL DAMAGES, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU.

LIMITATIONS OF WARRANTY

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

This warranty does not apply to damage to the product caused by a crash, impact, abuse of the product, non-compliance with manufacturer's specifications of intended 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.

SRAM components are designed for use only on bicycles that are pedal powered or pedal assisted (e-Bike/Pedelec).

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 or parts that are not compatible or suitable for use with SRAM components.

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

WEAR AND TEAR

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 INCLUDE:

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

ZIPP IMPACT REPLACEMENT POLICY

Zipp branded products, Model Year 2021 or newer, are covered under a lifetime impact-damage replacement policy. This policy can be used to obtain a replacement of a product in the event of non-warranty impact damage occurring while riding your bicycle. See www.zipp.com/support for more information.



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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Introduction

The procedures in this service manual are not included in the *2023 Deluxe (C1)*, *2023 Deluxe Coil (B1)*, *2023 Super Deluxe (C1)*, or *2023 Super Deluxe Coil (B1) Service Manuals*.

Prior to beginning eyelet and/or damper shaft replacement, follow the disassembly procedures in the appropriate rear shock service manual and continue as described in each section in this manual.

Upon completion of the procedures in this manual, continue with the appropriate rear shock service manual for shock assembly and additional service procedures.

Refer to the *RockShox Spare Parts Catalog* at www.sram.com/service for available spare part kits, lubricants, and tools.

Model Code Identification

Product model code and specification details can be identified with the serial number on the product. Model codes can be used to identify the product type, series name, model name, and product version associated with the production model year. Product details can be used to identify spare parts, service kit, and lubricant compatibility.

Model Code example: **RS-DLX-SEL-C1**

RS = Product Type - **Rear Shock**

DLX = Platform/Series - **Deluxe**

SEL = Model - **Select**

C1 = Version - (**C** - third generation, **1** - first iteration)

To identify the model code, locate the serial number on the product and enter it into the **Search by Model Name or Serial Number** field at www.sram.com/service.

Deluxe (C1)

The procedures in this section are not included in the *2023 Deluxe (C1) Service Manuals*.

Prior to beginning, follow the disassembly procedures in the **Damper Piston Service** section of the *2023 Deluxe (C1) Service Manual*, through air seal head/air piston removal. The piston assembly and seal head assemblies must be removed before the damper shaft or eyelet assemblies can be disassembled.

Parts, Tools, and Supplies

Parts

- 2023 Deluxe (C1) eyelet assembly
- 2023 Deluxe Ultimate (C1) damper shaft assembly (includes damper shaft, rebound rod, and compression poker)
- 2023 Deluxe Select+ (C1) damper shaft assembly (includes damper shaft, rebound poker, and lock piston/compression poker assembly)
- 2023 Deluxe Select (C1) damper shaft assembly (includes damper shaft, compression poker, and rebound poker assemblies)

Safety and Protection Supplies

- Apron
- Clean, lint-free shop towels
- Nitrile gloves
- Safety glasses

Lubricants and Fluids

- RockShox Suspension Cleaner or isopropyl alcohol
- RockShox Dynamic Seal Grease
- Loctite Threadlocker Blue 242

RockShox Tools

- RockShox Vise Blocks (3-hole) - 10 mm slot
- Deluxe Rebound Rod Sizing Pin

Common Tools

- Adjustable open end wrench (54 mm)
- Bench vise
- Crowfoot Socket or adjustable open end crowfoot socket: 13 mm, 29 mm, or 54 mm
- Hex wrench: 1.5 mm, 2 mm
- Pliers
- Socket: 12 mm
- Torque wrench

SAFETY INSTRUCTIONS

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

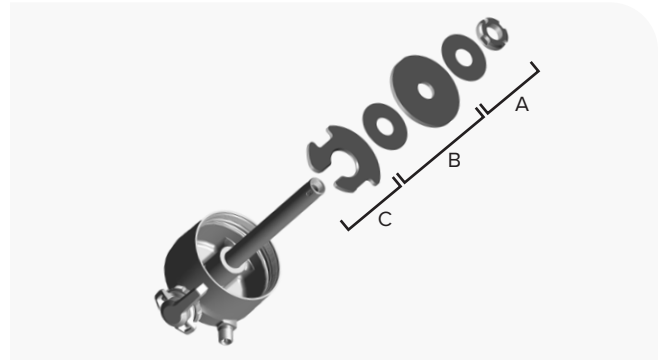
Torque Values

Deluxe	Tool	Model	Torque
Eyelet (Standard) to Damper Shaft	13 mm Crowfoot	Ultimate RCT Select+ RL, Select+ RT Select R	7.9 N•m (70 in-lb)
Eyelet (Bearing) to Damper Shaft	29 mm Crowfoot		
Eyelet (Trunnion) to Damper Shaft	54 mm Crowfoot		
Lever Screw - Lever (Lock/Pedal) to Cam	1.5 mm Hex bit socket	Select+ RL, Select+ RT	0.56 N•m (5 in-lb)
Cam limit screw to eyelet	1.5 mm Hex bit socket	Ultimate RCT, Select+ RL, Select+ RT, Select R	Tighten until flush with eyelet
Detent set screw	1.5 mm Hex bit socket	Ultimate RCT, Select+ RL, Select+ RT, Select R	Tighten until flush with eyelet
Adjuster assembly limit screw	2 mm Hex bit socket	Ultimate RCT, Select+ RL, Select+ RT, Select R	Tighten until flush with eyelet
Piston bolt - Ultimate RCT	12 mm socket	Ultimate RCT	4.5 N•m (40 in-lb)
Piston nut - Select+ RL, Select+ RT, Select R	12 mm socket	Select+ RL, Select+ RT	6.2 N•m (55 in-lb)

Disassembly - Damper Shaft and Eyelet

- 1 Remove the (A) bottom out bumper and washer, (B) travel reducer and washer (if installed), and (C) Bottomless Token(s) (if installed). Clean and set aside.

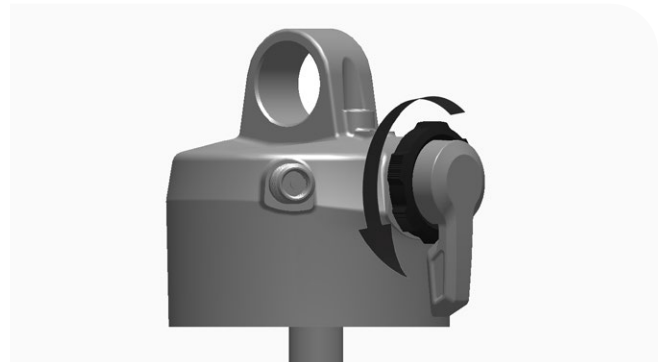
Ultimate RCT pictured: Procedure is the same for all models.



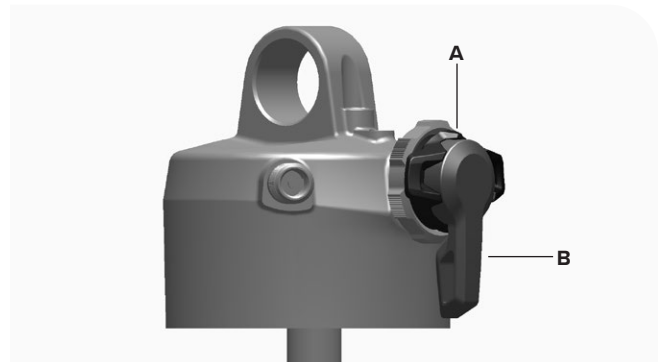
- 2 To ensure correct disassembly and reassembly, the adjusters must be adjusted accordingly before disassembly.

Ultimate RCT, Select+ RL, Select+ RT, Select R: Confirm the rebound adjuster knob is rotated full counter-clockwise to the full open position.

Select+ pictured: Procedure is the same for all models.



Ultimate RCT: Confirm the (A) compression adjuster is set to the zero/center position. Rotate the (B) lever to the open/unlock position.



Select+ RL, Select+ RT: Confirm the lever is rotated to the open/unlock position.



3 Ultimate RCT, Select+ RL, Select+ RT, Select R: Clamp the damper shaft into a vise with RockShox Vise Blocks (3-hole) (10 mm slot), threads down, just below the eyelet.

Ultimate RCT pictured: Procedure is the same for all models.



RockShox Vise Blocks (3-hole) - 10 mm slot

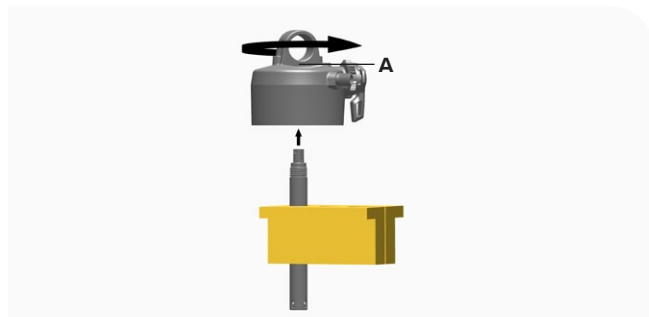


RockShox Vise Blocks (3-hole) - 10 mm slot

4 Secure the wrench on the (A) eyelet mount flats (standard, trunion, or bearing). Unthread and remove the eyelet assembly from the damper shaft assembly.

Ultimate RCT pictured: Procedure is the same for all models.

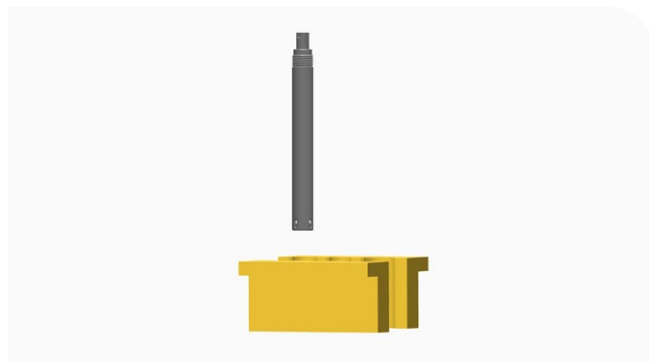
Eyelet	Wrench
Standard	13 mm
Bearing	29 mm
Trunion	54 mm



Adjustable open end wrench

5 Remove the damper shaft assembly from the vise and vise blocks and set it aside.

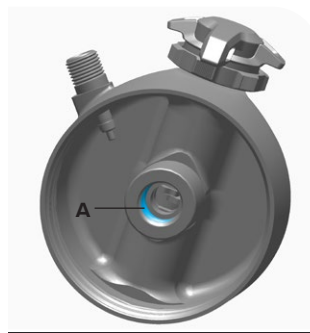
Ultimate RCT pictured: Procedure is the same for all models.



6 If the original eyelet assembly will be replaced: Discard the original eyelet assembly.

If the original eyelet assembly will not be replaced and damper shaft will be replaced: Clean the eyelet shaft threads with a shop towel. Remove all (A) threadlocker. Tap the eyelet on a flat surface to remove any loose bits of threadlocker as needed. Do not spray alcohol or cleaner into the eyelet.

Ultimate RCT pictured: Procedure is the same for all models.



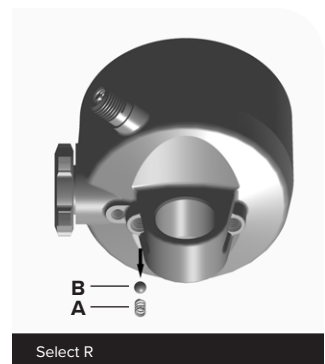
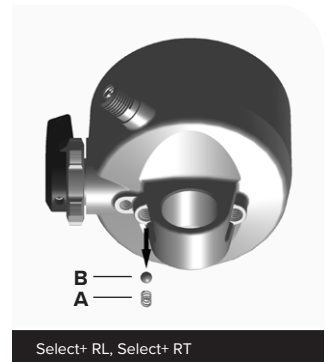
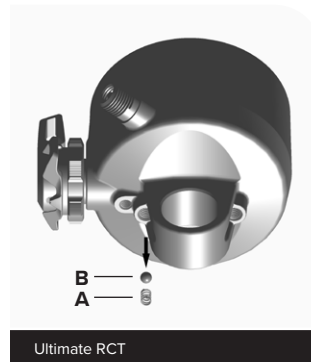
Threadlocker



- 7** Remove the (A) cam limit screw, the (B) adjuster detent spring set screw, and the (C) rebound adjuster limit screw.

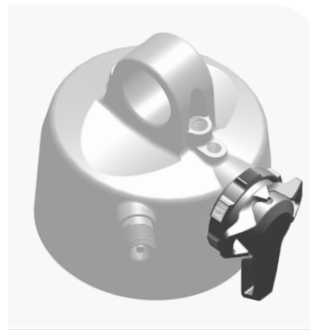


- 8** Remove the (A) rebound adjuster detent spring and (B) detent ball. Tap the eyelet on a flat surface to dislodge the spring and detent ball if necessary.



9 Remove the complete adjuster assembly from the eyelet. Do not rotate the adjusters.

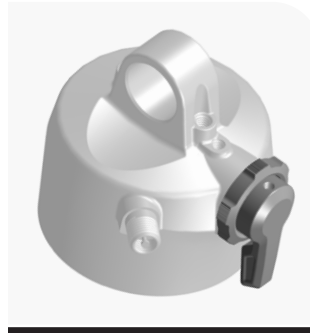
Do not disassemble any of the adjuster assembly parts.



Ultimate RCT



Ultimate RCT



Select+ RL, Select+ RT



Select+ RL, Select+ RT

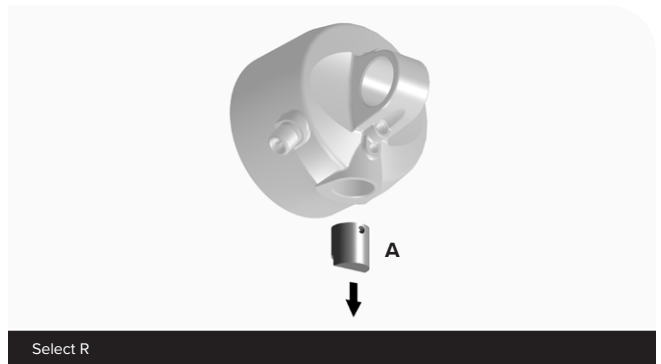


Select R



Select R

Select R: Remove the adjuster (A) gate block. Gently tap on a flat surface to remove the gate block if necessary.



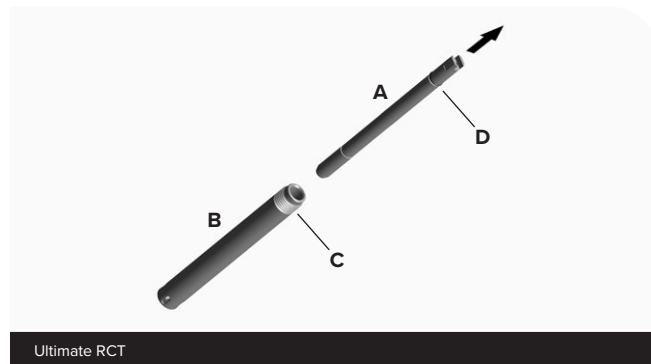
Select R

10 Ultimate RCT

If the damper shaft will be replaced: Discard the damper shaft, rebound rod, and compression poker assembly.

Original and new damper shaft assemblies: Remove the (A) rebound rod assembly from the (B) damper shaft. Clean the damper shaft and (C) damper shaft threads.

Clean the rebound rod assembly and the (D) o-ring.

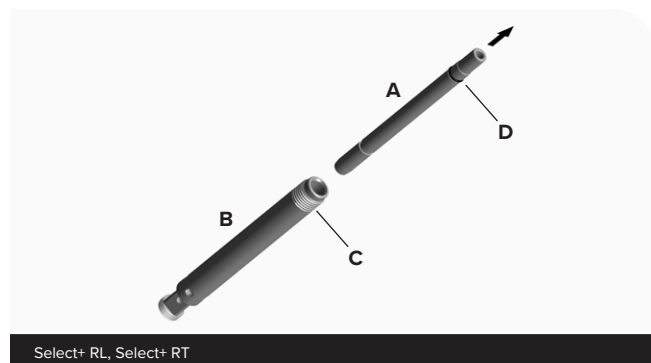


Select+ RL, Select+ RT

If the damper shaft will be replaced: Discard the damper shaft, rebound poker assembly, and the compression poker assembly.

Original and new damper shaft assemblies: Remove the (A) rebound poker assembly from the (B) damper shaft. Clean the damper shaft and (C) damper shaft threads.

Clean the rebound poker assembly and the (D) o-ring.

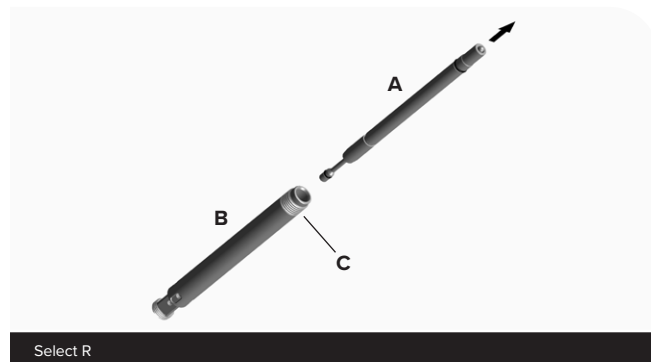


Select R

If the damper shaft will be replaced: Discard the damper shaft, rebound poker assembly, and compression poker assembly.

Original and new damper shaft assemblies: Remove the (A) rebound poker/compression poker assembly from the (B) damper shaft.

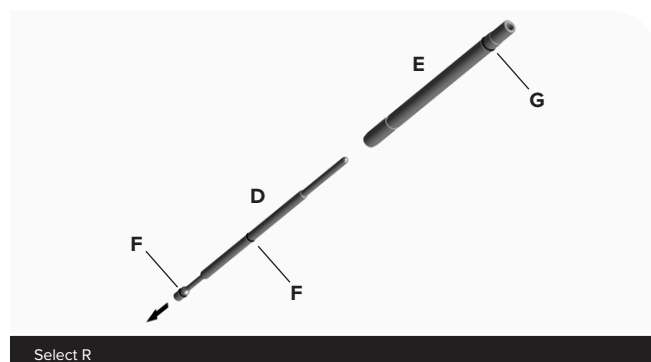
Clean the damper shaft and (C) damper shaft threads.



Remove the (D) compression poker from the (E) rebound poker.

Clean the compression poker and the (F) o-rings.

Clean the rebound poker and the (G) o-ring.



Install Deluxe Rebound Rod Sizing Pin

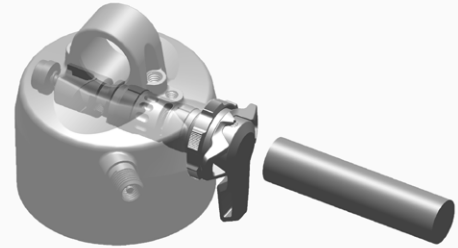
The rebound rod sizing pin must be installed into the eyelet, before reassembly, to ensure the rebound rod / rebound poker inside the damper shaft is pressed to the correct position when the damper shaft assembly and piston assembly are tightened to the specified torque.

The sizing pin replaces the adjuster assembly in the eyelet during assembly and torque procedures. When the sizing pin is removed, and the adjuster is reinstalled, the damper shaft assemblies are set to the correct position in the eyelet, which ensures the range of rebound adjustment is accurate after assembly.

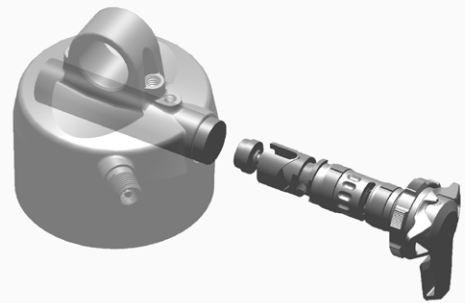


Deluxe Rebound Rod Sizing Pin

50.8 mm x 12.2 mm

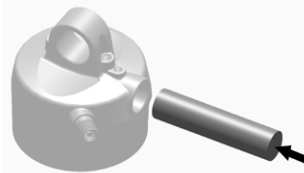


Deluxe Rebound Rod Sizing Pin



Deluxe Rebound Rod Sizing Pin

- 1 Insert the Deluxe rebound rod sizing pin into the adjuster assembly slot in the eyelet. Push it in until it stops.



Deluxe Rebound Rod Sizing Pin



Deluxe Rebound Rod Sizing Pin

1 New damper shaft assembly: Remove the rebound rod assembly from the damper shaft if it is installed in the kit.

Ultimate RCT: Apply grease to the rebound rod assembly (A) o-ring.

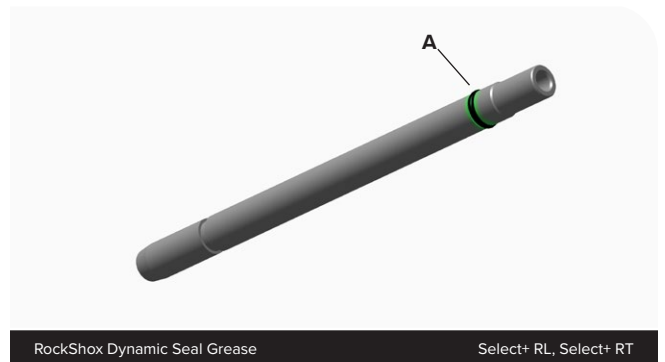


Install the (A) rebound rod assembly, tapered end first, into the (B) damper shaft. The (C) keyed end of the rebound rod should protrude from the end of the damper shaft.

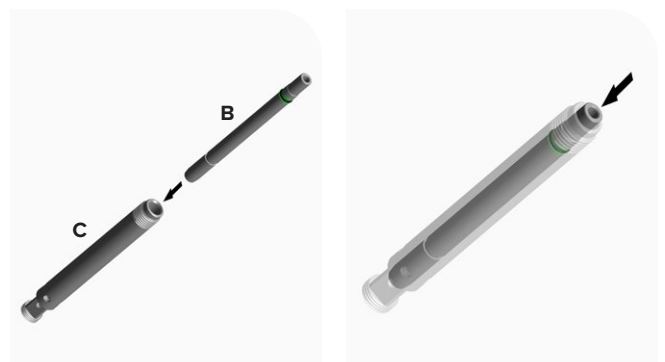


New damper shaft assembly: Remove the rebound poker assembly from the damper shaft if it is installed in the kit.

Select+ RL, Select+ RT: Apply grease to the rebound poker assembly (A) o-ring.



Install the (B) rebound poker assembly, tapered end first, into the (C) damper shaft until it stops.

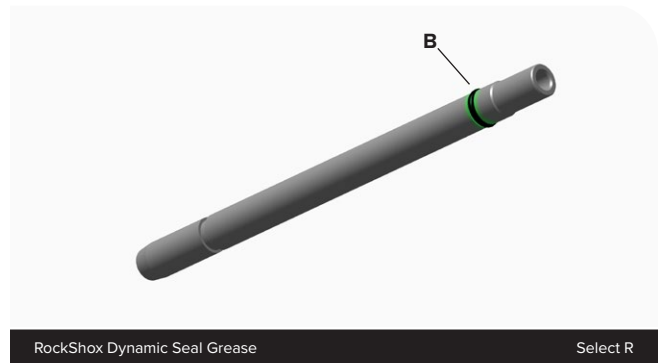


New damper shaft assembly: Remove the compression poker assembly from the damper shaft if it is installed in the kit.

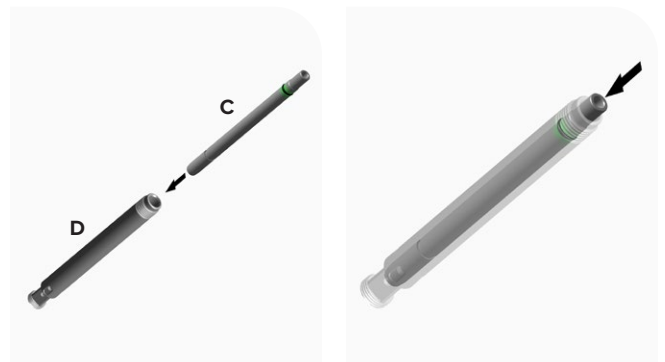
Select R: Apply grease to the compression poker (A) o-rings and set the poker assembly aside. The compression poker will be installed into the damper shaft after the piston assembly and rebound adjuster assembly are installed.



Apply grease to the rebound poker assembly (B) o-ring.



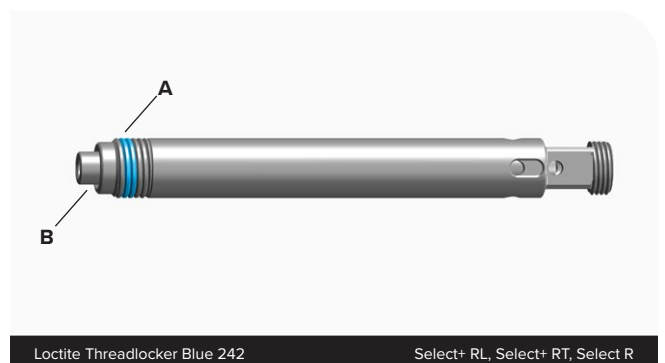
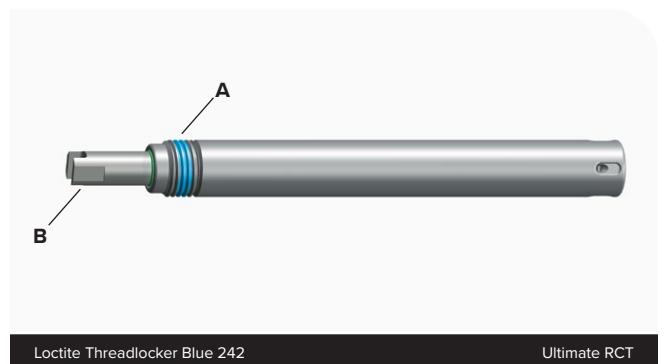
Install the (C) rebound poker assembly, tapered end first, into the (D) damper shaft until it stops.



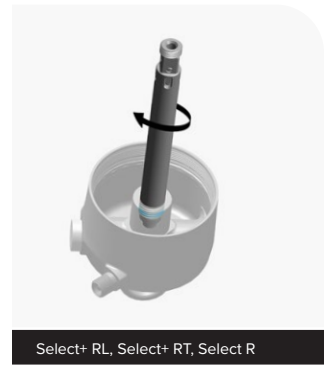
2 Apply Loctite Threadlocker Blue 242 (or equivalent) to (A) 2 full threads (only apply to threads) on the damper shaft.

Do not apply Threadlocker to the (B) rebound rod or rebound poker, or to any other area of the damper shaft.

Ultimate RCT: Proceed to step 7.



3 Select+ RL, Select+ RT, Select R: Thread the damper shaft assembly into the eyelet by hand until it stops.



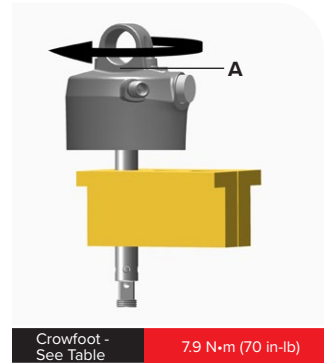
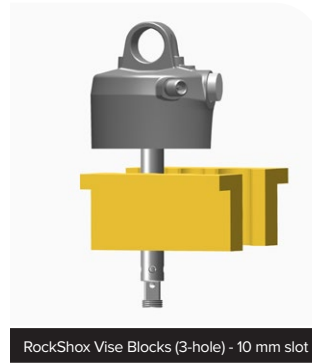
4 Select+ RL, Select+ RT, Select R: Clamp the damper shaft into a vise with RockShox Vise Blocks (3-hole) (10 mm slot), just below the eyelet.

Secure the crowfoot wrench on the (A) eyelet mount flats (standard, trunnion, or bearing). Tighten the eyelet to the specified torque.

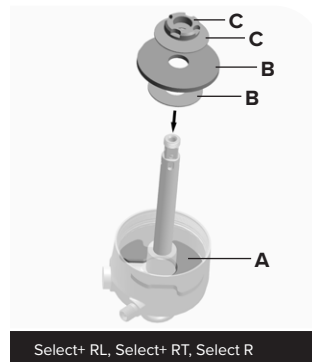
Note: When the eyelet and damper shaft are tightened to the specified torque, the rebound rod assembly or rebound poker assembly is sized to the correct position inside the damper shaft. This step is critical for proper damper function.

Remove the damper from the vise.

Eyelet	Crowfoot
Standard	13 mm
Bearing	29 mm
Trunnion	54 mm



Select+ RL, Select+ RT, Select R: Install the (A) Bottomless Token(s) (if previously installed), the (B) travel reducer washer and the travel reducer (if previously installed), and the (C) washer and bottom out bumper.



5 Select+ RL, Select+ RT, Select R: Clamp the damper shaft into a vise with RockShox Vise Blocks (3-hole) (10 mm slot), just below the eyelet.

Install the seal head/air piston.

Refer to the *2023 Deluxe (C1) Service Manual* for detailed installation procedures and specifications.

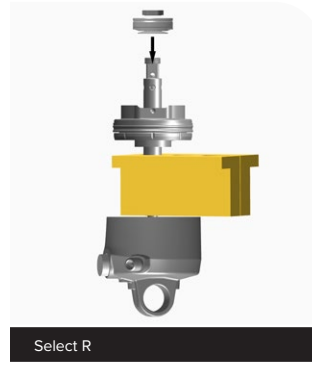
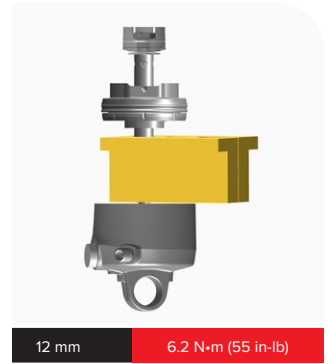
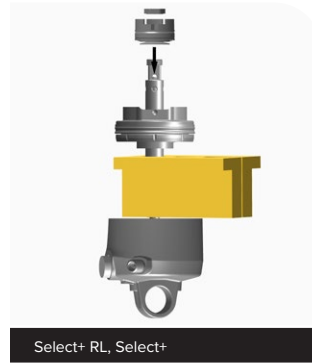


6 Select+ RL, Select+ RT, Select R: Install the piston assembly and the piston nut.

Refer to the *2023 Deluxe (C1) Service Manual* for detailed piston installation procedures.

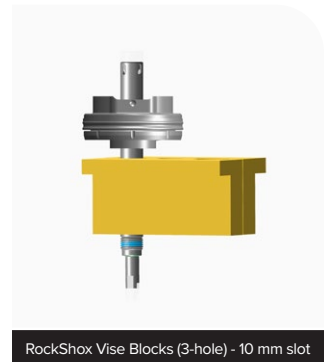
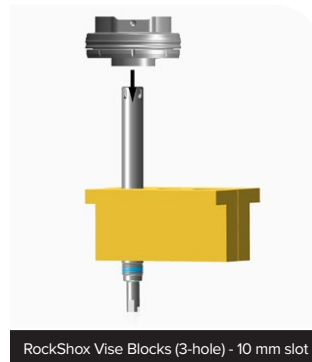
Remove the damper assembly from the vise after the piston assembly has been installed.

Select+ RL, Select+ RT, Select R: Proceed to step 12.



7 Ultimate RCT: Clamp the damper shaft into a vise with RockShox Vise Blocks (3-hole) (10 mm slot), just above the damper shaft threads.

Install the seal head onto the damper shaft.

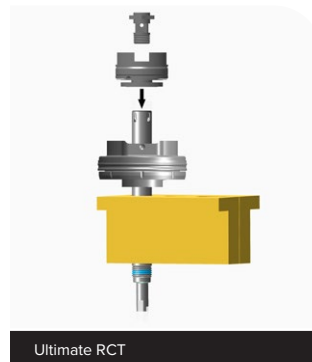


8 Ultimate RCT: Install the piston assembly and piston bolt onto the damper shaft.

Refer to the *2023 Deluxe (C1) Service Manual* for detailed piston installation procedures.

Note: When the piston bolt is tightened to the specified torque, the rebound poker assembly will be sized to the correct position inside the damper shaft. This step is critical for proper damper function.

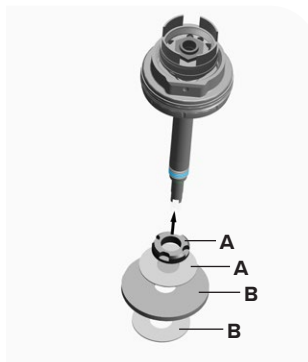
Remove the damper shaft from the vise.



9 Ultimate RCT: Install the Bottomless Token(s) (if previously installed) into the eyelet.

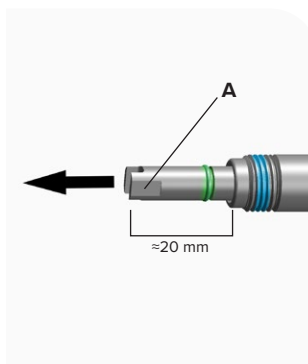


Ultimate RCT: Install the (A) bottom out bumper and washer, and the (B) travel limiter and washer (if previously installed), in that order, onto the damper shaft.



10 Ultimate RCT: Extend the rebound rod from the damper shaft approximately 20 mm.

Insert the damper shaft assembly into the eyelet with the (A) keyed end of the rebound rod aligned with the (B) key flats inside the eyelet.



When the keyed end of the rebound rod is aligned and inserted into key flats in the eyelet, thread the damper shaft assembly into the eyelet by hand until it stops.

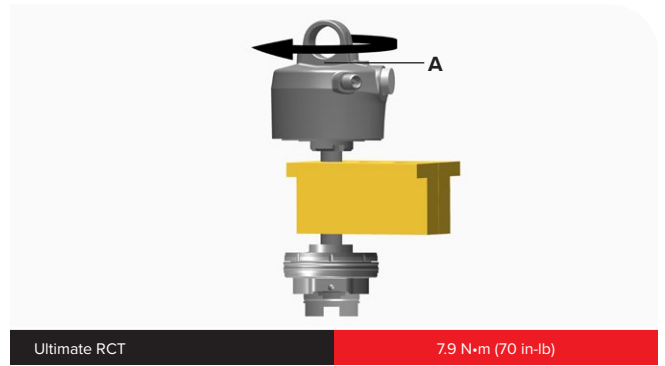


11 Ultimate RCT: Clamp the damper shaft into a vise with RockShox Vise Blocks (3-hole) (10 mm slot), just below the eyelet and bottom out bumper.

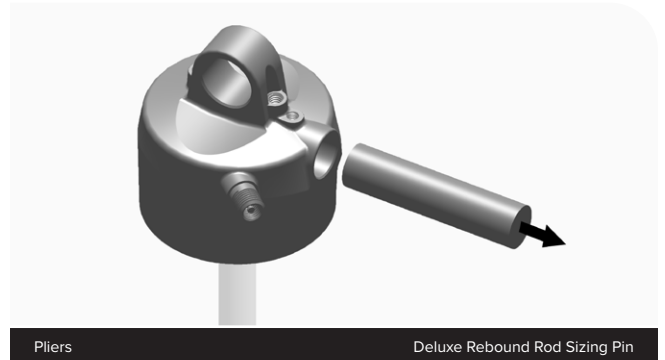
Secure a crowfoot wrench on the (A) eyelet mount flats (standard, trunnion, or bearing). Tighten the eyelet to the specified torque.

Remove the damper assembly from the vise and vise blocks.

Eyelet	Crowfoot
Standard	13 mm
Bearing	29 mm
Trunnion	54 mm

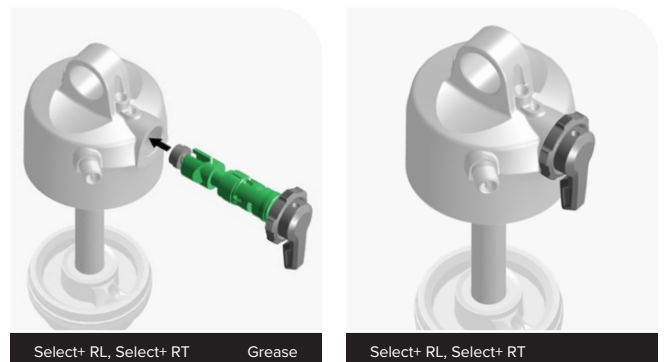
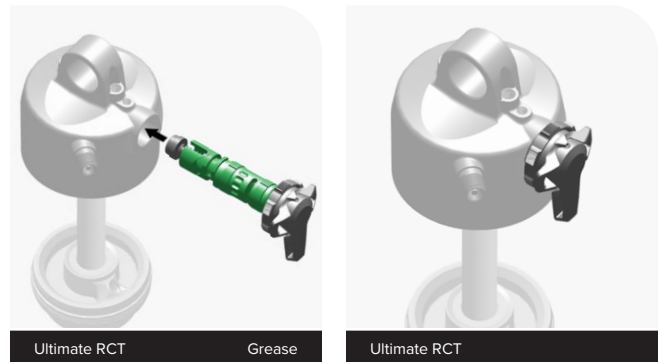


12 Remove the Deluxe rebound rod sizing pin from the eyelet.



13 Apply RockShox Dynamic Seal Grease to the adjuster assembly.

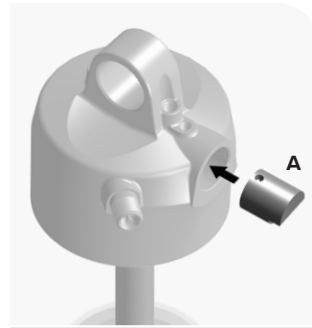
Ultimate RCT, Select+ RL, Select+ RT,: Install the complete adjuster assembly into the eyelet. Press the assembly in until it stops in place. Do not rotate the adjusters.



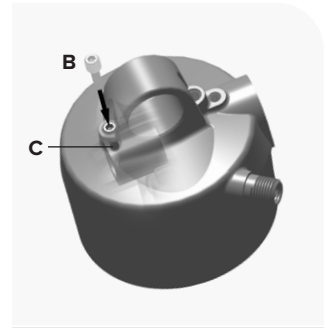
Select R: Insert the adjuster (A) gate block into the eyelet, in the orientation pictured. Hold it in place with a non-metallic pick to align the (C) alignment hole with the limit screw hole in the eyelet.

While holding the gate block in place with the pick, install the (B) cam limit screw. Tighten the screw until it is flush with the eyelet.

Install the complete adjuster assembly into the eyelet. Press the assembly in until it stops in place. Do not rotate the adjusters.

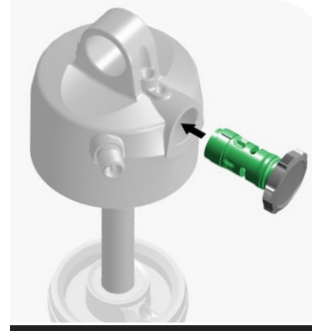


Select R



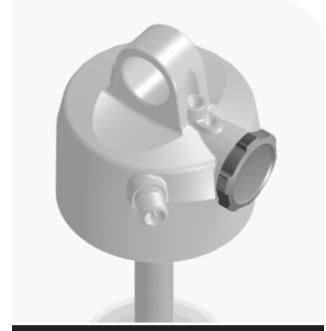
Select R

1.5 mm



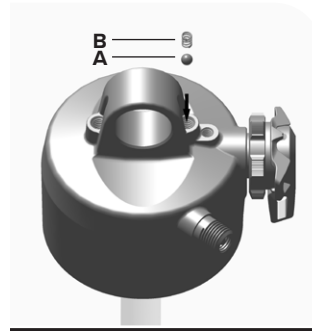
Select R

Grease

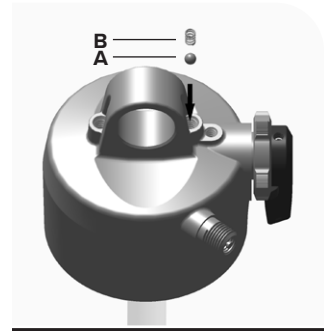


Select R

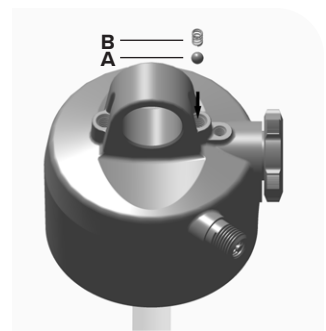
14 Install the (A) detent ball and the rebound adjuster (B) detent spring.



Ultimate RCT



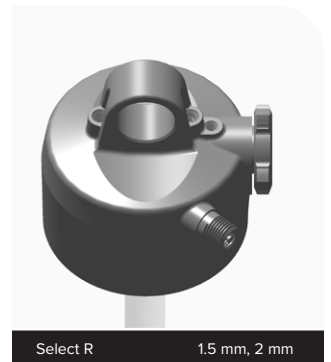
Select+ RL, Select+ RT



Select R

15 Install the (A) cam limit screw, the adjuster detent spring (B) set screw, and the (C) rebound adjuster limit screw.

Tighten each screw until flush with the eyelet.



16 **Select R:** Install the compression poker assembly into the damper shaft, through the piston nut and piston assembly. Press it into the damper shaft until it stops.



To continue reassembly, refer to the *2023 Deluxe (C1) Service Manual* beginning after piston assembly installation.

Deluxe Coil (B1)

The procedures in this section are not included in the *2023 Deluxe Coil (B1) Service Manual*.

Prior to beginning, follow the disassembly procedures in the **Damper and IFP Service** section of the *2023 Deluxe Coil (B1) Service Manual* through seal head removal.

Parts, Tools, and Supplies

Parts

- 2023 Deluxe Coil (B1) / Super Deluxe Coil (B1) damper shaft/eyelet assembly
- 2023 Deluxe Coil (B1) damper body and eyelet assembly

Safety and Protection Supplies

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

Lubricants and Fluids

- RockShox Suspension Cleaner or isopropyl alcohol
- RockShox Dynamic Seal Grease

Common Tools

- Bench vise
- Hex bit socket: 1.5 mm, 3 mm
- Hex wrench: 1.5 mm, 3 mm
- Torque wrench

SAFETY INSTRUCTIONS

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

Disassembly - Damper Shaft and Eyelet

Follow the disassembly steps **Damper and IFP Service** section of the *2023 Super Deluxe Coil (B1) Service Manual*, through bottom out bumper removal.

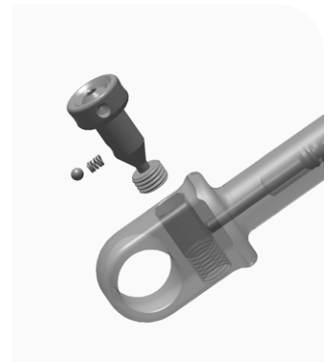
If replacing the damper shaft/eyelet assembly, remove the rebound adjuster, discard the original damper shaft, and continue with a new damper shaft.



- 1 The rebound adjuster must be fully threaded into the eyelet to free the rebound needle for removal.

Rotate the rebound adjuster clockwise until it stops, then rotate it counter-clockwise to unthread and remove it from the eyelet.

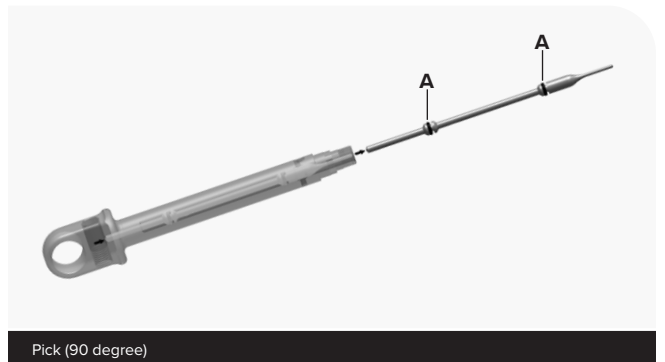
Cover the adjuster shaft when it is unthreaded to capture the detent ball and detent spring.



- 2 Use a 90 degree pick to push the rebound needle up and out of damper shaft. The rebound needle should protrude from the threaded end of the damper shaft.

Remove the rebound needle from the damper shaft.

Clean the rebound needle and the (A) o-rings.



Pick (90 degree)

Assembly - Damper Shaft and Eyelet

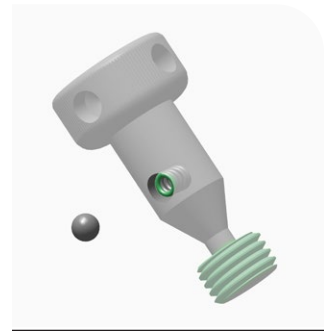
1 If the detent ball and spring were removed from the rebound adjuster, install them back into the adjuster.

Apply grease to the rebound adjuster threads.

Install the detent spring. Apply grease on top of the detent spring to capture the detent ball. Install the detent ball into the rebound adjuster, on top of the detent spring.



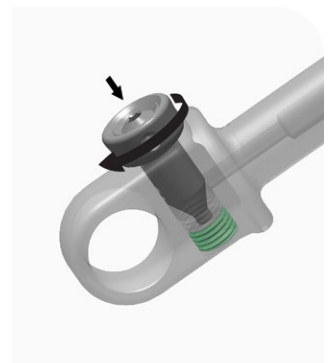
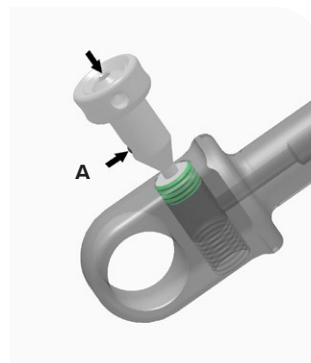
RockShox Dynamic Seal Grease



RockShox Dynamic Seal Grease



2 Install the rebound adjuster while pushing the (A) detent ball in, to clear the edge of the rebound adjuster hole in the eyelet. Once clear, install the adjuster and thread it into the eyelet six full turns.



3 Apply grease to the rebound needle (A) o-rings. Apply grease to the end of the needle.

Install the rebound needle into the new damper shaft. Push the rebound needle in until it stops.

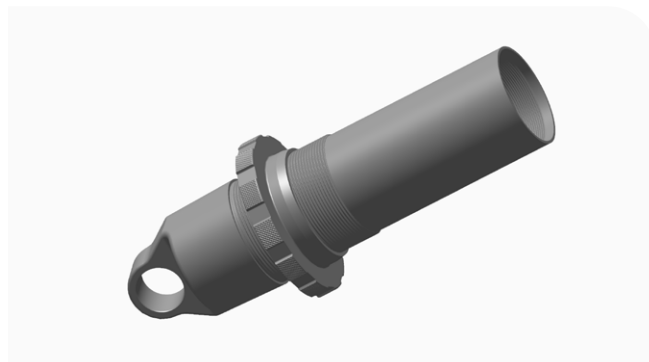


Continue with assembly procedures in the *2023 Deluxe Coil (B1) Service Manual* beginning with seal head assembly installation.

Damper Body and Eyelet

If a new damper body and eyelet assembly is installed, follow disassembly steps through damper shaft assembly removal in the *2023 Deluxe Coil (B1) Service Manual*.

Continue reassembly with the new Deluxe Coil damper body and eyelet assembly following procedures in the *2023 Deluxe (B1) Service Manual*.



Super Deluxe (C1)

The procedures in this manual are not included in the *2023 Super Deluxe (C1) Service Manual*.

Prior to beginning, follow the disassembly procedures in the **Air Seal Head/Air Piston Service** section of the *2023 Super Deluxe (C1) Service Manual* through air seal head/air piston removal.

Parts, Tools, and Supplies

Parts

- 2023 Super Deluxe (C1) eyelet assembly
- 2023 Super Deluxe (C1) damper shaft assembly (includes damper shaft and rebound needle assembly)
- 2023 Super Deluxe (C1) / Super Deluxe Coil (B1) reservoir assembly

Safety and Protection Supplies

- Apron
- Clean, lint-free shop towels
- Nitrile gloves
- Safety glasses

Lubricants and Fluids

- RockShox Suspension Cleaner or isopropyl alcohol
- RockShox Dynamic Seal Grease
- Loctite Threadlocker Blue 242

RockShox Tools

- RockShox Vise Blocks (3-hole) - 12.7 mm slot
- Super Deluxe Rebound Rod Sizing Pin

Common Tools

- Adjustable open end wrench (54 mm)
- Bench vise
- Crowfoot Socket: 13 mm, 29 mm, or 54 mm
- Crowfoot Socket or adjustable open end crowfoot socket: 13 mm, 29 mm, or 54 mm
- Hex bit socket: 3 mm
- Hex wrench: 1.5 mm, 3 mm
- Pliers
- Socket: 12 mm
- Torque wrench

SAFETY INSTRUCTIONS

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

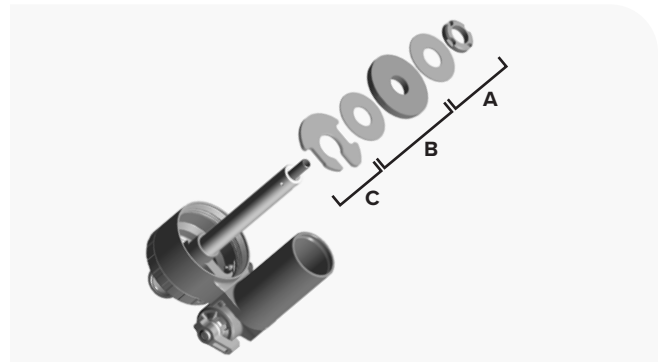
Torque Values

Deluxe	Tool	Torque
Eyelet (Standard) to Damper Shaft	13 mm Crowfoot	7.9 N•m (70 in-lb)
Eyelet (Bearing) to Damper Shaft	29 mm Crowfoot	
Eyelet (Trunnion) to Damper Shaft	54 mm Crowfoot	
Bolts - Reservoir Neck to Eyelet	3 mm Hex bit socket	2.8 N•m (25 in-lb)
Lever Screw - Lever to Cam - Select+ RT, Ultimate RCT	1.5 mm Hex bit socket	0.73 N•m (6.5 in-lb)
Piston bolt to damper shaft	12 mm socket	6.2 N•m (55 in-lb)

Disassembly - Damper Shaft, Eyelet, and Reservoir

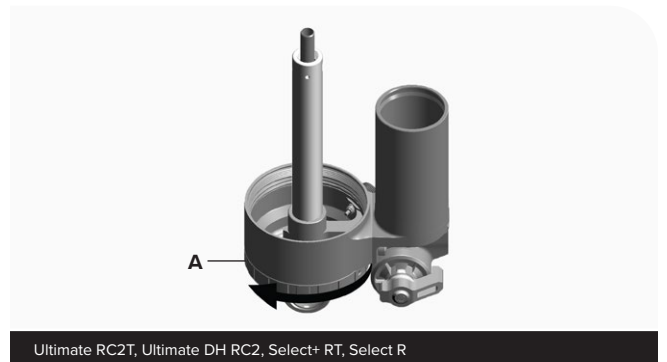
- 1 Remove the (A) bottom out bumper and washer, (B) travel reducer and washer (if installed), and (C) Bottomless Token(s) (if installed). Clean and set aside.

Ultimate RC2T pictured: Procedure is the same for all models.



- 2 **Ultimate RC2T, Ultimate DH RC2, Select+ RT, Select R:** Confirm the (A) rebound adjuster is rotated full counter-clockwise to the full open position.

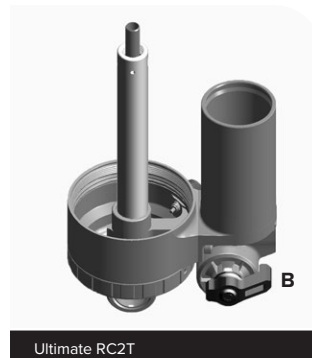
Ultimate RC2T pictured: Procedure is the same for all models.



Ultimate RC2T, Ultimate DH RC2, Select+ RT, Select R

Ultimate RC2T: Confirm the (B) lever is rotated to the open position. Confirm the compression adjuster is rotated to the full counter-clockwise open position.

Ultimate RC2T, Ultimate DH RC2: Confirm the (C) compression adjuster is rotated to the full counter-clockwise open position.



Ultimate RC2T



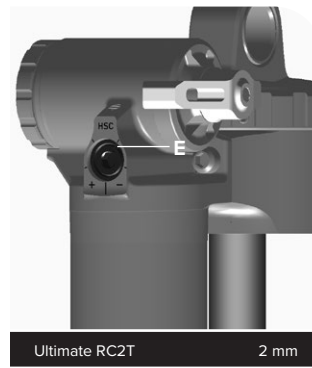
Ultimate RC2T, Ultimate DH RC2

Select+ RT: Confirm the (D) lever is rotated to the open position.



Select+ RT

Ultimate RC2T, Ultimate DH RC2: Confirm the (E) high speed compression adjuster (HSC) is rotated to the full counter-clockwise open position.



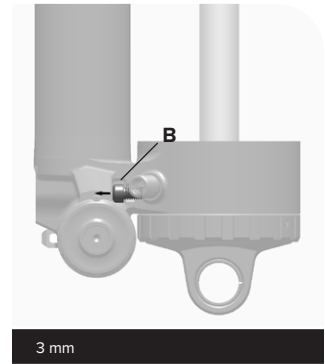
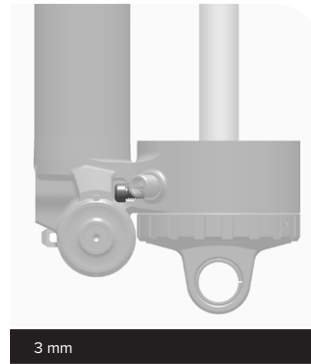
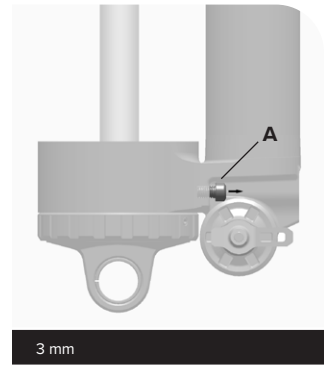
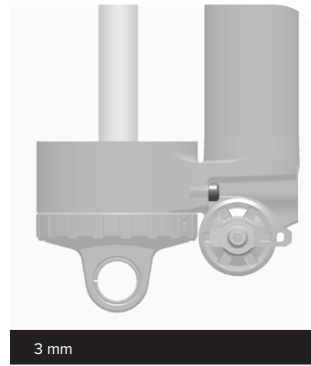
3 Select+ RT: Loosen the lever set screw.
Remove the lever.



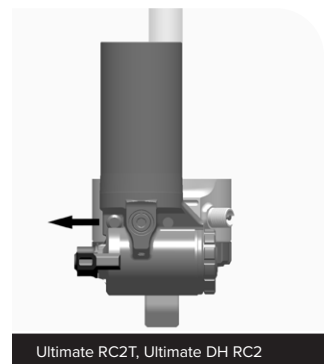
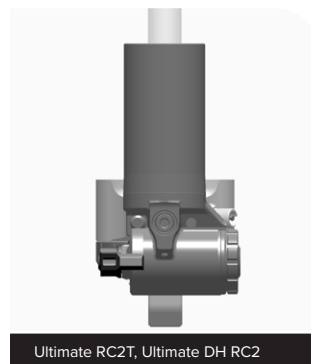
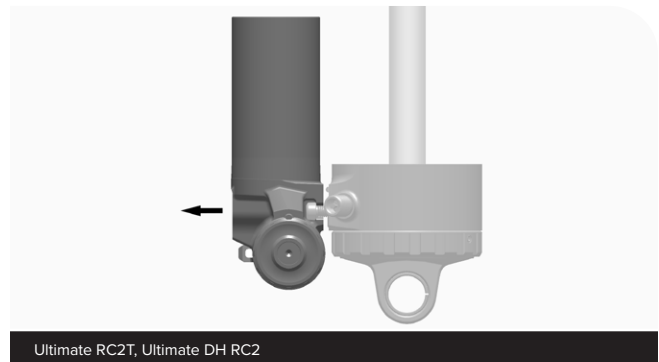
4 Ultimate RC2T, Ultimate DH RC2: Unthread the (A) exposed reservoir bolt (3 mm).

Unthread the (B) hidden reservoir bolt (3 mm).

Ultimate RC2T pictured: Procedure is the same for Ultimate DH RC2.



Lift the reservoir assembly away from the eyelet and slide it to the left until the slotted bolt groove in the neck clears the hidden reservoir bolt head.

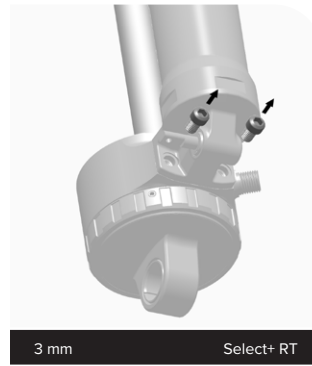


Remove the reservoir assembly and reservoir bolt.

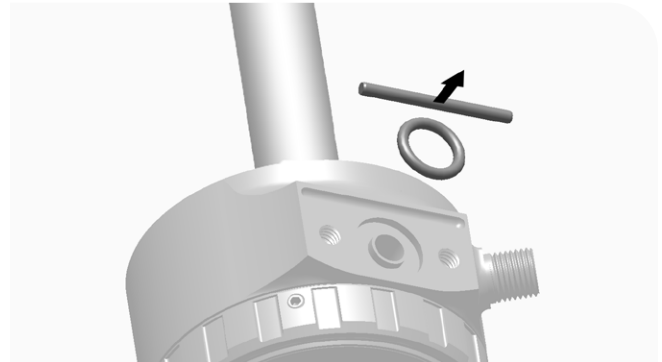
Remove the remaining reservoir bolt.



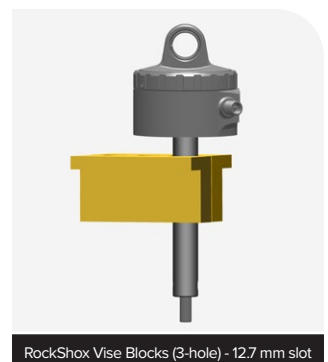
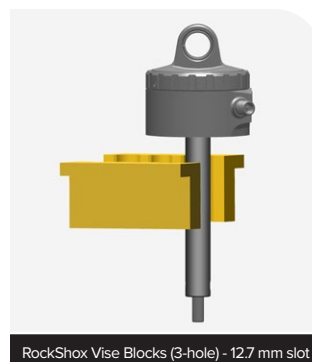
Select+ RT, Select R: Remove each reservoir bolt.
Remove the reservoir assembly from the eyelet.



5 Remove the alignment pin and reservoir o-ring.
Clean them and set them aside.

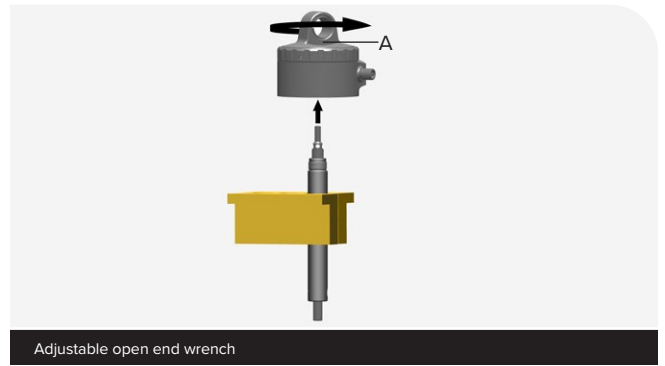


6 Clamp the damper shaft in a vise with RockShox Vise Blocks (3-hole) (12.7 mm slot), threads down, just below the eyelet.

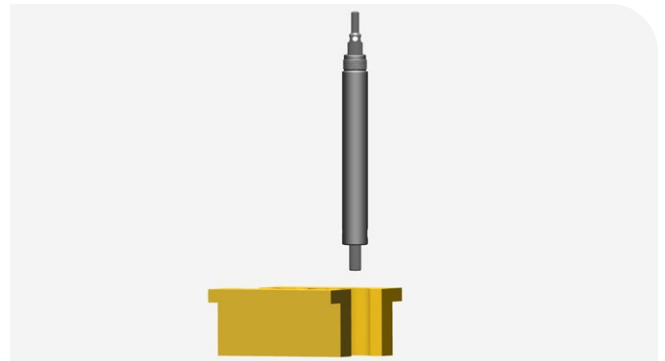


- 7** Secure the wrench on the (standard, bearing, or trunnion) eyelet mount flats (A). Unthread and remove the eyelet assembly from the damper shaft assembly.

Eyelet	Wrench
Standard	13 mm
Bearing	29 mm
Trunnion	54 mm



- 8** Remove the damper shaft assembly from the vise and vise blocks and set it aside.



- 9** **If re-using the eyelet assembly:** Clean the eyelet damper shaft threads with a clean shop towel. Remove any loose (A) thread patch.

Do not spray isopropyl alcohol or cleaner into the eyelet. Tap the eyelet on a flat surface to remove any loose bits of thread patch as needed.

If replacing eyelet assembly: Discard the eyelet assembly.

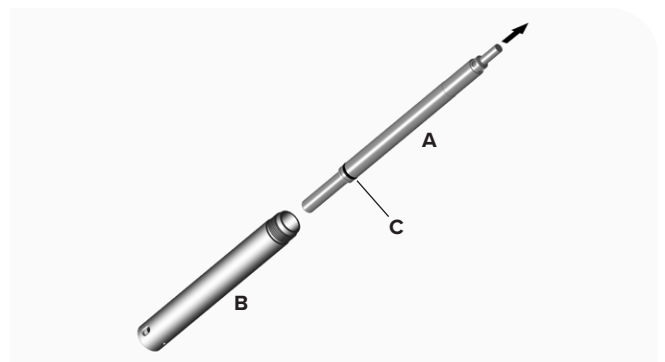


- 10** **If the damper shaft will be replaced:** Discard the damper shaft and needle assembly.

Original and new damper shaft assemblies: Remove the (A) needle assembly from the (B) damper shaft. Clean the damper shaft.

Original damper shaft: There should be thread patch adhesive that remains on the shaft threads after removal. Do not clean or add additional thread patch to the shaft threads.

Clean the needle assembly and the (C) o-ring.



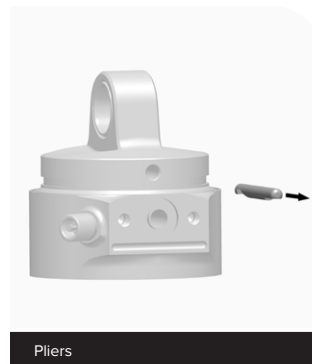
11 **New eyelet assembly and original eyelet assembly:** Loosen each rebound adjuster set screw. Do not remove the set screws.



12 Carefully lift the rebound adjuster ring, and upper rebound adjuster ring seal, up and off of the eyelet. Remove the lower rebound adjuster ring seal.



13 Remove the rebound adjuster detent pin. Remove the rebound adjuster detent spring. Tap the eyelet lightly on a flat surface to remove the detent spring.



Install Super Deluxe Rebound Rod Sizing Pin

The rebound rod sizing pin must be installed into the eyelet, before reassembly, to ensure the rebound needle assembly inside the damper shaft is pressed to the correct position when the damper shaft and piston assembly are tightened to the specified torque.

The Sizing Pin replaces the rebound adjuster detent spring and pin in the eyelet during assembly and torque procedures. When the Sizing Pin is removed, and the rebound adjuster detent spring and pin are reinstalled, the needle assembly is set to the correct position in the eyelet, which ensures the range of rebound adjustment is accurate after assembly.



Super Deluxe Rebound Rod Sizing Pin

50.8 mm x 3.05 mm



Super Deluxe Rebound Rod Sizing Pin



Super Deluxe Rebound Rod Sizing Pin

- 1 Insert the Super Deluxe rebound rod sizing pin into the detent spring and pin slot in the eyelet. Push it in until it stops.



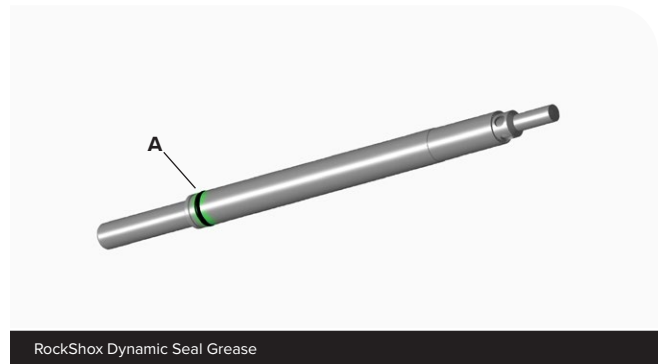
Deluxe Rebound Rod Sizing Pin



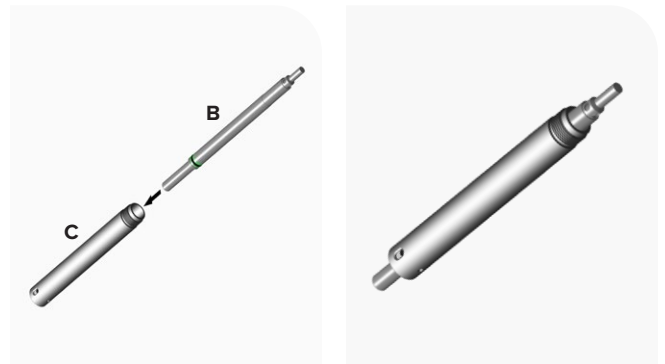
Deluxe Rebound Rod Sizing Pin

1 New damper shaft and new rebound needle assembly: Remove the rebound needle assembly from the damper shaft if it is installed in the kit.

New and original damper shaft and rebound needle assemblies:
Apply grease to the adjuster needle (A) o-ring.



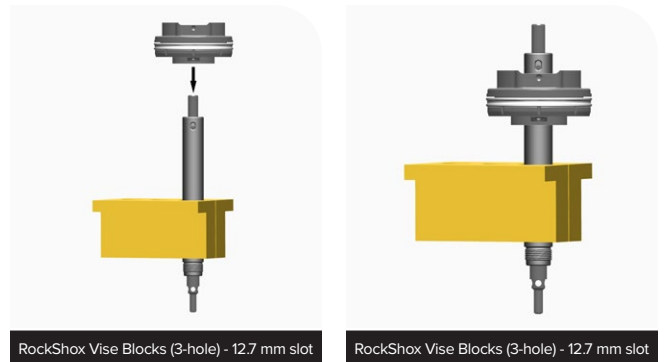
Install the (B) rebound needle assembly, o-ring end first, into the (C) damper shaft. Push the needle assembly into the damper shaft until it stops.



2 Clamp the damper shaft into a vise with RockShox Vise Blocks (3-hole) (12.7 mm slot), just above the damper shaft threads.

Install the seal head onto the damper shaft.

Refer to the *2023 Super Deluxe (C1) Service Manual* for detailed seal head installation procedures, specifications, and required tools.

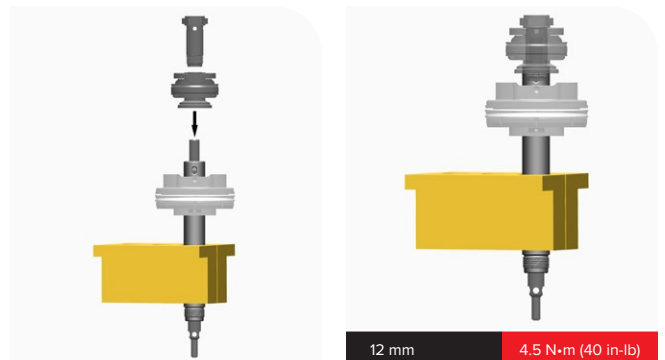


3 Install the piston assembly and piston bolt (12 mm socket) onto the damper shaft.

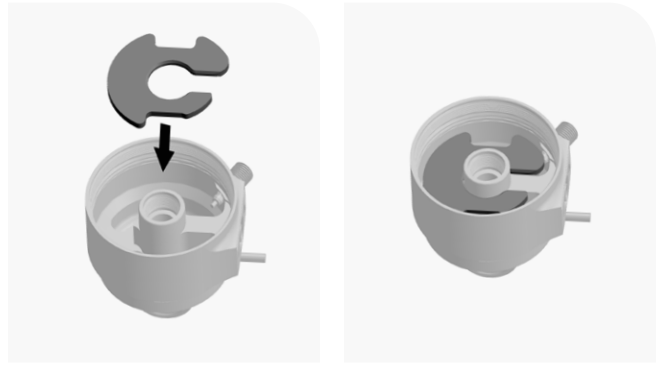
Refer to the *2023 Super Deluxe (C1) Service Manual* for detailed piston installation procedures, specifications, and required tools.

Note: When the piston bolt is tightened to the specified torque, the needle assembly will be sized to the correct position inside the damper shaft. This step is critical for proper damper function.

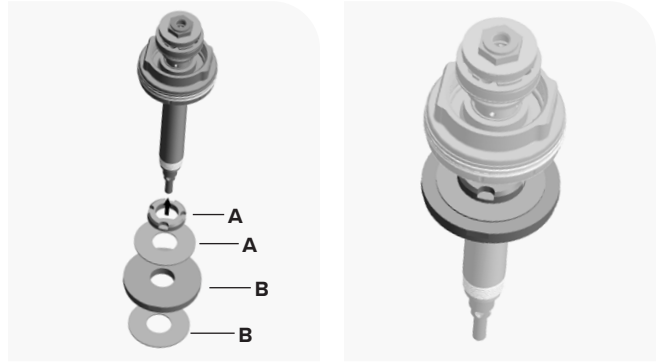
Remove the damper shaft from the vise blocks.



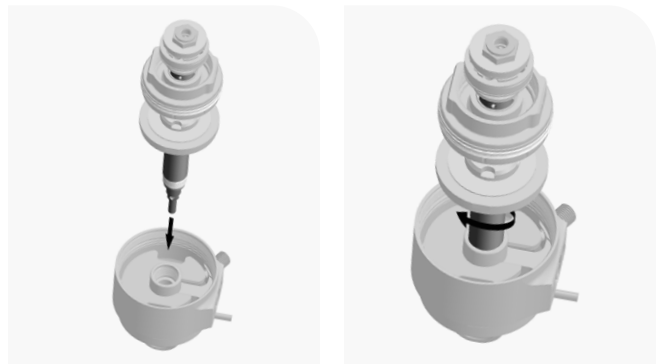
4 Install the Bottomless Token(s), if previously installed, into the eyelet.



5 Install the (A) bottom out bumper and washer, and the (B) travel limiter and washer (if previously installed), in that order, onto the damper shaft.



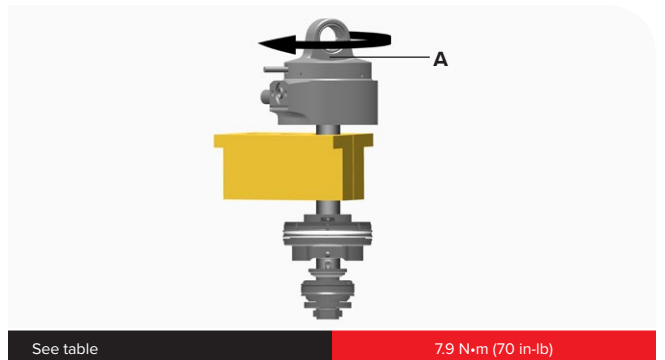
6 Insert the damper shaft assembly, needle first, into the eyelet. Seat the needle and thread the damper shaft assembly into the eyelet by hand until it stops.



7 Clamp the damper shaft into a vise with RockShox Vise Blocks (3-hole) (10 mm slot), just below the eyelet.

Secure a crowfoot wrench on the (A) eyelet mount flats (standard, trunnion, or bearing). Tighten the eyelet to the specified torque.

Eyelet	Crowfoot
Standard	13 mm
Bearing	29 mm
Trunnion	54 mm

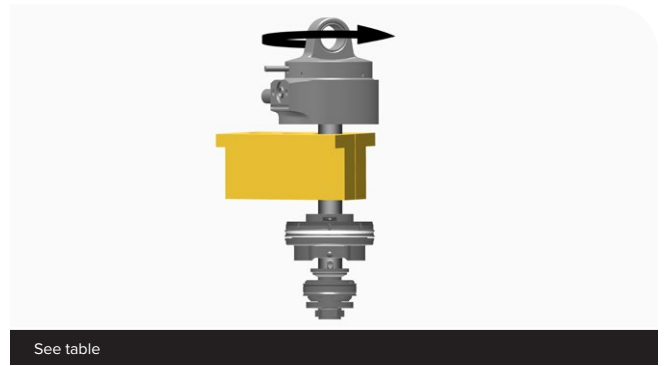


See table

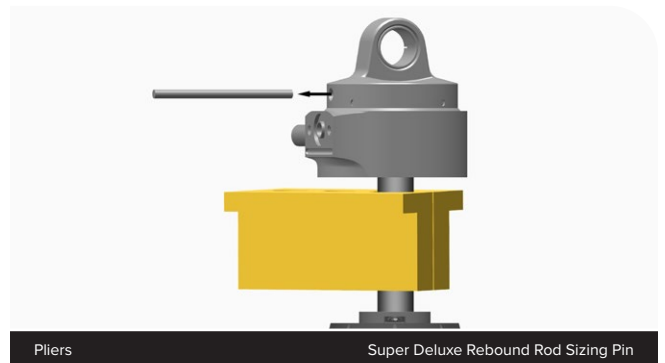
7.9 N·m (70 in-lb)

- 8 Rotate the eyelet counter-clockwise just enough to break the eyelet free from the damper shaft so the rebound rod sizing pin can be removed.

Eyelet	Crowfoot
Standard	13 mm
Bearing	29 mm
Trunnion	54 mm

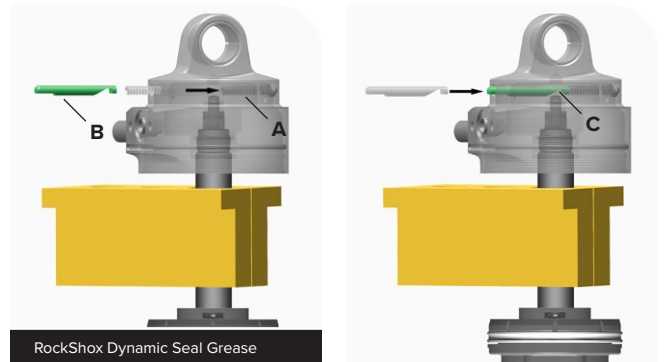


- 9 Remove the Super Deluxe rebound rod sizing pin from the eyelet.



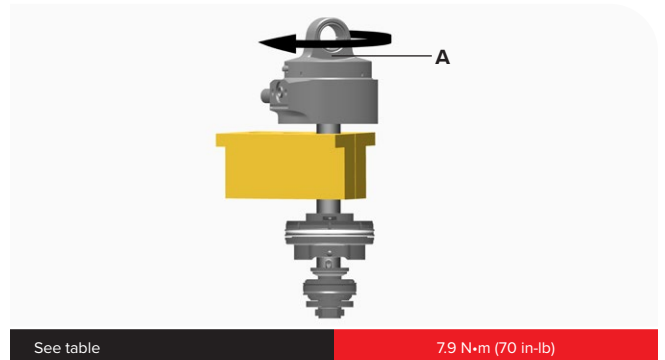
- 10 Install the rebound adjuster (A) detent spring.

Apply grease to the (B) rebound adjuster detent pin. Install the detent pin oriented as pictured, with the (C) hook groove toward the damper shaft.

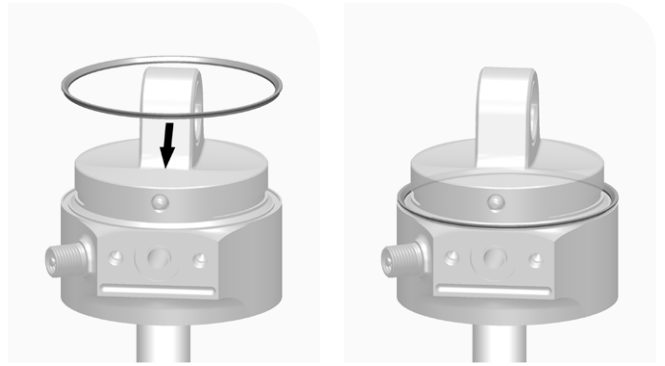


- 11 Secure a crowfoot wrench on the (A) eyelet mount flats (standard, trunnion, or bearing). Tighten the eyelet to the specified torque **again**. Remove the damper assembly from the vise and vise blocks.

Eyelet	Crowfoot
Standard	13 mm
Bearing	29 mm
Trunnion	54 mm

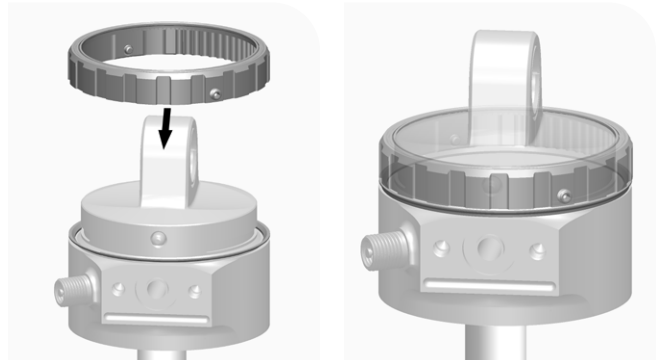
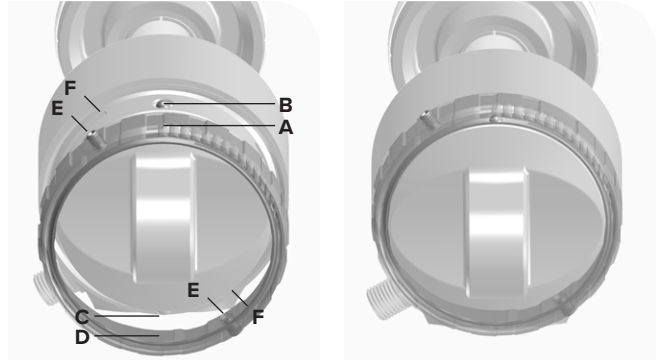


12 Install the lower rebound adjuster ring seal.



13 Orient the rebound adjuster ring with the adjuster ring detent (A) stop aligned with the (B) detent ball, the (C) detent pin with the adjuster ring (D) stop, and the rebound adjuster ring (E) set screws aligned with the set screw (F) slide stops.

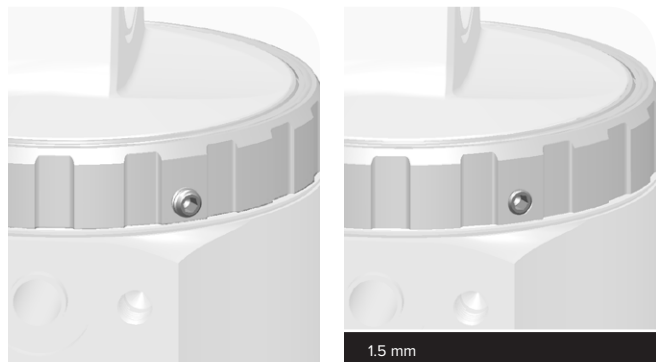
When installed, the rebound adjuster should be in the full-open position.



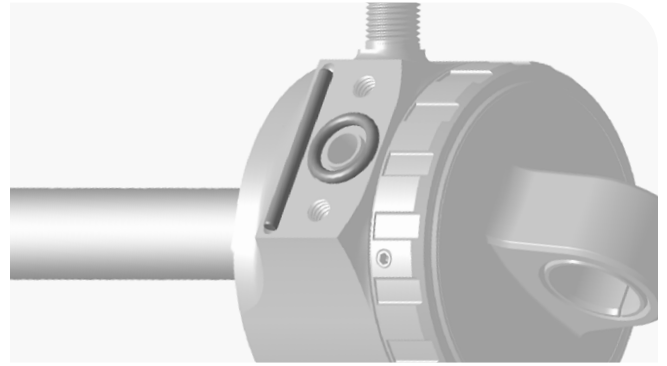
14 Tighten each rebound adjuster set screw and stop when the top of each set screw is flush with the rebound adjuster. The adjuster should be able to rotate freely and should not be able to be removed.

When rotated clockwise, the full range of rebound clicks should be available.

Rotate the adjuster and test the range before tightening the set screws. The number of rebound clicks should be equal to the number of clicks before the shock was disassembled.



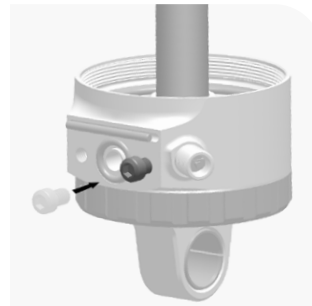
15 Install the reservoir o-ring and alignment pin.



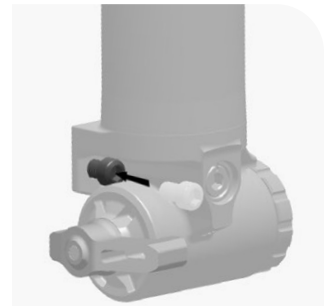
16 **Ultimate RC2T, Ultimate DH RC2:** Thread the reservoir bolt closest to the air valve, into the eyelet until the bolt head is about 3 mm from contacting the eyelet.

Insert the other reservoir bolt into the bolt hole in the reservoir neck until the bolt head clears the lever cap.

Ultimate RC2T pictured: Procedure is the same for Ultimate DH RC2.



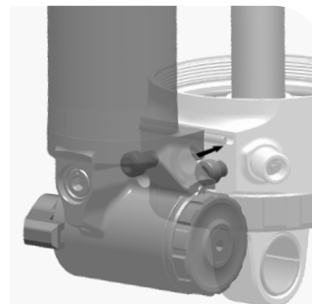
Ultimate RC2T, Ultimate DH RC2



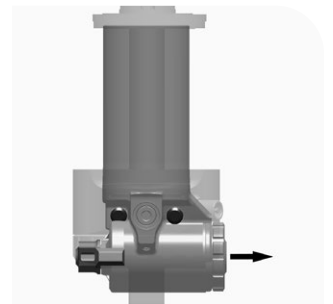
Ultimate RC2T, Ultimate DH RC2

Position the slotted bolt groove in the reservoir neck around the reservoir bolt head, slide the reservoir to the right, and install the reservoir neck onto the eyelet.

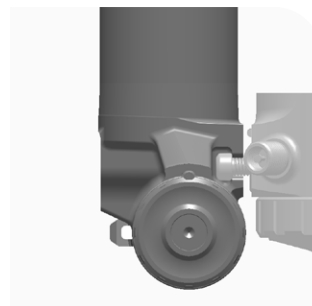
Install the other reservoir neck bolt and thread it into the eyelet until it contacts the reservoir neck. Thread the hidden bolt into the eyelet until it contacts the reservoir neck.



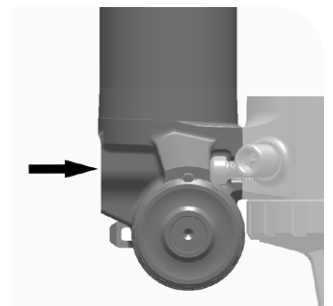
Ultimate RC2T, Ultimate DH RC2



Ultimate RC2T, Ultimate DH RC2



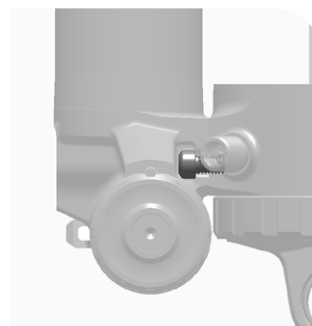
Ultimate RC2T, Ultimate DH RC2



Ultimate RC2T, Ultimate DH RC2

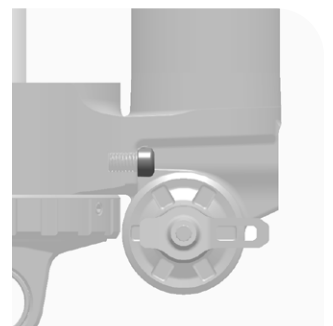
Ultimate RC2T, Ultimate DH RC2: Tighten each bolt to the specified torque.

Ultimate RC2T pictured: Procedure is the same for Ultimate DH RC2.



3 mm

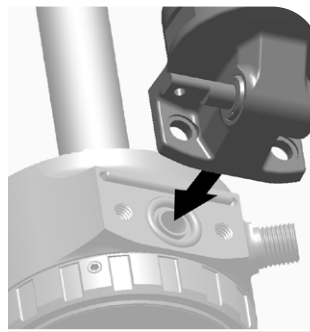
2.8 N·m (25 in·lb)



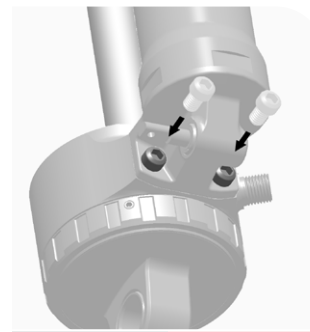
3 mm

2.8 N·m (25 in·lb)

- 17** **Select+ RT, Select R:** Install the reservoir assembly onto the eyelet.
Install and tighten each reservoir bolt.

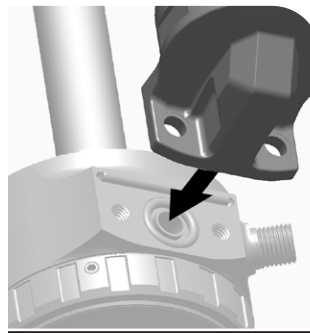


Select+ RT

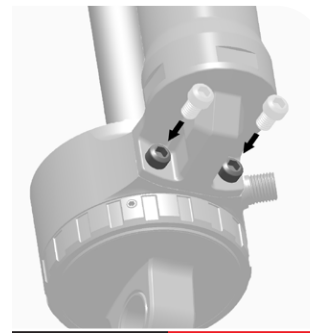


3 mm

2.8 N·m (25 in-lb)



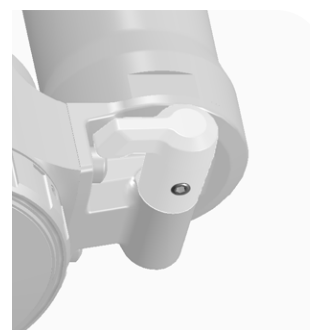
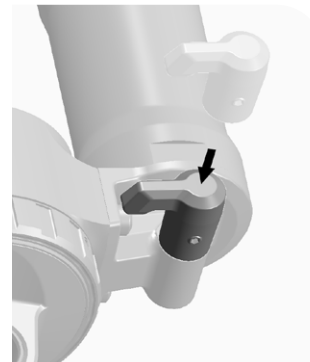
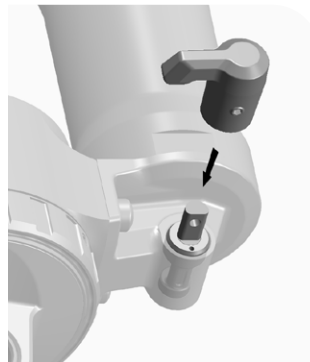
Select R



3 mm

2.8 N·m (25 in-lb)

- 18** **Select+ RT:** Install the lever in the open position.
Tighten the lever set screw to the specified torque.



1.5 mm

0.73 N·m (6.5 in-lbs)

To continue reassembly, refer to the *2023 Super Deluxe (C1) Service Manual* beginning with the **Shock Assembly and Bleed** section.

Super Deluxe Coil (B1)

The procedures in this section are not included in the *2023 Super Deluxe Coil (B1) Service Manual*.

Prior to beginning, follow the disassembly procedures in the **Damper and IFP Service** section of the *2023 Super Deluxe Coil (B1) Service Manual* through seal head removal.

Parts, Tools, and Supplies

Parts

- 2023 Deluxe Coil (B1) / Super Deluxe Coil (B1) damper shaft/eyelet assembly
- 2023 Super Deluxe Coil (B1) damper body and eyelet assembly
- 2023 Super Deluxe (C1) / Super Deluxe Coil (B1) reservoir assembly
- 2023 Super Deluxe Coil (B1) - Travel Reducer/Spacer (optional stroke/travel change)
- 2023 Super Deluxe Coil (B1) - Damper Shaft Bottom Post (optional stroke/travel change)
- 2023 Super Deluxe Coil (B1) - Bottom Out Bumper (optional stroke/travel change)

Common Tools

- Bench vise
- Hex bit socket: 1.5, 3 mm
- Hex wrench: 1.5, 3 mm
- Torque wrench

Safety and Protection Supplies

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

Lubricants and Fluids

- RockShox Suspension Cleaner or isopropyl alcohol
- RockShox Dynamic Seal Grease
- Loctite Threadlocker Blue 242

RockShox Tools

- RockShox shock pump

SAFETY INSTRUCTIONS

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

Torque Values

Deluxe	Tool	Torque
Bolts - Reservoir Neck to Eyelet	3 mm Hex bit socket	2.8 N•m (25 in-lb)
Lever Screw - Lever to Cam - Select+ RT, Ultimate RCT	1.5 mm Hex bit socket	0.73 N•m (6.5 in-lb)

Shock Stroke / Travel Change

Shock (A) stroke and travel change are possible within the same (B) eyelet to eyelet shock length by replacing the (C) shaft bottom post and the (D) travel reducer.

The damper shaft does not need to be replaced. The (E) bottom out bumper can be replaced with a different height, but bottom out bumper replacement is optional.

Example - Super Deluxe Coil B1 (standard eyelets)

To reduce shock stroke from 190 mm x 45 mm to 190 mm x 37.5 mm, the (C) shaft bottom post and (D) travel reducer must be replaced.

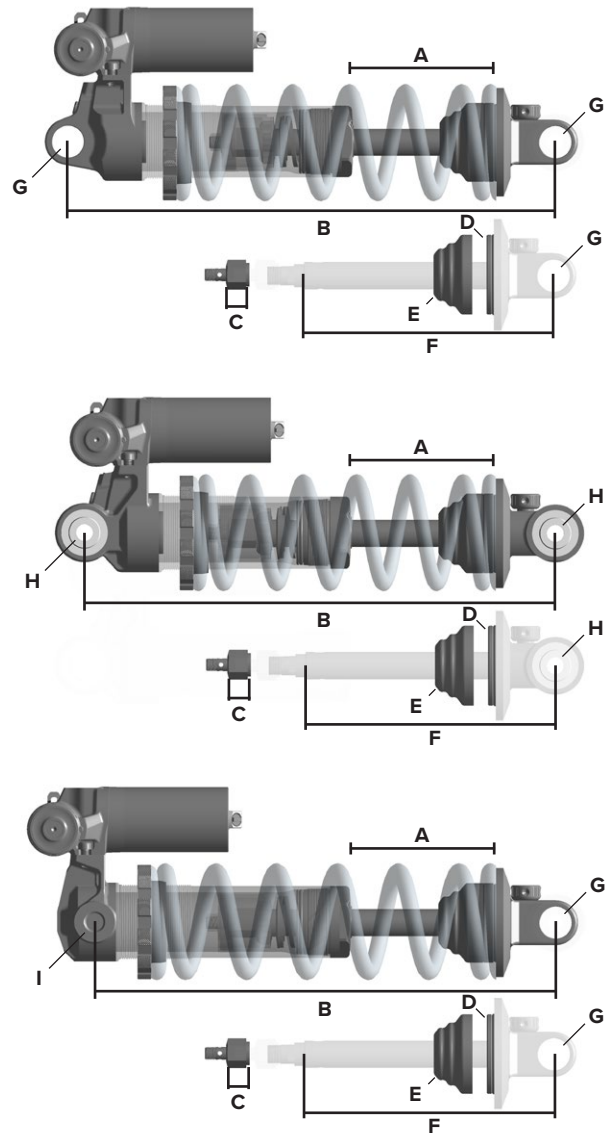
Stroke cannot be increased to 50 mm, for example. 50 mm stroke is only compatible on a shock with 210 mm eyelet to eyelet length (standard eyelets) because the damper body and damper shaft are specific to shock length and stroke.

NOTICE

To avoid permanent damage, do not attempt to change travel if the stroke measurement is outside of the damper body eyelet to eyelet size.

Refer to the table below for eyelet to eyelet shock length and spare part kits and compatibility. Ensure all parts used to change travel are compatible with eye to eye and (F) damper shaft length, as specified in the spare part kit descriptions and the table below.

Refer to the *RockShox Spare Parts Catalog* for available spare part kits.



Eyelet to Eyelet and Stroke				Required Travel Change Spare Parts			Optional
(B) Eyelet to Eyelet (mm) Damper Body Eyelet (mm) (G) Standard (H) Bearing	(B) Eyelet to Eyelet (mm) Damper Body Eyelet (mm) (I) Tunnon	(A) Shock Stroke (mm)	(F) Damper Shaft Length (mm)	Shaft Bottom Post		(D) Travel Reducer - Thickness (mm)	(E) Bottom Bumper - Height (mm)
				(C) Height (mm)	Post Code		
190	165	37.5	97	11	110	7.5	15
		40		9	090	5	
		42.5		7.25	070	2.5	
		45		7.25	070	no spacer	
210	185	47.5	107	13	130	7.5	15
		50		11	110	5	
		52.5		9	090	2.5	
		55		7.25	070	no spacer	
230	205	57.5	117	15	150	7.5	18
		60		13	130	5	
		62.5		11	110	2.5	
		65		9	090	no spacer	
250	225	67.5	127	15	150	7.5	21
		70		15	150	5	
		72.5		13	130	2.5	
		75		11	110	no spacer	

Disassembly - Damper Shaft and Eyelet

Follow the disassembly steps **Damper and IFP Service** section of the *2023 Super Deluxe Coil (B1) Service Manual*, through bottom out bumper removal.

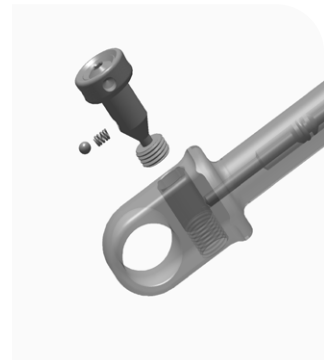
If replacing the damper shaft/eyelet assembly, remove the rebound adjuster, discard the original damper shaft, and continue with a new damper shaft.



- 1 The rebound adjuster must be fully threaded into the eyelet to free the rebound needle for removal.

Rotate the rebound adjuster clockwise until it stops, then rotate it counter-clockwise to unthread and remove it from the eyelet.

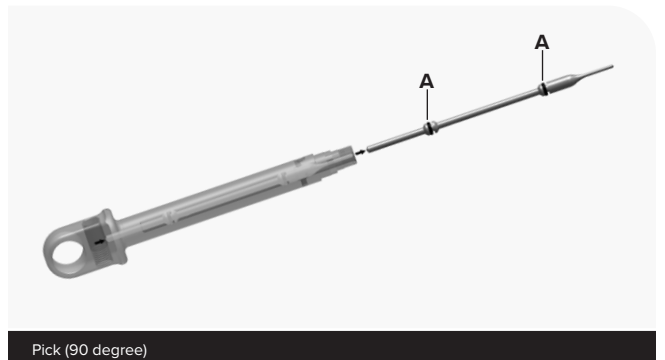
Cover the adjuster shaft when it is unthreaded to capture the detent ball and detent spring.



- 2 Use a 90 degree pick to push the rebound needle up and out of damper shaft. The rebound needle should protrude from the threaded end of the damper shaft.

Remove the rebound needle from the damper shaft.

Clean the rebound needle and the (A) o-rings.



Pick (90 degree)

Assembly - Damper Shaft and Eyelet

1 If the detent ball and spring were removed from the rebound adjuster, install them back into the adjuster.

Apply grease to the rebound adjuster threads.

Install the detent spring. Apply grease on top of the detent spring to capture the detent ball. Install the detent ball into the rebound adjuster, on top of the detent spring.



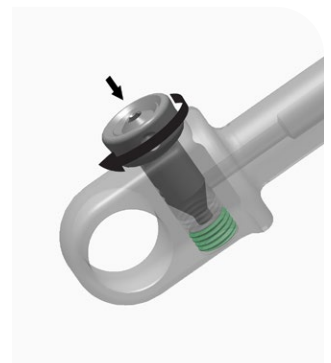
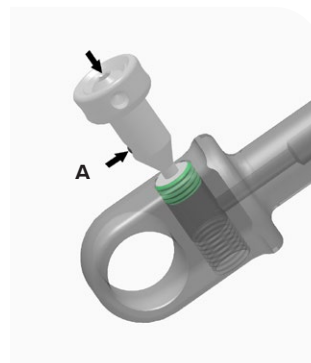
RockShox Dynamic Seal Grease



RockShox Dynamic Seal Grease

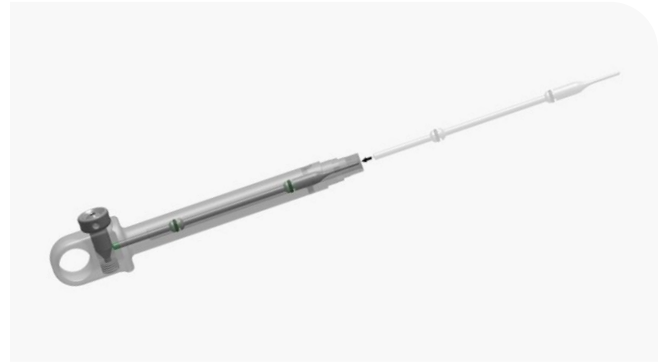
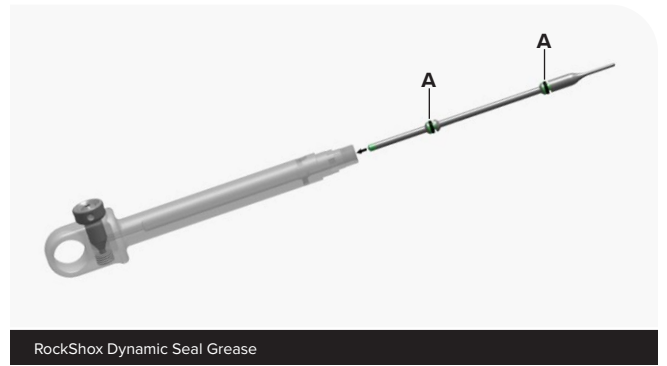


2 Install the rebound adjuster while pushing the (A) detent ball in, to clear the edge of the rebound adjuster hole in the eyelet. Once clear, install the adjuster and thread it into the eyelet six full turns.



3 Apply grease to the rebound needle (A) o-rings. Apply grease to the end of the needle.

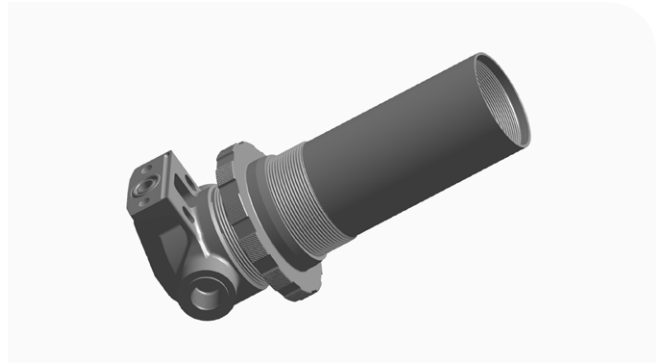
Install the rebound needle into the new damper shaft. Push the rebound needle in until it stops.



Continue with assembly procedures in the *2023 Super Deluxe Coil (B1) Service Manual* beginning with seal head assembly installation.

Damper Body and Eyelet

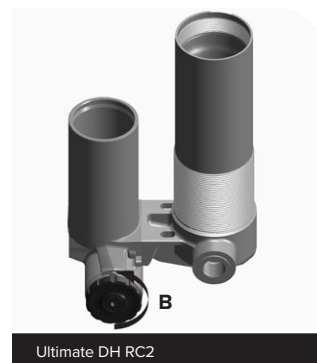
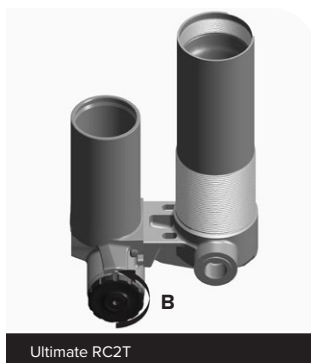
If a new damper body and eyelet assembly is installed, follow disassembly steps through damper shaft assembly removal in the *2023 Super Deluxe Coil (B1) Service Manual*.



1 **Ultimate RC2T:** Confirm the (A) lever is rotated to the open position.



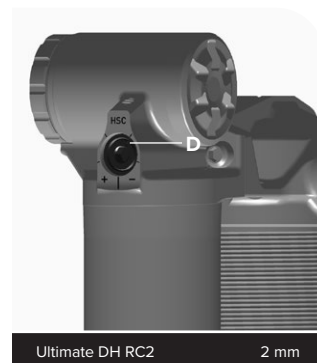
Ultimate RC2T, Ultimate DH RC2: Rotate the (B) compression adjuster full counter-clockwise to the open position.



Select+ RT: Confirm the (C) lever is rotated to the open position.



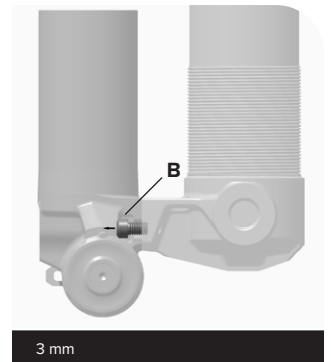
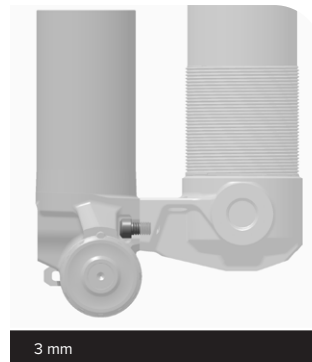
Ultimate RC2T, Ultimate DH RC2: Confirm the (D) high speed compression adjuster (HSC) is rotated to the full counter-clockwise open position.



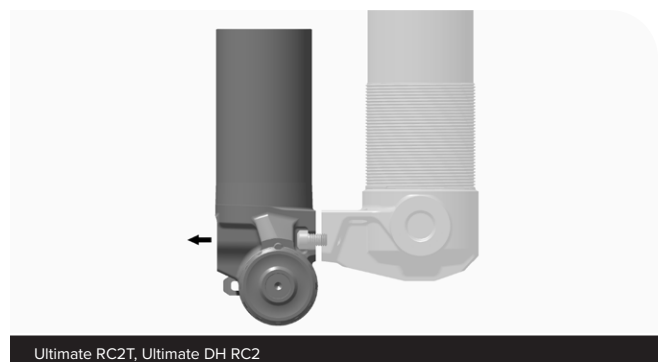
- 2** **Select+ RT:** Loosen the lever set screw.
Remove the lever.



- 3** **Ultimate RC2T, Ultimate DH RC2:** Unthread the (A) exposed reservoir bolt (3 mm).
Unthread the (B) hidden reservoir bolt (3 mm).
Ultimate RC2T pictured: Procedure is the same for Ultimate DH RC2.



Lift the reservoir assembly away from the eyelet and slide it to the left until the slotted bolt groove in the neck clears the hidden reservoir bolt head.



Remove the reservoir assembly and reservoir bolt.
Remove the remaining reservoir bolt.



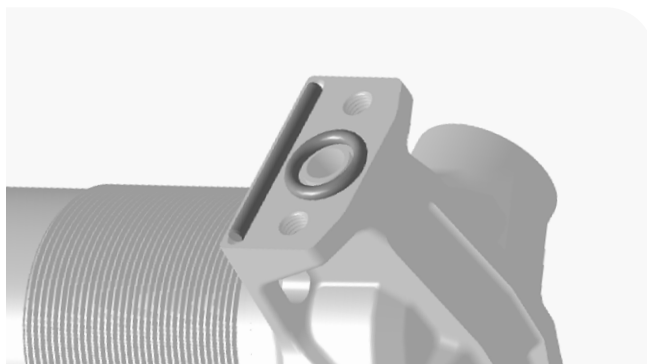
Select+ RT, Select R: Remove each reservoir bolt.
Remove the reservoir assembly from the eyelet.



4 Remove the alignment pin and reservoir o-ring.



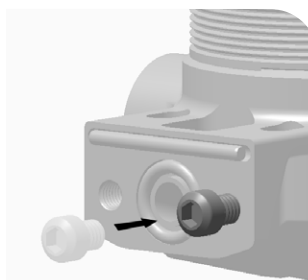
1 Install the reservoir o-ring and alignment pin.



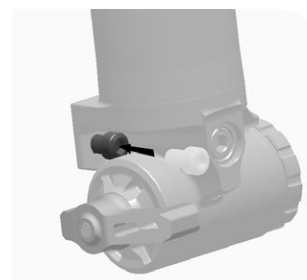
2 **Ultimate RC2T, Ultimate DH RC2:** Thread the reservoir bolt closest to the air valve, into the eyelet until the bolt head is about 3 mm from contacting the eyelet.

Insert the other reservoir bolt into the bolt hole in the reservoir neck until the bolt head clears the lever cap.

Ultimate RC2T pictured: Procedure is the same for Ultimate DH RC2.



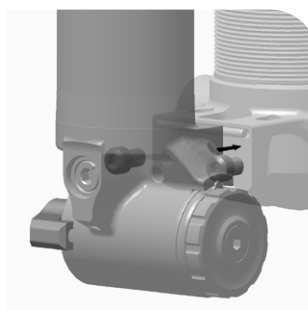
Ultimate RC2T, Ultimate DH RC2



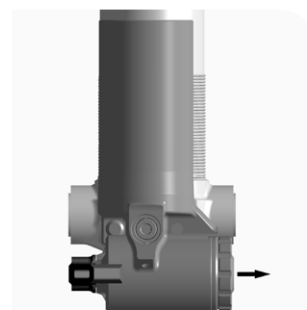
Ultimate RC2T, Ultimate DH RC2

Position the slotted bolt groove in the reservoir neck around the reservoir bolt head, slide the reservoir to the right, and install the reservoir neck onto the eyelet.

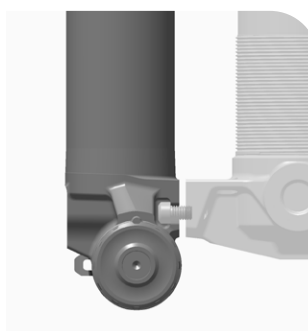
Install the other reservoir neck bolt and thread it into the eyelet until it contacts the reservoir neck. Thread the hidden bolt into the eyelet until it contacts the reservoir neck.



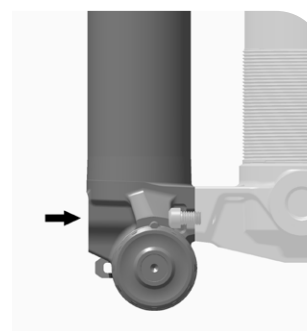
Ultimate RC2T, Ultimate DH RC2



Ultimate RC2T, Ultimate DH RC2



Ultimate RC2T, Ultimate DH RC2



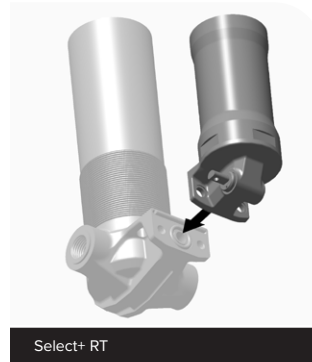
Ultimate RC2T, Ultimate DH RC2

Ultimate RC2T, Ultimate DH RC2: Tighten each bolt to the specified torque.

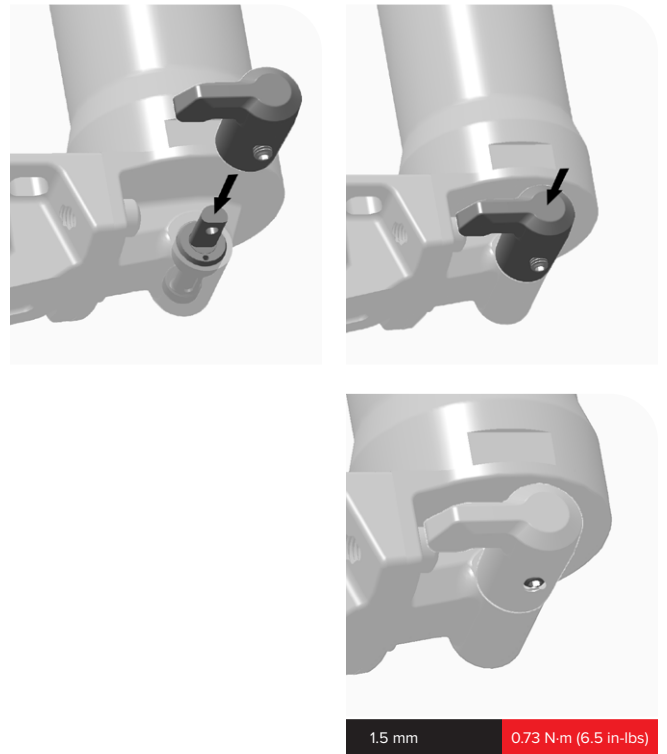
Ultimate RC2T pictured: Procedure is the same for Ultimate DH RC2.



3 Select+ RT, Select R: Install the reservoir assembly onto the eyelet. Install and tighten each reservoir bolt.



- 4** **Select+ RT:** Install the lever in the open position.
Tighten the lever set screw to the specified torque.



Proceed with assembly procedures in the *2023 Super Deluxe Coil (B1) Service Manual* after the reservoir assembly is installed.

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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