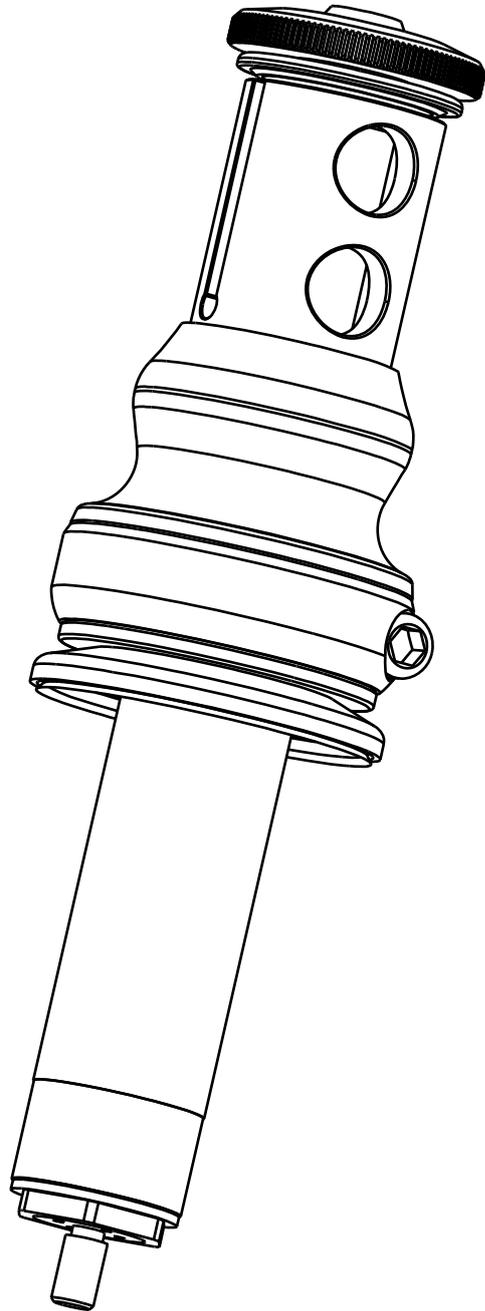


RST

Owner's Manual

ENGLISH

STEM SHOCK



CONGRATULATIONS on selecting an RST STEM SHOCK SYSTEM. You have chosen the best suspension components for your bicycle! This RST STEM SHOCK is fully assembled and ready to be installed onto your bicycle.

CAUTION

Proper care and maintenance of your Stem shock is necessary for longevity and optimum performance. Failing to perform routine maintenance will greatly decrease the performance of the product and may lead to premature deterioration or even failure of the product. Lack of maintenance may also jeopardize the safe operation of your Stem shock and will void the warranty.

GENERAL WARNING

This manual contains important information about the safe operation and maintenance of your Stem shock. Reading this manual entirely, and properly maintaining your bicycle and Stem shock is essential. To ensure that your RST fork performs properly, we recommend that you have your Stem shock installed by a qualified bicycle mechanic. Prior to riding your bicycle, you should inspect your Stem shock to ensure that no damage has occurred during the course of riding. Do not ride your bicycle if the fork shows any signs of bending, cracking, leaking, or if it is missing any of the original supplied components. Any fall from your bicycle can result in serious injury or even death. Following these instructions can help you reduce the risk of being injured. We recommend returning your Stem shock to your dealer or an authorized service center annually for a thorough inspection and service.

CONSUMER SAFETY INFORMATION

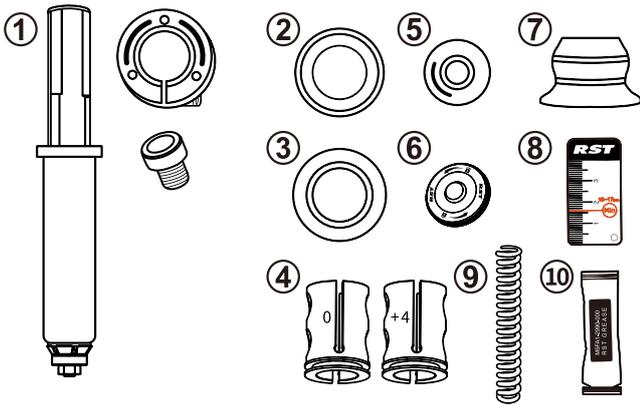
1. Never try to open of the STEM SHOCK suspension body.
2. Any alteration or modification to your fork should be considered unsafe and will void the warranty. Contact your dealer, RST USA warranty service center or RST Europe prior to modifying your STEM SHOCK in any way for safety information.
3. Do not use an RST STEM SHOCK if any parts are broken, bent, cracked, or you suspect may be damaged. Contact your dealer, RST USA warranty service center or RST Europe, if you have any question concerning the integrity or condition of your STEM SHOCK.
4. RST recommends that you inspect your STEM SHOCK before every ride for wear and damage. Please pay particular attention to the stem shock base and the body / square axle under the shock boot for any sign of cracks, bending or damage.

INSTALLATION INSTRUCTION

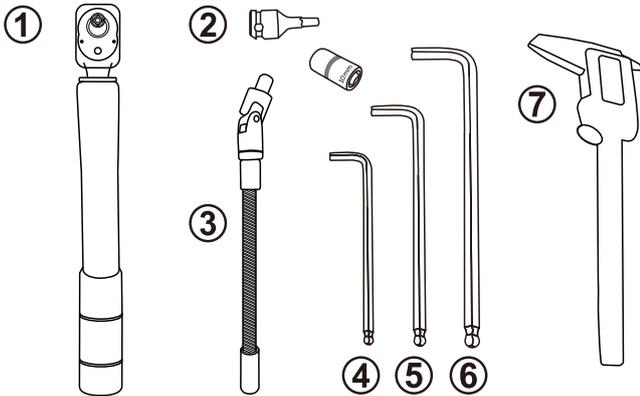
It is extremely important that your RST STEM SHOCK is installed correctly by a qualified bicycle mechanic. Improperly installed STEM SHOCKS are extremely dangerous and can result in serious and/or fatal injuries. Ensure that the steer tube of the fork where you want to install the STEM SHOCK to is compatible with the STEM SHOCK system. The original steer tube of your installed fork will need to be cut to a shorter length to fit your STEM SHOCK- > this means the installation of the STEM SHOCK is irreversible! If you are not familiar with this procedure, or do not have proper tools to cut the steerer tube, it is recommended that you seek a dealer with a qualified bicycle mechanic to perform installation.

INSTALLATION INSTRUCTION

1 Parts delivered in the RST STEM SHOCK AM package needed for installation :

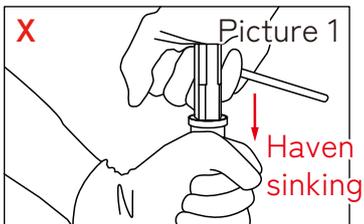
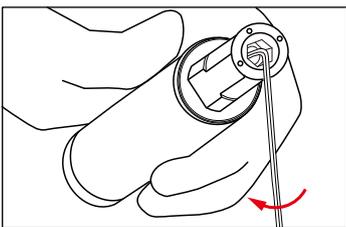


- ① The Stem Shock Body
STEM SHOCK Steerer Clamp
Top bolt
- ② Stem Base
- ③ Aluminum Cover
- ④ Stem Adaptor Sleeve 0 and 4 degrees
- ⑤ A-Head Cap
- ⑥ Lockout Knob
- ⑦ Shock Boot
- ⑧ Paper Ruler
- ⑨ Hard Spring (2.4K)
- ⑩ RST Genuine
Stem Shock Grease (5ml)



2 Required tools :

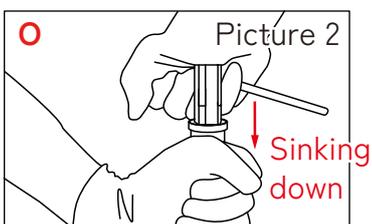
- ① Torque wrench (5~15Nm)
- ② Hex socket #5
- ③ Extension Hex socket #6
- ④ Allen Key #2
- ⑤ Allen Key #4
- ⑥ Allen Key #5
- ⑦ Vernier caliper

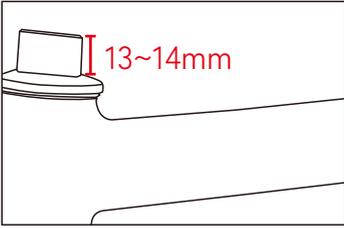
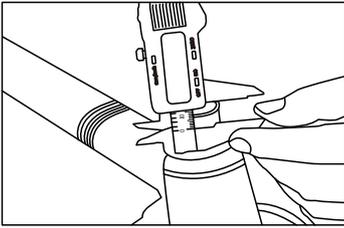


3 Factory setting is the lock out mode.

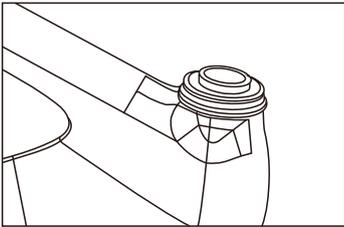
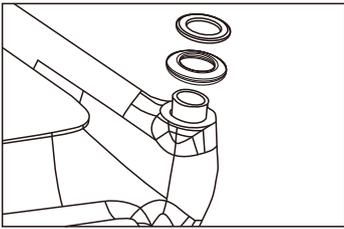
How to unlock : Use #4 insert to the Hex of body, press down and turn it 85° clockwise.

Note : push down the Stem Shock and test if it is moving / unlocked successfully. (Picture 2)

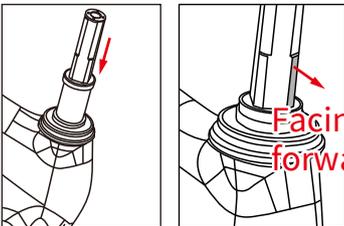




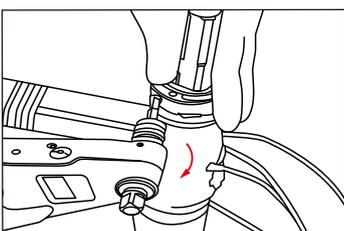
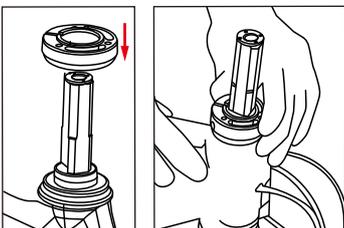
- 4 Before installation, please shorten the steerer of the fork to 13 ~ 14 mm of length above the fully installed and compressed headset.



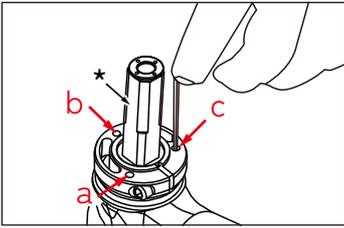
- 5 Install the Aluminum Cover④, then the Stem Base③ as shown in the photo.



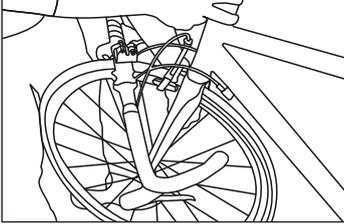
- 6 Slide the Stem Shock Body① into the fork's steerer. Please note that the chamfering needs to be facing forward as shown in the photo. This is very important for the maximum performance and safety of the assembly.



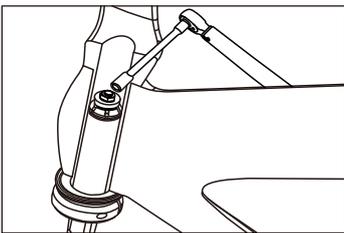
- 7 Assemble the Steerer Clamp② with the opening slot / clamping screws facing backward. Use the Torque wrench and Hex socket #5. Tighten the two fixing screws alternately - tightening torque 15 Nm.



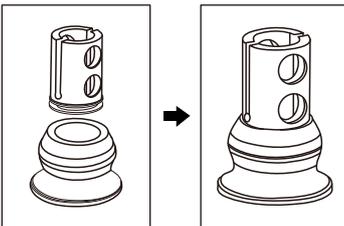
- 8 Use the Allen Key #2 ; alternately and evenly tighten the 3 grub screws inside the Steerer Clamp② to adjust the headset play.
*** Maintenance : Lube the marked (*) point on the steerer with a liberal amount of oil.**



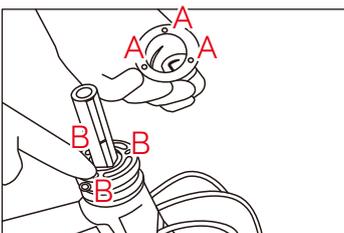
- 9 Check the headset play before assembling the stem and handlebar.



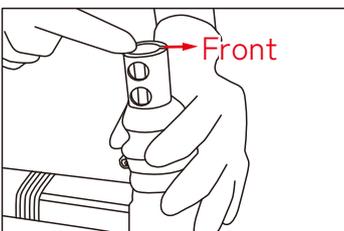
- 10 Turn the bike upside down - use an Extension Hex socket #6 to tighten the stem nut's M6 screw on the lower side of the STEM SHOCK Assembly clockwise with 4~5 Nm.

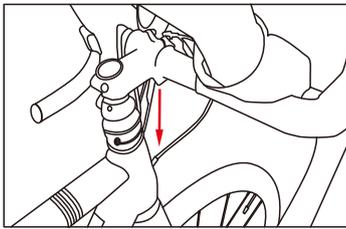


- 11 Slide the Shock Boot⑨ to the Stem Adaptor Sleeve⑤; two versions are inside the box: either the 0 or the 4 degree version - to vary the stem angle / handlebar height.

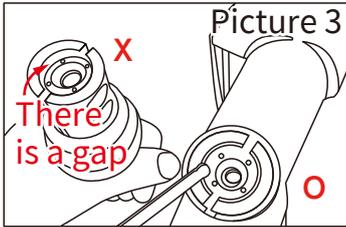


- 12 Put the Shock Boot⑨ on the Steerer Clamp②. The pins of the Shock Boot⑨ slide into the Steerer Clamp② holes. Please note: the slot of the Stem Adaptor Sleeve⑤ needs to face forward.

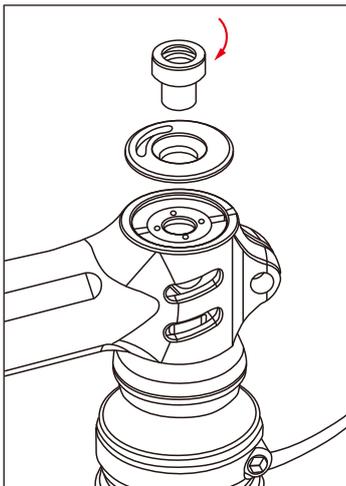




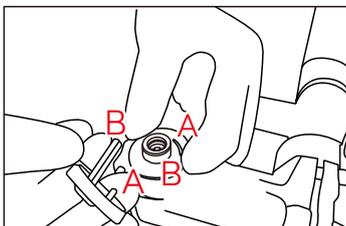
- 13** Install the stem and handle bar.
Press down the handle bar to check if the Stem Shock is still unlocked.



Please note : The assembly has not been successful if there is a gap in between the STEM SHOCK Body① and the Stem Adaptor Sleeve⑤ (left side of the pictogram). If installed correctly, there is not gap (right side of the pictogram).
Tighten the Stem according to the manufacturer's requirement and with not less than 5Nm of torque.



- 14** Install the Head Cap Screw⑦ into the Head Cap⑥.
Slightly tighten the screw clockwise - make sure the Head Cap⑥ is still adjustable / can still be rotated.

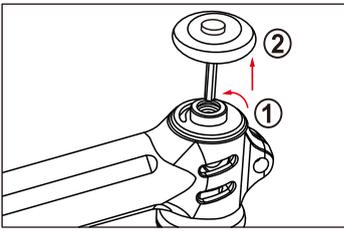


- 15** Insert the hex axle of the Lockout Knob⑧ into the hex counterpart of the Stem Shock Body①.

Insert the pin of the Lockout Knob⑧ into the groove of the Head Cap⑥ (A to A and B to B).

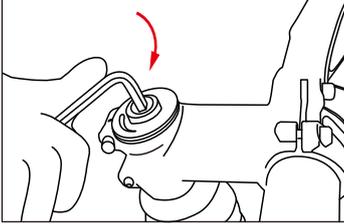


During installation you will hear a "clicking sound".



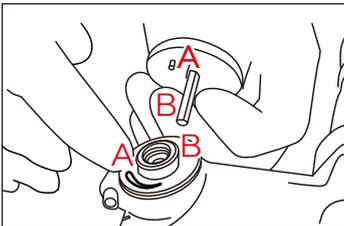
- 16** Lock out set up:
- ① Adjust the Lockout Knob^⑧ counterclockwise to the unlocked position.
 - ② Pull out Lockout Knob^⑧.

Please note: Do not move or rotate the Head Cap^⑥.

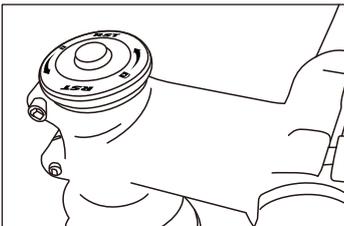


- 17** Use Allen Key #5 clockwise. Tighten the Head Cap^⑥ to 45°

Please note: Hold the Head Cap^⑥, keep it from rotating while tightening it.



- 18** Reinstall the Lockout Knob^⑧; please refer to step (15) .
The STEM SHOCK assembly is installed successfully, if a smooth switching between locked and open mode is possible.



IMPORTANT

Changing the suspension settings on the STEM SHOCK can change the handling and braking characteristics of your cycle. Do not change the adjustment until you are fully familiar with the instructions and recommendations. Always check for changes in handling or braking by taking a careful test ride in a safe environment after each adjustment.

IMPORTANT

1. We suggest you to use only the genuine RST STEM SHOCK grease for safety and performance reasons.
2. Please visit RST official website (www.rstsuspension.com) for further information.

GENERAL WARNING NOTE

As with all mechanical components, a bicycle is subject to wear and high stresses. Different materials and components may react to wear or stress fatigue in different ways. If the design life of a component had been exceeded, it may suddenly fail possibly causing injury to the rider. Any form of crack, scratches or changing of color in highly stressed areas may indicate that the life of the component has been reached and it should be replaced.

WARNING

1. Before disassembly of the “ function system” , it is strongly recommended to take it to an RST dealer. The authorized RST dealers will provide qualified technicians with proper tools and training to perform service correctly. Improper disassembly may damage the product and lead to failure of human injury.
2. Before completing maintenance, please make sure all screws have been securely tightened according the correct torque settings to avoid any human injury.
3. Take of stem shock, apply lubricant to fully cover graph B-12. Store in package. It could keep stem shock going well and anti-rust.

IMPORTANT

Servicing your STEM SHOCK requires no special tool.

RST strongly recommends this work should be done by a qualified mechanic with the proper tools. Improperly installed STEM SHOCK is extremely dangerous and can result in serious and/or fatal injuries.

Suggested maintenance and replacement / service intervals of parts as Follow			
Maintenance		Replacement/Service	
Stem Shock body	3 months	Steerer clamp	1year
		Aluminum cover	1year
		Shock Boot	1year

WARRANTY INFORMATION

Any RST STEM SHOCK found, by the factory, to be defective in materials and/or workmanship within two year from the date of purchase will be repaired or replaced at the option of the manufacturer, free of charge, when received at the factory with proof of purchase, freight prepaid. This warranty does not cover any STEM SHOCK that has been subject to misuse or abuse, including but not limited to, any breakage, bending, damage cause by crashes and/or assembly, improper maintenance, or other excessive, improper or abnormal conditions. This warranty does not cover paint damage.

Any modifications or alterations made by the user will render the warranty null and void. This warranty is expressly in lieu of all other warranties, and any implied are limited in duration to the same duration as the expressed warranty herein. RST shall not be liable for any incidental or consequential damages. In the event that a product needs to be replaced and is discontinued or not available, RST reserves the right to replace the product with one of equal value, no credit or refund will be issued.

This product is not intended for use in stunt or acrobatics riding, ramp jumping, or similar activities, the user assumes all risks of personal injury, product damage or failure, and any other losses which may arise under such use.

Safety Maintenance

Before every ride, please perform the following inspection :

1. Make sure the Stem Shock is firmly installed and adjusted correctly.
2. Wipe and clean parts and check if there are any obvious damages.
3. Apply lubricant amount of approve grease to coil spring and graph B-12as well as a tiny amount on the seal at the square axle. Only use RST genuine or approved grease as wrong as a grease could cause damage to the system and the seals as the performance. Please visit RSTsuspension.com to fined the technology information.
4. To ensure the STEM SHOCK optimum performance, we recommend regular lubrication with a suspension approved grease. Please log on RST website (www.rstsuspension.com) for maintenance manual information.

Performance maintenance

1. Inspect STEM SHOCK for damage such as cracks, abrasions, and normal wear. If any parts are found to be damaged or excessively worn in anyway, replace them immediately. Stop using this product until the damaged or worn parts have been replaced. If all the parts are in usable condition, proceed to step 2.
2. Apply a liberal amount of approved grease to the coil spring as well as a tiny amount onthe seal at the square axle. Only use RST genuine or approved grease as wrong a grease could cause damage to the system and the seals as well as the performance.
3. A Stem Shock System, that have been 5 years or more, should be inspected and serviced annually if it is going to remain in use.

Suggested service intervals for all RST STEM SHOCKS			
Normal Conditions		Severe Conditions	
Short Sporadic Rides	Long Frequent Rides	Short Sporadic Rides	Long Frequent Rides
Every 6 months	Every 4 months	Every 4 months	Every 3 months

RST

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