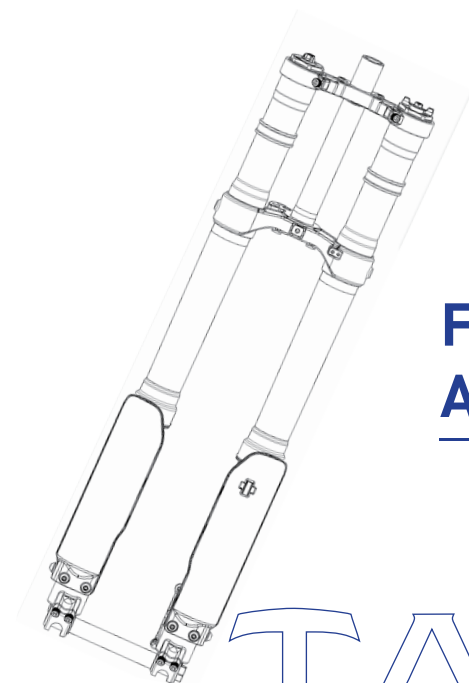


# TALARIA



## FRONT SHOCK ABSORBER USER MANUAL

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Thank you very much for choosing TALARIA-SUSPENSION shock absorber. It will always be your trustworthy partner! For your safe driving with full enjoyment of the ride which is brought by TALARIA-SUSPENSION shock absorber, please read the Manual carefully before use, and keep it properly in case of need.

We sincerely hope that you will make any valuable comments and suggestions on the design, use, performance, quality, and after-sales service of TALARIA-SUSPENSION products.

TALARIA-SUSPENSION is willing to provide you with more professional shock absorbers and more sophisticated service!

**The following contents are included in the Manual**

- ◆ 1. Advice for safe use
- ◆ 2. Product appearance and accessories
- ◆ 3. Product features and functions
- ◆ 4. Adjustment of rebound damping, spring and air pressure
- ◆ 5. Installation precautions
- ◆ 6. Product maintenance
- ◆ 7. Warranty and after-sales service terms

To improve the product performance, we reserve the right to change the product without advance notice. If the actual picture is not in conformity with the product, please take the actual product as the criterion.

## ◆ 1. Advice for safe use

- 1.1 The front shock absorber is one of the most important parts of the vehicle, which directly affects the stability of the vehicle. Before the product is used, please read the Manual carefully. Any failure to comply with the Manual will result in product failure, damage, property loss or personal injury. TALARIA-SUSPENSION is not responsible for these damages or injuries.
- 1.2 The installation and maintenance of the shock absorption system requires expertise, tools and experience. It is recommended to allow your vehicle dealer or authorized TALARIA-SUSPENSION service center to help you install and maintain it.
- 1.3 Do not make any changes to any accessories of your shock absorption system.
- 1.4 You shall learn to drive it within your capability. Any uncontrolled driving will damage your damping system and affects its service life.
- 1.5 After the product is installed, a low speed test is required to ensure the stability of the vehicle. Be sure to drive on a safe road and take approximate safety measures.
- 1.6 The suspension system or accessories of the vehicle shall be often checked for deformation, bending, cracking, or other damages. If the shock absorber has the abnormal sounds, uneven functions or any oil leakage, please immediately stop using and deliver the product to the TALARIA-SUSPENSION service center.

## ◆ 2. Product appearance and accessories (as shown in Fig. 1)

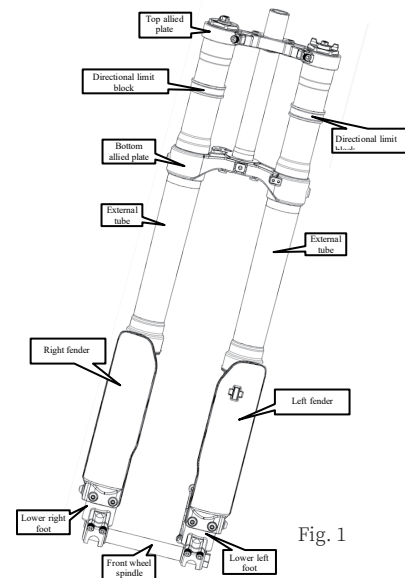


Fig. 1

### ◆ 3. Product features and functions

- 3.1 The front shock absorber is a kind of lightweight high-strength shock absorber, which is designed and manufactured by TALARIA-SUSPENSION specially for the downhill bike. Internal and external tubes, upper and bottom allied plates, and lower left and right feet are made of lightweight high-strength aluminum alloy, and the vehicle interior is designed with a spring, a closed oil pressure damper and a high-pressure air chamber.
- 3.2 A hydraulic damping system is provided inside the right tube of the front shock absorber. To be specific, damping force, produced by reciprocating motion of piston and valve block in hydraulic oil, is used to suppress the vibration and impact caused by the acceleration and deceleration of the vehicle and the road bump.  
The special oil for the shock absorber with high quality is adopted inside the damper, which is wear-resisting, low freezing point and low number, to ensure the damping stability.
- 3.3 The spring wound with a high-strength alloy spring wire is installed inside the left tube of the shock absorber to support the weight of the front section of the vehicle, with safety and reliability.
- 3.4 The front shock absorber features adjustable rebound damping and spring preload, and is equipped with the adjustable inflation device for the high-pressure air chamber, making your vehicle more useful.

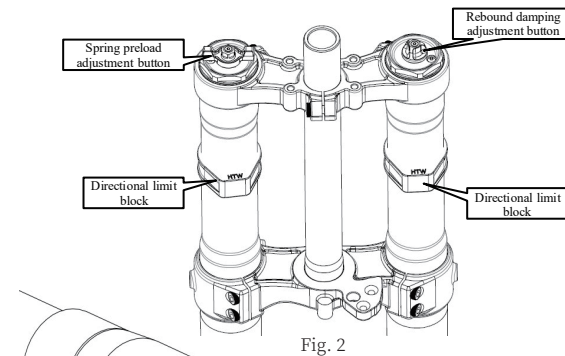


Fig. 2

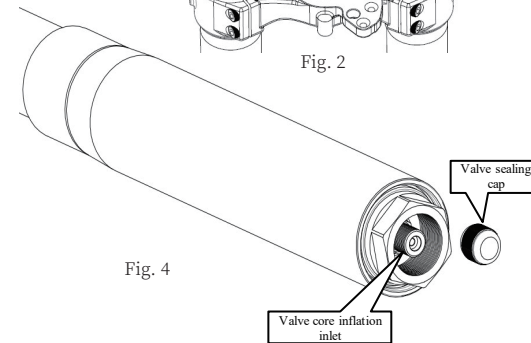


Fig. 4

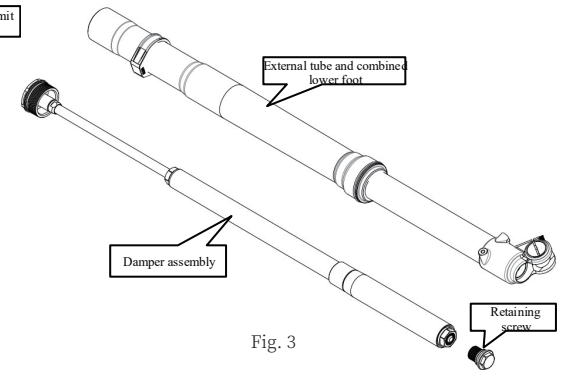


Fig. 3

## ◆ 4. Adjustment of rebound damping, spring and air pressure

### 4.1 The front shock absorber has the following external adjustment functions:

- A. Rebound damping adjustment;
- B. Spring preload adjustment;
- C. Air chamber pressure adjustment.

### 4.2 Rebound damping adjustment

- A. As shown in Fig. 2, manually turn the red rebound adjustment button at the top of the right fork to adjust the rebound damping.
- B. The clockwise turning of the red rebound adjustment button can increase the rebound damping, so that the front shock absorber slows down during rebounding. The counterclockwise turning of the red rebound adjustment button can reduce the rebound damping, so that the front shock absorber accelerates during rebounding.
- C. The rebound adjustment range is 12 segments. Generally, the red rebound adjustment button is adjusted clockwise to the maximum, and then adjusted counterclockwise to the required segment. The adjustment strength shall be moderate. The adjustment shall be immediately stopped if resistance occurs, and the adjustment strength cannot exceed the limit of the adjustment screw.
- D. The rebound damping can be properly set according to the weight, habit and road conditions of the rider:
  - a. While riding on a mountain road or curved road, rotate clockwise the rebound adjustment screw and make the front shock absorber rebound slowly in order to reduce the shaking. While riding in a city or the bad road, rotate anti-clockwise the rebound adjustment screw and make the front shock absorber rebound quickly to reduce the hard sense.
  - b. Driving violently for a long time will increase the air pressure inside the right tube, which leads to the hardening of the shock absorber. At this time, you can loosen the air bleed screws on the left and right tubes with a flathead screwdriver, and then lock it upon air bleeding.

### 4.3 Spring preload adjustment

- A. As shown in Fig. 2, the damping support can be adjusted by manually turning the spring preload adjustment button at the top of the left fork.
- B. The clockwise turning of the spring preload adjustment button can increase the damping support. The counterclockwise turning of the spring preload adjustment button can reduce the damping support.
- C. The adjustable height of the spring preload is 12.5mm, and the spring adjustment button can be lifted by 1.25mm when turned by one turn.
- D. The adjustment strength shall be moderate. The adjustment shall be immediately stopped if the resistance occurs, and the adjustment strength cannot exceed the limit of the adjustment screw.
- E. The pound value of the spring is 40LBS, and the spring preload of 12.5mm can increase the support by 8.5KG.

### 4.4 Air chamber pressure adjustment

- A. As shown in Fig. 3, remove the retaining screw at the bottom of the right fork, loosen connection between the external tube and the rebound adjustment base, and remove the damper assembly.
- B. As shown in Fig. 4, install the valve core inflation device on the bottom of the damper assembly, and use the special shock-absorbing air pump to fill high-pressure nitrogen or air into the air chamber via the valve core.
- C. Atmosphere applicable to recommended inflation pressure: 40PSI-80PSI
- D. The inflation pressure can be properly adjusted according to the weight, habits and road conditions of the rider:
  - a. When driving on the flat roads, you can set the inflation pressure within a lower range, facilitating compression of shock absorption and increasing the driving comfort.
  - b. When the load is increased, the inflation pressure can be properly increased to avoid the shock absorber's bottoming.
  - c. When the car body sinks too fast or wobbles too much during turning, the inflation pressure can be appropriately increased.

d. When the shock absorber is subsided slowly or hardened by continuous bad road running, the inflation pressure can be properly reduced when the vehicle body bounces.

## ◆ 5. Installation precautions:

- A. In order to make the shock absorber operate smoothly, please check whether the width of wheel hub assembly is consistent with the open gear width of front shock absorber before installation, so as to ensure that the two branches of the absorber are in a parallel state.
- B. Please set the locking torque of screw on top and bottom allied plates in the appropriate range, so as to avoid the deformation of the outer tube affecting the operation of shock absorber. (The torque of top allied plate screw is suggested to set as 16-18N.m. The torque of bottom allied plate screw is suggested to set as 10-12N.m.)

## ◆ 6. Product maintenance

- 6.1 The service life of the shock absorber is determined based on many considerations, including road conditions, and the weight, driving habits and use strength of the rider. The impact beyond the limit of shock absorption, irregular fall of the bike, improper use or rough use can reduce the service life of the product.
- 6.2 Irregular or incorrect maintenance will cause damage to oil seals, self-lubricating bearings, dust seals, main pipes and other components, resulting in oil leakage or motion retardation.

## 6.3 According to different use conditions of the user, set different maintenance periods:

- A. The recommended maintenance period of the shock absorber for normal road driving is once a quarter;
- B. The recommended maintenance period of the shock absorber for forest-road crossing is once a month;
- C. The recommended maintenance period of the shock absorber for special users (off-road users) is every 10 hours.

## 6.4 Surface cleaning

- A. The surface of the shock absorber must be cleaned immediately after riding, especially sediments attached to the main tube. It is not allowed to wash up the dust seal upwards when cleaning with a high-pressure water gun, due to that the sand would be washed into the lip of the oil seal and lead to oil leakage.
- B. It is not allowed to clean the dust seal with the flammable or corrosive solvents, and otherwise the dust seal will be damaged. Please use neutral soapy water or detergent with soft cotton cloth for cleaning.
- C. After cleaning, the surface of the fork tube needs to be coated with a layer of lubricating grease or forcefully pressed for a few times to be fully lubricated.

## ◆ 7. Warranty and after-sales service terms

### 7.1 General

- A. Meaning of warranty: if the TALARIA-SUSPENSION shock absorber that is qualified according to the technical standard has any quality problems caused the material or workmanship during the warranty period, our company will be responsible for the problem solving;
- B. Warranty period: six months from the date of sale.
- C. Warranty principle: the maintenance is based on the adjustment and repair.

### 7.2 Scope and regulation of warranty

- A. We guarantee the quality of the shock absorber: If the shock absorber purchased from us is found to have impact on the users due to materials or poor workmanship within three months from the date of purchase, it will be repaired or changed for free.
- B. The warranty service will not be provided for the following cases. However, due to the principle of responsibility for user, the service of repair will be provided, and the fee of parts and labor will be charged accordingly.
  - a. Beyond the specified period (according to the valid invoice);
  - b. Damage caused by accident or abnormal use, such as acrobatics, bounce, and fall;
  - c. Use, maintenance and operation not according to the requirements in the Manual;
  - d. The fault caused by the normal using abrasion of parts and long-time aging (such as the natural fading of oil, oil seal, dust seal, self-lubricating bearing and parts surface, etc.);
  - e. Damage caused by overhaul by self, modification or using non TALARIA-SUSPENSION components;
  - f. Damaged caused by natural disaster and man-made calamity or the irresistible force factor;

- C. In addition, TALARIA-SUSPENSION will not afford transportation cost and loss of working time due to maintenance, as well as compensation for inconvenience use or unavailable use during maintenance.

If you have any questions, please consult your dealer or the TALARIA-SUSPENSION after-sales service department.

TALARIA-SUSPENSION has the right of final explanation for the Manual, which is subject to change without notice.