

Electronic- Adjustable Shock User's Manual



- Thank you for purchasing this product.
- Please read the user's manual carefully for the proper use and please keep this manual in a safe place.



Android



iOS



Contents

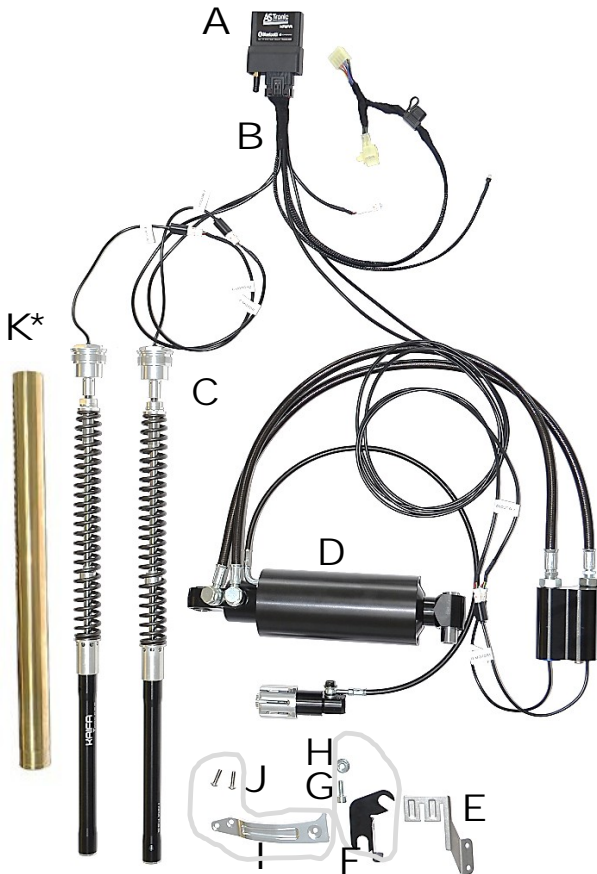
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Notices

1. For safety reasons, do not operate the phone software while riding.
2. The setting can be adjusted before riding. If you want to change the setting while riding, you can use the original hardware device to make changes.
3. Please fix the hardware properly. If any danger occurs due to the improper installation, the user is responsible for it.
4. If the cable assembly is damaged, it is recommended to replace the new cable assembly before use.
5. Do not disassemble and modify the hardware by yourself. If the hardware is damaged due to improper disassembly, it is not covered by the warranty.
6. The product is subject to Administrative Regulations on Low Power Radio Waves Radiated Devices Article 12-14 and other regulations.
7. Without permission, any companies or users shall not change the frequency, increase the power or change the characteristics and functions of the original design of the low-power RF motors that have passed the type approval.
8. The use of low-power RF motors shall not affect flight safety and interfere with legal communications; if interference is found, it shall be immediately deactivated and improved until no interference occurs.
9. Legal communication in the preceding paragraph refers to radio communications operating in accordance with the provisions of the Telecommunications Act. This low-power RF motor must withstand the interference from legal communications or radio wave radiated equipment for industrial, scientific, and medical use.
10. Avoid exposing any car accessories and wires to extreme temperatures (above 70 °C or below -20 °C) as this will affect the performance and overheat the electronic equipment.

I. Product Content

The product you purchased contains the following items :



- A. Bluetooth Control box x1
- B. Cable Assembly x1
- C. front fork damping unit x2
- D. Rear shock absorber assembly x1
- E. Control box fixing bracket x1
- F. Rear shock absorber fuel pipe fixing bracket x1
- G. 8mm hexagon socket screw x1
- H. 8mm nut x1
- I. Rear shock absorber preload adjustment knob fixing bracket x1
- J. 6mm Button head socket screw x2
- K. front fork inner tube x2
(*Note: This only applies when purchasing telescopic front fork products)

II. Hardware Introduction of Electric and Control System

A. Controller Specification

Product Name	Electronic- Adjustable Shock
Model No.	ASTronic3F.1
Size (mm)	L: 94.8mm W: 69.2mm H: 34.8mm (antenna not included)
Weight	115g
Input Voltage	DC 10V~18V
Operating Current	100mA~150 mA
Motor Operating Current	1motor: 250mA ; 4PCS motor:1A
Operating Temperature	-40 ° C ~ +85 ° C

B. Bluetooth Module

Model No. : CYBLE-202007-01
 Bluetooth4.2 Certification Module
 QDID : 88957
 NCC:CCAN18LP0390YT5

III. Names and Descriptions of the Components



A. Bluetooth Control Box

- A-1. Bluetooth antenna
- A-2. Control box connector
- A-3. Control box fixing bracket

B. Main Cable Assembly

- B-1. Cable assembly connector A (connecting to the control box)
- B-2. Rear shock absorber connector (R-MOTOR 1/2 , connecting to the connector on the rear shock absorber)
- B-3. front fork connector (R-MOTOR 1/2 , connecting to the connector on the front fork)
- B-4. Detecting connector (for detecting and updating firmware)
- B-5. LED indicator (indicated by the driving mode)
- B-6. Cable assembly connector B (connecting to the original cable assembly)





C. front fork Damping Unit

- 10. Rebound side control motor (Red one)
- 11. Rebound side motor cable connector (F-MOTOR 1)
- 12. Compression side control motor (Blue one)
- 13. Compression side motor cable connector (F-MOTOR 2)



D. Rear Shock Absorber Assembly

- 14. Rebound side control motor (Red one)
- 15. Rebound side motor cable connector (R-MOTOR 1)
- 16. Compression side control motor (Blue one)
- 17. Compression side motor cable connector (R-MOTOR 2)
- 18. Preload adjuster knob
- 19. Tubing bracket
- 20. Preload adjuster knob bracket



IV. Hardware Installation

- 1 First replace the damping unit of the original front fork and install it.
(The amount of oil on each side of the telescopic type is 380cc, and the inverted type is 400cc)
- 2 Connect the control box to the main cable assembly



a. Wiring: Pull out the cable assembly connector A from the gap in the left side of the motorcycle.

b. Connect the cable assembly connector A to the control box



c. Install the control box bracket on the base of the left rear-view mirror (use the original fixing screws of the motorcycle)



d. Insert the control box fixing port into the fixing bracket and insert it to the end to complete fixing and installation.



3 Connect the main cable assembly to front fork motor cable



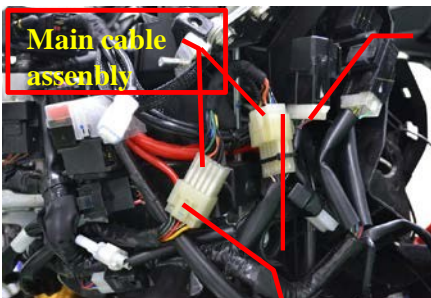
a. Connect F-MOTOR 1 (the connector on the main cable assembly) to F-MOTOR 1 (the motor cable connector on the front fork) ; Connect F-MOTOR 2 (the connector on the main cable assembly) to F-MOTOR 2 (the motor cable connector on the front fork)

4 Set LED light



- a. Fix the LED light at the back of the instrument panel with tape, and the LED lights (red, blue, green) will come out of the instrument panel.

5 Connect the main cable assembly to the original cable assembly



- a. Unplug the original cable assembly connector and connect it to the cable assembly connector B.

Original cable assembly

6 Install rear shock absorber and connect cable assembly



a. **Wiring:** Pull the cable (with the mark R-MOTOR 1 and R-MOTOR 2 on it) backward and fix the connector at the back of the storage compartment.

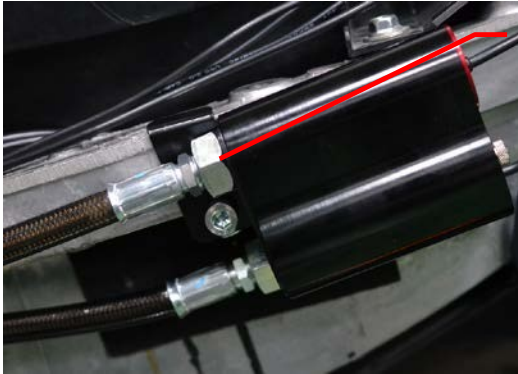


b. Connect R-MOTOR 1 (the connector on the main cable assembly) to R-MOTOR 1 (the motor cable connector on the rear shock absorber) ; Connect R-MOTOR 2 (the connector on the main cable assembly) to R-MOTOR 2 (the motor cable connector on the rear shock absorber)

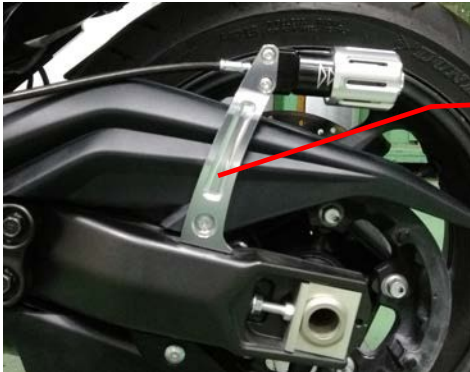


c. After the rear shock absorber is installed, remove the oil side cover and set the damping control oil pipe, and then lock the side cover.





- d. Set the oil pipe on the rear-left frame with the tubing bracket. (Slightly loosen the nut in the photo, and insert the bracket into the nut and the motor base, and then tighten the nut.)



- e. The preload adjuster is fixed on the rocker arm behind the frame with the knob bracket. The tubing is wound around the oil cap and is fastened to the pedal frame by a cable tie.



V. Software Installation

4-1.

Download the Android app from Google Play. If it is an Apple series phone or tablet, please download it from the App Store. Then, Search “Kaifa Absorber Adjustor”.



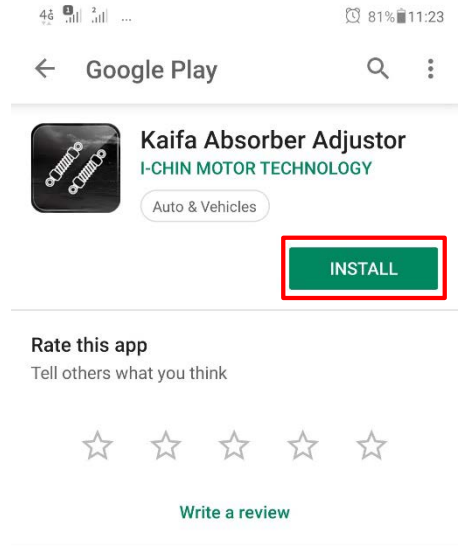
Android



iOS

4-2.

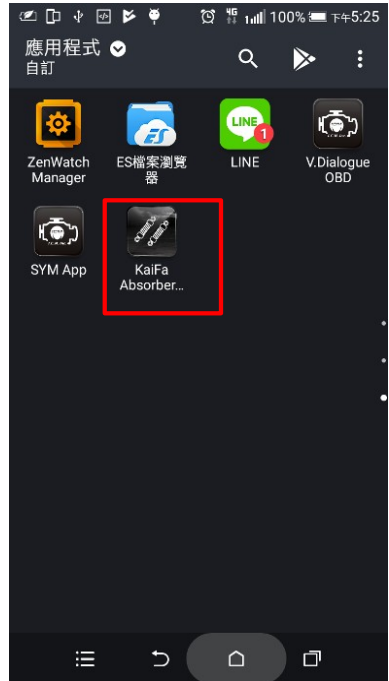
After clicking, enter the installation prompt screen



4-3. Click to “accept” and Start installing software”

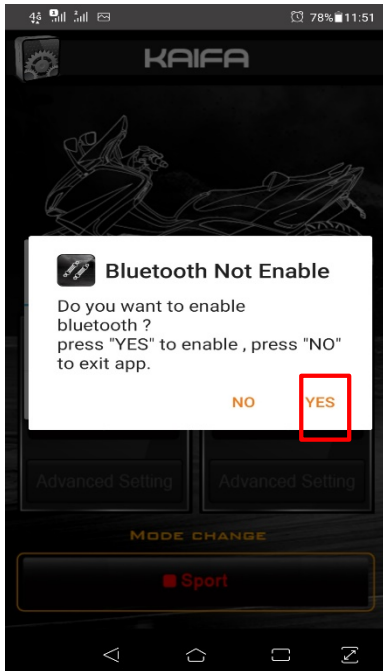


4-4. After the installation is completed, you can enter the APP from the application menu.



VI. Introduction to Software

5-1. When you open the software, you will be asked to enable Bluetooth. Click “Yes” to start searching for hardware automatically.



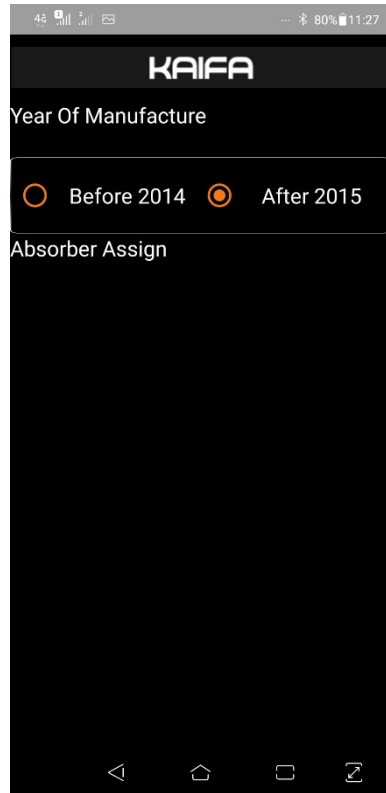
5-2. Select the name of the hardware and click “OK”.



5-3. After entering the software, click “Setting” in the upper left corner.”



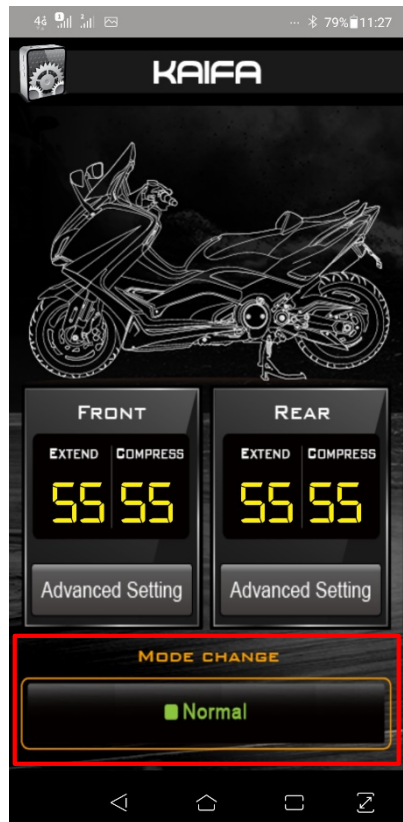
5-4. Return to the software homepage after selecting the year model of your bike.



5-5. After entering the software homepage, the current values of the front and rear shock absorbers will appear.



5-6. To change the value of the shock absorber, click “Mode Selection”. “Mode Selection” is a simple setting. You can switch the setting point by directly clicking “Comfort”, “Normal” or “Sport” mode.



5-7. Numerical setting of each mode

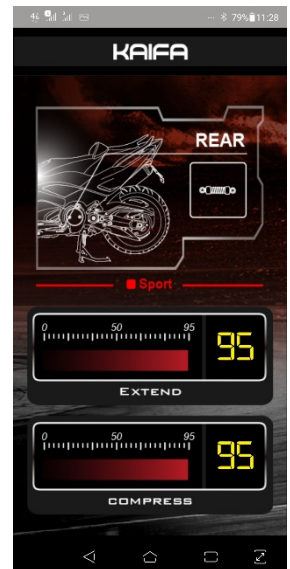
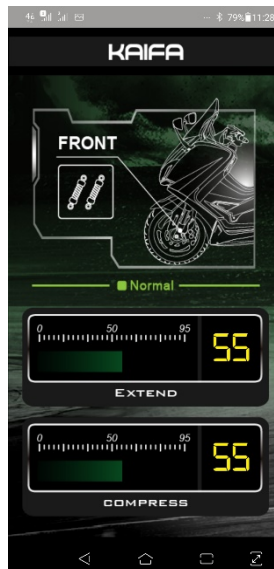
- If you want to change the setting value of each mode, please select the mode to be set first, and then click the “Advanced Settings” of the front or rear axle to enter the settings of each mode. (You can also click the number to enter the settings)
- Click on either mode (Comfortable/ Normal/ Sport) background to change the background color of the selected item.
- Remind the user of the current mode, and the menu value below can also be swiped up and down as a numerical adjustment.
- Press the “Complete” button: complete the value setting and return to the main screen. Press “Preset- return to the preset value”.

The color of the lights represented by each mode is as follows,

■ Comfortable

■ Normal

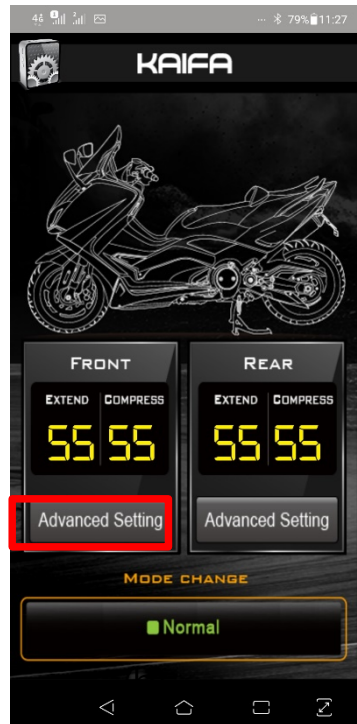
■ Sport



5-8.Example:

E.g. To change the “normal model” to “front axle - extension side 50 / compression side 60”, “rear axle - extension side 50/ compression side 55”, please follow the steps below,

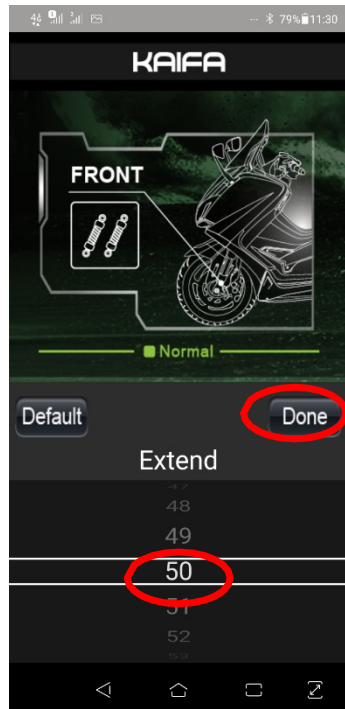
- Click “Mode Switch”; select “Normal Mode”, and click “OK”.
- Click "Advanced Settings" (or the number) of the front axle to enter the settings of the front axle.



- c. (1) Click any space of the scale.
(2) Adjust the number to "50", and press "Done" to complete the setting of the extension side of the front axle.
- d. Follow the steps above for the setting of the compression side of the front axle and the extension/ compression side of the rear axle.



(C-1)



(C-2)

VII. Original Hardware Operation

If you are riding a scooter, you can use the original hardware to change the setting mode. Please complete the steps 5-6 first, and then switch the "comfort", "normal" or "competitive" mode with the hardware itself. The operation of original hardware for changing setting mode is as follows:

(Warning: Do not switch the mode while riding)

(A) Press the brake and do not release it (either the right side or the left side). Next, press the PASS button and release.



(B) The LED light on the front of the instrument panel switches to green (Normal mode).



(C) Repeat Action A, and the LED light in front of the dashboard switches to red (Sport Mode).



(D) Repeat Action A, and the LED light in front of the instrument panel switches to blue (Comfort Mode).



Remarks: Press the brake and do not release it. Next, press the PASS button and release. It is a cyclical action. Repeat this action, the lights will light up in the order of green light, red light, blue light.

VIII. Description of Other Functions

A. Adjusting front fork preload



a. Determined
preload from
the factory

b. Secure the lower nut with a wrench and
loosen the upper nut counterclockwise
with another wrench, as shown in the
photo to the right.



c. Clamp the screw with the wrench. To increase preload (harden), turn the lower nut downward in a clockwise direction with another wrench. Conversely, to reduce the preload (soften), turn in a counterclockwise direction.



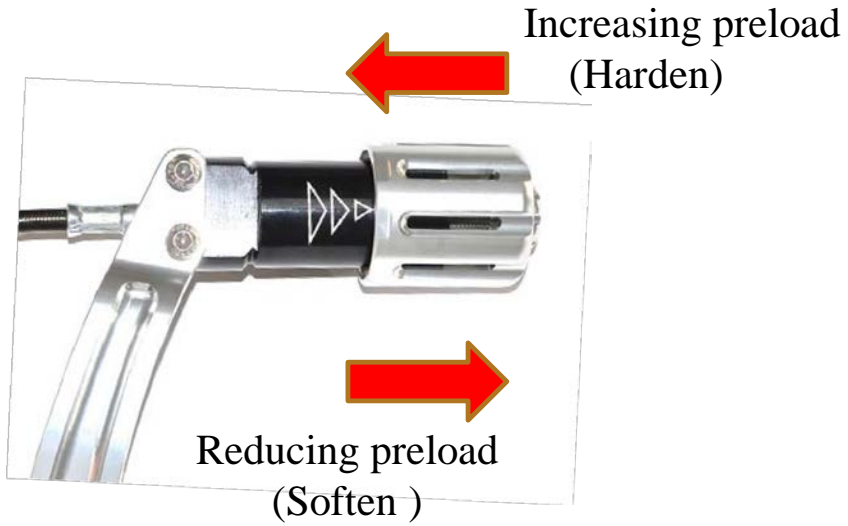
d. After the adjustment is completed, turn the upper nut downward and tighten the upper and lower screws .



e. The range of maximum preload (left) and minimum (right) preload can be adjusted to approximately 20mm.

Note: After the adjustment, be sure to measure whether the heights of the two sides are consistent with the vernier caliper.

B. Adjusting Rear Shock Absorber Preload



IX. Product Warranty Terms

1. Kaifa Industry Co., Ltd. is responsible for the one-year warranty for the products it produced. The warranty period begins on the date of installation of the authorized dealer.
2. During the effective warranty period, if the shock absorber is in normal use and abnormal operation or electronic control failure occurs, it can be returned to the original purchaser for warranty service, such as testing or replacing parts and so on.
3. Kaifa has the right to inspect and process the parts and materials replaced by the warranty service. All replaced parts are owned and recycled by Kaifa's dealers.
4. According to this warranty terms, Kaifa's dealers provide Kaifa's customers warranty service, such as free repair or parts replacement. The customers shall not request the company for refunds, replacement, price reduction or other damage compensation based on the same reason.
5. The company may waive the warranty liability, if :
 - The product is not dismantled or maintained by the company or the dealers authorized by the company, and thus result in damage to the product, such as defects and malfunctions.
 - Defects, damages and malfunctions of the product are caused by human negligence or use in abnormal weather or improper use.
 - Other causes such as fire, flood, earthquake, and other factors caused by force majeure.
6. The warranty service is valid during the warranty period. For maintenance and inspection, please hold the warranty card of the product to the dealers.
7. If the product warranty card is lost, after the purchase information is confirmed, it will charge 200 NTD to reissue a new one.

Warranty Card

Purchaser's name :

Phone :

E-mail :

Installation type:

Product ID:

Date of Purchase:

Warranty Period: from yyyy mm dd
 to yyyy mm dd

Authorized Dealer Stamp