



User Manual

Disc Series Product Installation Manual



L-TWOO Official



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About this manual



Notice!

This manual contains information related to all products in this series and other products. Information that is not equipped with this configuration may also appear in this manual, and may also describe functions that are not equipped with the product you purchased.

For installation, adjustment, maintenance and other information not included in this manual, please consult your local dealer or seller, or visit L-TWOO official website to contact us (<http://www.ltwoo.com/>).

- 1.The pictures in the manual may differ from the product you purchased, please refer to the actual product!
- 2.Please read this manual carefully before use, and keep this manual properly for reference at any time.
- 3.Correct use of this product can make the product quality more stable and bring you a better riding experience.















Warning!

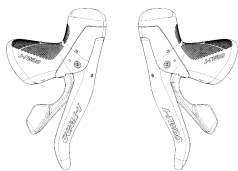
- 1. In order to avoid injury to personnel or damage to equipment and vehicles during use, please do not disassemble, install or modify the product abnormally, otherwise it may not only cause damage to the equipment, but may also endanger personal safety in severe cases!
- 2. There are small parts and brake fluid in the package, please beware of children's contact, in case of accidents such as eating or drinking by mistake, please take first aid measures and seek medical treatment immediately.
- 3. Regarding the brake fluid, in order to avoid allergies such as itching and rashes that may occur when people with different physiques come into contact, please wear a mask and gloves during installation.
- 4. Please use L-TWOO special mineral brake fluid, do not use DOT oil, otherwise it will damage the oil circuit system!

Disc series product installation manual

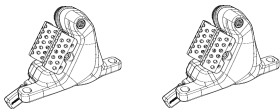
Get the following tools ready:

 2mm Allen wrench	 Cutter
 3mm Allen wrench	 Oil needle presser
 5mm Allen wrench	 Oil injection special kit
 8mm open end wrench	 Solid oil
 10mm open end wrench	 L-TWOO mineral brake fluid
 T15 ring wrench	 Detergent、Cleaning cloth

Disc Series Product List



Right shifter *1 Left shifter *1



Front brake caliper *1 Rear brake caliper *1



140 front conversion seat *1



140 rear conversion seat *1



160 front conversion seat *1



160 rear conversion seat *1



oil needle*2



Olive head*2



Lock nut*2



Flat head screw*2



Mounting gasket and screws for front derailleur



M5*44*2



M5*39*2



M5*34*4



M5*29*4



M5*24*2

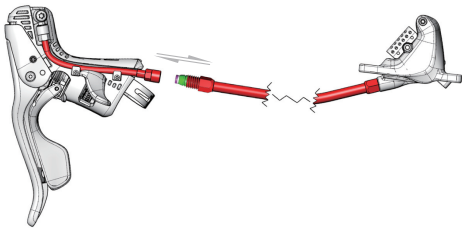


M5*15*4

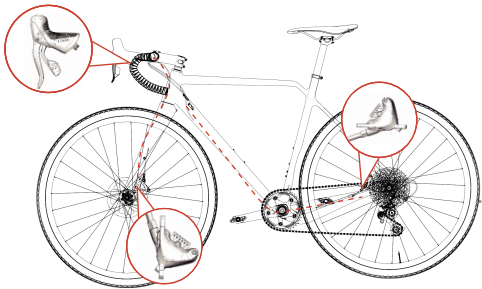


One brake fluid 50ML*1

1. Keep the bike fixed parallel to the ground.



Schematic diagram of shifter + caliper connection

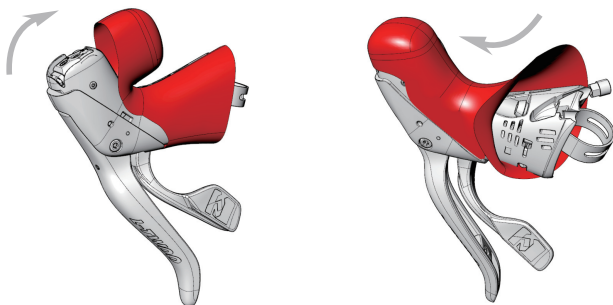


Schematic diagram of installation location and connection

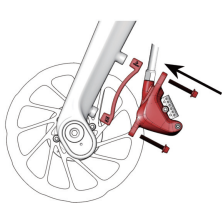


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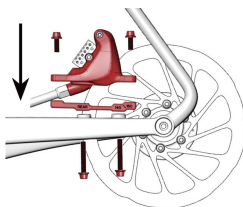
For the convenience of explanation, some schematic diagrams do not contain rubber sleeves. During the actual installation, the rubber sleeves at the positions where the operation is required can be turned over. Pay attention not to pull hard to avoid damage to the rubber sleeves.



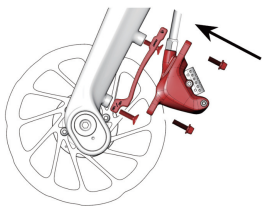
2. Select the adapter corresponding to the size of the disc and install it to the caliper.
*because there are many types of frames, please choose the appropriate screws to fix.



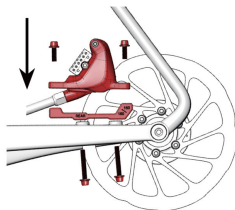
Front 140:
Front 140/160 adapter + screw M5*29*2



Rear 140:
Rear 140/160 conversion seat + screw M5*34*2
*Choose M5*39 or M5*44 according to the thickness of the frame rear fork

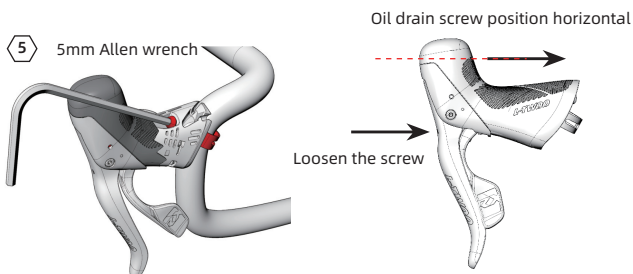


Front 160:
Front160/180 adapter + screw M5*34*2



Rear 160:
Rear 160/180 conversion seat + screw M5*34*2
*Choose M5*39 or M5*44 according to the thickness of the frame rear fork

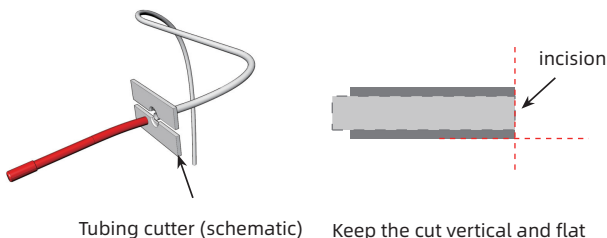
3. Use a 5mm hex wrench to insert the top clamp screw of the shifter, install it to the handlebar, adjust its position so that the top of the oil drain screw is parallel to the ground, and the maximum torque value is 6-8N.m.



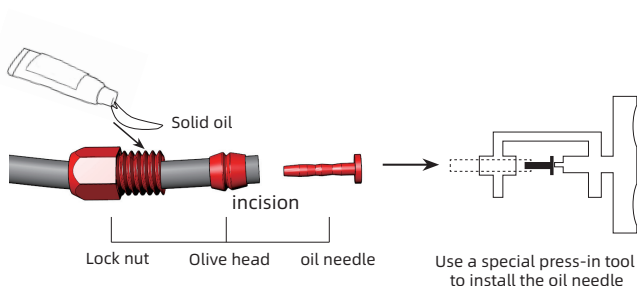
Release the fine adjustment screw first, so that the lever is at the maximum position. Keep the top of the shifter's oil drain screw level.

Notice!

4. Cut the brake hose to the required length.
 - *Please use a special tool for cutting hose to ensure a smooth section!
 - *The cutting tool is sharp, please use it carefully!
 - *Cutting is an irreversible process. Please make sure the length is appropriate before cutting!



5. Pass the hose through the tight screw and the olive head in turn.
6. Use a special press-in tool to install the oil needle.
7. Apply a small amount of high-quality solid grease to the outer surface of the pressing screw and olive head.



8. Remove the hose connection plug at the end of the shifter, and insert it into the hose connection of the brake handle (depth 13mm).

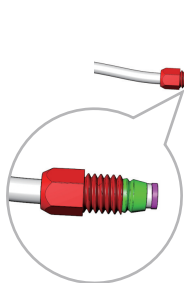
*Please be sure to fully insert the oil hose and lock the nut, otherwise the brake fluid may leak or the braking force may drop!

9. Use a 10mm open-end wrench to fix the oil hose, and use an 8MM open-end wrench to apply a torque of 5-6N.m to the lock nut.

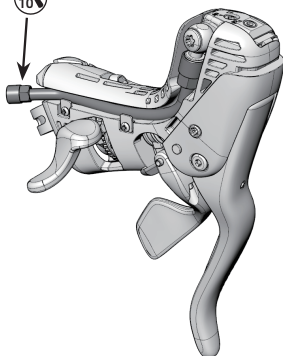
Screw this side in and tighten



fixed with a wrench

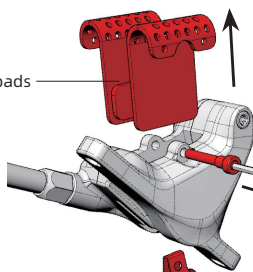


The compression screw,
the olive head, and the
oil needle are pressed in correctly



10. Use a 3mm hexagon socket to remove the brake pad fixing screws, brake pads, and brake pad springs.

a. Cooling splint and pads



b. Spring



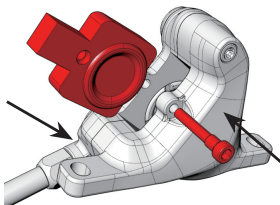
c. Splint gasket



3

3mm Allen wrench

11. Install the piston block and fix it with screws.



3

3mm Allen wrench

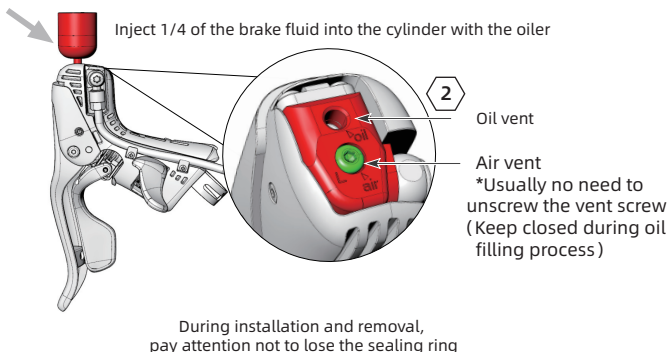
Install the piston spacer
(different models may be different)

12. Use a 2mm hex wrench to remove the oil filling screw at the top of the shifter.
13. Inject 1/4 of the brake fluid into the cylinder with the oiler.

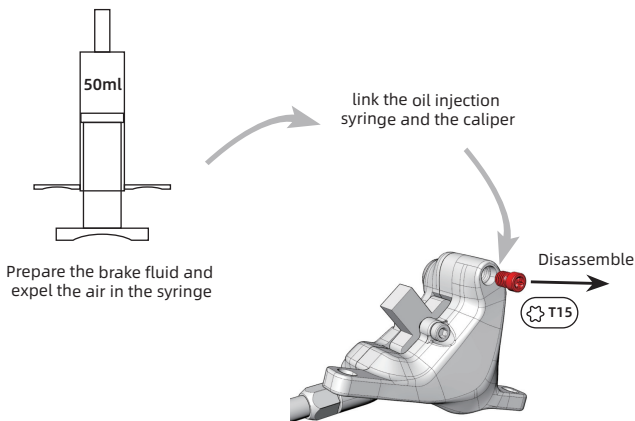


Notice!

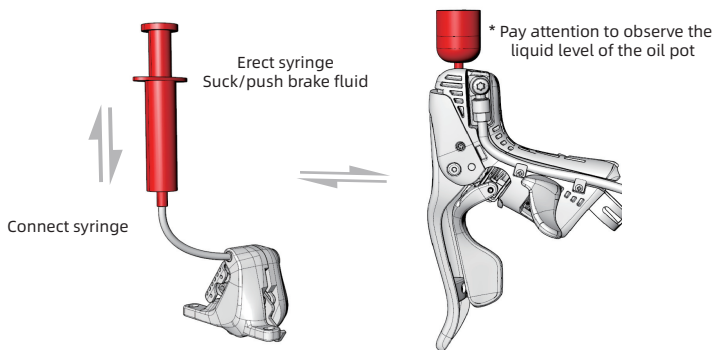
Please ensure that the shifter oil hose is properly connected to the caliper before filling oil.



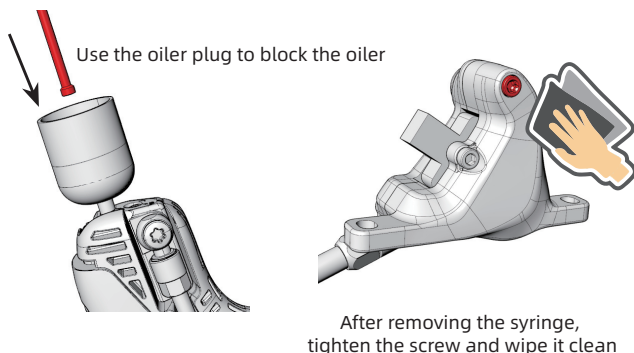
14. Inhale 50ml of brake fluid with a syringe.
15. Use the T15 torx wrench to open the screw of the oil filling port of the caliper, and the maximum torque value is 5-7N.m
16. Use the M5 adapter to link the oil injection syringe and the caliper.



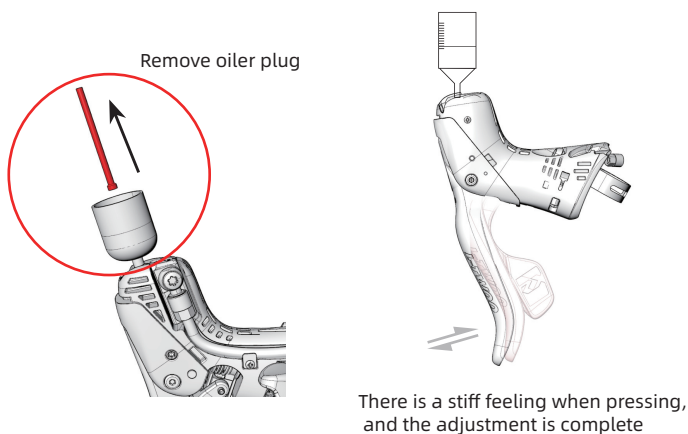
17. Push the plunger of the syringe to press the brake fluid into the caliper.
*Observe the brake fluid in the oil pot to avoid overflow!
18. Twitch the syringe to suck out the air from the caliper, *Observe the liquid level of the oil pot to prevent the brake fluid in the oil pot from being absorbed!
19. Stand the syringe upright, and observe that the air bubbles gather at the top of the syringe until all the air bubbles disappear;
20. Repeat step 16 and step 17 and step 18 again until there are no obvious air bubbles when the syringe and oiler work.
This process needs to push and pull the syringe several times for injection and suction operations to ensure that the air in the caliper and the hose is completely exhausted.



21. Use the plug of the oil pot to block the oil pot, remove the syringe and use the T15 ring wrench to lock the screw of the oil filling port of the caliper, Simply wipe the oil filler port with detergent and a cleaning cloth.
*The torque value of the caliper oil filling port screw is 5-7N.m



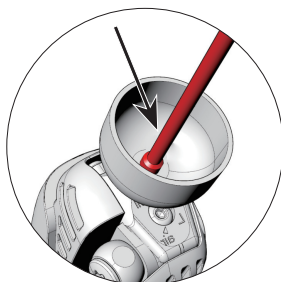
22. Take out the plug of the oiler. When the oil volume of the oiler is more than 1/3, adjust the angle of the handlebar continuously, and press the brake handle several times until the handle feels stiff.
*If the handle is not stiff, please repeat step 14. to step 20



23. Insert the oiler plug to remove the oil filling funnel.

24. Use a 2mm hex wrench to tighten the oil filling screw at the top of the shifter.

*The torque value of the oil injection screw at the top of the shifter is 1-1.5 N*m



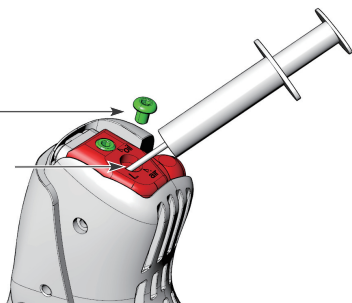
Plug the oiler,
remove the funnel

Note:

In order to get a better brake feel, we need to continue to adjust the oil injection:

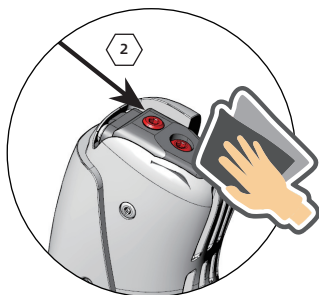
a. Tighten the oil filling screw
and unscrew the exhaust screw.

b. Use a needle oiler to inject a small
amount of oil into the vent hole.
(add the oil little by little until all the
air inside is exhausted).



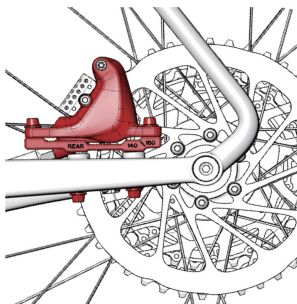
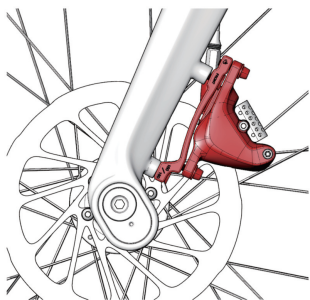
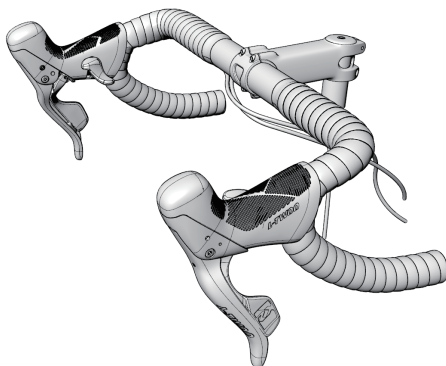
c. Do not forcefully press the brake lever when injecting oil, otherwise oil may overflow.
After observing that the exhaust hole is filled with oil, tighten the exhaust screw.

If the brake feel deteriorates after a period of use, this method can be used to
adjust it again.



Finally tighten the screws and
use a cleaning cloth to wipe
off the oil stains on the surface

25. Reset the rubber sleeve, adjust the shifter on the handlebar to a position suitable for you to hold, and tighten the screws; finally, put back the brake pads, cooling fins and springs on the caliper and fix them.



Effect diagram after installation

Now that the installation is complete, you can continue to install and debug other components.

Thank you again for choosing and using L-TWOO products!