

OTTO基础安装指南

安装注意事项

- 1.在安装碟刹车时，前轮的碟刹片未装刹车过程禁止空捏刹车把以免造成来令片移位。（照成失去刹车或者漏油）
- 2.安装脚踏时，先用手水平对准旋入牙盘部分3/1螺丝牙，再用工具锁紧，必须一次性用力旋紧。（未旋紧容易造成脚踏板与牙盘曲柄滑丝）
- 3.车座安装时一定要平行，请勿向上翘或往下倾斜。（更舒适的骑行体验）
- 4.前后轮快拆必须用力扣紧，未锁紧容易造成安全隐患。
- 5.新车链条无需打油，正常骑行1-3个月可以上润滑油（最好是专用链条油或机油）
- 6.无论是线碟或油碟，碟刹夹器与碟片禁止注油，否则严重影响制动效果。
- 7.轮胎在炎热夏天充八成气压可有效延长轮胎消耗。
- 8.骑行前检查快拆、轮胎、刹车制动效果，户外骑行请佩戴好安全头盔。

OTTO Frame Installation Manual

Installation notices

1. Do not hold/use the brake when there is no front wheel disc brake or during the disc brake installation, avoid lining sheet shift. (Caused loss brake or leak oil)
2. When install pedal, first use hand horizontal align the 1/3 screw tooth of tooth tray, then use tools lock it tightly, must be one time force tightened. (not revolve tightly easy to cause the pedal and tooth tray crank sliding)
3. Must be parallel when install bike seat, please don't upward raise or downward incline. (More comfortable driving experience)
4. Quick release of front/back wheel must lock buckle tightly, Otherwise clutch may not working and cause potential safety hazard easily.
5. The chain of new bike needn't fill oil, fill lubricating oil after normally drove above 1-3 months (special chain oil or engine oil recommend).
6. No matter it's line disc or oil disc, do not to fill oil at disc brake buckle device and disc sheet, otherwise, seriously affect brake effect.
7. Tyre fill 80% air pressure in blazing summer will validity extend tyre lifetime.
8. Double check quick release, tyre and brake before riding , please wear safety equipment as local law and regulations.

前轮安装



Front wheel install

1. Prepared quick release rod, spring mouth outward 2. Preparation of install front wheel, the disc brake of front/rear wheel unified at the same side, lift up bike body align to disc brake's clutch slot 3. Horizontal clutched in the disc brake clutch slot 4. Horizontal clutched in front fork clutch slot 5. The quick release rod insert into shaft center at disc brake side 6. Installed spring and big head outward, revolve quick release nut in(Fix down press quick release rod) 7. Adjust quick release nut, fold the quick release handle(need forced fold the handle when folding, the nut can adjust the pressure) 8. quick release handle closely stick the pipe wall of front fork

脚踏安装



Pedal installation

1. Check the word mark L and R on pedal 2. Word R install at right side(tooth tray), clockwise revolve tightly(hand horizontal revolve the pedal in 1/3 screw buckle) 3. Word L install at right

side(tooth tray), anticlockwise revolve tightly(hand horizontal revolve the pedal in 1/3 screw buckle) 4. Use #14 open spanner lock left/right pedal tightly, force tighten it(this is very important)



Handlebar install

天花螺丝 Stan cap screw 固定螺丝 Fix screw

1. Each stan cap screw /fix nuts loose two rings, fix front fork to make the vertical pipe 180° rotate to front of bike(this step important) 2.Take down the head cover of vertical pipe, clutch the handlebar into concave slot of vertical pipe 3. Close the head cover, hand pre-lock four screws and use the method that six corners present across corners appearance to lock. 4. Stan cap screw bolts locked (Adjust the flexible of handlebar), handlebar and tyre direction uniformed and lock the fix bolts.

Warning the stan direction is wrong for package and safety reason. Please only rotate stan for 180 degree. DO NOT roate the front wheel fork. Otherwise potentail riding accident happen.



OTTO基础调试说明

一：碟刹调校及时注意事项

1. 轮组在运动过程发生轻微蹭碟，如不影响轮组转动，可以无需调校骑行15-30天左右，碟刹器来令片（刹车片）会自动磨合。
 2. 当碟刹器严重影响轮组转动，这时需要调校碟刹。
- 步骤：（1）检查轮组是否在前叉或车架后叉中心位置。（尤其前轮安装过程需注意对准前叉中心位置）
（2）碟刹片是否在碟刹夹器卡槽空腔中心。
（3）检查轮组转动过程碟刹片偏摆公差是否小于1MM。
（4）准备好工具开始调校

OTTO Frame Installation Introduce

First Disc brake debugging and notices

1. Wheel may have a scratch with disc brake after first installation during riding , if not affect wheel group rotating, keep riding approximate 15-30 days, disc brake lining sheet (brake sheet) will automatically running-in.

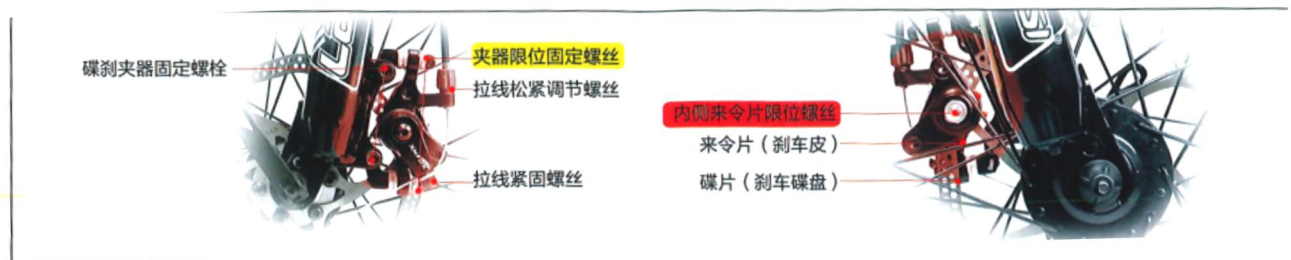
2. When disc braker seriously affect the wheel group rotating, now need debugging disc brake.

Steps:(1) check whether wheel group at the center position of front fork or rear fork. (Especially need attention to align the center position of front fork during install front wheel)

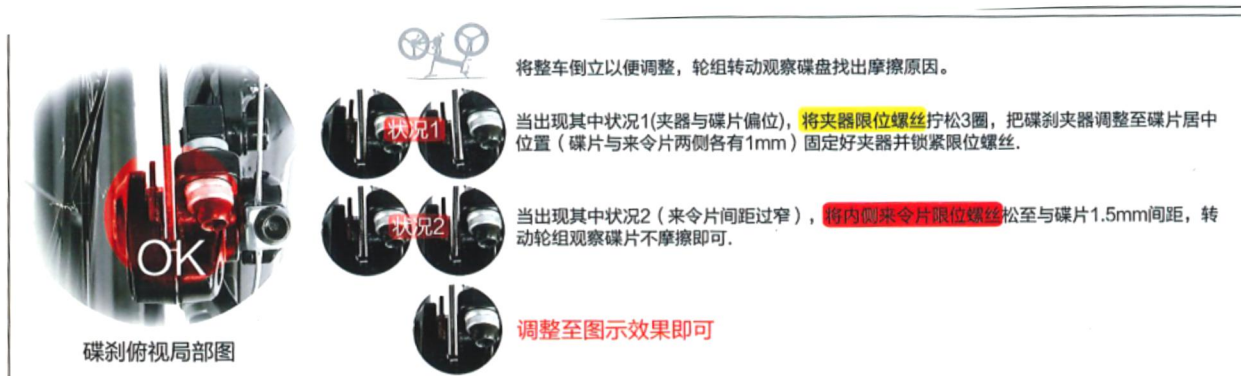
(2) Whether the disc brake sheet at the gap center of clutch slot of disc brake clamp device.

(3) Check the wheel group rotating process, observe whether the incline swing tolerance of disc sheet lower than 1mm.

(4) Prepared tools well and start debugging



碟刹夹器固定螺栓 Disc brake clamp fix bolts 夹器限位固定螺丝 Clamp spacing fix screw 拉线松紧调节螺丝 Pull wire loosen/tighten adjust screw 拉线紧固螺丝 Pull wire fix screw 内侧来令片限位螺丝 Inner side lining sheet spacing screw 来令片 (刹车皮) Lining sheet (Brake leather) 碟片 (刹车碟盘) Disc sheet (Brake disc tray)



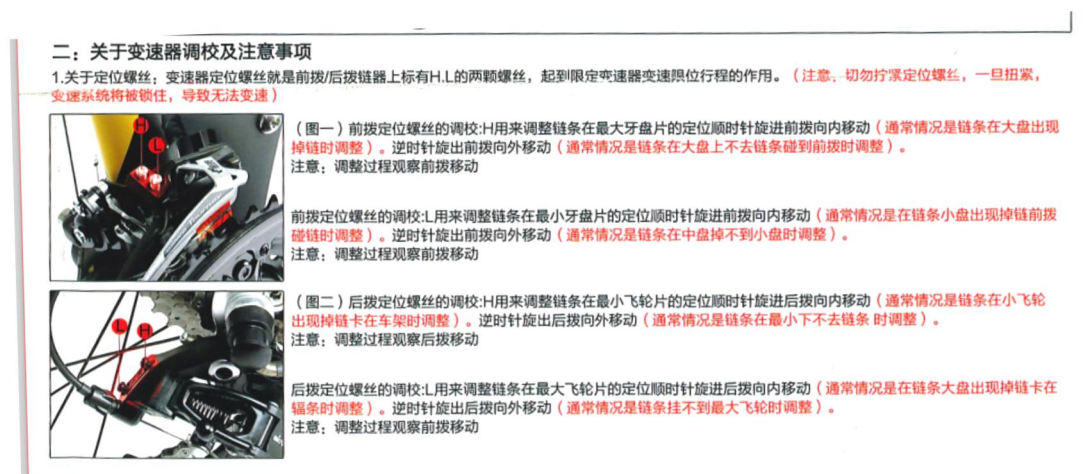
碟刹俯视局部图 Disc brake top view part view 状况 1 State 1 状况 2 State 2

Make the whole bike headstand for adjust easily, rotating wheel group and observe disc tray to find out the reason of rub.

When occur the state1 (clamp device and disc sheet shifting), 3 rings loose the spacing screw of clamp device, adjust the disc brake clamp device to the center position of disc sheet(each 1mm at both side of disc sheet and lining sheet), fixed clamp device well and lock the spacing screws.

When occur the state 2 (too narrow at the interval distance of lining sheet), loose the spacing screw of inner side lining sheet to be 1.5mm distance with disc sheet, rotate wheel group and observed the disc sheet not rubbed then OK.

Adjusted to be picture shown effect then OK



1. Second About the debugging of transmission and notices

2. About fix position screws: the fix position screws of transmission front/back pull the two screws which marked H.L on chain pull device, act as limit the speed shifting spacing stroke of transmission. (Note:don't tighten the fix position screws, the speed shifting system will be locked once tightened, caused unable to shift speed)

(Picture 1) Debugging of front pull fix position screws:H used to adjust the fix position of the chain on the max tooth tray sheet, clockwise rotate forward pull to inward move(the common situation is adjust when the chain occur sliding at big tray). Anticlockwise rotate out and front pull and outward move(the common situation is adjust when middle tray can't up to big tray and chain touched front pull).

Note:observe front pull move during the adjustment process

Adjustment of front pull fix position screw:L used to adjust the fix position of the chain on the min tooth tray sheet, clockwise rotate forward pull to inward move(the common situation adjust when chain small tray occur chain fallen,front pull touch chain). Anticlockwise rotate out and front pull and outward move(the common situation is adjust when chain at middle tray but can't fallen to small tray).

Note:observe front pull move during the adjustment process

(Picture 2) Debugging of rear pull fix position screws:H used to adjust the fix position of the chain on the min flying wheel, clockwise rotate backward pull to inward move(the common situation is adjust when the chain on small flying chain occur chain fallen and clamped on the chassis). Anticlockwise rotate out and outward move(the common situation is adjust when the chain at min but can't down to chain).

Note:observe back pull move during the adjustment process

Adjustment of rear pull fix position screw:L used to adjust the fix position of the chain on the max flying wheel sheet, clockwise rotate backward pull to inward move(the common situation is adjust when the chain can't hang on the max flying wheel).Anticlockwise rotate out and outward move(the common situation is adjust when the chain can't hang on the max flying wheel).

Note:observe front pull move during the adjustment process

The correct use of transmission

变速系统的正确使用

选择正确的档位搭配使用更耐用

- 27速车指牙盘3个盘，飞轮齿轮有9个不同速度的变速器。一边认为 $3 \times 9 = 27$ 速变速器。
- 当牙盘是1档，后面配12345档使用。
当前面是2档，后面配234567档使用。
当前面是3档，后面配789使用。

▲ 切换档位务必要是牙盘顺时针转动或骑行的过程的切换档位，禁止切换档位过程向后倒转牙盘。错误使用容易损坏变速系统。

system

Select the correct gear and mutually use will be more durable

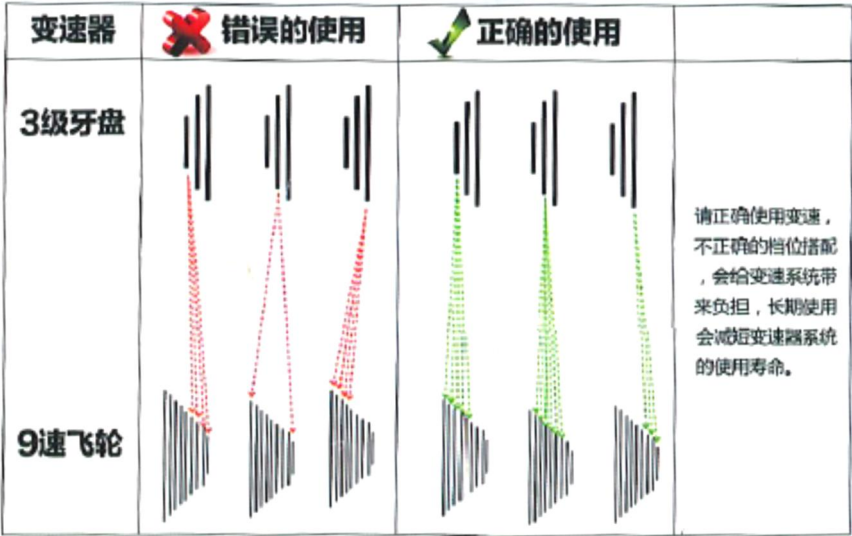
●27 speeds bike means three trays of tooth tray, flying wheel gear has the transmission at 9 different speed. We regard it as 3*9=27 speed transmission at one side.

●When tooth tray is gear 1, the follow use configured gear 1,2,3,4,5.

When front is gear 2, the follow use configured gear 2,3,4,5,6,7.

When front is gear 3, the follow use configured gear 7,8,9.

Shift gear must be tooth try clockwise rotating or shift gear during driving, forbid to backward reverse rotate tooth tray during shift gear. Error use easy to damage the transmission system.



Transmission	Error use	Correctly use	
Level 3 tooth tray 9 speeds flying wheel			Please correctly use the transmission, incorrect gear configuration will bring loading on transmission system, long time use will reduce the working life of transmission system.

FOLDERING ELECTRICAL BIKE USER MANUAL

1.Remove packaging



① Receive the package



② Open the box



③ Get out of the box



④ Prepare tools and components



⑤ Remove the packaging



⑥ Remove the front wheel

2.Assemle the handlebar



1 Loosen the bolt on top of stem



2 Loosen the bolt on side of stem



3 Turn stem 180 degree, to make sure it's forward



4 Tighten the bolt on top of stem



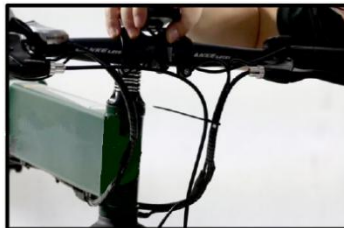
5 Tighten the bolt on side of stem



6 Release the bolt on handlebar cap



7 Take off the cap head



8 Put the handlebar on and screw down, make sure handlebar is in the central



9 Screw the cap head tightly



10 Fasten the screws tightly



11 Finish the handlebar assembling

3.Assembling headlights and fenders



① Remove the screws from the fork and prepare to install the frontlight and fender



② Screw on the frontlight and fender



③ Headlights and fenders are installed



④ Turn the bike upside down and remove the fork protector.



⑤ Release the quick release screws



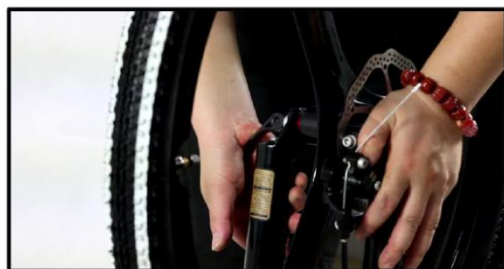
⑥ Put the wheel in the front fork



⑦ Mounting with disc brake



⑧ Install the quick release



⑨ Lock the quick release



⑩ Quick release installation completed

4.Assemble pedals



- 1 Separate left and right side pedals, WL for the left side, WR for the right



- 2 Install the correct side pedal to the crank arm



- 3 Fix it as tighten as possible

5.Assemble saddle



- 1 Adjust the height of the saddle according to your reference



- 2 Fasten the saddle clamp



- 3 Make sure it's installed within the safety line

6.Finish the assemble!



Congratulations! You have finished the assemble. Ready to Ride!

How to fold



① Find the frame folding clamp



② Open the clamps



③ Fold the frame



④ Finish the folding

How to remove the battery



① Turn the battery key for twice



② Unlock the battery



③ Pull the battery



④ Take out the battery from the frame

IF YOUR BIKE HAVE A SMART COMPUTER LIKE THIS:



PLEASE READ THE FOLLOWING INSTRUCTION:



1.PAS0 means no power assistance,by full electric power



2.PAS1 means speed level LOW,10-12mph



3.PAS2 means speed level,STANDARD, 12-14mph



4.PAS3 means speed level, HIGH,14-16mph



5.PAS4 means speed level,HIGH,16-18mph



6.PAS5 means speed level HIGH,18-20mph



Tips:

PAS1-5 has its function only under PAS riding mode.

In full electric mode, without any pedaling, please set it to PAS0. Under PAS0, the speed can not be changed by twisting the throttle. (Maximum speed: 20mph)

Please understand that the speed here is for reference; the actual speed will be affected by rider weight, carrying weight, temperature, road situations, up-hilling, bike, and battery status, etc.



How to use display panel

1. Press M for 3 seconds to turn it ON.
2. Press M for 3 seconds to turn it OFF.
3. Press ▲ to increase the speed level (PAS 5 is the highest speed level).
4. Press ▲ for 3 seconds to switch the front light.
5. Press ▼ for decrease the speed level. (PAS0, there is no power assist)
6. Press ▼ for 3 seconds to enter low speed cruising mode, 3-4mph.

IF YOUR HANDLEBAR LOOKS LIKE THIS:



PLEASE READ THE FOLLOWING INSTRUCTION:

Right Handlebar

A: Rear Derailleur Shift Lever—by press the lever while pedaling, you can select any one of seven gears on the rear wheel. The grip is labeled with the corresponding gear selection.

B: Front Brake Lever -The front brake is activated by squeezing the right brake lever (B, Figure 1). **THIS IS THE OPPOSITE OF A TRADITIONAL BICYCLE.**

C: Twist Throttle -- By twisting this grip to apply power to the motor.

D: Right Handlebar Grip



Figure 1

Left Handlebar:

A: Rear Brake Lever -The rear brake is activated by squeezing the left brake lever

(A, Figure 2). THIS IS THE OPPOSITE OF A TRADITIONAL BICYCLE.

B: Left Handlebar Grip

C: Power ON/OFF Button:

Press **M** for 3- 5 seconds to power on or power off of the ebike

D: Navigating /Cruising /Speed Down Button:

Press **▼** for 3- 5 seconds to turn on cruise function/ Press

▼ one time to speed down the motor power delivery;

E: Front Light /Speed Up Button:

Press **▲** for 3- 5 seconds to turn on/off the front light /

Press **▲** one time to speed up the motor power delivery;



Figure 2