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USER INSTRUCTIONS

Welcome to the family of SOCO owners! We will guide you to know every function for the right and safe use of TSX smart electric bikes. To ensure your safety, please read this manual carefully before riding and make sure you are always following the requirements below:

- Fully understand the information in this manual, including but not limited to the relevant instructions, precautions and warnings.
- Fully understand the operation and contingency measures of TSX smart electric bikes.
- Be fully aware of warning labels of TSX smart electric bikes.
- SOCO will take any responsibility resulting from the unauthorized modification, failure to use original spare parts, or installation of components that affect the performance and safety of the bike.

Please contact the SOCO Customer Service Center if you have any questions about this bike. We are at our service at any time. Wish you safe and pleasant riding experience!

Safety Instructions

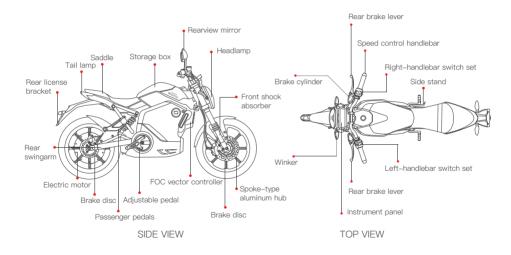
To ensure the safety of you and others, please make sure to observe the following matters:

- Do not ride after you take medications which may affect your riding ability, drink alcohol, or when you are unwell.
- Observe traffic regulations and traffic signs and confirm the surrounding road conditions and bike conditions at any time, so as to actively avoid danger.
- Wear safety equipment, such as helmet, and appropriate protective clothing if necessary, such as gloves and boots.
- Perform a basic check each time before riding, so as to confirm the light, brake, tread and tire pressure and check other parts for looseness or abnormal noise, and regularly go to SOCO Service Center for maintenance.
- In order to ensure the safety of you and others, please DO NOT use high beam in good lighting conditions. The continuous use of high beam will cause the visual disturbance to vehicles and pedestrians on the opposite side, thus affecting normal driving.
- Please do not make or answer any call during riding, which is likely to cause traffic accidents.

1

DESCRIPTION OF COMPONENTS AND PARTS

SCHEMATIC DIAGRAM OF COMPONENTS AND PARTS



DESCRIPTION OF COMPONENTS AND PARTS

DIAGRAM OF INSTRUMENT PANEL



RANGE Remaining distance per charge. RPM Current rotating speed. **TRIP** Current riding distance.

TURN ON SWITCHING ADJUSTMENT MODE

1. Press the high beam switch for 3 times

(i.e., the high beam indicator flashes for 3 times) in continuous time such as 4 seconds; 2. At this time, the current display mode

(driving range/ single mileage/ revolving speed) is flashing, indicating that the motor has entered the adjustment mode:

DISPLAY SWITCHING (DRIVING RANGE / TRIP RANGE / REVOLVING SPEED)

Turn on switching adjustment mode, and turn on or off the high beam switch to toggle

the display mode (driving range / single mileage / revolving speed) once.

Cycle the switching in this way.

REMOVE SINGLE MILEAGE

If not in trip state; debug to single mileage state (trip),

Turn on and off the high beam 6 times within 4 seconds, at which time the instrument's single mileage returns to zero.

SWITCH THE DISPLAY UNIT (KM AND MILE, KM/H AND MPH)

Retract the side stand, and enable the switching adjustment mode. Toggle the "parking brake handle switch" from OFF (P gear indicator on) to ON (in 2 seconds), and then to OFF, thus switching the display units (km and mile, km/h and mph): toggle the "parking brake handle switch" from OFF to ON (in more than 2 seconds), and then to OFF, thus turning on the LCD backlight. (Remarks: now the brightness is fixed at the brightest level).

Speed / fault code

Display current speed When fault indicator goes on, fault code will be displayed.

2 Ambient temperature Display current

ambient temperature

Display current time

Total mileage

Display the total mileage.

(a) Controller temperature Display the temperature under current operating conditions.

Real-time current

Display current output current.

Power display bar

Display current battery level

8 Power display Display current battery level.

Gear display

Display current gear

Distance per charge/ trip distance/ rotating speed

Economical Gear, corresponding to number "1" Cruising Gear, corresponding to the number "2"

sport Sport Gear, corresponding to the number "3"

↑ Fault ♠ Charging ⊖ Data connection

High beam indicator, indicating high beam on.

Parking indicator, indicating the parking state.

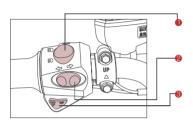
⇔ Winker indicator, flashing in synchronization with the

left and right winker.

The charge indicating lamp lights up when less than ten electricity remains.

READY The start indicator lights up when the motor can be started.

START BUTTON



High/low beam switch button

Press@Oup to turn on the high beam.
Press@Odown to turn on the low beam.

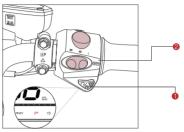
Winker button

Dial to the left side to turn on the left winker. Dial to the right side to turn on the right winker.

Horn button

Press to make a sound and release to stop.

SMART REMOTE CONTROLLER OPERATION



Parking button

Parking button has two modes: press to park the bike and parking indicator P goes on; and press again to exit the parking status.

@ Gear shift button

The bike has three modes,

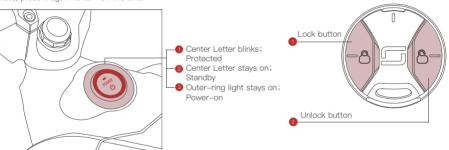
i.e., 1 "eco", 2 "normal", and 3 "sport". Dial rightwards for "eco", middle for "normal" and left for "sport".

HOW TO OPERATE THE PHYSICAL HANDLEBAR LOCK

After unlocking the bike with the Smart Remote Controller, press the start button, and the bike will be in the "Powered" state; press it again to turn off the bike.

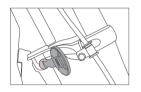
OPEN THE STORAGE BOX AND SADDLE

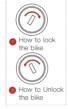
With the advanced Smart Remote Controller, you can easily lock or unlock your TSX smart electric bike by simply pressing the button within 50 meters.



- 1. Lock button. When the bike is in the [Static State], press the lock button, and the start button flashes. The bike enters the [Locked State].
- 2. Unlock button. Press the unlock button, and the start button stays on. The bike enters into the [Unlocked State].

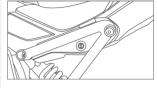
OPEN THE STORAGE BOX AND SADDLE





- After the bike stops, turn the handlebar to the far left, insert the key into the physical handlebar lock, and rotate it rightwards to lock the bike.
- Insert the key into the physical handlebar lock, and rotate it leftwards to unlock the bike.





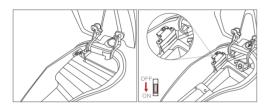
 Insert the key and rotate it rightwards, and the storage box will be opened when you hear a [Click] sound.



Insert the key and rotate it leftwards to open the saddle. Basic tools are provided inside saddle.

OPERATION OF AIR SWITCH

As the protection switch for the main power of TSX smart electric bike, the air switch will automatically disconnect to ensure safety when the bike circuit is abnormal or the current caused by short circuit exceeds the set safe value



★ TIPS: In order to protect your safety, please turn off the air switch when cleaning, storing the bike for a long time, or re-moving the battery pack.

OPERATION OF ADJUSTABLE PEDAL

The original adjustable pedal provides three riding modes, and can be adjusted for comfort.

- 1 Open the saddle and take out the included Allen wrench;
- 2 Unscrew the nut under the pedal;
- Adjust the pedal to the appropriate position (three positions) and tighten the nut.





RIDING GUIDE

CHECKS BEFORE RIDING

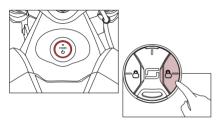
Make sure to check the following items before riding a TSX Smart Electric Bike, which will guarantee your safety on the road.

- 1. Whether the handlebar is stable and flexible when turning.
- 2. Whether the switches on the right and left handlebars can work normally.
- 3. Whether the speed control handle can work normally.
- 4.Make sure the tire pressure is normal. The suggested tire pressure is 17.5–20psi for front wheel and 20–22.5 psi for rear wheel.
- 5.Check tire surface for cracks, damage, wear, and foreign matter puncture or attachment
- 6. Whether the tread depth is sufficient (>0.8 mm).
- 7. Whether any fault warning light on the instrument panel goes on after being powered.
- 8. Whether the battery is fully charged.
- 9. Whether the head and tail lights, brake lights and winkers can work normally.
- 10. Whether the horn can work normally.
- 11. Whether the rear mirrors are clean. Adjust them to the appropriate angle.
- 12. Whether the brake oil is sufficient, and whether the handlebars and brake system can work normally.
- 13. For any abnormality or operational concern, please contact SOCO Customer Service Center.

CHECKS BEFORE RIDING

CHECKS BEFORE RIDING

Make sure to check the following items before riding a TSX Smart Electric Bike, which will guarantee your safety on the road.



2 2.Put on the helmet, ride the TSX, and retract the side stand.



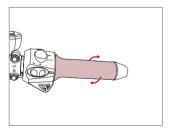


CHECKS BEFORE RIDING

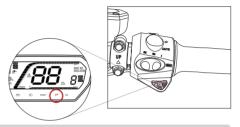
Press the "Start" button, and the bike and the enters the button to exit the parking state, "Powered" state.



6 Gently turn the handlebar to ride on the road.



Press the "Parking" button to exit the oarking state, and the parking indicator goes off.



★ TIPS:

Before riding, make sure the electronic side stand retracted and rotate the handlebar to ensure that the handlebar lock is closed.

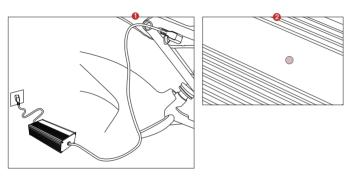
If the parking button is pressed when riding, the bike will be dis-energized. So DO NOT press it when riding for avoiding danger caused by the sudden loss of power.

If the electronic side stand is extended when riding, the bike will be dis–energized. So DO NOT extend the electronic side stand when riding for avoiding danger caused by the sudden loss of power.

The bike must be fully stopped before starting. In case of abnormality during riding, please ride carefully or push it to a safe place. DO NOT try restarting the bike during riding or on the lane so as to avoid danger.

BATTERY USE INSTRUCTIONS

O1 How to charge the battery on the bike



- 1 Insert the main charger plug into the charging port of the bike.
- 2 Insert the chargers AC power plug into the socket, and the battery starts charging when the charger indicator turns red.
- 3 The battery is fully charged if the charger indicator turns from red to green.

BATTERY USE INSTRUCTIONS

02 How to charge the battery off the bike

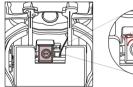
Open the storage case, close the air switch and take out the storage.







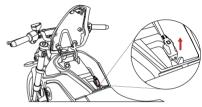
3 Insert the key into the anti-theft battery lock and rotate it rightwards to remove the battery from the bike.

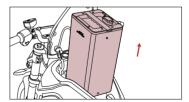




Insert the main plug of the charger into the battery charging port, and then insert the AC power plug of the charger into the socket The green lights of the charger will flash in turn when charging normally.

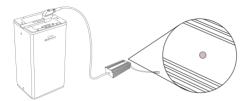
2 Disconnect the main battery plug.





BATTERY USE INSTRUCTIONS

5 When the battery is fully charged, the charge indicators are all green.



TIPS:

Short circuit of the cathode and the anode at the battery's input.

Keep it away from children, fire and heat source. It is strictly forbidden to throw it into the fire;Violent movements, shock and extrusion are prohibited; Only the specified charger can be used, and other chargers are prohibited tocharge the battery;

This product has been subject to strict inspection before leaving factory, and it is strictly prohibited to dismantle it. Please contact our company's after—sales department for any question.

TIPS:

Do not expose the battery to water, and prevent it from being damped by water or rained

Charge temperature: 0–40 °C, discharge temperature: –15–45 °C; Battery capacity will be reduced when placed in a low–temperature environment:

Charge the battery when you use it, but make sure to charge it before the capacity is lower than 20%. When it is not used for a long time, please remove it from the bike:

STORAGE, MAINTENANCE AND TRANSPORTATION

Please charge the battery to half-saturation state when storing or transporting it (after the battery is discharged, charge it for 3 hours). Place it in a dry and ventilated place;

Battery and charger should be kept in a clean, dry, and ventilated place. Keep them away from corrosive materials, power source and heat source:

Storage conditions: ambient temperature -20-40 °C, humidity < 65% RH;

When storing the charger, please disconnect it from the battery.

MAINTENANCE

Regular maintenance can enhance the service life and driving safety of the TSX smart electric bike. Please refer to the following suggestions and take care of your bike.

ROUTINE CLEANING AND MAINTENANCE

Cleaning: Please use clean water and neutral detergent to clean it, and use soft cloths and sponges to clean the surface; it is prohibited to use metal brushes, sandpaper or the like to clean it, in order not to scratch the parts surface. After cleaning, dry it with soft cloths.

TIPS:

Please disconnect the air switch before cleaning.

Do not use strong water jet to directly wash it, so as to avoid the default of mechanical parts caused by water invasion.

Storage: try to park it in a dry and cool room to reduce the exposure to sun and rain and avoid the reduction of servicelife due to corrosion of parts.

When left unused for a long time, please turn off the air switch and disconnect the power supply circuitto prevent over discharging.

After long-term storage, please fully charge it before use.

REGULAR INSPECTION AND MAINTENANCE

The new bike must be subject to the first inspection and maintenance in the SOCO Service Center when it reaches 1,000 km or two months (whichever comes first).

The bike is recommended to be subject to regular inspection and maintenance in the SOCO Service Center at every 3,000 km or six months (whichever comes first).

TIPS:

Please disconnect the air switch before cleaning.

Do not use strong water jet to directly wash it, so as to avoid the fault of mechanical parts caused by being damped.

ROUTINE CLEANING AND MAINTENANCE

Regular maintenance can improve the service life and driving safety of the TSX smart electric bikes. Please refer to the fol-lowing suggestions and take care of your bike.

| Failure | Causes | Solutions | | | |
|---|---|---|--|--|--|
| The bike has no electricity, and the start button does not shine | Battery is poorly connected Air switch is not turned on | Connect the battery properly at its main plug Turn on the air switch | | | |
| When turning the speed regulating steering handle-bar, the motor does not turn after being powered | Low battery Side stand is not retracted Parking key is not closed Brake handle does not reach the right position Steering handlebar failure The controller plug is loose Controller failure | Charge the battery Put away the side stand Close the parking key Place the brake handle at the right position Change handlebar Re-plug controller Change controller | | | |
| Speed is slow or mileage is short Low battery Under-inflated tire Heavily overloaded Brake pads interference Battery aging or normal scrap | | Charge the battery Inflate the tire, and check the tire pressure before riding Foster a good habit, and keep the appropriate lost Change the brake pads and check the brake system before riding Change battery | | | |
| Battery cannot be charged Poor contact of the main plug of the Do not use the correct charger Battery aging or normal scrap | | Check whether the main plug is in a right place Use the special charger of the SOCO Change battery | | | |

ROUTINE CLEANING AND MAINTENANCE

| Failure | Causes | Solutions |
|----------------------------|---|---|
| The instrument displays 99 | Controller communication failure | Please check if the controller connecter terminal is connected firmly. Replace the terminal. |
| The instrument displays 98 | Controller suspends operation (possible overcurrent, stall, undervoltage, or overtemperature) | Please stop for a while then starting. If the 98 code has not been removed, please check the controller or battery. |
| The instrument displays 97 | Controller power tube failure | Please replace the controller. |
| The instrument displays 96 | Controller Hall failure | Please check the dynamo Hall wire or replace the controller. |
| The instrument displays 95 | Controller handlebar failure | Please check the handlebar line or replace the handlebar. |
| The instrument displays 94 | Battery communication failure | Please check whether the power line port is well connected. |
| The instrument displays 93 | Charge overcurrent | Please stop charging and check the charger. |
| The instrument displays 92 | Charge overvoltage | Please stop charging and check the charger. |
| The instrument displays 91 | High temperature of battery | Please stop charging and stop riding. |
| The instrument displays 90 | Battery discharge overcurrent | If the instrument continues to display 90, please stop riding. |
| The instrument displays 89 | Low temperature of charging | Move the vehicle to warm indoor place and wait for a while. |
| The instrument displays 88 | Low temperature of discharge | Move the vehicle to warm indoor place and wait for a while. |

| CHECK LIST RANGE | 1000KM 3months | 3000KM 6months | 6000KM 12months | 9000KM 18months | 12000KM 24months | 15000KM 30months | 18000KM 36months | 21000KM 42months | 24000KM 48months | Torque (N·m) |
|--|-------------------|-------------------|--------------------|--------------------|---------------------|---------------------|---------------------|---------------------|---------------------|--|
| Brake fluid" | 0 | | 0 | | | | | | | |
| Tire pressure and wear" | 0 | 0 | 0 | 0 | | 0 | | 0 | | FR 175 KPa RR 200 KPa(Sing RR 225 KPa(Doub |
| Brake shoe wear degree before and after" | | 0 | 0 | 0 | | 0 | | 0 | | |
| Before and after the disc brake wear" | | | 0 | | | | | | | |
| Front axle nut fastening" | 0 | | 0 | | | | | | | 59 |
| Tighten the rear flat fork nut" | 0 | | 0 | | | | | | | 59 |
| The motor nut" | 0 | | 0 | | | | | | | 80 |
| Front and rear shock bolt fastening" | 0 | | 0 | | • | | • | | • | F.Upper 22/ F.Lower 32/R45 |
| Steering column locking nut" | | | | | | | | | | 74 |
| Front disc brake bracket fastening (coated qlue thread)" | 0 | | 0 | | | | | | | 26 |
| Front disc brake (with fastening screw glue)" | 0 | | 0 | | | | | | | 42 |
| After the disc bracket fastening (coated glue thread)" | 0 | | 0 | | | | | | | 26 |
| After the brake disc (with fastening screw glue) | 0 | | 0 | | | | | | | 42 |
| Battery" | 0 | 0 | 0 | 0 | | 0 | 1 | 0 | | |

Remark: Lithium battery test by BMS software and voltage measure by manual operation







Only iOS and Android are currently available now, please confirm your smart phone operating system in advance.

iOS system: APP only supports Apple iOS 9.0 system and above.

Android system: APP only supports Android 4.4 system and above.

| MAINTENANCE RECORD: Content: | |
|------------------------------|-------|
| | Date: |
| MAINTENANCE RECORD: Content: | |
| | Date: |

| MAINTENANCE RECORD: Content: | |
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