



TAITO®

User manual

Taito S1



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# 1. Introduction

## 1.1 Foreword

You made a good choice in buying your Taito. This manual aims to inform you about the operation and maintenance of your new Taito. Your Taito was assembled and delivered ready to use. If not, contact your Taitodealer. This manual is not intended to teach you how to assemble or repair the Taito yourself.

Find out about the local laws that currently apply to your Taito before participating in road traffic. Your Taito dealer will be able to help you with this. The legislation regulates issues such as driving licence, limits of use, age limits, equipment and possible helmet obligation. Furthermore, check whether your third-party liability insurance covers possible damages resulting from the use of your Taito.

The information in this manual covers the assembly, technology, operation, maintenance and cleaning of the Taito. For additional information on the functions and settings of your Taito, please visit the Taito website.

Thank you for your cooperation and trust in our product.

## 1.2 Use of the manual

This user manual applies to the Taito. Please read this manual carefully before your first ride in order to use the Taito safely. Keep this manual and request a new copy in case of damage. Contact your Taito dealer if you have any questions or do not understand something after reading through this manual.

If you make the Taito available to other users, also provide them with this manual and draw their attention in particular to its proper use and safety instructions.

## 1.3 Target group

This user manual is intended for anyone who uses, repairs, maintains and discards the Taito. As a user, mechanic or maintenance technician of the Taito, you should have adequate knowledge of how to handle electric scooters.

## 1.4 Symbols used

The following symbols are used in this user manual:



### **TIP**

*Gives the user suggestions and advice on how to perform a procedure more easily or conveniently.*



### **NOTE**

*A general comment that may offer increased economic utility.*



## **ENVIRONMENT**

Guidelines to be followed when using hazardous substances and when recycling products and materials.



## **CAUTION**

Indicates a hazardous situation which, if safety instructions are not observed, may result in minor to moderate injury and/or damage to the product or its surroundings.



## **WARNING**

Indicates a hazardous situation which, if safety instructions are not observed, **could** result in serious injury or death and/or serious damage to the product or its surroundings.



## **DANGER**

Indicates a hazardous situation which, if safety instructions are not observed, **will** result in serious injury or death.

## **1.5 Intended use**

The Taito is a means of transport for one person. The scooter should only be used by adult drivers who have the required driving competence. Respect the minimum age limit applicable in your country.

Intended use also includes following the regulations regarding operation, maintenance and service described in this user manual. Use the Taito only for its intended purpose.



## **WARNING**

Respect the local legal regulations for electric scooters before taking the Taito onto public roads. Those regulations may refer to:

- Lights
- Reflectors
- Brakes
- Age limits
- Restrictions/precautions when driving with children
- Wearing a helmet
- Driving licence type
- Driving competence

## **1.6 Forbidden use**

It is forbidden to use the Taito for purposes other than those stated in this manual, the safety markings or other safety documents supplied with the scooter.

Any modification to the Taito may affect safety and warranty!

It is forbidden to drill holes in the steering wheel for wiring. This will void the warranty and may result in injury or death.



It is forbidden to open the Taito for purposes not described in the chapter on maintenance.

It is forbidden to install parts on the product that are not approved by Taito Mobility. These may:

- make the operation of the product worse or prevent it,
- compromise the safety of the user or other people,
- reduce the lifespan of the product,
- cancel compliance with CE directives.

It is forbidden to ride the scooter over stairs, perform tricks or jumps.

It is forbidden to exceed the maximum permissible weight of 125 kg.

## 1.7 Lifespan

The life of the Taito depends on maintenance, intensity of use and the life of components subject to wear and tear. This mainly concerns moving parts (wheel axles, brakes, wheel hub motor, suspension, etc.) and the battery.

Regular maintenance and checks at your Taito dealer are necessary, especially in case of intensive use, to ensure driver safety.

## 1.8 Type designation

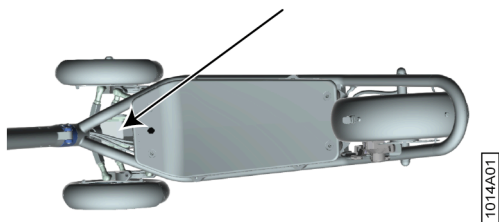


Fig. 1: Position of the rating plate



Serial number: S1-XXXX



Fig. 2: Example of a rating plate

Specification (English)	Specification	Value
Model	Model	S1
Build	Year of construction	For example: 2023
Nominal Power	Rated power	500 W
Max. Payload	Maximum permissible weight	125 kg
Net Weight	Net weight	± 18.5 kg
Max. Speed	Maximum speed	± 25 km/h
Nom. Capacity	Nominal capacity	480 Wh
DC input	DC input	54.6 V - 3 A

## 1.9 Technical details

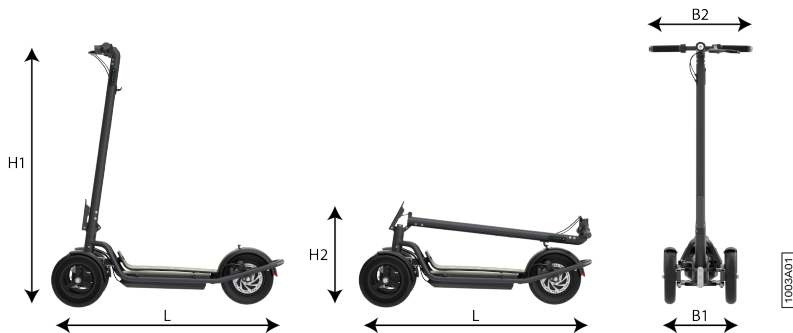


Fig. 3: Dimensions in open and folded position

Component	Property	Specification
Dimensions	L x W x H (open)	<ul style="list-style-type: none"> <li>L = 1,060 mm</li> <li>W1 = 360 mm</li> <li>W2 = 495 mm</li> <li>H1 = 1,156 mm</li> </ul>
	L x W x H (folded)	<ul style="list-style-type: none"> <li>L = 1,060 mm</li> <li>B1 = 360 mm</li> <li>B2 = 495 mm</li> <li>H2 = 375 mm</li> </ul>
Driving requirements	Load range	25 - 125 kg
	Age	According to local laws.
	Body length	According to local laws.
Key parameters	Max. speed	25 km/h
	Range	45 km*
	Max. climbing angle	20 degrees

Component	Property	Specification
	Suitable surfaces	Recommended: asphalt roads, concrete roads.  The rest is trial and error. If the wheels sink, slide or slip, the surface is not suitable.
	Ambient temperature	-10 °C to + 50 °C
	IP level of protection	IP55
Frame	Material	Aluminium & stainless steel
	Lacquer	Class 2 powder coating
	Weight	18.5 kg (battery included)
	Max. permissible weight	125 kg**
Battery	Brand	Samsung
	Capacity	480 Wh
	Charge time (to 100%)	3 hours
	DC input	54.6 V - 3 A
Motor	Power	500 W
	Peak power	1,000 W
Brakes	Type	Disc brake (rear wheel) + ABS in engine
	Regenerative	Yes
Tyres	Type	Air
	Size	10 inch
	Pressure	<ul style="list-style-type: none"> <li>• Front wheels up to 2.5 bar (36 PSI)</li> <li>• Rear wheel up to 3.1 bar (45 PSI)</li> </ul>
IoT		GPS, 4G, bluetooth
Lighting	Front/rear/grips	LED

\*Battery driving range is affected by several factors:

- Driving behaviour: accelerating a lot and hard, has a very negative impact on the driving range.
- The speed: the higher the speed, the smaller the driving range. High speed has a very negative impact on the driving range.
- Ambient temperature and weather conditions: low outdoor temperatures and strong headwinds cause the battery to discharge faster.
- The quality of the road surface and route profile: poor roads or gravel have a negative impact on driving range. Mountainous environments require more energy than flat environments.
- The weight: the weight of the driver and the weight of the Taito, including any luggage, determine how much power is needed.
- The technical condition of the Taito: dragging brakes and insufficient air pressure in the tyres reduce the driving range.
- Battery capacity itself: the ability of a fully charged battery to store a certain amount of electrical energy decreases with the age of the battery. In that case, the amount of energy that can be stored at full charge also decreases.
- Using the motor brake: the more you use the motor brake, the more it will recharge the battery.

\*\*The maximum permitted total weight is equal to the weight of the driver + the weight of the Taito as indicated on the rating plate (excluding the weight of the battery) + the weight of the battery + the weight of subsequently added options or accessories + the weight of luggage (e.g. a backpack carried by the driver).

## 2. Description

### 2.1 Parts identification

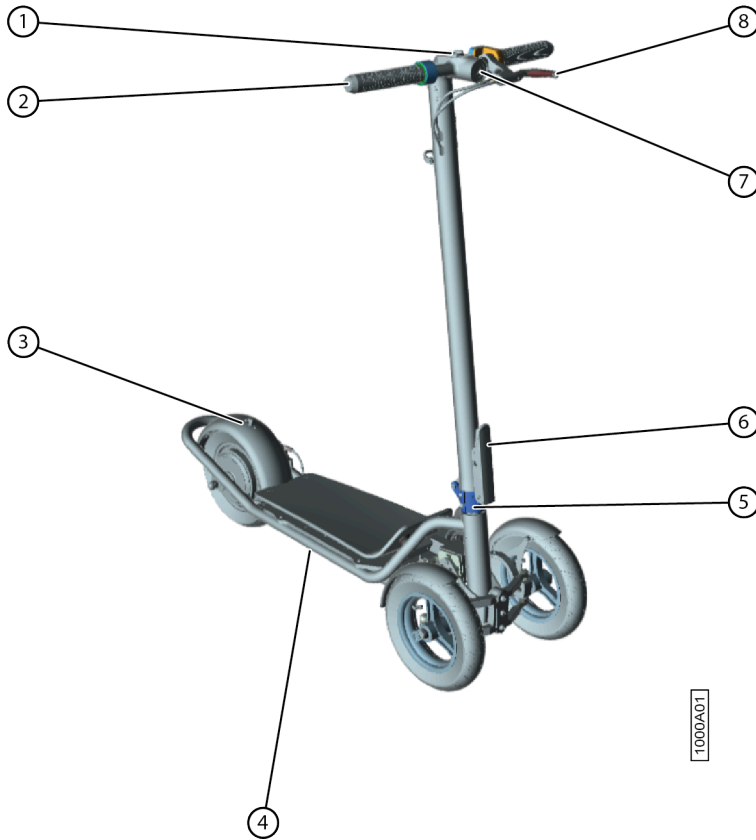


Fig. 4: Front view

No.	Component	Explanation
1	Smartphone connector	With this connector, you can attach your smartphone to the Taito.
2	Handle with built-in indicator	The handlebar has a built-in indicator and a reflector on both sides.

No.	Component	Explanation
3	Hook	This is the hook you use to clip the bar when folding the Taito.
4	Battery compartment	This compartment contains the battery and necessary electronics. This compartment must NOT be opened.
5	Folding mechanism	This is the mechanism that causes the bar to fold down.
6	Lever	This is the lever you need to loosen to fold the Taito.
7	Headlight	White lighting at the front of the Taito.
8	Brake lever	This brake lever operates the disc brake mounted on the rear wheel.

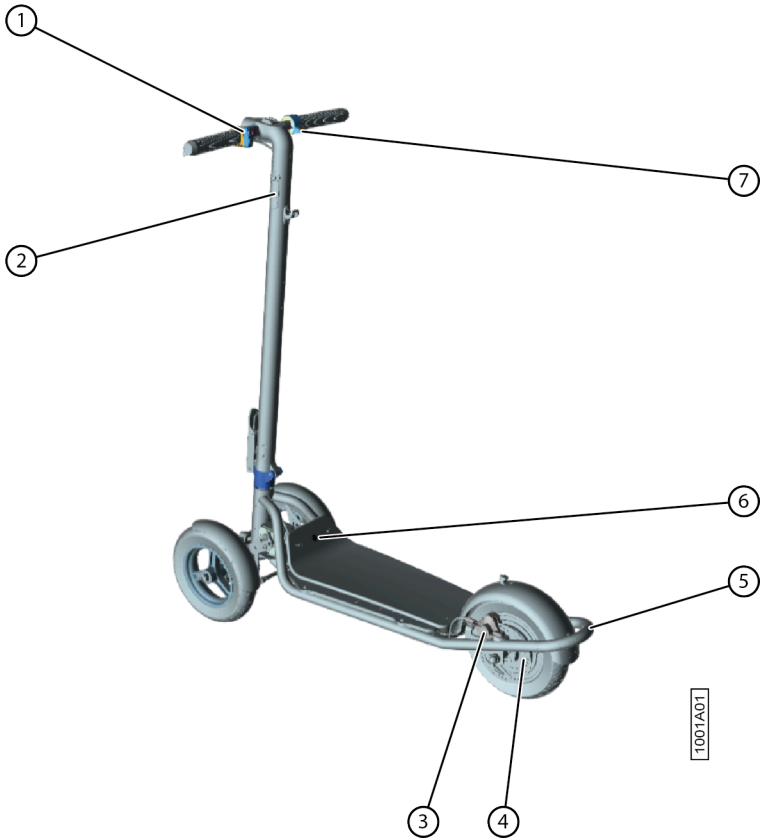


Fig. 5: Rear view

No.	Component	Explanation
1	Control buttons	These are the indicator and horn control buttons.
2	Control panel	This is where you will find the power button, battery indicator and a light sensor.
3	Disc brake	Braking is done via the disc brake on the rear wheel.
4	Wheel motor	The rear wheel is fitted with a wheel hub motor that drives the Taito.



No.	Component	Explanation
5	Rail light	There is a red tail light and a Rider Light is also fitted. The Rider Light illuminates the driver's back in a bright red light.
6	Charging port	The charging port allows you to charge the Taito.
7	Throttle	Via the throttle handle, you control the speed of the Taito.

## 2.2 Accessories and options

Optionally, an ABUS folding lock can be provided, together with a holder.

The holder is mounted on the bar.



### **NOTE**

*Always fit supplied accessories and options according to your Taitodealer's instructions. Observe the correct tightening torque for screw connections. To avoid accidents, use only original accessories and parts that fit your Taito and comply with legal regulations.*

### **3. Procedure**

#### **3.1 The operation of the Taito**

The product is an electric scooter equipped with a powerful battery that drives the wheel hub motor in the rear wheel. Speed can be controlled with a throttle handle. At the front, a manoeuvrable suspension system with 2 front wheels is provided that can be operated via the handlebars. A brake lever is provided on the handlebars to operate the disc brake on the rear wheel. When the throttle handle is released, recuperative braking is applied to the engine. This means the scooter slows down and energy is returned to the battery.

## 4. Safety

### 4.1 Safety measures

The following safety measures are provided for safe use of the electric scooter:

Provision	Explanation
Lighting	<ul style="list-style-type: none"> <li>• A front light (white headlight) is provided.</li> <li>• A tail light (red) is provided.</li> <li>• A Rider Light is provided. The Rider Light illuminates the driver's back in a bright red light.</li> <li>• White lighting is provided in both handles.</li> </ul>
Reflectors	<ul style="list-style-type: none"> <li>• On the end of both handles.</li> <li>• At the front between the wheels on the plate of the damping rubber.</li> <li>• At the back on the mudguard.</li> </ul>
Direction indicators	Direction indicators are built into the grips.
Brakes	<ul style="list-style-type: none"> <li>• When the throttle handle is released, recuperative braking is applied to the engine.</li> <li>• A brake lever is provided on the handlebars to operate the disc brake on the rear wheel.</li> </ul>
Suspension	The front suspension provides good manoeuvrability and balance.

### 4.2 Safety instructions

Observe the following precautions to reduce risks to yourself and other road users:

- Do not drive in the rain.
- Do not drive faster than 5-10 km/h over speed bumps, lift door thresholds, bumpy roads or other uneven surfaces. Bend your knee slightly to better withstand this kind of surface.
- Do not drive on busy traffic roads or in residential areas where both vehicles and pedestrians are allowed.
- Watch out for doors, lifts and other obstacles.
- Do not shift to a higher gear when going downhill and brake in good time.

- Do not press the accelerator when walking next to the scooter.
- Always avoid obstacles.
- Do not ride on stairs, do not jump over obstacles.
- Do not drive in puddles deeper than 2 cm.
- Do not hang bags or other heavy items on the handlebars.
- Don't pull wildly on the handlebars when driving fast.
- Keep your hands on the handlebars.
- Keep both feet on the platform at all times.
- Don't put your feet on the rear mudguard.
- Do not touch the brake disc.
- Do not ride together with anyone, including children.

**CAUTION**

*Read the user manual carefully before using the Taito! Keep this user manual for future reference. Also keep the supplied accessories and tools for later use.*

**WARNING**

*You should never open or disassemble the battery compartment of the Taito. This can damage the Taito and can cause serious injuries. Moreover, the warranty will be void if you do.*

**WARNING**

*Besides the intended and prohibited uses, maintenance instructions must also be followed carefully. Failure to follow it correctly may lead to breakage of the Taito. This can cause serious injuries.*

**WARNING**

*When you come across a raised surface, such as a kerb or threshold, get off and take your Taito in hand to safely negotiate the raised surface. Driving over a raised surface may result in damage to the battery compartment of the Taito. This can affect the waterproofing.*

**WARNING**

*The Taito can withstand riding in rainy weather. However, you should not immerse the Taito in water or clean it with a powerful water jet. This can damage the Taito and can cause serious injuries if malfunctioning.*

**WARNING**

*The Taito is meant for recreation. But in a public area, it is considered a vehicle, with all the risks that vehicles involve. For your own safety, follow the instructions in the manual and the traffic laws and regulations as set out by government and regulatory authorities.*

**WARNING**

*Risks cannot be completely eliminated as others may break traffic rules and drive recklessly. You are exposed to traffic accidents to the same extent as when you walk or cycle. The faster you drive, the longer it takes to come to a stop. On a slippery surface, you can slip, lose balance and even fall. It is therefore crucial to be careful, maintain the right speed and keep your distance, especially in unfamiliar terrain.*

**WARNING**

*Respect pedestrian right of way. Don't scare them while driving, especially children. When approaching pedestrians from behind, use your horn to warn them. When passing pedestrians, maintain the slowest possible speed or dismount.*

**WARNING**

*Don't lend your Taito to people who don't know how it works. When lending it to your friends, make sure they know how it works and that they wear suitable safety equipment.*

**WARNING**

*Always check Taito before use. If you notice loose parts, reports of low battery power, slack tyres, excessive wear, strange noises, malfunctions and other abnormal conditions, stop riding immediately and seek professional support.*

**WARNING**

*Keep plastic packaging away from children to prevent choking.*

**WARNING**

*Driving characteristics, such as steering and braking, are strongly influenced by the load. Distribute the load evenly and adjust your driving behaviour: keep more distance from people/ vehicles in front of you, reduce speed, brake earlier ...*

*Never exceed the permissible total weight of the Taito electric scooter.*

### 4.3 Battery

As a user, do NOT open the battery compartment. DO NOT remove or puncture the battery compartment.

- Use only the original power adapter to avoid possible damage or fire.
- Fully charge the battery after each use to prolong its life.

The following points are important for the scooter repairer:

- Only use original batteries. Using other models or brands may cause safety issues.
- Do not touch the contact points. Do not remove or puncture the battery compartment. Keep the contacts away from metal objects to prevent short circuits. Short circuiting can lead to battery damage or even injury and death.
- Improper disposal of used batteries can cause huge damage to the environment. To protect the environment, follow local regulations to properly dispose of used batteries.

### 4.4 Personal protective equipment

Follow local legislation regarding wearing protective equipment when using the scooter.

The following personal protective equipment is recommended:

- Helmet

- Sturdy shoes
- Brightly coloured and reflective clothing to increase visibility.

## 4.5 What to do if you fall?

1. Perform the necessary checks. See Checking the Taito on page 40.
2. Check the entire scooter for changes, such as bent parts and bumps or cracks in the frame.
3. Check if the handlebars have not shifted or rotated.  
If you notice any changes, do not ride any further.
4. Check for loose parts and preferably use a torque spanner to tighten them.
5. Take the Taito to an authorised dealer for inspection.

## 4.6 Hazardous substances

The product contains:

- A 480 Wh Samsung battery



### **ENVIRONMENT**

*This battery should only be removed and disposed of by a qualified professional.*

## 5. Storage and transport

### 5.1 Storing the Taito

If you do not use the Taito for a long time and want to store it to use again later, recharge the scooter's battery every 3 months.

When not in use, store the Taito indoors in a dry, cool place. Do not put the Taito outdoors for long periods of time. Due to excessive sunlight, overheating and hypothermia:

- Tyres age faster
- The lifespan and battery life of the Taito will be reduced

The temperature during storage or transport is minimum -10 °C and maximum +50 °C.

**NOTE**

*It is not advisable to leave Taito in the car in summer, as temperatures can rise above 50 °C.*

### 5.2 Moving the Taito

First put the Taito in neutral. Then you can move the Taito as follows:

- Grasp the Taito at the centre of the handlebars and push it along.
- Fold the Taito closed, grab the centre of the handlebar and carry it.
- Fold the Taito closed, grab it by the bracket at the tail light and push it along.

If you place the Taito in another vehicle or, for example, in a trailer, secure it properly so that it cannot come loose and endanger the driver, fellow passengers or other road users.

Don't take any unnecessary risks and, if necessary, ask your dealer to collect the Taito.

**NOTE**

*Make sure Taito is in neutral, otherwise the slightest movement will set off the alarm.*

## 6. Assembly and installation

### 6.1 What is included?

Check if the following items are included, if not contact your distributor.

- The Taito electric scooter
- The battery charger
- The user manual
- A Torx spanner set




**NOTE**

*Check if all parts are undamaged. Contact Taito Mobility if not.*

### 6.2 Assembling the scooter

The Taito comes fully assembled.

### 6.3 Making the Bluetooth pairing

1. Open the Taito app on your smartphone.
2. Press the **Connect my Taito** button.
3. Press the button with the bluetooth logo . The app starts searching for available devices. If the Bluetooth pairing failed, the message **Couldn't find any Bluetooth devices** appears. Try again. If the Bluetooth pairing succeeded, the message **Woohoo! You're connected now** is displayed.



## **7. First use**

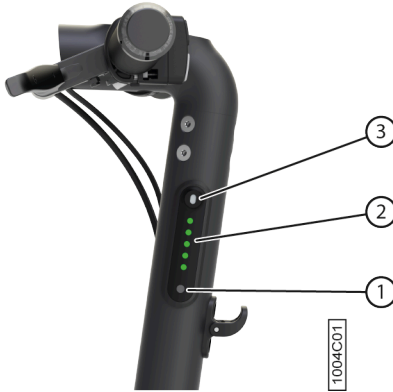
### **7.1 First use**

1. Please read all warnings and guidelines in this manual before using the Taito. If you still have questions after reading this documentation, be sure to contact your Taitodealer.
2. Fully charge the battery (the charging method is irrelevant here).
3. Get to know your Taito in a protected environment.

## 8. Operation

### 8.1 The control panel

Most control functions are available in the app, e.g. setting the lights. Consult the app to find out more.



The control panel built into the stem features the following:

No.	Name	Explanation
1	Light sensor	The light sensor determines when the lights of the Taito come on, if set to automatic in the app.
2	Battery indicator	If one LED is lit, the battery is 20% charged. If two LEDs are lit, the battery is 40% charged. Etcetera.
3	On/Off button	Using the on/off button, set the Taito to one of the following modes: <ul style="list-style-type: none"> <li>• drive (on)</li> <li>• neutral (off) - short button press</li> <li>• locked (off) - long button press</li> </ul>

### 8.2 Mounting your smartphone

1. Place an appropriate case around your smartphone.

By default, the SP connect is provided on the Taito.

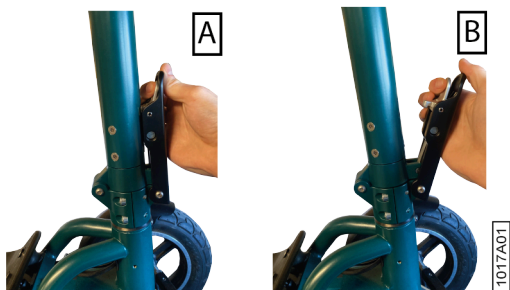
- Place your smartphone on the smartphone holder and twist 90° clockwise to secure the smartphone.
- Check if the smartphone is securely fastened.

### 8.3 Folding the Taito



Fig. 6: Folding the Taito

- Switch off the Taito.
- Hold the Taito with one hand by the stem so that the stem does not fall down when you operate the release lever.
- With the other hand, squeeze the metal plate against the release lever (A).



- Pull the release lever down to release the folding mechanism (B).
- Lower the stem (C).
- Attach the stem to the hook on the rear mudguard (D).
- Check if the stem is properly aligned with the mudguard to avoid scratches or damage to the scooter.

### 8.4 Pushing the Taito (without folding)



Fig. 7: Pushing the Taito (without folding)

1. Put the Taito in neutral.
2. Hold the handlebar in the middle with one hand to push the Taito forward.
3. Always use the footpath and zebra crossing when on foot and pushing the Taito.

## 8.5 Pushing the Taito (folded)



Fig. 8: Pushing the Taito (folded)

1. Put the Taito in neutral.
2. Fold the Taito.
3. Grab the Taito by the tail light and lift the scooter.
4. Push the scooter like you would a suitcase.
5. Always use the footpath and zebra crossing when on foot and pushing the Taito.

## 8.6 Carrying the Taito



Fig. 9: Carrying the Taito

1. Put the Taito in neutral.

2. Fold the Taito.
3. Perform one of the following actions:
  - Hold the stem with one hand or both hands to carry the Taito.
  - Hold the tail light with one hand and the frame stem on the platform with the other.
4. Always use the footpath and zebra crossing when on foot and carrying the Taito.

## 8.7 Unfolding the Taito

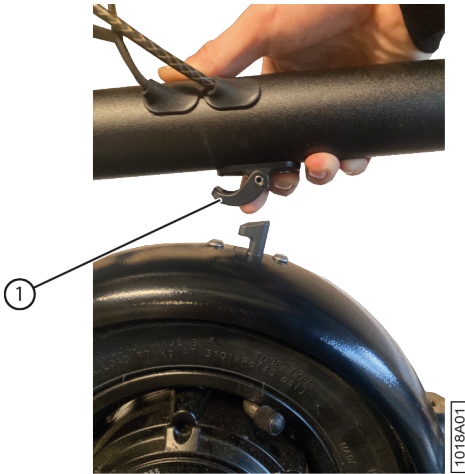


Fig. 10: Detaching the stem from the rear mudguard

1. Switch off the Taito.
2. Press the locking mechanism (1) to release the stem from the rear mudguard.
3. Straighten the stem.
4. Hold the Taito with one hand by the stem so that the stem does not fall down when you operate the release lever.
5. With the other hand, push up the release lever on the stem to engage the folding mechanism.
6. Check if the stem is securely fastened.

## 8.8 Unlocking the Taito with your smartphone

1. Open the Taito app on your smartphone.
2. Go to dashboard.
3. Swipe up to unlock Taito.

4. Hold your face in front of the camera so the app can recognise you.  
If facial recognition fails, a notification will appear and you can choose to unlock your Taito using your PIN.
5. Enter your 4-digit PIN via the numeric keypad that appears on your smartphone.
6. Press **Unlock**.  
Your Taito is now unlocked.

## 8.9 Activate the Taito

You can set what is allowed in the Taitoapp after the Taito is switched on. For example, you can set that the Taito can be used without having to pair a smartphone.



### TIP

*It is recommended to set the lights to automatic in the Taitoapp. This allows a user without a smartphone to safely use this scooter after switching it on.*

1. Depending on the status of the Taito, do the following:
  - Taito is locked: Press the on/off button for 2 seconds.
  - Taito is in neutral: Briefly press the on/off button.
2. Depending on the settings in the Taito app, you can now either:
  - start riding.
  - Pair your smartphone to unlock the Taito and then start riding.

The LEDs turn blue. The Taito is in drive mode.

## 8.10 Switching off the Taito

You can switch off the Taito, changing the Taito mode from drive to neutral. For example, to take the Taito on the train or in the car.

You can also switch off and lock the Taito if you don't use the Taito for a while.

Press the on/off button when the Taito is in drive mode.

Action	Result
Press briefly	The Taito will now go into neutral mode. The battery status LEDs turn green.
Press long (2 seconds)	The Taito is locked. The battery status LEDs are off.

## 8.11 Riding the Taito



Fig. 11: The throttle handle

1. Turn on your Taito.
2. Hold the handlebars with both hands.
3. Step onto the platform with one foot and dismount with the other.
4. When the scooter starts moving, put both feet on the platform.
5. Press the throttle handle.  
The throttle responds as soon as the speed exceeds 5 km/h.
6. Let your body tilt towards the steering direction while turning and slowly turn the handlebars.



## 8.12 Braking with the Taito



Fig. 12: The brake

The braking distance increases significantly in wet weather conditions. Adjust your driving style. Take extra care in snow or sleet.

The brake can get hot. Do not touch the brake after use. The brake lever is located on the left side of the handlebars and with it you activate the disc brake on the rear wheel.

1. Let go of the throttle handle.  
The recuperative braking system will automatically start braking slowly.
2. Squeeze the brake lever (1) to brake suddenly.

### 8.13 Using the direction indicators



Fig. 13: Using the direction indicators

The direction indicators are integrated into the handlebars.

1. On the handlebars, press the button with the left arrow (3) to operate the left direction indicator (4).
2. On the handlebars, press the right arrow button (2) to operate the right direction indicator (1).

## 8.14 Using the horn



Fig. 14: Using the horn

On the handlebar, press the button (1) to use the horn.

## 8.15 Using your smartphone as a display

To keep an eye on your speed and battery level while driving, you can use your smartphone as a display.



### CAUTION

*Never operate your smartphone while driving.*

1. Mount your smartphone. See Mounting your smartphone on page 26
2. Open the Taito app on your smartphone.



### TIP

*For more info on the Taitoapp see [www.taito.be](http://www.taito.be).*


## 8.16 Turning on the lights

The lights can only be controlled via the Taitoapp.



### TIP

*It is recommended to set the lights to automatic in the Taitoapp. This allows a user without a smartphone to use this scooter safely.*

1. Turn on your Taito.
2. Open the Taito app on your smartphone.
3. Go to the dashboard of your scooter.
4. Press the lighting icon .  
This is a toggle button. Each time you press it, the status changes to **ON**, **OFF** or **AUTO**.

## 8.17 Parking the Taito

As the Taito is equipped with three wheels, it can easily stand up without a stand.

1. Put your Taito in the place of our choice.
2. Switch off the Taito by pressing the on/off button.  
If you press briefly then Taito is in neutral. If you press long (2 seconds) then Taito is locked.

## 8.18 Charging the battery

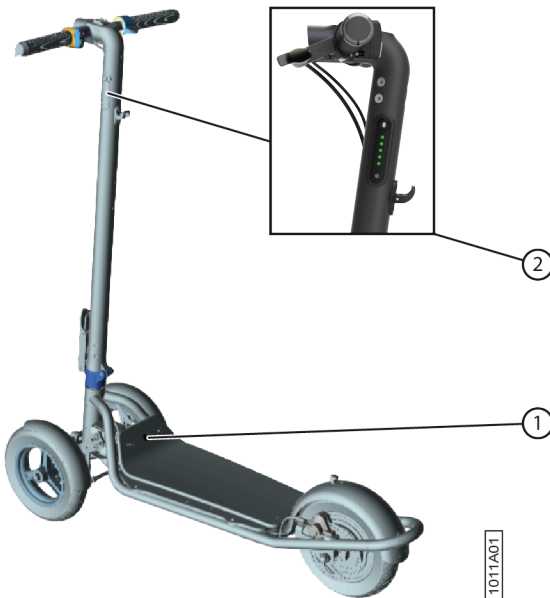


Fig. 15: Charging the battery

1. Switch off the Taito.

2. Lift the rubber flap (1).
3. Connect the power adapter to the charging port.
4. Connect the adapter to the wall socket.

During charging, the LEDs (2) light up as an animation by lighting up from bottom to top. The animation of the LEDs stops when the battery is fully charged and thus all LEDs remain lit.

5. Disconnect the charging cable from the scooter and from the wall socket when charging is complete.
6. Put the rubber flap back in place.

## **9. Settings**

### **9.1 Adjusting the disc brake**

1. Switch off the Taito.
2. Make sure the Taito is not being charged while adjusting the disc brake.
3. Loosen the bolts on the caliper using an Allen spanner.
  - a) If the brake is too tight: pull the brake cable slightly back to shorten the free length.
  - b) If the brake is too loose: loosen the brake cable slightly to extend the free length.
4. Retighten the bolts.

## 10. Maintenance

### 10.1 Maintenance schedule



#### NOTE

The specified frequency depends on the use of the Taito and the conditions while scooting.

Action	Frequency	Implementation	Executed by
Inspect	Before scooting	See Checking the Taito on page 40	Driver
Cleaning	After scooting	See Cleaning the Taito on page 39	Driver
Replace damping rubber	In case of visible or palpable wear	See Replacing the damping rubber on page 42	Driver

### 10.2 Cleaning the Taito

Do not use scouring sponges, abrasive cleaners, aggressive liquids (such as thinners), solvents containing alkali or acid (such as rust cleaners).

Regular cleaning, prolongs the life of the Taito electric scooter!

1. Switch off the Taito.
2. Check if the charging cable is disconnected.
3. Check if the rubber flap seals the charging point properly.
4. Clean the Taito with a mild soap solution and a soft waterjet.



#### CAUTION

Do NOT use a pressure washer or steam cleaner!

### 10.3 Inflating the tyres

1. Switch off the Taito.
2. Remove the screw cap from the valve of the tyre.
3. Connect the pump to the valve.
4. Inflate the tyre to the desired pressure.

Webbing	Pressure
Front tyres	Up to 2.5 bar (36 psi)
Rear tyre	Up to 3.1 bar (45 psi)

5. Replace the screw cap on the tyre valve.
6. Repeat steps 2 to 5 if you also want to inflate the other tires on.

### 10.4 Checking the Taito

Perform this check before riding the Taito electric scooter!



**WARNING**

*If you notice any problems, contact your Taitodealer.*

1. Check the battery status. See Checking the battery status on page 44.
2. Check the bluetooth pairing. See Making the Bluetooth pairing on page 24.
3. Check if the tyres are properly inflated. See Inflating the tyres on page 39.
4. Check the operation of the brakes. See Adjusting the disc brake on page 38.
5. Check if the handlebars and stem are securely attached. See Secure the handlebars on page 42.
6. Check if the wheels are correctly aligned in relation to the handlebars. See Aligning the wheels and handlebar on page 45.
7. Check if the wheels are securely fastened with the bolts.
8. Check the operation of the lights. See Turning on the lights on page 35.
9. Check the operation of the direction indicators. See Using the direction indicators on page 34.
10. Check if there is no other visible damage, sharp edges or deformations.
11. Check if the lever of the folding mechanism is properly closed. See Tightening the lever of the folding mechanism on page 45.
12. In case of intensive use, check the scooter regularly and thoroughly yourself for signs of wear, discolouration, scratches...



**WARNING**

*These may be an indication of overload, wear and tear. This may lead to serious injuries. When in the slightest doubt, go to your dealer.*

### 10.5 Removing tyres and inner tubes

Tyre levers are not included and must be purchased separately.



1. Place the Taito with the battery compartment on a platform, so that the wheels do not touch the ground.
2. Remove the wheel by loosening the nuts. Use spanner 17 for the front wheels and spanner 19 for the rear wheel.

When dismantling the rear wheel, disconnect the motor connection plug at the bottom of the battery compartment.

3. Using a tool, press the pin of the valve, allowing the air to escape from the inner tube.
4. With your other hand, push the air out of the tyre in several places.
5. Choose a location far from the valve on the outer tyre.
6. Using the two tyre levers, lift the outer tyre about 1/6 of the circumference.
7. Push one side of the outer tyre away from the rim.
8. Pull the valve out of the valve hole in the rim.



**NOTE**

*To pull out the valve more easily, hold the valve on one side and slowly pull it out, so as not to damage the inner tube.*

9. Remove the inner tube from the outer tyre bit by bit.
10. Remove the inner tube.
11. If the outer tyre also needs to be removed, pull the rest of the outer tyre over the rim.

## 10.6 Fitting inner tubes and tyres

Tyre levers are not included and must be purchased separately.

This procedure assumes that the inner tube and outer tyre have been removed from the rim.

1. Fill the deflated inner tube with a small amount of air until the inner tube looks slightly round.
2. Place the rim on the workbench.
3. Use one hand to hold the rim and the other hand to push one side of the outer tyre into the rim groove.
4. Insert the valve of the inner tube into the valve hole.
5. Insert the inner tube bit by bit into the tyre. Start at the valve and make sure the valve does not tilt.
6. Insert the other side of the tyre into the rim groove.
7. Using a tyre lever, insert the remaining tyre tabs into the rim groove.
8. Squeeze the tyre to check if the inner tube inserted tightly into the outer tyre.
9. Inflate the inner tube to 1.0-1.4 bar (15-20 psi).
10. On two sides of the outer tyre, check if the distance from the safety lines to the rim edge is the same.
11. Further inflate the inner tube to the desired pressure.

Webbing	Pressure
Front tyres	Up to 2.5 bar (36 psi)
Rear tyre	Up to 3.1 bar (45 psi)

12. Tighten the valve cap.
13. Mount the wheel by tightening the nuts. Use spanner 17 for the front wheels and spanner 19 for the rear wheel.



**TIP**

*Always mount the front wheel with the valve facing outwards. This is more convenient if you need to inflate the tyres later.*

When mounting the rear wheel, reattach the motor connector plug at the bottom of the battery compartment.

**10.7 Secure the handlebars**

If the handlebars and stem sway while riding, you can reattach them as follows:

Tighten the bolts on the folding mechanism using the Allen key.

Tighten the bolts evenly by slightly tightening the first bolt, then slightly tightening the next bolt, and so on. Then re-tighten again at the first bolt until all bolts are properly tightened.

**10.8 Replacing the damping rubber**

There are 3 types of damping rubbers, each giving a different riding feeling:

- Soft (light grey)
- Medium (dark grey)
- Hard (black)

The damping rubber can be replaced to give a different driving feel or if the damping rubber is worn out.

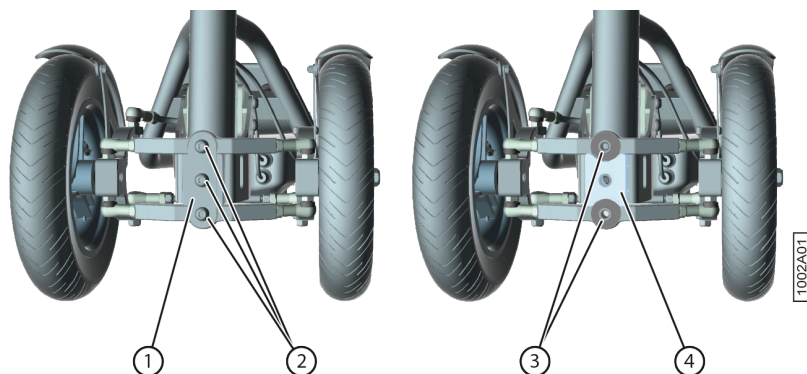


Fig. 16: Replacing the damping rubber

#### What you need

- Damping rubber
- TX50 safety bit

1. Place the Taito on a platform, so that the wheels do not touch the ground.

Make sure the battery compartment rests on the platform.

2. Hold the stem or let a second person hold the stem.

When the damping rubber is removed, Taito can tilt left or right without resistance.

3. Remove the 3 bolts (2) together with the lock washers.

4. Remove the iron plate (1).

5. Remove the plain bearings (3).

6. Remove the damping rubber (4).

7. Replace the damping rubber with a new damping rubber.

8. Reassemble everything in reverse order.

### 10.9 Required tools

- Tyre levers
- Pump
- Key 17
- Key 19
- Torx TR spanner set (included)

### 10.10 Checking the battery status



Fig. 17: Checking the battery status

You can check the battery status both on the app dashboard on your smartphone and by checking the 5 LEDs on the stem. The more LEDs light up green the fuller the battery. You can check the colour of the LEDs while driving. However, for safety, it is recommended to get off the scooter and check the battery status from the 5 LEDs.

### 10.11 Maintaining the disc brakes

Let a competent technician perform this task if you have no experience in this.



**WARNING**

*You can cut yourself on the disc brake. You can also get burned on the disc brake after intense use.*

1. Check the brake shoes and brake disc.
2. Replace the brake shoes and brake disc if necessary.

### 10.12 Replacing a wheel

1. Place the Taito with the battery compartment on a platform, so that the wheels do not touch the ground.
2. Remove the wheel by loosening the nuts. Use spanner 17 for the front wheels and spanner 19 for the rear wheel.

The wheels are provided with lock nuts. Replace the lock nuts if they have been taken off more than 10 times.

When dismantling the rear wheel, disconnect the motor connector plug at the bottom of the battery compartment.

3. Fit a new wheel and tighten the nuts.

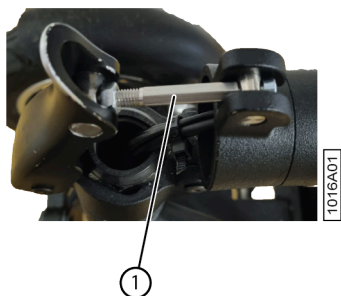
When mounting the rear wheel, reconnect the motor connector at the bottom of the battery compartment.

4. Check if the wheel turns smoothly.

If the wheel does not turn smoothly, loosen the nut back a little.

### 10.13 Tightening the lever of the folding mechanism

If the lever can be closed without much resistance then the lever should be tightened.



1. Fold up the Taito.
2. Turn the axis clockwise to tighten. To do this, place the flat spanner on the hexagon of the shaft.
3. Unfold the Taito and check the tension of the folding mechanism.
4. Repeat from step 1 until the folding mechanism is properly tensioned.

### 10.14 Aligning the wheels and handlebar

What you need:

- Hexagonal key 5 mm

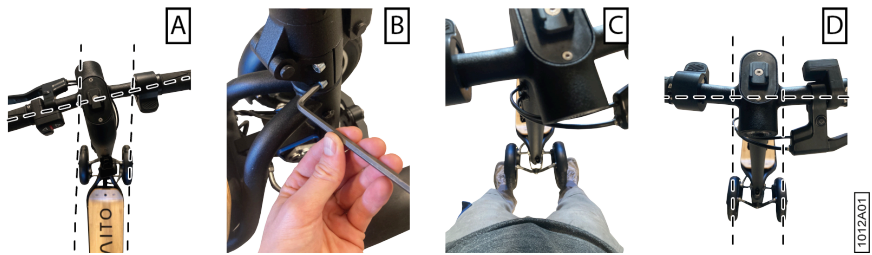


Fig. 18: Aligning the wheels and handlebar

1. Check the current position of the wheels in relation to the handlebars(A).
2. Using the Allen spanner, alternately unscrew the bolts a quarter turn until you can unscrew them further by hand (B).
3. Block the wheels with your feet and turn the handlebars until they are aligned with the wheels (C). The handlebars should be perpendicular to the direction of the wheels.
4. Using the Allen spanner, alternately tighten the bolts a quarter turn until they are hand-tight.
5. Check the new position of the wheels in relation to the handlebars (D).

### 10.15 Problems solving

Problem	Cause	Solution
The scooter breaks down.	The battery is completely drained and the scooter switches off automatically.	Charge the battery. See Charging the battery on page 36.
The scooter does not charge.	(1) The charging cable is not connected properly. (2) The battery is defective.	(1) Check if the charging cable is properly connected to the scooter and to the wall socket. (2) Contact your Taitodealer.

Problem	Cause	Solution
The scooter does not respond.	(1) The scooter is locked. (2) The lights are still on, but the scooter is not moving. The motor connector plug at the bottom of the scooter has come off.	(1) Unlock the scooter via the app on your smartphone. See Unlocking the Taito with your smartphone on page 30. (2) Connect the motor connector plug at the bottom of the step.  The lights may also have been turned off in the app! Be sure to turn on the lights in the app to check this cause.
The scooter does not brake properly.	The brake is not properly adjusted.	Adjust the disc brake. See Adjusting the disc brake on page 38.
The scooter is not riding well.	The wheels are not turning properly.	Do not tighten the nut on the wheels too hard.
The front mudguard drags.	The mudguard bracket is deformed.	Undo the bracket deformation or install a new bracket.
The wheels are not properly aligned with the handlebars.	The stem bolts are not tightened properly.	Align the handlebars with the wheels and tighten the stem bolts securely. See Aligning the wheels and handlebar on page 45.
The scooter provides insufficient support.	In the app, support is set at the lowest level.	The level of support can be set using the app. Consult the app.

**NOTE**

For the latest list of frequently asked questions, see [www.taito.be](http://www.taito.be) or contact your dealer.

## **11. Recycling**

### **11.1 Recycling the Taito**

Do NOT dispose of the Taito with your household rubbish! Follow the current local legal requirements and contact the local authority in case of doubt.

The Taito contains a non-exchangeable rechargeable battery located in the battery compartment under the platform. This battery should only be removed by an authorised professional.



## 12. Annexes

### 12.1 Warranty

**NOTE**

*The warranty is valid only for registered products and when following the service suggestions.*

The warranty is void in case of prohibited use. See Forbidden use on page 8.

For support contact Taito Mobility at [www.taito.be](http://www.taito.be).

**12.2 EC declaration**

EU - DECLARATION OF CONFORMITY

**ACCORDING TO ANNEX II.1.A. OF DIRECTIVE 2006/42/EC**

*This declaration is issued under the full responsibility of the manufacturer and concerns only the state in which the product is placed on the market.*

Company name and full address of the manufacturer:

Taito Mobility	Willem Wenemaerstraat 21 9000 GHENT Belgium
----------------	---

Name and address of the person authorised to compile the technical file. The person named below is resident in the European Community:

Nathan De Baets	Willem Wenemaerstraat 21 9000 GHENT Belgium
-----------------	---

Description and identification of the machine:

Name	Taito S1
Position	Electric scooter
Model	S1
Type	/
Serial number	S01xxxx
Trade name	Taito S1


This machine complies with all provisions of the directives listed below:

2006/42/EG	Machinery Directive
2014/30/EU	EMC Directive

2006/66/EG	Battery Directive
2014/53/EU	RED Directive

This machine complies with all the provisions of the harmonised standards listed below:

EN 17128:2020	Light motorised vehicles for the transportation of persons and goods and related facilities and not subject to type-approval for on-road use - Personal light electric vehicles (PLEV) - Requirements and test methods
---------------	--

<p><b>City:</b> GHENT</p> <p><b>Date:</b> Tuesday 24 January 2023</p>	<p><b>Identity and signature</b></p> <p>of the person authorised to draw up the declaration on behalf of the manufacturer or their authorised representative</p>  <p>Managing Director Nathan De Baets</p>
---	---

### 12.3 Spare parts



**NOTE**

See [www.taito.be](http://www.taito.be) for the latest spare parts list.

### Frame

Order number	Description
S1_001_1	Frame
S1_000_1	Cable gasket frame
S1_001_2	Round gasket frame

**Stem**

<b>Order number</b>	<b>Description</b>
S1_002_1	Steering tube
S1_002_2	Bearing set
S1_002_3	Cockpit
S1_002_4	Qi PCB
S1_002_5	Qi PCB MCU
S1_000_1	S1 Cable gasket frame
S1_002_7	Keypad PCB
S1_002_8	Keypad housing
S1_002_9	Qi Spacer

**Suspension**

<b>Order number</b>	<b>Description</b>
S1_003_1	Suspension
S1_003_2	Suspension bracket
S1_003_3	Leaning rubber
S1_003_5	Suspension arm bearing
S1_003_7	Rod end
S1_003_8	Rim
S1_003_9	Outside tyre
S1_003_10	Suspension arm thread insert
S1_003_11	Wheel axle
S1_003_12	Suspension arm
S1_003_13	Mudguard front
S1_003_14	Mudguard front bracket

Order number	Description
S1_003_15	Rosta bolt
S1_003_16	Connecting axle
S1_003_17	Flat bearing small
S1_003_18	Steering axle
S1_003_19	Wheel bracket
S1_003_20	Leaning rubber coverplate
S1_003_21	Inside tyre

### Motor

Order number	Description
S1_004_1	Motor
S1_004_2	Disc brake
S1_004_3	Brake caliper

### BlackBox

Order number	Description
S1_005_1	Blackbox
S1_005_2	Battery
S1_005_3	Motor Controller
S1_005_4	IoT Module
S1_005_5	Horn
S1_005_6	Blackbox lid
S1_005_7	Blackbox seal
S1_005_8	Blackbox foam inlay
S1_005_9	Disco PCB

Order number	Description
S1_005_12	Matrix PCB
S1_005_13	Air valve

### Rear mudguard

Order number	Description
S1_006_1	Mudguard rear
S1_006_2	Mudguard rear bracket
S1_006_3	Mudguard hook
S1_006_4	Cable cover plate

### Lights

Order number	Description
S1_007_1	Backlight top
S1_007_2	Backlight bottom
S1_007_3	Taillight
S1_007_4	Taillight diffuser
S1_007_5	Riderlight cover
S1_007_6	Riderlight PCB

### Send us

Order number	Description
S1_008_1	Throttle
S1_008_2	Indicator
S1_008_3	SP Connect
S1_008_5	Handlebars

Order number	Description
S1_008_6	Buttonpanel
S1_008_7	Brake lever
S1_008_8	Cockpit cover
S1_008_9	Cockpit cover seal S1

### Platform

Order number	Description
S1_009_1	Board
S1_009_2	Board damper

### Folding mechanism

Order number	Description
S1_010_1	Hinge bottom
S1_010_2	Hinge top
S1_010_3	Hinge latch
S1_010_4	Hinge Cylinder nut
S1_010_5	Hinge Cylinder axle
S1_010_6	Hinge set screw
S1_010_7	Hinge set screw nut
S1_010_8	Hinge safety hook
S1_010_9	Hinge cylinder bolt
S1_010_10	Hook pinscrew
S1_010_13	Hinge bearing flat
S1_010_14	Hinge bearing

**Cables**

<b>Order number</b>	<b>Description</b>
S1_011_1	Cable motorcontroller
S1_011_2	Cable lot module
S1_011_4	Cable chargingport
S1_011_5	Cable charging internal
S1_011_6	Cable front peripheral
S1_011_7	Cable motor
S1_011_8	Cable rearlights
S1_011_9	Cable cockpitmodule
S1_011_10	Cable harness
S1_011_15	Brake cable housing
S1_011_16	Brake cable

**Front light**

<b>Order number</b>	<b>Description</b>
S1_012_1	Frontlight housing
S1_012_2	Frontlight PCB
S1_012_3	Frontlight lens
S1_012_4	Frontlight gasket
S1_012_5	Frontlight cover

**Battery charger**

<b>Order number</b>	<b>Description</b>
S1_013_1	Charger



## Locking system

Order number	Description
S1_014_1	Locking bracket
S1_014_2	Locking lever
S1_014_4	Locking spring

## Steering system

Order number	Description
S1_015_1	Turning tube
S1_015_2	Steering bracket
S1_015_3	Steering axle
S1_015_4	Turning tube nut

## Packaging

Order number	Description
S1_016_1	Packaging
S1_016_2	User manual
S1_016_3	Torx toolset

## Other

Order number	Description
S1_017_1	IDTag
S1_017_2	Reflector Front
S1_017_3	Reflector side
S1_017_4	Reflector back
S1_017_5	VIN Tag

Order number	Description
S1_017_7	Cable guide
S1_017_8	Cable EZ bend
S1_017_9	Cable protective spiral



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