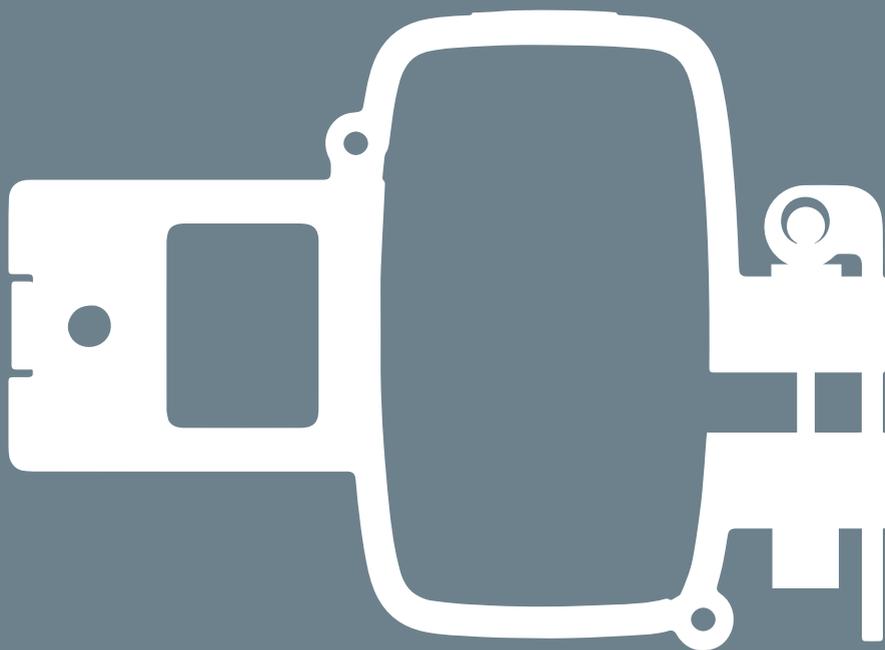


# ösa manual



Hello and Welcome!

We are extremely flattered that you have chosen to ride a CAKE electric motorbike. It's our obligation to do the best we can to serve you with product information, service, and spare parts for an effortless experience.

Our ambition is to develop uncompromising high-performance off-road motorbikes.

CAKE's mission is to inspire people, contributing to speeding up the journey towards a zero-emission society, combining excitement with responsibility.

To optimize the performance and benefits for a motorbike with an electric drivetrain, establishing a new category, we needed to start from scratch. Every little detail, hard and software has been engineered, designed, and chiseled for perfection while considering the perspectives of sustainability.

This manual should be your tool and guidance for general maintenance, safety precautions, service matters - stretching from what may be dealt with by yourself and what needs to be handed over to professional mechanics, tuning, warranty aspects, handling, and troubleshooting.

Explore with Respect

Stefan Ytterborn Founder & CEO

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## 1. Introduction and getting started

### 1.1 Introduction

Please read the manual to its entirety to ensure that you understand the functions and operation of this vehicle before you ride.

To get the most out of your ÖSA electric motorcycle, and to ensure safe operation, it's critical that you fully understand the features of this bike. This manual includes important information that every rider needs to fully understand. Please study this manual cautiously in its entirety before your first ride on your new CAKE, ÖSA. Do not ride the motorcycle until you've attained enough understanding of its controls and features.

We are a growing company that wants to get better at everything we do. Make sure you have the latest manual with up to date information on how to best take care of your ÖSA and get the most out of your vehicle.

The latest manual can be found at [www.ridecake.com/manuals](http://www.ridecake.com/manuals)

### 1.2 Unpacking

You will receive your CAKE ÖSA in a cardboard box. To ensure that the unpacking process is smooth and that you don't damage the ÖSA or yourself, make sure to go to [www.ridecake.com/manuals](http://www.ridecake.com/manuals) and see the unboxing video tutorial and how to unpack and assemble the bike.

The video features easy step-by-step guidance and what tools are needed.

### 1.3 Getting started

Before you are ready to take your first ride on the ÖSA, please follow the steps below to make sure to not make any damage to the vehicle, property, or injure yourself or others.

During transportation, the bike might have become damaged. We can't guarantee the bike's rideability as it has been strapped down for up to several weeks before you receive it. During shipping, some components might have become loose or even damaged.

- Read the manual and understand the information. If anything is unclear, please get in touch with our service team.
- Charge the battery.
- Make sure that the handlebar is tightened firmly and in a comfortable riding position.
- Check the suspension.
- Tighten and check that the assembly of the front wheel is correct and safe.

## 2. General information

### 2.1 Safety Advice

When riding a CAKE bike for the first time, there are a few things to consider. The bike has an electric motor with instant torque and a primary drive with no gears or clutch, which means you have all the power available at all times using the throttle. It's very sensitive and it's highly recommended to start riding using Ride Mode 1 in order to get used to riding the ÖSA.

- Learn the handlebar controls and how to operate the bike.
- Check the bike for any damages to make sure it's in a roadworthy condition.
- Never ride the bike under the influence of alcohol or drugs.
- Always check your local laws and regulations.
- Make sure that you have the correct driving license to operate the motorcycle on the street.
- Always use the bike with appropriate gear and protection.

### 2.2 Start-up procedure

Your bike should be fully assembled. Check the chapter "5.3 Charging" to charge the battery to full.

To start your ÖSA, follow the steps below

1. Battery. Start the battery by pressing the ON/OFF button on the right side of the battery. The button should be pushed in and you will see white LED lights indicating the battery's SOC (state of charge). Charge the battery if empty or low. The battery is now powered on.
2. Kill switch. On the right side of the handlebar, you will find the kill switch, flip the switch to activate.
3. Display. Press and hold the power button (white outline) on the display for 1 second. This will start the display and will let you enter your PIN code. The bike comes with factory settings and the generic PIN code "123". Each button has a corresponding digit, with the number being displayed on the side of the button.

### 2.3 How to change the PIN

We advise you to change the PIN to personalize your bike and avoid it from getting stolen.

Once the PIN has been changed, write it down and don't lose it. If you would lose or forget your PIN code has to be reset by the Cake service team.

Your PIN can consist of either 3 or 6 digits. The available digits are 1, 2, or 3. A PIN can for example be "131", "113", "132212" or "123321".

- 1) In the "ENTER YOUR PIN" screen, hold button 2 and 3 (middle and lower) simultaneously for 5 seconds
- 2) Enter the current PIN (factory default = "123")
- 3) Enter your new PIN
- 4) Enter your new PIN again to confirm
- 5) Your new PIN is now set, please restart the bike to make sure it works.

### 2.4 Power off procedure

Follow the below procedure to safely power off your ÖSA.

- 1) Press and hold the power button on the display for 2 seconds to de-activate the bike. The de-activation procedure can only be initiated when the motorcycle is not running.
- 2) Turn off the battery by pushing the ON/OFF button on the right side of the battery.

The "Power off" procedure can only be initiated when the motorcycle is not running.

Turn off the battery by pressing the button on the right side of the battery.

### 2.5 Steering lock

When leaving the bike unattended, always use the steering lock as a safety precaution.

The steering lock is engaged by using the bike-specific key that was sent along with the bike. The steering lock is located in front of the bike, on the left side of the main beam, above where the front fork connects to the main beam. To activate the lock, pull the handlebar so it angles to the left while twisting the key. When the key is removed, the handlebar should have some play but still have a limited range of motion.

Apart from the steering lock, CAKE always recommends all our customers to invest in a proper and approved chain and lock for motorcycle use to prevent your bike from being stolen.

## 3. Handlebar controls

### 3.1 Kill switch

The kill switch is located on the right side of the handlebar.

The kill switch is used to turn off the power to the controller. There are two different positions on the kill switch, on and off.

### 3.2 Throttle

The throttle is located on the right side of the handlebar. It's a twist throttle that gradually increases the power of the bike as you twist it.

### 3.3 Brakes

Please note that, unlike regular petrol motorcycles, both the rear and the front brake are located on the handlebar and there is no foot brake. The rear brake lever is located on the left side of the handlebar and the front brake lever is located on the right side of the handlebar.

Please be cautious when first riding, take your time to learn and get used to how the bike and braking system behaves before you ride.

## 4. Operating the display

### 4.1 Display

The Display on the stem is the bikes control panel. Here, you will be able to see the speedometer, odometer, trip meter, Ride mode, Brake mode, Service notifications, Warning signals, Limiters, and Error codes.

### 4.2 Ride Mode

The ÖSA has three different ride modes made for different types of riding. Never ride the bike above your comfort level and always ride according to your riding skills. We always recommend a new CAKE-rider to start on the first ride mode to get used to the bike and the differences between an electric motor and an internal combustion engine.

The 3 different ride modes have different attributes in terms of top speed, acceleration, and torque to suit riders of all riding levels, from beginners to professionals.

As the ÖSA Lite and ÖSA+ are different vehicles, the power modes vary depending on the model.

## 4.2A ÖSA Lite

### **Ride mode 1**

This riding mode is perfect when navigating crowded roads and top speed is not of importance. It offers you the best range and has a top speed of 30kmh/19mph.

### **Ride mode 2**

This riding mode has a top speed of 45kmh/28mph and is perfect for casual riding in the city. Best suited for when you don't want to compromise on range or top speed.

### **Ride mode 3**

This riding mode also has a top speed of 45kmh/28mph but offers greater acceleration to make sure that you are the fastest moped at any red light.

## 4.2B ÖSA+

### **Ride mode 1**

This riding mode has the best range by far. It's been optimized for city riding with a limited top speed of 45kmh/28mph while still being quick and fun.

### **Ride mode 2**

This riding mode has a top speed of 70kmh/44 mph. It has a slightly slower acceleration to conserve more energy. This riding mode is recommended to use for a better range while still being able to maintain a high top speed.

### **Ride mode 3**

This is the most powerful ride mode and has a top speed of around 90kmh/56mph. While being the most fun, use with caution as this ride mode will drain the battery more quickly.

## 4.3 Changing Ride mode

When the bike has been activated, press the middle button to cycle between the different Ride Modes. To the left of the middle button, the current Ride Mode is indicated by "RX", with X being the ride mode 1, 2, or 3. The bike will make a specific sound depending on the selected riding mode.

#### 4.4 Brake mode

The ÖSA comes with two different brake modes that you can choose from to suit your riding style.

##### **Brake mode 1**

This brake mode has the motor brake turned off. When you release the throttle, the bike keeps freewheeling making for a pleasant experience for casual cruising.

##### **Brake mode 2**

This brake mode has the motor brake activated when you release the throttle. This will slow you down gradually and can be used for greater control. All the braking power is regenerated into the battery pack for an increased range.

**WARNING:** When riding in traffic and utilizing the brake mode, the braking light will not be activated and notify other road users that you are slowing down. Use with caution and always use the mechanical brakes as a means to stop your bike when riding.

#### 4.5 Changing Brake mode

When the bike has been activated, press the lower button to cycle between Brake Mode 1 and 2. The current brake mode is indicated by "BX", with the X being either 1 or 2. The bike will make a specific sound depending on the selected riding mode.

#### 4.6 Change between Miles per hour and Kilometers per hour

When the bike has been activated, press and hold the lower button on the display to change between Mph and Kmh.

#### 4.7 Reset the trip meter

When the bike has been activated, press and hold the middle button on the display, to start a new trip, or to cancel your current trip.

#### 4.8 Change between odometer and trip meter

When the bike has been activated, press the top button on the display to switch between displaying the odometer and trip meter

## 5. Charging and Battery

### 5.1 Battery

Be careful, the battery has a high voltage and a high current. Careless handling of the battery pack can lead to serious injury or death.

- Always use both handles when carrying the battery packs.
- Always turn the battery off when the battery pack is not installed in the bike or connected by the power connector.
- Never use running water to clean the battery pack.
- Never drop the battery pack.
- Never open the battery pack.
- Never use the battery pack in other applications than what is specified in this manual.
- Never use an un-authorized DC/AC converter.
- Never short circuit any of the pins or sockets on the battery connectors.
- Always keep the connector connected to the battery pack when in use.

The ÖSA battery can also be used as a big power bank. You can find USB connectors and an automotive 12V connector on the side of the battery pack. The maximum discharge power on the USB connectors is 5V/2A (10W). The maximum discharge power on the automotive connector is 12V/15A (180W).

If you want to use your battery pack to power appliances with a higher power rating the separate power converter is required. The power converter is connected to the battery main power port and allows you to connect regular 110V/230V appliances to its standard sockets.

When disconnecting the battery pack, always turn the battery pack off with the pushbutton to make sure there is no voltage on the power pins. A short circuit on the power pins can damage the battery pack which will require a service repair. It is therefore advised to always keep the battery pack in the bike with the power connector attached.

When cleaning the battery pack, NEVER use running water on the battery pack. Irresponsible use of the battery could potentially end in a fire which can lead to serious damage or even death to people or property.

## 5.2 Removal of the battery and battery lock

Before removing the battery, turn the battery OFF. Then disconnect the big connector by pushing and pressing the yellow latch, before pulling the whole connector outwards.

The battery is secured by a lock located in the lower, front part of the battery. You access the lock by looking at the skid plate, that the battery stands on from the front. You unlock it by using the key that you received when you unpacked the ÖSA.

When the lock is unlocked, removed the Velcro, and then carefully lift the battery pack and angle it towards you. Be careful as you might create ugly marks on the frame if you are not cautious.

Warning: Without the battery locked, anyone can steal the battery without effort. Always use the lock.

## 5.3 Charging

When charging the bike, follow these steps.

ALWAYS read the charging manual before charging. Please check the charger specific manual at [www.ridecake.com/manuals](http://www.ridecake.com/manuals) to if you have any questions regarding your charger.

1. Make sure that the battery is connected to the bike.
2. Disconnect the kill switch
3. Start by plugging the charger into the charging connector found on the battery. Remove the protective plug on the charging connector by pressing the silver latch on top of the connector while pulling on the plug.
4. Plug the charger into the outlet.
5. When you have charged the bike, first disconnect the charger from the outlet and then disconnect the charger from the bike. Don't forget to put in the protective plug in the connector to avoid any dirt inside. If this step is not followed, dirt can be accumulated in the connector causing the connector to break.

- Never charge the bike without supervision.
- Never use the charger in any other application than with the CAKE ÖSA.
- Never use any other charger than the original CAKE ÖSA charger.
- Always follow the battery instructions giving above.

## 6. Ownership and maintenance

### 6.1 Cleaning

Always be cautious when cleaning the bike. The bike's electrical components can be damaged if cleaned improperly which can in turn damage the bike, property, or people.

- Never clean the bike with the battery connector disconnected. Without the connector attached, the battery is sensitive to water.
- Always make sure that the bike is standing firmly before washing and don't forget to turn the bike off.
- Never use a pressure washer or a water hose to clean the bike.

It's recommended to use pressurized air, a bucket of water together with a cloth and brush.

When cleaning the chain, use a chain cleaner and scrub the chain with a brush.

### 6.2 Clamps and accessories

The main beam is your workbench, you can modify your accessories and riding position by sliding seats, baskets and other accessories to suit your needs. There are two levers on every clamp, one for mounting the clamp onto the beam, and the other to hold your accessory.

- Always make sure that the clamp is properly tightened and that the lever is pushed all the way to the bottom to ensure that the clamp works properly. If this step is not followed properly, it could result in serious injury or even death. CAKE takes no responsibility for damages or injuries that is a result of incorrectly clamped items.
- Be careful when operating the clamps. A careless operation can result in scratches and damages to the frame.
- Never use clamps or accessories in other ways than what has been approved by CAKE.
- Always follow the instructions and limits of each accessory when using them.
- Make sure that the clamp has full contact with the beam and that there is nothing in between the clamp and the beam. If this is not followed, this can result in damages to the bike, injury, or incorrectly clamped accessories.

## 6.2 Storage

Follow these steps to ensure that your ÖSA is always in good condition and to extend the life of the bike. We recommend you to ride the bike at least once every month as some of the bike's components need to be used in order for them to stay in good condition.

Store the bike indoors away from sunshine to avoid unnecessary aging or discoloration.

- Make sure to turn the bike off with the battery button as it's otherwise in standby and will drain the battery to an unhealthy level which will shorten the lifespan of the battery.

- Never store a bike with an empty battery. The optimal SOC is 30% (1-2 bars on the dashboard).

If the bike will be stored for a longer period of time, charge the bike to 30% SOC to maximize the lifespan of the battery.

- Never store your bike in below 10° C, if you are unable to store the bike in temperature above that, remove the battery and bring it inside.

- If the bike is unused for too long. The oil inside of the forks can start to leak.

## 6.3 Crash

In the case of a crash, please go through the bike for any visual or structural damage. If you find any damage affecting the handling of the vehicle, stop riding to prevent further damage to the vehicle, yourself, or the environment around you. Get in contact with an authorized motorcycle dealer or our service team if you have any questions.

## 6.4 Troubleshooting

If your bike isn't working properly, please read the following use cases to find the solution.

If you can't find the problem you are experiencing or a solution that works for you, contact CAKE directly.

### **I can find small “shavings” from the belt.**

This is perfectly normal and happens in the beginning when you use a new belt. If the belt looks damaged and you feel unsure. Get in contact with our service team at CAKE.

### **My bike doesn't start**

Make sure to follow the start-up procedure found at the beginning of the manual. If the bike still doesn't start, send an email to our service team describing what happened and what happened before this issue occurred.

### **I have forgotten my Pin code and can't ride my bike.**

Get in contact with our service team directly.

### **I can't charge my bike.**

Follow the charging steps described in the chapter "5.3 Charging"  
Make sure that the outlet you are charging from works. After that, check that the LEDs on the chargers turn on. Also, try to use the battery's USB connector by charging your phone to check if the battery works. Send this information to our service team if nothing above works.

## **6.5 Tools**

To properly maintain and keep your ÖSA in mint condition, we always recommend you to use quality tools and to handle the bike with care. If you feel unable to do necessary maintenance, please get in touch with someone who has the proper experience.

## **6.6 Specs**

The ÖSA "+" and "Lite" are two different models with different components and requirements. Below are the technical specifications for each model.

### **ÖSA Lite**

Top speed: 45kmh / 28mph

Weight excl. Battery and rider: 65kg / 143 lbs

Gross vehicle weight rating (maximum weight): 230kg / 507 lbs

Seat height: 795mm / 31.3 inches

Wheelbase: 1340mm / 52.75 inches

Total length: 1914mm / 75.35 inches

### **ÖSA +**

Top speed: 90kmh / 56mph

Weight excl. Battery and rider: 65kg / 143 lbs

Gross vehicle weight rating (maximum weight): 230kg / 507 lbs

Seat height: 795mm / 31.3 inches

Wheelbase: 1340mm / 52.75 inches

Total length: 1914mm / 75.35 inches

## 6.7 OBD

To access the OBD on the ÖSA, you need to buy an adapter from CAKE. Please get in contact with our service team to order an adapter and information on how to connect to your bike.

## 7.0 Support and Contact

If you have problems or questions regarding the bike. Send an email to [service@ridecake.com](mailto:service@ridecake.com)

For general questions and information, get in contact with us at [hello@ridecake.com](mailto:hello@ridecake.com)

[www.ridecake.com](http://www.ridecake.com)

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This manual is constantly being updated.  
Please make sure that you have the latest one on [www.ridecake.com/manuals](http://www.ridecake.com/manuals)