

**EN**

V.1 2022



OWNER'S HANDBOOK  
ASSEMBLY & MAINTENANCE




**SUPER73-S2**

# WELCOME!

Please read this owner's handbook carefully before using your Super73 in order to become thoroughly familiar with the correct operation of your bike's controls, its features, capabilities, and limitations. This handbook includes safe riding tips, but does not contain any of the techniques and skills necessary to ride an electric bicycle safely.

**Join the Supersquad community of riders wherever you are!**

This is just the beginning of your adventure with us! We look forward to hearing about your experience and seeing you online on our social networks:

-  [Instagram.com/super73](https://www.instagram.com/super73)
  -  [Youtube.com/c/super73](https://www.youtube.com/c/super73)
  -  [Facebook.com/groups/Super73owners/](https://www.facebook.com/groups/Super73owners/)
- Tag us! @Super73 #Super73

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This handbook was drafted in the English language (Original instructions) and may have been translated into other languages as applicable (translation of Original instructions).

This handbook contains information on the Super73 electric bikes. Always store this Owner's Handbook with the Super73 and refer to it for information whenever necessary. The information contained in this publication is based on the latest information available at the time of printing.

Please note all instructions and notices are subject to change and updates without notice. Please visit [support.super73.com](https://support.super73.com) for periodic tech updates.  
Feedback: [support.super73.com](https://support.super73.com)

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## + MISSION STATEMENT +

Super73 exists to create adventure and **community**. We strive to bolster adventurous exploration through **innovation**, create positive and forward-thinking experiences with **integrity**, and cultivate enthusiastic support and vision for the community.




# GENERAL INFORMATION

Please note the following symbols:

 **WARNING!**  
Warnings, precautions, and potential risks associated with the use of your Super73.


 **Danger!**  
Possible dangers for your life and health if respective calls to action are ignored.

 **Tip!**  
Recommendation! Meaningful additional information.

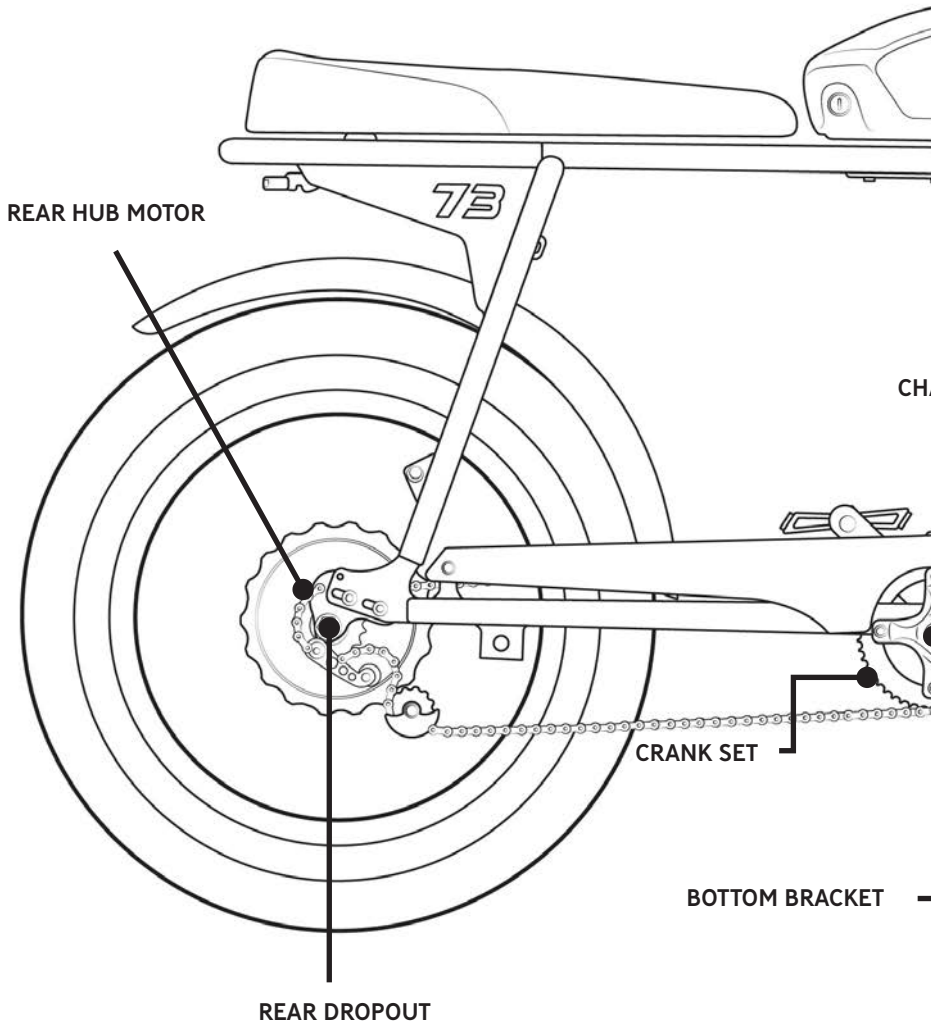
Please perform a safety check before each use, as described on in the “Pre-ride Safety Check” section on pg. 14 of this handbook. Do not ride your Super73 if it has been assembled incorrectly. Riding an incorrectly assembled bike may put your own safety at risk as well as others.

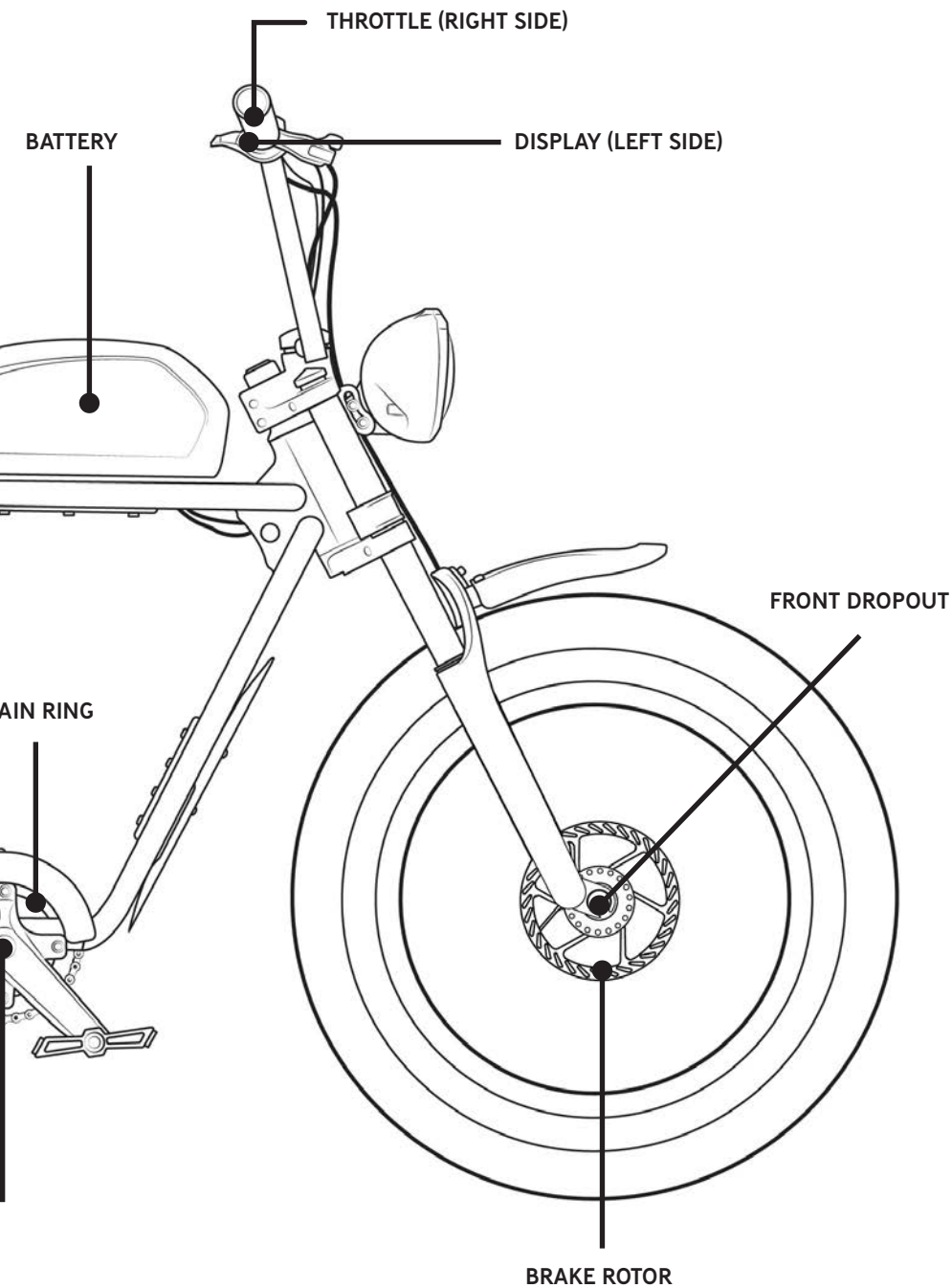
If you feel uncertain about proper configuration after assembling your Super73 according to the provided assembly instructions, please contact your specialized retailer or Super73 directly.

 **If any of the instructions are beyond your skill set, we recommend taking your Super73 to a certified E-Bike specialist or professional cycle mechanic for assembly.**


 **This owner’s handbook includes assembly and maintenance work which may need to be done at frequent intervals to maintain an operational and safe Super73. Never perform work on your Super73 beyond instructions in this handbook. This handbook is not intended as a comprehensive use, service, repair or maintenance handbook. Maintenance beyond what the owner’s handbook instructs is to be handled by an E-Bike specialist or professional cycle mechanic.**

# DIAGRAM OF THE SUPER73-S2






# LEGAL REQUIREMENTS

 Please check your country or state's regulations on electric bikes before riding. There are variations on age limit, speed, motor wattage, and road accessibility. Visit this website for more information: <https://super73.com/laws-and-policies-for-e-bikes>


In most European countries and Australia, the rules of public traffic valid for bicycles also apply to e-bikes traveling up to 25 km/h. However, there are some notable differences (such as the age limit of the cyclist). More information here: <http://bike-eu.com.s3-eu-central-1.amazonaws.com/app/uploads/2015/09/rules-regulation-on-electric-cycles-in-the-european-union-may-2017.pdf>

 For the latest information on assembly and maintenance, please visit [support.super73.com](http://support.super73.com)

## INTENDED USE

No liability or warranty shall be accepted if the use of the Super73 deviates from this intended use, if safety instructions are not observed, in the event of overloading, or if faults are not properly rectified. Similarly, no liability and warranty shall be accepted in the case of assembly errors, willful intent, accidents, and/or if care and maintenance specifications are not followed. Any modification or alterations to the electrical system (tuning) voids all claims under warranty and guarantees.

- Your Super73 electric bike is designed for use on paved paths only. You should therefore never ride on stairs, jump, or perform wheelies or similar activities.
- Super73 electric bikes are not approved for participation in competitions.
- Commercial use does not form part of the intended use.
- Operation parameters, maintenance, guidelines, and service instructions described in this manual are part of the intended use.

 Please observe the permitted overall rider weight of 325 lbs (147kg).

### **DANGER!**

If the user rides the Super73 beyond its intended use, there may be a risk of an accident, serious injury, or death, as well as risk of serious injury to those around the user.



# GETTING STARTED



## DANGER!

Please read the instructions entirely before assembly to ensure the proper functioning of the Super73. Failure to do so could result in serious injury or death and the risk of potential injury to those around the user.



## VIDEO

View our assembly video to follow step-by-step instructions on our website at [support.super73.com](http://support.super73.com)



Please **read all assembly instructions in full** before beginning the build of your new bike.



If any serious damage has occurred to your Super73 during transit, please submit photos to Super73 directly by emailing us at [customer care@Super73.com](mailto:customer care@Super73.com)

## IN THE PACKAGING

- 1 x lithium-ion battery
- 2 x keys for the battery
- 1 x battery charger
- 1 x set of pedals
- 1 x two-sided open-end wrench with 15mm and 13mm ends
- 1 x 5mm hex wrench

## ADDITIONAL RECOMMENDED TOOLS:

- 2.5 mm hex wrench
- 4 mm hex wrench

## GOOD TO KNOW:

- Bolts for the handlebars mount are M6 X 12mm socket head cap screws.
- Right pedal has the letter "R" inscribed on it, the left pedal has the letter "L" inscribed on it.
- 5mm Allen key can also be used to adjust brakes.
- Tire inner tube size is 20"x4.5 or 20"x5" for the rear and front with Schrader valve.



## DANGER!

Before performing any work on your Super73, turn off the power system and remove the battery. Be sure to also turn off the power system and remove the battery during transport in a vehicle. Involuntary activation of the pedal assistance system presents a risk of damage or injury.

# ASSEMBLY INSTRUCTIONS

**DANGER!**  
Do NOT ride your Super73 if it has been assembled incorrectly. Riding an incorrectly assembled bike can put your own safety at risk as well as others. Before your first ride, perform the pre-ride safety check on pg. 14.

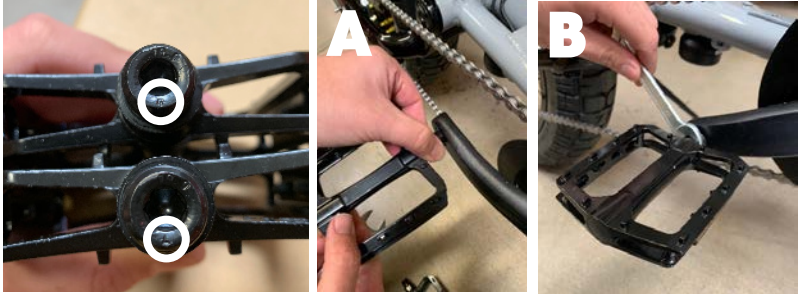
## I. HANDLEBAR INSTALLATION

- Use the **5 mm hex wrench** to remove the bolts from the handlebar clamp.
- Once the clamp is open, place the lower crossbar of the handlebar in the groove of the top crown.
- Loosely tighten the handlebar clamp with the **5 mm hex wrench**, and adjust the angle of the handlebar to rider's comfort.
- Cross-tighten the handlebar clamp from corner-to-corner making sure the clamp is tight and handlebars do not move.



## 2. INSTALL PEDALS

- A. Install and tighten the pedals using the **15 mm open wrench**. Look for a letter marking "L" "R" on each respective pedal and make sure you install the **left pedal on the left crank, and the right pedal on the right crank**.
- B. The right pedal is screwed on in a clockwise direction. The left pedal is screwed on by turning it counter-clockwise.



## 3. TIRE INFLATION

For transport purposes, tires are packed partially inflated. Tires must be inflated using a pump with a Schrader valve tip to a recommended 27-30 psi (1.86 - 2.06 bar).


- A. Inflate the tube to a max pressure of 35 PSI in order to ensure the tire is properly seated in the rim.
- B. Once properly seated, deflate to a recommended 27-30 psi (1.86 - 2.06 bar). PSI will vary based on the weight of rider and type of terrain.



The inner tube size is 20"x4.5 or 20"x5" for the rear and the front.



## 5. CHARGE THE BATTERY

 We recommend charging the battery for 4-5 hours on the first charge. This will help condition the lithium-ion cells for optimal performance.

The battery can be charged both mounted on the bike or separately from the bike. Two keys are supplied to unlock and lock the battery.

- A. Plug the charger into a 120v wall outlet (220v EU).
- B. Connect the charger cable to the battery charging port.
- C. Turn the battery on by switching the power button to the "1" position. The battery will not charge unless it is switched on.
- D. The throttle is disabled during the charge sequence and a charge icon will appear on the display during the charging process.

When the charging process starts, the charger LED turns red. Once the battery is charged, the LED turns green.

- A. Turn the battery off.
- B. Remove the charger cable from the battery charging port.
- C. Remember to put the protective cap back onto the battery charging port after charging to protect it from dirt and moisture.
- D. Unplug the charger from the socket.



Always make sure there is plenty of ventilation and a dry, fireproof environment for the charger before following these operating instructions.

- Do not leave the battery connected to the active charger for more than 48 hours.
- Do not leave the charger connected to a socket for more than 48 hours.
- Charge the battery and use the bike at least once every 90 days.
- Do not store the bike for more than 24 hours with an empty battery. This prevents a deep discharge with irreparable consequences from occurring.
- Do not use the charger if the charger, main cable, or connector cable have any visible signs of damage.
- After being charged, if the battery remains connected to the charger, it will turn on and off again in short spurts of green light. This is not a defect. It simply indicates that individual battery cells are being slowly charged. Nevertheless, make sure that the battery is not connected to the charger for more than 48 hours.




More information on range and battery care in the Maintenance and Components section on pg. 26 of this handbook.

### Battery Range

Power output will vary depending on battery capacity. If your battery is at 20%, for example, it won't have as much power as a fully charged battery. If your Super73 has been shipped to you along with the battery, please fully charge the battery first. When a battery leaves the factory, it's not fully charged as required by international air and sea legislation. Battery is fully charged when the LED light on the charger is green.

## ASSEMBLY IS FINISHED!

 You're almost ready to ride! **Before your first ride**, please verify your bike is safe to ride using the pre-ride safety check on pg. 14.



## REGISTER YOUR SUPER73

 All original owners must register on our website to validate your warranty.

Please register online at: <https://super73.com/register-product/> or scan the QR code.



If you are unable to register online, please call us at +1 (949) 649-4607 for assistance regarding registration. Write down below the following information for future reference:

Location or website of purchase: \_\_\_\_\_


Date of purchase: \_\_\_\_\_

Model name: Super73-S2


Bike Serial #: \_\_\_\_\_  
(Engraved on the underside of the bottom bracket in between the pedal cranks)

Battery Serial #: \_\_\_\_\_


Battery Key #: \_\_\_\_\_

 We recommend that you keep your original receipt with this handbook.

# PRE-RIDE SAFETY CHECK

 **DANGER!**  
Do NOT ride your Super73 if it has been assembled incorrectly. Riding an incorrectly assembled bike can put your own safety at risk as well as others.

Never operate your bike and use your app simultaneously.

 Make sure the brakes have already been applied before getting on to your bike. If the assistance mode is turned on, your Super73 will start moving as soon as you push on the pedal. The unfamiliar push can otherwise cause a fall, hazard, or accident.

## CHECKLIST:

### 1. WHEELS

- Check the condition of both tires making sure the tread is in good condition, free from punctures, cracks and deformations.
- Maintain proper tire pressure. We recommend a range of 27-30psi (1.86 - 2.06 bar) dependent on the weight of rider and type of terrain.
- Ensure wheels are true and properly dished.
- Make sure that the wheels are properly seated in the dropouts and that the wheel nuts are tight and secure.

### 2. BATTERY

- Check that the battery is inserted securely: push the battery into its holder until it clicks into the lock. Remove the key from the lock and pull the battery to check if it has indeed locked into place.
- Check the charge status of the battery. Familiarize yourself with battery charging and storage best practices.



More information on battery maintenance in our maintenance & components section of this handbook on pg. 26.

### 3. BRAKES SYSTEM

- Pull both brake levers. You should feel an obvious pressure point and the levers should not be able to touch the handle.



More information on brakes in our Maintenance & Components section.

### 4. LIGHTING

- Check if the front and rear lights are working properly. Do not cover any lighting or reflectors.

### 5. CABLES

- Look out for any loose cables.
- Make sure that every male and female plug is properly connected.
- There should be no strain on any wiring near the fork when turning the handlebars from left to right.
- Verify that the wiring on the frame is secure and free from any moving parts that may damage the wiring. This includes any wires and brake cable lines near the wheel or other moving parts.

### 6. DISPLAY

- Check that your display turns on and functions properly.

### 7. KICKSTAND

- Make sure that the kickstand is tightly secured, and not rubbing against the ground or tires.



Do not sit on a bike while the kickstand is supporting the bike.

# OPERATING THE BIKE



## DANGER!

Batteries that have not been fully inserted and locked can come loose during a ride and fall out. This can cause a crash and damage the battery.

Do not place the key or any other metal object into the charging port as this can result in a short circuit, rendering your battery nonchargeable and in need of replacement. This will void the warranty.

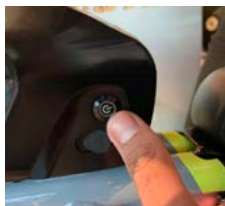


Do not sit on a bike while the kickstand is supporting the bike.



Perform brake pad bed-in process before your first ride. For more information, please see pg. 28.

## 1. POWERING BIKE ON



- Disengage the kickstand, grab the brake handle to engage the brakes, and seat yourself on the Super73.
- Switch the battery to the "I" position to turn the bike on.
- Once the display screen is illuminated, the throttle or pedal assist will be active and you're ready to ride.

## 2. CHANGING THE INFORMATION VIEWED ON THE DISPLAY



- Quick press "O" button to toggle the information viewed on the display.
  - Speed (mph)
  - Range (miles)
  - Assist (0-4)
  - Total (miles)

## 3. OPERATING LIGHTS



- The Super73 RX model comes equipped with a front headlight and rear brake light.
- To activate the lights, press and hold down the up "^" button on the display until the lights illuminate. Follow the same step to turn off the lights.
- The rear light will get brighter when the brake levers are engaged whether the headlight is on or off.



### 3. PEDAL ASSIST



To select your pedal assist mode, follow these steps once the display has been turned on and you are seated on the Super73:

- Press on the menu “O” button briefly to switch between display views until “Assist” appears on the screen.
- Press the up “^” button to increase the pedal assist level. To decrease the assist level, press the down “v” button. Pedal assist ranges from 1-4, with 0 meaning pedal assist is turned off. The higher the level, the more electric assistance you’ll get, and the less you’ll have to pedal.
- Level 1 (ECO) - 25% Speed Power
- Level 2 (TOUR) - 50% Speed Power
- Level 3 (SPORT)- 75% Speed Power
- Level 4 (SUPER) - 100% Speed Power
- Once you begin pedaling, the pedal assist sensor will activate the motor and you will begin to accelerate to the selected assist level.

### 4. BRAKING



- The brake levers are equipped with brake sensors that cut power to the motor when either of the levers are compressed. The Z employs Tektro mechanical brake systems. The right lever will activate the rear brakes when compressed, and the left lever will activate the front brakes when compressed.
- The Super73 brake orientation is as follows:  
**Rear brake = right lever**  
**Front brake = left lever**

### 5. SETTINGS MENU



- Hold down the “O” button on display to activate the settings menu.
- Settings parameters:
  - Contrast (display window contrast 0-100).
  - Units (standard is set to mi/F).
  - Position (changes the orientation of display if it is on the left or right side of the bike).
  - Back-light (display back-light power 0-100).
  - Version is the software version of the system.
  - Coin is the battery level inside display.



## 6. CHANGING RIDING MODES

- Your Super73 is equipped with MultiClass Mode selection. The bike defaults to a Class 2 mode. It is the rider's responsibility to follow local E-Bike regulations. Be sure you are up to date with your local motor vehicle codes.



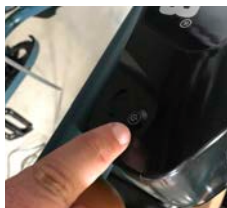
You can find links to more information on E-Bike regulations in the Legal Requirements section on pg. 8 of this handbook.

- To change the riding mode, follow instructions detailed in the mobile app controlling your display.
  - Once in the app, you can change between the following riding modes:
    - Class-1 Mode: up to 20mph (throttle deactivated, pedal assist only)
    - Class-2 Mode: up to 20mph with throttle or pedal assist
    - Class-3 Mode: up to 28mph (throttle deactivated, pedal assist only)
    - Unlimited Mode: up to 28mph with throttle or pedal assist\*
- \*Please note Unlimited Mode is intended for private property or off-road use only



More information on switching through Multi-Class Modes in the App section on pg. 20 of this handbook.


## 7. TURNING OFF THE BIKE




- When you are done riding your Super73, it is important to turn off the power properly.
- Turn off the bike by switching the power switch on the battery to the "0" position.
- You can charge the battery while it's on the Super73, or by removing the battery from the mount and charging it separately.

# Suspension Adjustment Guide

The S2 defaults to a baseline setting. Follow the guides below to adjust the suspension to your desired comfort level. The S2 is equipped with an inverted coil-spring fork with air assist and the ability to adjust lockout and rebound damping.

 If any of the instructions are beyond your skill set, we recommend taking your Super73 to a certified E-Bike specialist or professional cycle mechanic for adjustments.

 Changing suspension adjustment can change the handling and braking characteristics of your Super73. Never change suspension adjustment unless you are thoroughly familiar with the suspension system instructions and recommendations, and always check for changes in the handling and braking characteristics of the Super73 after a suspension adjustment by taking a careful test ride in a hazard-free area.

## Front Suspension Adjustments

### Adjusting Air Assist Pressure

Adjustment of air assist pressure will require a shock pump. Use Figure 1 “suggested starting air pressure” on pg. 19 to find your recommended air pressure.



- Remove the valve cap on the top left stanchion and connect your shock pump to the pressure valve.
- Review the current air pressure and adjust according to Figure 1. finetune the pressure with the shock pump to your desired comfort.
- Be sure you remove the shock pump in between adjustments as leaving it on can affect the active pressure in the suspension. After completing adjustment, reinstall the pressure valve cap.

### Measuring Sag

The recommended sag of the front fork is 20mm into the travel, which can be measured with the bumper found on the lower portion of the right stanchion. To measure sag, place your bike somewhere level where you can safely put your full weight on the bike while balanced. It is recommended to have a friend help balance the bike during this portion of adjustment.



- Slide the bumper all the way down to the top of the air chamber. Then seat yourself on the bike, engage the brakes, and move into an aggressive standing position with your feet on the pedals.
- Dismount from the bike and measure the amount of travel between the bumper and the air chamber. If the measurement is more or less than 20mm, adjust the air assist pressure appropriately.

### Adjusting Lockout

Lockout is adjusted with the dial on the top right stanchion.



- Turning the preload dial clockwise (+) will decrease compression on the suspension.
- Turning the dial counterclockwise (-) will increase compression on the suspension.

## Adjusting Rebound

Rebound is adjusted with the dial located on the bottom of the right stanchion.



- Turn the rebound dial clockwise to slow your suspension rebound (damper increase).
- Turn the rebound dial counterclockwise to speed up the rebound (damper decrease).

Figure 1

### SUGGESTED STARTING FORK AIR PRESSURE


| LBS | KG  | PSI | BAR  |
|-----|-----|-----|------|
| 125 | 57  | 70  | 4.8  |
| 145 | 66  | 78  | 5.4  |
| 165 | 75  | 86  | 5.9  |
| 185 | 84  | 94  | 6.5  |
| 205 | 93  | 102 | 7.03 |
| 225 | 102 | 110 | 7.6  |
| 245 | 111 | 118 | 8.1  |
| 265 | 120 | 126 | 8.7  |
| 285 | 129 | 134 | 9.2  |
| 305 | 138 | 142 | 9.8  |
| 325 | 148 | 150 | 10.3 |

#### Fork Pressure Limits

Minimum: 70 PSI

Maximum: 150 PSI

# SUPER73 APP

 Never ride and adjust settings on your app while in motion. Pull over and practice safe riding. By operating your bike and the app simultaneously, you put yourself at risk for collision and serious injury.

Each Super73-S2 comes programmed in the Class-2 ride mode, which allows for throttle operation and pedal assist riding up to 20mph. This allows the Z to be legally ridden on most bike paths without a license, insurance, or registration.

- Class-1 Mode: up to 20mph (throttle deactivated, pedal assist only)
- Class-2 Mode: up to 20mph with throttle or pedal assist
- Class-3 Mode: up to 28mph (throttle deactivated, pedal assist only)
- Unlimited Mode: up to 28mph with throttle or pedal assist

 Unlimited Mode is intended for private property or off-road use only

For more information on using the Super73 App, please refer to the Super73 App page <https://super73.com/super73-app> on our website.

Scan the QR code to download the SUPER73 app!



# **GENERAL WARNINGS**

Like any sport, cycling involves risk of injury and it is the rider's responsibility to assume potential risks and injury involved when riding. By choosing to ride a bicycle, you assume the responsibility for that risk. You need to know and practice the rules and safety regulations of riding this bicycle. Proper use and maintenance of your bicycle reduces risk of injury. Check your local, state, or country regulations for electric bike laws. For example, check the minimum age for using an electric bike, as this differs in various regions.

Riders must have the physical condition, reaction time, and mental capability to ride and manage traffic, road conditions, and sudden situations. Also, respect the laws governing E-Bike use in accordance with each region. If you have an impairment or disability (i.e. visual impairment, hearing impairment, physical impairment, cognitive/language impairment, seizure disorder, etc.), consult your physician before riding any bicycle.

**NOTICE:** Only take on tasks for which you have the necessary knowledge and tools. It is recommended that users pay special attention to all of the general operating rules below before operating their Super73 bike.

- When riding, obey the same road laws as all other road vehicles, including giving right of way to pedestrians and stopping at red lights and stop signs.
- For additional information, contact the road traffic authority, police department or Department of Motor Vehicles in your state or country.
- Use correct hand signals to indicate turning or stopping.
- Concentrate on the path ahead. Avoid potholes, gravel, wet or oily roads, curbs, train tracks, speed bumps, and other obstacles.
- Walk your bike across all train tracks.
- Expect the unexpected, such as opening car doors or cars backing out of driveways.
- Be aware at intersections and when preparing to pass other vehicles or other cyclists.
- Familiarize yourself with all the bike features. Practice using the brakes and throttle.
- If you are wearing loose pants, secure the bottom using leg clips or elastic bands to prevent them from being caught in the chain.
- Wear proper riding clothes and avoid wearing open-toe shoes.
- Don't carry passengers or cargo that will interfere with your ability to control the bicycle.
- Never ride and use the app simultaneously. Pull over and adjust any settings or set your destination in the navigation while in a safe spot.
- Don't use music devices such as headphones while riding. This will restrict your hearing and impair your awareness of your surrounding environment.
- Maintain a comfortable stopping distance from all other objects, riders, and vehicles. Safe braking distances are based on forces, such as weather and lighting conditions, among other variables.

## WET WEATHER



It is recommended to not ride in wet weather. The Super73 is not meant for use in puddles, heavy rain, and streams. Never immerse this product in water as the electrical system may be damaged. Take extra care while riding in wet conditions. Feet or hands can slip in wet conditions and lead to serious injury from a fall. Brake earlier as it will take longer to slow than when operating in dry conditions. Decrease riding speed. Wear reflective clothing and use approved safety lights. Road hazards are more difficult to see when wet, proceed with caution.

## RIDING AT NIGHT



Be safe! It is recommended to not ride at night. Ensure your Super73 is equipped with a full set of correctly positioned and clean reflectors. Use a properly functioning lighting set comprised of a white front light and red rear light. Wear reflective and light-colored clothing. Slow down and use familiar roads with street lighting, if possible.

## FOR PARENTS AND GUARDIANS



As a parent or guardian, you are responsible for the activities and safety of your child. The Super73 is not designed for use by children under the age of 16. Obey local regulations and always wear a helmet.

## REPLACEMENT PARTS



Use only genuine parts from Super73 for safety-critical components including: battery, charger, motor, throttle, display, controller, DC-DC Converters, lighting components, and wiring harnesses. Failure to do so could cause injuries, damage the bike, and invalidate the warranty.



When replacing components such as tires, inner tubes, and brake pads, use only parts that comply with Super73 recommended specifications in sizing and quality as directed.

## TAMPERING



Do not, in any way, tamper with the electrical components of the Super73. Tampering includes opening the protective casing of the motor, battery, charger, or breaking any tamper evident seals, as well as any other modifications of components or the electrical system. Tampering with any of the electrical system could result in serious personal injury or damage to the bike.


## BLUETOOTH




Do not use the wireless Bluetooth function in areas such as hospitals or medical institutions where it is forbidden to use electronic or wireless equipment. Otherwise, this may affect the medical equipment and cause an accident. When using the wireless Bluetooth function, keep the screen at a safe distance from any pacemakers in use. Otherwise, the radio waves may interfere with the operation of the pacemaker. Do not use the wireless Bluetooth function near to automatically controlled equipment, such as automatic doors, fire alarms, etc. Otherwise, the radio waves may interfere with the equipment and cause an accident due to a malfunction or unintended operation.

## CHARGER

- Do not use this battery charger on other electrical devices.
- Do not use any third-party charger or charging method on the battery.
- Do not allow children to use the charger without supervision.
- Do not allow the charger to be submerged in water and/or other liquids. If the charger is submerged, discontinue use.
- Do not expose the power connector, charging port, or contacts of the charger to water.
- Do not use the battery charger if the battery terminals are wet.
- Discontinue use of the charger if there is any damage to the cable, connector, or power brick.
- Do not touch the contacts of the charger with metal objects.
- Be sure there is no foreign matter in the charging port.
- Never attempt to open or modify the battery charger.
- Do not use multi-socket adapters or extension cables.
- Do not allow the charger cable to be subjected to sharp bends or kinks
- Do not place any heavy objects on the charger cable.
- Be sure to fully insert the power connector and charging plug into the socket.
- Do not use the battery charger near flammable materials.
- Do not cover the battery charger or place objects on it while in use.
- If the charger has been subjected to strong impacts, discontinue use.

 Failure to follow any of these warnings may result in electric shock, injury, fire, and/or damage to the electronics.


## RECYCLING & END OF LIFE

 Please recycle and dispose of all packaging materials in their appropriate waste bins. Please make sure that when you are done assembling your bike, the box is properly folded flat and cut into pieces to make it easier to process for recycling partners.

Never dispose of any electronics in your normal household waste receptacle. All electronics such as the motor, battery, charger, display panel, torque sensor and packaging must be disposed of and recycled responsibly.

Never dispose of any Lithium-ion battery in your household waste receptacle. You must locate your local recycling program that participates in e-waste disposal. Please visit [www.call2recycle.org](http://www.call2recycle.org) for more information on where and how to recycle in your area.

# IMPORTANT SAFETY INSTRUCTIONS

 **WARNING** – When using this product, basic precautions should always be followed, including the following:

- Read all the instructions before using the product.
- To reduce the risk of injury, close supervision is necessary when the product is used by children.
- Always wear an approved bicycle helmet whenever using this product and ensure that all helmet manufacturer instructions are used for fit and care of your helmet. Failure to wear a helmet when riding may result in serious injury or death in the event of an accident.
- Ensure the pre-ride safety check is performed on your bicycle after assembly.
- It is your responsibility to familiarize yourself with the laws and requirements of operation of this product in the area(s) where you ride.
- Ensure handlebar grips are not damaged and properly installed. Loose or damaged grips can cause you to lose control and fall.
- Off-road riding requires close attention and specific skills, as it presents variable conditions and hazards which accompany the conditions. Wear appropriate safety gear and do not ride alone in remote areas.
- Bicycles and bicycle parts have strength and integrity limitations, and extreme riding should not be performed, as you risk damaging the components or becoming seriously injured.
- After any incident, you must consider your bike unsafe to ride until an inspection is made, according to the provided safety check in the user handbook. Consult with a professional cycle mechanic for a comprehensive inspection.
- Failure to properly charge, store, or use your battery will void the warranty and may cause a hazardous situation.
- Extreme care should be taken when using the pedal assist sensor and propulsion on this product. Ensure you understand, and are prepared for the power assistance to engage as soon as pedaling is underway.
- You should check the operation of the brake inhibitor switches before each ride. The brake system is equipped with an inhibitor that shuts down the power to the electric motor whenever the brakes are engaged.
- User must understand the operation of the throttle and pedal assist levels before using, and take ample care in their usage at speeds appropriate for each region and user experience level. Use the lowest assist level until you are comfortable with the bike and feel confident in controlling the power.
- Because E-Bikes are heavier and faster than normal bicycles, they require extra caution and care while riding.
- Do not remove the front, rear or pedal reflectors.
- Any after-market modifications to any electrical component on your Super73 not expressly approved by Super73 may void the warranty and create an unsafe riding experience.
- Do not put fingers or hands into the product.
- Do not use this product if the flexible power cord or output cable is frayed, has broken insulation, or any other signs of damage.
- This equipment is not intended to be used at ambient temperatures less than 4C (40F) or above ambient temperatures of 30C (85F).
- The battery is intended to be charged when the ambient temperature is between 4C (40F) and 30C (85F). Never charge the battery when ambient temperatures are outside this range.



**SAVE THESE INSTRUCTIONS**



# MAINTENANCE SCHEDULE



## DANGER!

Intensive use of the Super73 may cause possible damage to the frame and the fork. It is important to inspect the frame and the fork and look for signs of cracks. A broken or cracked frame and fork can cause an accident and injury. Refer to the Intended Use section on pg. 8.

In order to prolong the life expectancy of your bike, here is an example of a maintenance schedule, under intended use, that we recommend:

### 1. BEFORE AND AFTER EACH RIDE

- Check the alignment of the wheels.
- Check the state of charge of the battery.
- Check that brakes function properly.
- Check tires for any punctures.
- Store the bike carefully in a clean and dry place.
- Check that your kickstand is tightly secured.
- Check for loose cables or wires that may be strained when turning the front wheel from left to right.
- Inspect all hardware to ensure it is properly tightened.

### 2. EVERY MONTH

- Inspect the handlebar and steer tube for any unusual movement.
- Check the cables, tires, handles.
- Check the wear of brake rotors, brake pads, and replace them if necessary.
- Check the tension of the spokes, and ensure that the wheels are true and properly dished.
- Lube the chain and check the tension in the chain.
- Inspect suspension components for wear and make any necessary adjustments.
- Inspect all hardware to ensure it is properly tightened

### 3. EVERY SIX MONTHS (depending on frequency and type of use)

- Inspect the frame, fork and look for signs of cracks in the metal.
- Check the bottom bracket and crankshaft and tighten the bolts on each crank.
- Check and grease the wheel hubs, headset, all parts in friction.
- Grease suspension components and tighten hardware.



For your own safety, if any of the recommended maintenance procedures are not within your skill set, we advise taking your Super73 to an E-bike specialist or professional cycle mechanic for inspection.



## DANGER!

Do not continue to ride your Super73 if any failure of hardware including bolts and fasteners integral to the brake system or wheel assembly should occur. Riding your Super73 with failed or missing hardware may put you at risk for potential injury or death.

# MAINTENANCE & COMPONENTS



## DANGER!

Before performing any work on your Super73 electronics system, turn off the system and remove the battery. Involuntary activation of the Super73 system poses a risk of injury.

## WASHING AND CARING FOR YOUR BIKE

Dirt, salt, and other elements can damage your bike. Regularly clean your Super73 and protect it against corrosion. Use clear water for cleaning and a gentle soap if necessary to dissolve grease and other residues. Do not spray water directly onto your Super73.

Instead, use a lightly damp cloth to wipe down any dirt or debris. After drying your bike, treat surfaces with a care product. Finally, wipe all parts with a clean, soft cloth.



Do not clean your Super73 with a strong water jet or steam jet from a short distance. The water can get past the seals and get inside the bearings. Lubricants are then diluted, increasing friction. In the long run, the bearing surfaces will deteriorate.

## TIRES / WHEELS

The Super73-S2 has tire sizes of 20"x4.5" in the front and 20"x5" in the rear with inner tubes and a rim liner. The inner tube size for the tires is 20"x4.5 or 20"x5". The tires are designed for durability and safety for regular cycling activities. However, tires must be checked before each use for proper inflation and condition.

Proper inflation, good maintenance, and quick replacement will help ensure that the operational characteristics of your bike will be maintained and dangerous conditions avoided.

Tires must be inflated using a pump with a Schrader valve tip with a recommended pressure between 27 and 30 psi (1.86 -2.06 bar). Check the condition of the tires and rims for damage, cracks or deformation. The minimal tightening torque of the wheel nuts is 16ft/lb (21.69 Nm).

It is essential that the proper air pressure is maintained in the tires all the time. Do not under-inflate or over-inflate your tires. Low pressure can cause loss of control and tires that are too inflated can burst. Failure to maintain proper air pressure rating indicated in the handbook may at any time result in tire and / or wheel failure.

Inflate your tires from a regulated air source with an available manometer. Inflating your tires with an unregulated air source could over-inflate them, resulting in an exploded tire. When tire wear becomes obvious or a hole in the tire is found, you must replace the tires and/or tubes before using the bike, otherwise injury to operators and/or damage to your bike could occur.




In addition to proper inflation, correct wheel alignment helps to decrease tire wear. If you find a tire is worn unevenly, have a professional cycle mechanic check the wheel alignment.


## HELMETS / REFLECTORS

A properly fitting ANSI or SNELL, (or CE if you are located in Europe), approved bicycle safety helmet should be worn at all times when riding your bicycle, or recommended per your local laws. Always wear a properly fitted helmet that covers the forehead when riding a bicycle. Many states require specific safety devices. It is your responsibility to familiarize yourself with the laws of the state where you ride and to comply with all applicable laws, including properly equipping yourself and your bike as the law requires.

Reflectors are important safety devices that are designed as an integral part of your bicycle. Federal regulations require every bicycle to be equipped with front, rear, wheel, and pedal reflectors. These reflectors are designed to pick up and reflect street-lights and car lights in a way that helps you to be seen and recognized as a moving bicyclist. Check reflectors and their mounting brackets regularly to make sure they are clean, straight, unbroken, and securely mounted.

## BRAKES

 Brakes are an integral part of the operation of your bike and must be properly maintained, adjusted, and replaced when necessary. If any of these tasks are not within your skill set, we recommend taking your bike to an E-Bike specialist or professional cycle mechanic.

 Mechanical brake lines require maintenance not only on the pads and rotors but also on the mechanical brake cable.

For optimum braking performance, Super73 bikes are equipped with Tektro disc brakes. Tektro brake adjustment manuals are available on [www.tekro.com](http://www.tekro.com).

The Super73 brake orientation is as follows:

Rear brake = right lever

Front brake = left lever

**Brake Models: Mechanical (HD-E350)**

<https://www.tekro.com/products.php?p=242>

**Brake pads: Tektro E10.11**

<https://www.tekro.com/products.php?p=226>

On a hydraulic disc brake, pad wear is compensated automatically. Simply check the alignment of the pads with the disc and check that the wheel is aligned too. Good alignment ensures the absence of noise and normal wear of the pads.

To ensure maximum service life of the brake components, avoid contamination of the pads and the disc by greasy substances.

Regularly check the condition of your cables, ducts or harness and the wear of your pads.

Some discs are only compatible with “resin” pads. Do not use a metal pad with discs marked “resin”.

For better ergonomics and safety, we advise you to adjust the brake levers in a position that places it as a natural extension of the user’s arms. If you have any questions or concerns, please contact Super73.

## NEW BRAKE PAD & ROTOR BED-IN PROCESS

Any time you replace your brake pads, rotors, or both, it is important they are properly bedded for optimal performance. To bed your brakes properly after replacement, accelerate your bike up to 20mph and then engage your brakes to bring the bike to a near stop, then repeat the process up to 8-10 times. This process allows your pads to wear evenly as well as remove surface glaze and contamination from installation. Surface glaze on pads may cause "squealing brakes."

## REPLACING THE PADS

When pads are worn, make sure to adjust both clearances between the rotor and pad so that they are equal and balanced. If only one side is adjusted, it may cause braking failure.

1. Pads and pad holders are held in place by a 3mm pad retainer bolt on the caliper. To remove the pads and pad holder, unscrew the retainer bolt, then gently push out the pads and holder. This may be easier to achieve by using an Allen wrench.
2. Once free of the caliper, the pads may be easily removed from the pad holder.


## THE TEKTRON WARRANTY


Super73 brakes are from the Tektro brand. For any manufacturing problems or questions related to Tektro brakes, you can contact the local Tektro representative. The contact details of the distributors and places of services: <http://www.tektron.com/service-a.php?t=1>

## BATTERY

 The battery is the most important component of your Super73. By following the best practices below, you can optimize its life:

- Do not store a discharged battery. It could go into deep discharge which will reduce its life. Batteries in deep discharge are not covered under warranty.
- Do not use more than one battery at a time.
- Make it a habit to recharge at the end of each ride, so your bike will always be ready to go again.
- Even if the battery can withstand storage temperatures of 23°F - 104°F (-10°C - 40°C), you can optimize its shelf life by storing it at room temperature 65°-75°F (18° - 23°C).
- Observe operating conditions between 40°F - 85°F (4°C - 30°C).
- Do not leave your battery exposed to high temperatures or direct sunlight for long periods of time (for example, on the back of a car in direct sunlight).
- Please ensure that the contacts are always clean and do not insert metal objects.
- Do not dispose of the battery in your trash. There are proper disposal methods for lithium-ion batteries. Please check your local waste management regulations.

 Do not open the battery or charger. There is a risk of short circuit. Opening the battery or charger will void the warranty. Protect the battery and charger against mechanical damage, heat (in case of prolonged exposure to sunlight), fire, and immersion in water. There is a risk of explosion. In case of damage and improper use of the battery or charger, vapors may emanate. Keep children away from the battery and charger.

 Please follow proper charging instructions before charging the battery found on pg. 12. To charge the battery, use only the original charger or charger approved by the manufacturer. Remove the battery from the charger and disconnect the charger from the power supply when charging is complete.

## RANGE

The maximum range of a full charge depends on many variables such as: age of battery, type of terrain and incline, rider weight, speed, outside temperature, driving style, amount of pedaling, or tire pressure.

### Range in cold weather:

- In case of extreme cold, the range of your electric bike is reduced. It is a normal physical process, and in no case a damage or defect of the battery. If you use your battery when temperatures rise, its energy will increase again.
- We advise you to store the battery and charge it at room temperature during cold days. The power consumption warms the battery and you benefit from a good battery life, even when it is cold outside.
- In winter, however, plan for shorter trips or pedal with a lower level of assistance.

### Conditions that affect your battery's range:

- Temperature: Extreme cold and heat can affect the battery's capacity.
- Total Number of Charge Cycles: As the battery ages, total capacity can decrease.
- The battery has a total of 1,000 full cycles when it's new.
- Wind: Riding into a strong headwind can decrease range.
- Road Conditions: Excessively rough or hilly terrain requires the consumption of more power.
- Load: Carrying extra cargo on the bike or in a backpack will use more energy.
- Rider Weight: please observe the max weight of 325 lbs (147kg).
- Repeated acceleration from a standing start.
- Poor Maintenance: Under-inflated tires, maladjusted brakes, a dry or dirty chain can decrease range.

### Tips for Maximizing Range:

- Charge the battery at a comfortable temperature range between 65°F - 75°F (18.3°C- 23.9°C).
- Lithium-ion batteries have no chemical memory, and it is not necessary to discharge the battery completely for the best performance. Charging a partially full battery will have no negative effect.
- Maintain proper tire pressure and lube the chain regularly.
- Operating temperatures between 40°F - 85°F (4°C - 30°C) will significantly increase range.



## DANGER!

Never charge the battery in a flammable environment. For safety reasons, the charger and the battery must be placed on a dry, non-flammable surface.

Never charge or use a defective or damaged battery or charger. Never send a battery by postal mail by yourself! A battery is in the category of hazardous/dangerous goods and requires certification to send by mail. Doing so without proper certification is punishable by law.

Immediately remove the battery from the Super73 if you notice damage to the electrical system and visit your local E-bike Specialist for inspection or contact Super73 directly. Any lack of professional expertise may cause damage or serious injury.

## SEAT

It is not possible to adjust the seat height of the Super73. It is fixed to the frame by bolts. The minimum seat clamping torque on the frame is 6.78 (Nm) 5lb / ft. For maintenance, use a cloth and water with a gentle soap for cleaning. Avoid leaving the seat too long in the sun, as the fabric can be damaged by the sun's UV rays. Avoid wearing clothes that may puncture or tear the seat.



The bike is subject to wear and tear, like all mechanical parts. Materials and parts react differently to wear and abrasion. If the intended life of a part is exceeded, it is possible that it will suddenly fail, which represents a certain danger for the rider. Any type of cracks, streaks, or color changes in highly stressed areas indicate the maximum wear of a part. It must, therefore, be replaced immediately. It is important to use genuine, properly specified parts for safety-critical components during the replacement of worn parts.

## STORAGE, PARKING, AND TRANSPORTATION

- Park in accordance with local rules and regulations if you're in a public place.
- Park indoors whenever possible. If you must park outdoors in rain or wet conditions, do not do so for an extended period of time, and afterward park in a dry location to allow the bike systems to dry out. When any bike is exposed to wet conditions, it requires more frequent maintenance and cleaning to prevent rust and corrosion, and to ensure all systems work safely.
- Avoid parking or storing your bike in direct sunlight and/or excessive heat, such as inside of a parked car on a hot day.
- Switch the power and any lights off to conserve battery power. Remove the key from the bike and ensure the battery is locked to the frame in the off position or use the key to remove the battery and bring it with you for security.
- Lock up your bike to reduce risk of theft. Register your bike with BikeIndex or 529 Garage to increase the chance you'll get your bike back in the unfortunate event it's stolen.
- When pushing or carrying the bike, turn off the power to avoid accidental acceleration from the motor, e.g. by mistakenly engaging the throttle.
- Only use racks (i.e., a bike rack for your car or other vehicle) designed for the size and weight of your ebike. Pay particular attention to whether the rack can accommodate the width of the tires.
- When carrying your ebike on a rack for transport, **remove the battery**, and place/wrap it securely inside your vehicle, making sure it can't roll around and that its plugs and connectors are protected. This will reduce the weight of the bike, make lifting and loading it easier, and keep your battery safe.
- Do not leave a battery in direct sunlight or any location that is or may become excessively hot or cold, like a parked car, for extended periods.
- Before using public transportation—buses, trains, etc.—to transport your ebike, check with the relevant transportation authority for any rules governing weight limits, tire widths, lithium-ion batteries, or any other rules that might pertain to ebikes.
- Avoid transport of any Super73 on a vehicle rack during rain, which may cause water damage to the electrical components. Contact Super73 support if you have questions.

## **WARRANTY**

### **1. Warranty.**

Subject to the terms, conditions, and limitations herein, Super73 warrants to the original retail purchaser of the bike that (i) the frame, fork, and electronics of the bike will be free from defects in material and workmanship under normal use and service for one (1) year from the date of delivery, and (ii) the battery will be free from defects in material and workmanship under normal use and service for two (2) years from the date of delivery or 500 life cycles, whichever comes first (the “Limited Warranty”). The Limited Warranty exists for the above-mentioned defects that were already present at the time of delivery of the bike and covers the battery, motor, controller, display, and sensors. Like any rechargeable battery, your Super73 rechargeable battery pack will experience a decrease in capacity over time as it is subjected to charge and discharge cycles. Super73 warrants that your battery pack will maintain 70% or higher capacity for at least 500 charge cycles or two years, whichever comes first. The battery warranty does not include damage from power surges, use of an improper charger, water damage, improper maintenance, or such other misuse or normal wear. This warranty is only valid for the first buyer. Any other remedy, such as compensation for damages of any kind or loss of use, is excluded. The warranty period cannot be extended by granting an additional warranty.

### **2. Remedies.**

If the original retail purchaser notifies Super73, authorized dealer or the retail location from where the bike was purchased of a warranty claim within the applicable warranty period set forth above, Super73 will evaluate the warranty claim. The purchaser will be responsible for shipping the bike to the location notified by Super73. If Super73 determines that the defective part is covered by the Limited Warranty, Super73 will replace or repair the defective part, at Super73's sole discretion, without charge to the buyer and also reimburse the shipping cost incurred by the purchaser. If the defective part is not covered by the Limited Warranty, Super73 will repair or replace the defective part at the purchaser's cost and the purchaser will also be responsible for the shipping costs.

### **3. Requirements for this Limited Warranty to apply.**

- (a) The original purchaser provides proof that the bike was purchased from Super73 or one of its authorized dealers or distributors.
- (b) The person seeking warranty coverage is the original and first owner of the bike (warranty is not transferable in the case of a re-sale).
- (c) The bike was used in accordance with its intended purpose. The Super73 bike is intended for use on paved roads.
- (d) The electronics including connectors and cables have not been repaired or modified.

**For more information on warranty, remedies, requirements, exclusions, and limits please visit our website and contact us at [support.super73.com](mailto:support.super73.com)**

