USER MANUAL | CYCRUN

CYCROWN®

TABLE OF CONTENTS

1. Product Overview

Power Switch

Display

Reflector

Brake Lever

Light Switch

Horn Switch

Turn Signal Switch

Twist throttle

Front Light

Seat

Rear Light

Front Fender

Rear Shock

Hydraulic Suspension Fork

Rear Fender

Tire

Battery

Crankset

Chain

Pedal

Kickstand

Motor

Disc Brake

2. In the Box

Key x 2

Charger x1

Front Fender X1

User Manual x1

Pedal x2

Tire Pump x1
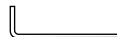
Front Wheel x1

Kickstand x1

Battery x1

Bike Frame with Rear Wheel x1
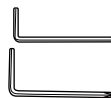
TOOLKIT

Tool Kit x1

Dual-Head Open-End Wrench x4

Hex Wrench x1

Combination Hex Wrench & Screwdriver x2

Single-Head Angled Hex Socket Wrench x1

⚠ Check the package contents carefully. If there are missing or damaged parts/accessories, please contact online customer service support.

3. Assembly Instructions

Before Assembly

- Please read this manual thoroughly and follow its instructions.
- Do not install the battery or start the computer until the bike is fully assembled.

- Make sure all parts are intact.
- If you have any questions or can't find the information you need in the manual, please contact us via email at **support@cycrown.com**

3.1 Assemble and install the front wheel

1. Find the front wheel.

2. Sit the front fork on the front wheel axle. Make sure the disc brake rotor is between the brake pads and the axle is fully engaged into the front fork dropouts.

3. Install the safety washers onto the axle and adjust them so that they hook the front fork. Then, tighten the nuts on two sides with an appropriate wrench (included).

⚠️ *Make sure the front wheel is installed tightly.*

3.2 Install the front fender

1. Remove the bolt pre-installed on the front fork arch with an appropriate hex wrench and an open-ended wrench.
2. Pass that bolt through the gasket, mounting hole on the front fork arch, and front fender bracket mounting hole in order, and then tighten the nut.
3. Remove the two pre-installed bolts from the fender stay mounts using a hex wrench, install the stay on the fender stay mounts, and then re-tighten the bolts to finish installing the front fender.

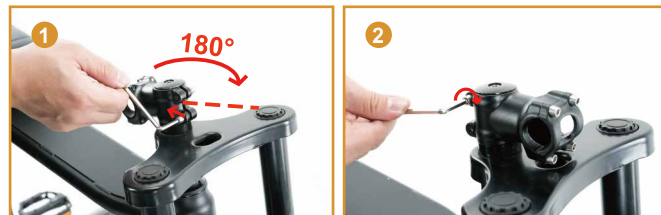## 3.3 Install the kickstand

1. Remove the pre-installed bolts from the kickstand mount on the chainstay with an appropriate hex wrench.

3.3 Install the kickstand

2. Install the kickstand on the kickstand mount by re-tightening the bolts as shown in the pictures.

3.4 Adjust the stem

180°

Use an appropriate wrench to loosen the two bolts that fasten the stem onto the steerer tube. Rotate the stem 180° and make sure it is on the same line as the top tube. Then, re-tighten the bolts.

3.5 Install the handlebar

Remove the handlebar clamp and its bolts. Sit the handlebar in place and put back on the handlebar clamp. Then re-tighten the handlebar clamp bolts.

3.6 Install the front light
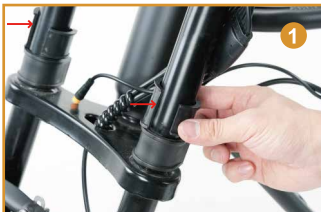
1. Install the plastic adapters on the desired positions of the two fork tubes.
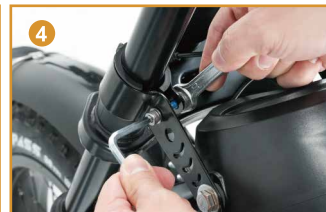
2. Attach the front light brackets on the plastic adapters.

3.6 Install the front light

3. Attach the clamps to the front light brackets.

4. Tighten the bolts with an appropriate hex wrench and an open-ended wrench.

5. Connect the power cable of the front light.

3.7 Install the pedals

1. Identify the right pedal and left pedal by the "R" and "L" marks on the pedals.

2. Hand-tighten the pedals by spinning the right pedal clockwise and the left pedal counter-clockwise. Then tighten the pedals with the provided open-ended wrench.

3.8 Battery key positions

(Before riding, familiarize yourself with the battery key positions and charging port.)

Battery charging port

LOCK

OPEN

1. When the key is in the "lock" position, the battery is locked on the frame. You can remove the key and then ride the bike.

2. When the key is in the "open" position, the battery is opened, and you can remove the battery from the frame. To prevent accidents, ensure the battery is locked (turn the key clockwise to the "lock" position) before carrying or riding the e-bike.

3.9 Remove the battery

(For your convenience, the battery is designed by CYCROWN to be removable.)

⚠ When removing the battery, do not drop or damage the battery. To install the battery, align the battery terminals with the battery slots and then push down the battery. When you hear a clicking sound, it means the battery is installed in place and will not move around. If the bike is not used for extended periods of time, press the power switch on the battery to turn the battery off.

1. Power off the e-bike, insert the key, and turn the key counterclockwise to the "open" position.

2. When the battery is opened, push up the battery and you can remove the battery from the e-bike. Hold the battery when removing it.

4.1 Charge the e-bike with the battery on the bike

Battery charging port

Indicator

● Open the rubber cover of the charging port on the right side of the e-bike.

● Power off the e-bike.

● Insert the DC connector of the charger cable into the battery charging port.

Note: Place the charger on a flat and safe surface during charging.

● Plug the AC connector of the charger cable into an outlet. The LED indicator on the charger is red during charging and turns green after the battery is fully charged.

● After charging, unplug the AC connector before unplugging the DC connector from the charging port.

4.2 Charge the e-bike with the battery off the bike

Battery charging port
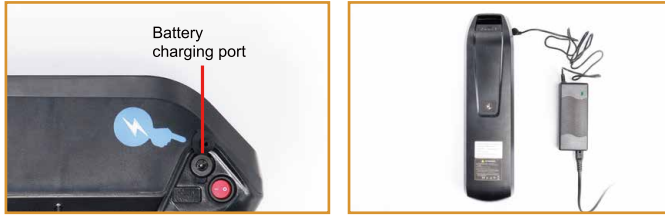
● Make sure to power off the e-bike.

● Turn the key to the "open" position. (Refer to the "remove the battery" section for specific information.)

● Insert the DC connector of the charger cable into the battery charging port.

Note: Place the charger on a flat and safe surface during charging.

● Plug the AC connector of the charger cable into an outlet. The LED indicator on the charger is red during charging and turns green after the battery is fully charged.

● After charging, unplug the AC connector before unplugging the DC connector from the charging port.

For Convenience, the Battery of the Electric Bike is Removable.

● The battery can be charged when installed on the bike. To remove the battery, Turn the key to the unlock position. (See the Battery Removal section above). Then carefully pull the battery up until the battery comes out of the socket.

● Remove the rubber cover on the charging port opposite the battery key switch. Connect the charger's DC output plug to the charging port on the battery.

● Plug the charger AC plug into a power outlet to start charging and the LED indicator will glow red. When battery is fully charged, the indicator turns green. Unplug the charger from the wall outlet before unplugging the charger output plug from the battery charging port.

Battery Safety

● Please fully charge the battery before first use. It takes about 4-5 hours.

● Periodically visually inspect the battery connector and charging cable.

● Always keep the charging environment clean and dry.

● Do not charge the e-bike if there is liquid on the charging port.

● Avoid charging your e-bike in extremely hot or cold conditions to take full advantage of the battery's maximum efficiency. Under no circumstances should you use the bike while it is charging or connected to a charger.

● The charging time is about 8 hours. Prolonged charging may reduce battery life and performance.

● Only use the charger that comes with the CycRun e-bike. If the official charger is lost or damaged, Please contact Customer Service for a replacement.

● Before using the e-bike, be sure to lock the battery with the provided battery key and remove the battery key.

5. Riding Modes

Display   Reflector

Power Switch

Brake Lever

Light Switch

Horn Switch

Turn
Signal
Switch

Twist throttle
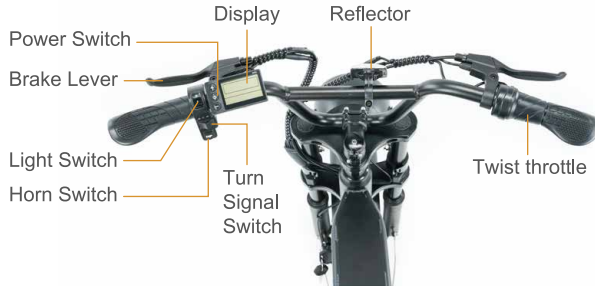
Speed Modes	Full Throttle	Pedal Assist
0	✕	✕
1-5	✓	✓
Display OFF	✕	✕

Full throttle

Turn on the e-bike and the smart display, and you can switch the speed from 1 to 5 by pressing the thumb throttle.

PAS

Turn on the e-bike and the smart display, and you can pedal the e-bike with 1-5 PAS level by pressing the + or - button.

Pedal

Turn off the e-bike and the smart display and you can pedal the e-bike like a normal bike.

● Before riding, fully charge the battery and make sure the battery key is in the locked position.

● Press and hold the power button for 2 seconds to power on the electric bike.

● The top speed is 20 mph (32 km/h).

● Switch top speeds by pressing the + or - buttons and the shifter levers.

● Stop: Release the throttle and squeeze the brake lever to slow the front and rear wheels.

6. Display and Buttons

I. Computer Display

Side view

Front view

Speed Unit
Metric: KM/H
Imperial: MPH
PAS Level

S866

AVG MAX SPEED DST

Current Speed

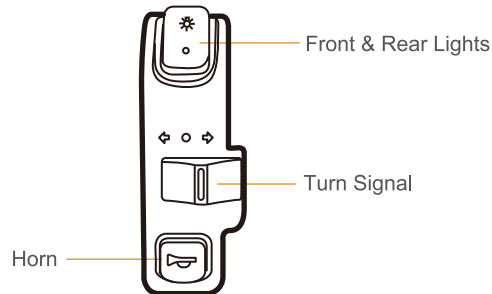Battery Level

mph
km/h

ODO VOL
TRIP TIME

mile
km

Value & Units
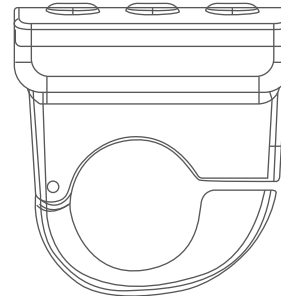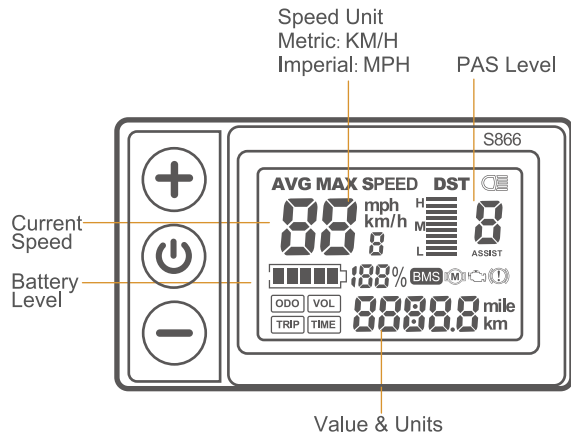
Power/+/- Buttons

➕ Press to switch speed modes from 1 to 5.

⏻ Hold for about 2 seconds to power on/off the e-bike.

➖ Press to switch speed modes from 5 to 1.

Front & Rear Lights/Turn Signals/Horn Buttons

Front & Rear Lights

Turn Signal

Horn

● Front & rear lights: Press up/down to turn on/off the front & rear lights.

● Turn signals: Push left to turn on left turn signal and right to turn on right turn signal. Turn off turn signals when in the middle.

● Horn button: Press or hold to activate the horn.

III. Function Description

Functions:

1. On the screen

Speed, Battery Level, Error Code, Total Distance, and Trip Distance

2. Controls and settings

Power on/off, set wheel diameter, set auto sleep time, set backlight brightness, set power on method, set drive mode, set voltage level, set controller current limit

3. Communication protocol: UART

Displays all data for 1 second after startup.
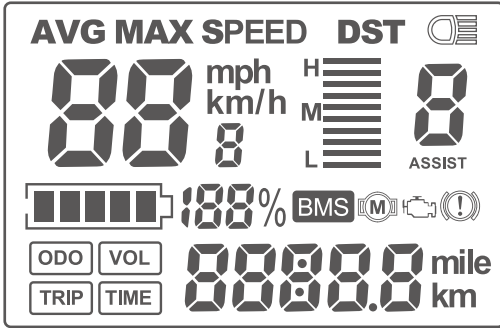
What's on the screen

	3.1 Battery level
	3.2 Multifunction display section ODO: odometer; TRIP: trip distance (unit: mile, km); TIME: trip time; VOL: battery voltage; DST: trip distance

	3.3 Speed section AVG: average speed; MAX: top speed; SPEED: current speed; mph and km/h: speed unit The speed signal comes from the Hall signal in the motor, and is sent to the computer by the controller (the time of a single Hall cycle, unit: 1ms). Then the computer will calculate the real speed based on the wheel diameter and signal data (the number of magnets needs to be set in the motor Hall).
	3.4 Pedal assist level adjustment: displayed in the form of numbers 0-9 and 10 level bars;
	3.5 Bike status section

Motor Fault	brake applied	front light on

III. Buttons

1. In the power-off state, press and hold ⏻ to power on the bike; after power-on, press ⏻ to switch between ODO, TRIP, VOL, and TIME.

2. In the power-on state, press ⏻ and hold to power off the bike, press ⊕ to increase the PAS level by 1 and ⊖ to decrease the PAS level by 1.

3. Press and hold ⊕ and ⊖ to enter settings

In the status of a certain parameter, press ⏻ to switch parameters, press ⊕ to increase the value, press ⊖ to decrease the value. After setting the value, press ⏻ to save the value and then switch to the next parameter; after setting the parameters, hold ⊕ and ⊖ to exit the settings interfaceor wait for 8 seconds and it will automatically exit and save the settings.

Basic operations

1. Power on/off

After holding ⏻, the computer is connected the working power of the controller and starts to work. In the power-on state, press and hold to turn off the power of the electric bike. In the shutdown state, the computer is no longer powered by the battery, and the leakage current is less than 1uA.

⚠ *If the e-bike is not used for over 10 minutes, the computer will automatically shut down.*

2. Walk mode (walk assist)

Keep holding ⊖ to enter the walk assist mode. The bike will move forward at a constant speed of 3 mph. Release ⊖ and the bike will exit the walk assist mode immediately and return to the mode before the walk assist mode.

⚠ *Only use the walk mode when you are walking the bike. Never use the walk mode in riding.*

3. Select PAS levels

Press ⊕ or ⊖ to adjust the PAS levels, thereby changing the output power of the motor.

4. Battery level

The battery levels are displayed in the form of 5 bars. When the battery level is full, there are 5 bars. When the battery is undervoltage, the outer border of the battery icon will flash, indicating that it needs to be charged immediately.

5. Fault code

When the electronic control system fails, the computer will automatically display the error code. For the definition of the detailed error code, see Attached Table 1.

⚠ *When an error code appears on the display, please troubleshoot in time, the electric bike will not be able to work normally after a fault occurs.*

Customizable parameters:

1. Select between the imperial and metric system

P01 means imperial and metric system setting item: 00 for metric and 01 for imperial.

Press (⏻) to enter parameter selecting status. Press (+) or (−) to select between 00 and 01. Press (⏻) to save the setting and return to the selection interface of parameter setting items;

2. Controller cruise control setting

P02 is the controller cruise control setting. The display can choose the following: 00→disable, 01→enable.

Press (⏻) to enter parameter selecting status. Press (+) or (−) to select between 00 and 01. Press (⏻) to save the setting and return to the selection interface of parameter setting items;

3. Backlight brightness setting

P03 refers to the backlight luminance setting option. Parameters 01, 02 and 03 are available, which represent the backlight luminance, 01 for the minimum luminance, 02 for the standard luminance and 03 for the maximum luminance.

Press (⏻) to enter parameter selecting status. Press (+) or (−) to select between 01, 02 and 03. Press (⏻) to save the setting and return to the selection interface of parameter setting items;

4. Odometer resetting

P04 is the odometer reset setting. 00 indicates not resetting and 01 indicates resetting.

Press (⏻) to enter parameter selecting status. Press (+) or (−) to select between 00 and 01. Press (⏻) to save the setting and return to the selection interface of parameter setting items;

If 01 is selected, press to confirm, and the display will show ------ CLP for a period of time and automatically start resetting the total mileage. After resetting, it will automatically exit and return to the personalized parameter setting selection interface.

Attached Table 1: Fault code names and definitions

Fault codes of YL-01 and YL-02 protocols			
Name	Fault	Name	Fault
E001	controller fault	E004	throttle fault
E002	communication fault	E005	brake lever fault
E003	Hall sensor fault	E006	motor phase loss fault

7. For Your Safety

For safe riding, please read the following information carefully. Before riding, be sure to check that your brakes are working normally.

Before Your First Ride

● Check whether the quick-release screws and seat are firm and whether the brakes are effective.

● Check the seat, gears, and tire pressure. Proper tire pressure can avoid flat tires and improve performance, including distance traveled per inflation.

● Check the handlebar and screws at least once a week.

● Performing the above routine checks before and after each ride can help you keep your bike at peak performance and spot potential problems before they become safety hazards.

Check by Bike Mechanics Every 6 Months

● Bikes require regular maintenance. Take your bike to your local bike shop twice a year for tuning. Critical components should be inspected frequently and be repaired and adjusted by an experienced mechanic.

Notice

● Wear an approved helmet and other protective equipment to reduce any possible injury.

● Helmets can reduce serious head injuries by 85%.

● Elbow pads can reduce elbow injuries by 82%.

● Knee pads can reduce knee injuries by 32%.

⚠ Warning

● To avoid accidental movement while waiting at a traffic light, set the speed mode to zero, or apply brakes.

● When riding, make sure your feet are always on the pedals and your hands on the handlebars. It is dangerous to take your feet off the pedals in riding.

● Never ride the electric bike for dangerous actions. Failure to exercise good judgment or heed the above warning increases the risk of serious injury and, in rare cases, death.

● Make sure the battery is fully charged, especially for long trips.

● For your own safety and the safety of others, obey the speed limit, ride at a speed you are comfortable with, and be prepared to stop at any time.

● Keep a safe distance from other riders to avoid collisions.

● Be aware of your surroundings and avoid obstacles and unsafe surfaces.

● Ride in the open and flat. Try to avoid slopes or places with many pedestrians.

● Do not ride at high speeds, on uneven terrains, in bad weather or in other unsafe conditions.

● Never use the electric bike for anything that could cause personal injury or property damage.

● Ride e-bikes only where permitted. You must obey local laws and be courteous to pedestrians.

8. Battery Maintenance

A well-maintained battery performs well even after high mileage. Charge the battery after each ride to prevent the battery from draining from a full charge. Batteries perform best when used at room temperature (70°F [22°C]). However, using it at temperatures below 32°F (0°C) will degrade performance. In general, at -4°F (-20°C), battery performance drops to half of that at 70°F (22°C). When the temperature rises, battery life will resume.

Refer to local laws and regulations regarding battery recycling and/or disposal.

Under normal circumstances, a fully charged battery can hold power for 90 days in standby mode. Remember to charge the battery after each use. Draining the battery may cause permanent damage to the battery. Electronics inside the battery record the charge and discharge of the battery. Damages due to over-discharge or over-discharge are not covered by the warranty.

Notice
- Do not perform any maintenance while the e-bike is powered on or charged.
- Store or charge the battery within the temperature range of 20°C-25°C / 68°F-77°F. Do not pierce the battery.
- Do not attempt to disassemble the battery to avoid fire.
- When the ambient temperature exceeds the maximum operating temperature (see instruction manual), do not ride the bike.
- Temperature will limit maximum power/torque. Otherwise, personal injury or property damage may occur.

9. Cleaning

Before cleaning, make sure the power is turned off and the charging cable is unplugged. Otherwise, you may damage the electronic components. Proper cleaning of your e-bike can guarantee a longer lifespan and a smoother ride.
- Wipe the outer body of the e-bike with a soft and dry microfiber cloth.
- Check around the wheel to make sure there are no foreign objects. The design of this electric bike makes wheel maintenance easy.
- The e-Bike has IPX4 water resistance, which means it can withstand splashes. However, don't submerge the e-Bike in water.

Note ⚠️ **Do not use alcohol, gasoline, acetone, or other corrosive/volatile solvents to clean the bike. These substances can damage the exterior and the internal structure of the bike.**
⚠️ **Do not allow water and liquids to enter the electric parts or the battery of the e-bike.**

10. Storage

The bike should be fully charged before storage to prevent the battery from being over-discharged after long-term storage.If the electric bike is to be stored for more than a month, discharge and charge the battery at least once a month.

Notice
● Do not store the electric bike outdoors for extended periods of time. Exposure to sunlight and extreme temperatures (both hot and cold) accelerates the aging process of plastic parts and can reduce battery life.

● Store in a cool dry place.

● Do not store it in dusty environments as damage may occur over time. Cover the bike to prevent dust.

11. End-of-Life Disposal

● This product cannot be disposed of by incineration, landfilling or mixing with household waste. Improper handling of the battery in this product may cause the battery to heat, rupture, or ignite, which could result in serious injury. The substances inside the battery pose a chemical risk to the environment. The end-of-life disposal recommendation for any CYCROWN product is to dispose of the entire device at an e-waste recycling center or through an e-waste recycling center, project or facility.

● Local regulations and laws related to the recycling and disposal of lithium-ion batteries and/or products containing lithium-ion batteries vary by national, state, and local government. In order to properly dispose of batteries and/or products containing batteries, you must check the laws and regulations that correspond to where you live.

● It is the user's responsibility to properly dispose of waste equipment in accordance with local regulations and laws. For additional information on disposing of batteries and electronics or electronic waste, Please contact your local waste management office or household waste disposal service.

12. Parameters

Item	Parameters
Model Name	CycRun
Net Weight	76.74 LBS / 34.81 KG
Product Dimensions	63.8*43.3*26.6 IN / 162*110*67.5 CM
Package Dimensions	56.7*10.8*34.6 IN / 114*27.5*88 CM
Max. Incline	11° (rider weighs 220.4 lb / 100kg)
Max. Capacity	330 LBS / 150 KG
Max. Speed	20 MPH / 32 KM/H
Range	30-38 Miles
Motor	750W
Battery Voltage	36V 10.4Ah
Charge Voltage	100-240V/3A
Wheel Size	20 IN
Charge Time	5-6 Hours
Water Resistance	IPX4
Storage Temperature	20°C-25°C / 68°F-77°F
Operating Temperature	-4°F-140°F /-20°C~60°C
Charging Temperature	32°F-104°F / 0°C-40°C
Warranty	1 Year Limited

13. Warranty

Dear Customer

Thank you for purchasing our foldable lithium battery bicycle! After purchasing our products, please provide correct, complete, and true personal information and fill in the warranty card to ensure that you receive high-quality service. For products that meet the warranty conditions, free maintenance is provided. We make the following commitments:

1. You can receive warranty service with the warranty card. The serial number on the bike body must match the serial number on the warranty card. If you can't provide proof of the repair date, Then the factory date or the order date will be the start date of the warranty and we will confirm if it is still within the repair date.

2. From the date of sale to the warranty expiration day, If there is a performance failure caused by non-human damage, once confirmed, our company promises to repair it free of charge. If the performance failure caused by man-made damage, once confirmed, our company will carry out paid maintenance.

Warranty Disclaimer

The following situations are not covered by the warranty service, and you need to pay the relevant service fees. beware:

1. Total riding distance is over 100 Kilometers.

2. Any damage caused by not following the instructions for use of the electric bike.

3. Lost or changed electric bike number.

Warranty Disclaimer

4. Product damage caused by accidental factors or improper use, such as mechanical damage, breakage, and serious impact on the product, oxidation, etc.

5. Overload, over obstacles (Including but not limited to bottom pedals, falls, etc.), or damage caused by extreme conditions.

6. Any damage caused by abnormal storage conditions or electrical resistance, such as fire, immersion, high temperature, and earthquake.

7. Loss of wearing parts, such as packaging materials and various technical materials.

8. Other failures or damages not caused by product design, technology, manufacturing, quality, or other issues.

9. Not purchased from the CYCROWN online store.

14. Contact Us

If you have issues with riding, maintenance and safety, faults, or failures with the CYCROWN CycRun electric bike, please contact us.

✉ E-mail Service: **support@cycrown.com**

🌐 **www.cycrown.com**

CYCROWN ®