



MINI RCR F2 E-BIKE

USER MANUAL - IMPORTANT SAFETY INFORMATION - PLEASE READ FIRST



THANK YOU FOR YOUR PURCHASE!

Thank you for purchasing the Mini RCR F2 Electric E-Bike from Mini RCR. The F2 is a top-quality E-Bike that will provide years of enjoyment. This manual contains instructions for assembling and operating your E-Bike. Please read and understand this manual fully and conduct a complete inspection before operating your E-Bike. If you still have any questions after reading this manual, please visit our website, send us an email. We are here to help.

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ABOUT THIS MANUAL

This manual provides detailed information about your E-bike, including how to operate and maintain it safely. It's important to read and understand the manual thoroughly to avoid accidents. Pay close attention to all warnings and instructions, especially those labelled as "**NOTICE**" or "**WARNING**."

Keep this manual and any related documents handy for reference. Remember that the manual's content can change, so check www.minircr.com for the most current version. Mini RCR strives for accuracy in its manuals but isn't responsible for any errors they may contain. It is best to have a qualified E-Bike mechanic assemble and adjust your E-Bike. Because it is impossible to anticipate every situation or condition that can occur while riding, this manual makes no representations about the safe use of E-Bikes under all conditions.

Riding an E-bike involves risks that can't always be foreseen. It is the rider's responsibility to manage these risks.



WARNING: Incorrect assembly, maintenance, or use of your E-bike can cause component or performance failure, loss of control, serious injury, or death. Even if you're an experienced E-Bike rider, you must read and understand the entire manual and any documentation provided for subcomponents or accessories before riding. If you are not sure you have the experience, skills, and tools to correctly perform all assembly steps in the manual and the assembly video at www.minircr.com, consult a local, certified, reputable E-Bike mechanic.

WARNING: To reduce the risk of injury, close supervision is necessary when the product is used near children. This E-Bike is not to be ridden by any person under the age of 18. This product is designed to carry one driver only and no passengers.

WARNING: Damage to your E-bike's electrical system caused in any manner, including water intrusion, can lead to battery failure, electrical system malfunction, or electrical fire and consequent property damage, injury, or death. Follow all recommendations to minimize chance of water damage.

If you have any questions, **contact Mini RCR Product Support.**

Website: www.minircr.com

Email: support@minircr.com

GENERAL INFORMATION

The Mini RCR F2 falls into the Class 2 category of electric bicycles. Here is what this means:

1. Class 2 Electric Bicycle:

- a. A Class 2 E-Bike comes with a throttle-actuated motor.
- b. This motor stops providing assistance once the E-Bike reaches a speed of 20 mph or 32 kph

2. Motor Power:

- a. The Mini RCR F2 has a tuned and governed 750-watt electric motor.
- b. The Mini RCR F2 meets C.P.S.C. compliance standards.



SAFETY WARNING:

Know the laws before you operate your E-Bike. It is crucial to understand your responsibilities as a rider. Here's what you need to keep in mind:

State Laws:

- Many states have specific safety requirements for E-Bikes.
- Familiarize yourself with the laws in your state.
- Comply with all applicable regulations.

Proper Equipment:

- Make sure your E-Bike is equipped as per legal requirements.
- Do not remove compliance or safety stickers that ship with your E-Bike.
- Pay attention to lighting, licensing, and other relevant rules.
- Follow helmet laws and any special E-Bike traffic regulations.

ASSEMBLY AND FIT:

Ensuring Safety and Comfort: Putting your E-Bike together correctly is essential for your safety and riding comfort. Here's what we recommend:

Certified Assembly:

- Mini RCR strongly advises having a certified E-Bike mechanic assemble your E-Bike before your first ride.
- Experienced AND new riders should always seek a professional for assembly.

Wheel Axle Nuts:

- Before your first ride, and periodically thereafter, inspect the security and torque of your front and rear wheel axle nuts.
- Properly secure both axle nuts to ensure safe operation.

Remember, it's your responsibility to know and follow the applicable laws.

PRE-RIDE SAFETY CHECK FOR YOUR E-BIKE

Before you ride your E-Bike, it's important to check its condition every time. If you're not sure how to do a thorough check, get help from a certified E-Bike mechanic. You can find more details in the 'Pre-Ride Safety Checklist' section of this manual.

Electrical System

Your E-bike's electrical system provides different levels of assistance and lighting to suit various conditions and preferences. Make sure you understand how it works and confirm that everything is functioning properly before you start riding. Check that the motor stops assisting when you apply the brakes by testing both the brake levers and then gently pressing the throttle. The Mini RCR F2 ships with a rear disc brake only.

When operating the E-Bike at a higher power assist level, the motor should provide a smooth, gradual acceleration of the motor's power. Should the power assist or motor levels function abnormally, intermittently, or not work at all, please stop using your E-bike immediately and contact our support team for assistance.

Brakes

To ensure your safety and the proper functioning of your E-Bike's brakes, it's important to check that all parts of the brake system are secure and undamaged before each ride. When you apply the brakes, the lever should not touch the handlebars, and the rear wheels should be fully locked. If you encounter any issues with the brakes, consult a certified E-Bike mechanic for repairs.



WARNING: Never touch the brake rotor with your bare hands. The rotor can become extremely hot from use and has sharp edges that could cause cuts or burns. Additionally, oils from your skin can reduce the rotor's effectiveness. Only handle the brake rotor when it's cool, stationary, and while wearing protective gloves for maintenance purposes. Avoid touching it during or immediately after riding.

Rims and Tires

Always make sure your E-Bike's rims spin straight. If they wobble, get them replaced. If the rims are bent, have a E-Bike mechanic replace them. Don't try to do it yourself. Check your tires for damage and ensure they're properly inflated according to the pressure listed on the sidewall. Never ride with damaged or under-inflated tires as it's unsafe and can cause premature wear.

USER MANUAL - IMPORTANT SAFETY INFORMATION

Handlebar, Grips, and Seat Adjustment

To ensure a safe and comfortable ride, it's important to adjust and secure the handlebar and grips of your E-bike. The handlebars should be aligned with each other and adjusted to fit you, then tightened according to the recommended torque settings. The grips should be firmly attached to the ends of the handlebar and not move easily; if they are loose, worn, or damaged, replace them before you ride. Proper adjustments and securing of these components are crucial for E-Bike stability and rider safety.

Battery

Before riding, ensure your E-bike's battery is fully charged and properly connected. Always disconnect the charger from both the outlet and the battery, and store it securely. It is essential that the battery is secure before you start riding. Remember, the E-bike's electrical system should not be used if the battery is not installed.

Accessories, Straps, and Hardware

Make sure that all parts of your E-Bike and any approved add-ons are securely fastened according to the manufacturer's guidelines. It's a good idea to check all parts, straps, and accessories before you ride. If you notice any issues or if you're not sure about something, get it inspected by a qualified mechanic. This will help ensure your safety.

WARNINGS & SAFETY

The following safety notes provide additional information on the safe operation of your E-bike from Mini RCR and should be closely reviewed. Failure to review these notes can lead to serious injury or death.

Safety Tips for Riding Your Mini RCR E-Bike:

1. Use Only Mini RCR Products:

- Mini RCR E-Bikes are tuned to work with specific components.
- Original equipment supplied at the time of sale is compatible with motor, battery, controller, etc.
- Avoid non-Mini RCR products, as they may create hazards and will void the warranty.

2. Read the Manual:

- Before using your Mini RCR E-Bike, read the manual thoroughly.
- Additional safety information is available at www.minircr.com. See all safety information before use.

3. Proper Fit:

- Ensure the E-Bike fits you well.
- Riding a E-Bike that's too big or too small can lead to loss of control or injury.

4. Helmet Safety:

- Always wear an approved helmet.
- Follow the helmet manufacturer's instructions for proper fit and care.
- Not wearing a helmet can result in serious injury or worse.

5. Setup and Maintenance:

- Correctly set up, tighten, and torque your E-Bike components.
- Regularly check the setup, tightening, and overall condition of parts and hardware.

6. Know the Laws:

- Familiarize yourself with local laws and requirements for operating your E-Bike.
- Be a responsible rider.

7. Handlebar Grips:

- Make sure the handlebar grips are undamaged and securely installed.
- Loose or damaged grips can lead to loss of control.

8. Accessories and Compatibility:

- Use only Mini RCR-tested accessories.
- Avoid standard E-Bike trailers, stands, or racks unless verified as safe and compatible.

9. Off-Road Riding:

- Off-road riding demands attention and specific skills.
- Wear appropriate safety gear and avoid riding alone in remote areas.
- Check local regulations regarding off-road E-Bike riding.

10. After an Incident:

- If you've had an accident, consider your E-Bike unsafe until a certified mechanic inspects all components.
- Safety first!

11. Battery Care:

- Properly charge, store, and use your battery to avoid hazards.
- Incorrect battery handling voids the warranty.

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12. Pedal Assistance and Throttle:

- Understand how the pedal assistance and throttle work.
- Be prepared for power assistance when pedaling.

13. Throttle and Assist Levels:

- Know how to use the throttle and pedal assistance sensors.
- Start with the lowest assist level until you're comfortable controlling the power.

14. Approved Changes Only:

- Avoid aftermarket modifications not approved by Mini RCR.
- Unauthorized changes may void the warranty and compromise safety.

15. Wet Conditions:

- E-Bikes are heavy and fast, use caution when turning on wet surfaces.
- Be cautious in wet weather—reduce speed and increase braking distance.

16. Reflectors:

- Keep reflectors intact.
- They enhance visibility and safety.

ADDITIONAL OPERATING RULES

1. Obey Traffic Laws:

- When riding, follow all applicable traffic or safety laws and regulations.
- For specific traffic rules, consult your local road traffic authority.

2. Predictable Riding:

- Ride predictably and in a straight line.
- Always flow with traffic—never ride against it.

3. Hand Signals and Visibility:

- Use proper hand signals for turning.
- Ride defensively; assume others may not see you.

4. Watch the Road Ahead:

- Avoid hazards like potholes, wet leaves, and broken glass.
- Cross railroad tracks at a 90-degree angle or walk your E-Bike across.

5. Expect the Unexpected:

- Be cautious near car doors and driveways.
- Pay attention at intersections and when passing other vehicles or cyclists.

6. Practice and Gear:

- Familiarize yourself with your Mini RCR E-Bike's features.
- Practice braking, and using the power assist system.
- Wear appropriate riding clothes and closed-toe shoes.

7. Cargo and Braking:

- Check local rules before carrying cargo.
- Brake correctly
- Maintain a safe stopping distance from objects and other riders.



GENERAL WARNINGS

1. Risk Awareness:

- Riding an E-Bike carries inherent risks.
- By riding, you accept responsibility for these risks.
- Understand safe riding rules and maintain your E-Bike properly.

2. Avoid Substance Use:

- Never ride under the influence of alcohol, drugs, or impairing substances.
- Safety demands a clear mind and full control.

3. Age and Fitness:

- The Mini RCR F2 is for riders 18 and older.
- Riders must be physically fit, alert, and capable of managing traffic and sudden situations.
- Consult a physician if you have any impairments or disabilities

4. Helmet Use:

- Always wear a properly fitting and approved helmet.
- Cover your forehead for maximum protection.
- Know and follow local laws and regulations.

5. Night Riding:

- Avoid riding at night if possible.

If necessary:

- Wear reflective, light-colored clothing.
- Stick to well-lit roads.
- Ensure reflectors are unobstructed.

6. Wet Weather Riding:

- Minimize wet weather riding.
- This E-Bike isn't designed for puddles or heavy rain.

Take extra care:

- Decrease speed.
- Brake earlier.
- Wear reflective gear.
- Be cautious of road hazards.

NOTES FOR PARENTS AND GUARDIAN

As parents, you hold the responsibility for your child's actions and safety. The Mini RCR F2 is intended for individuals 18 years and older and is not suitable for younger children. Never transport young passengers on your E-bike for any reason at any time as this could lead to serious injury or death.

SPECIFICATIONS

■ BATTERY	72V 40AH 2880 WH	■ CHARGE TIME	5H 10A CHARGER
■ MOTOR	750WATT 20MPH GOVERNED FOR CLASS 2 COMPLIANCE	■ FRAME	STEEL & BILLET FRAME
■ POWER	3800-6000RPM - 94% EFFICIENCY GOVERNED FOR CLASS 2 COMPLIANCE	■ WHEELBASE	49" LENGTH 32" WIDTH
■ TORQUE	45-55N.M TORQUE (20-30HP) GOVERNED FOR CLASS 2 COMPLIANCE	■ CLEARANCE	9" FRAME 5.5" REAR GUARD
■ BRAKES	LIGHTWEIGHT 2 PISTON HYDRAULIC CROSS DRILLED ROTOR	■ SEAT HEIGHT	31.5"
■ TIRES	FRONT - ALL TERRAIN 23X7-8 REAR - ALL TERRAIN 23X7-8	■ WEIGHT	225 LBS (APPROXIMATELY)
■ SUSPENSION	FRONT - 28" SPRING FRONT FORKS REAR - 13" ADJUSTABLE COILOVER WITH SHAFT BUMP STOP	■ WHEELS	FRONT 4" X 8" REAR 4" X 8"

Mini RCR F2 E-Bike Specifications:

Model Name:	Mini RCR F2
Model Number:	Model 750
Maximum Speed:	20 mph (32 km/h)
Battery:	72V, 40 Ah 2880 WH
Motor:	750 Watts (governed) Class 2
Average Range Per Charge:	Approximately 4hrs run time
Wheel Size:	4"x 8" Rear / 4"x8" Front
Charger:	72V, 5A
Charging Time:	Approximately 6 hours
Water Resistance:	IP54
Max Load:	250 lbs. (113 kg)
Weight:	350 lbs. (159 kg)

Note: The average range per charge is based on specific conditions (sufficient power, 165 lbs. load, 65°F temperature, 70% humidity, level road, pure electric mode, no wind). Actual results may vary. Mini RCR F2 offers a powerful ride with a 750W governed motor and a 4hr average range per charge. Range decreases with higher speed, higher rider weight, terrain and electrical accessory usage.



PARTS DIAGRAM



Mode Selector Switch The Mode Selector Switch has three options:

1. Beginner mode has slowest acceleration curve and reduced top speed.
2. Intermediate mode has a quicker acceleration curve and higher top speed.
3. Pro mode allows full access to acceleration, torque and max top speed.

UNPACKING INSTRUCTIONS

How to Unpack Your E-Bike

These steps will help you put together your E-Bike, but they are not a full guide. You need to know how to take care of your E-Bike and fix it if something goes wrong. If you don't know how to do that, or you don't have the right tools, you should ask a professional E-Bike mechanic to help you. They can also check your E-Bike before you ride it for the first time.

SAFETY WARNING:



Don't use your E-Bike until it is assembled correctly, or if something is broken. You could get hurt or damage your E-Bike. Make sure you read the whole manual and any other papers that came with your E-Bike or its parts. If you are not sure how to put it together, ask a professional E-Bike mechanic near you.

Step 1: Take Out the E-Bike

Remove the E-Bike and charger from the crate. Recycle the crate and wrappings if you can.

If something is missing, CONTACT MINI RCR

Step 2: Adjust the handlebar

- Loosen the handlebar clamp bolts
- Lift the handlebar to the desired riding position
- Ensure the handlebar is centered
- Tighten the handlebar clamp bolt to 17ft. lbs (23 Nm)

Step 3: Pump up your tires:

- The F2 E-Bike tires come inflated but you need to verify the pressure is correct.
- Make sure the tires fit snugly on the rims.
- Use a pump with a Schrader valve and a gauge to fill up each tire with air.
- Look at the tire sidewall to see how much air you need.
- Don't put too much or too little air in the tires.

Step 4: Read the manual and watch the videos:

- Go to www.minircr.com and watch the videos on how to use your E-Bike.
- Read the manual and follow the instructions.
- If you have any questions, email Mini RCR for help.
- If you're not sure you did everything right, ask a professional E-Bike mechanic to check your E-Bike before you ride it.
- Make sure all the parts are tight and secure.
- Do the safety checks in the next sections before you use your E-Bike.



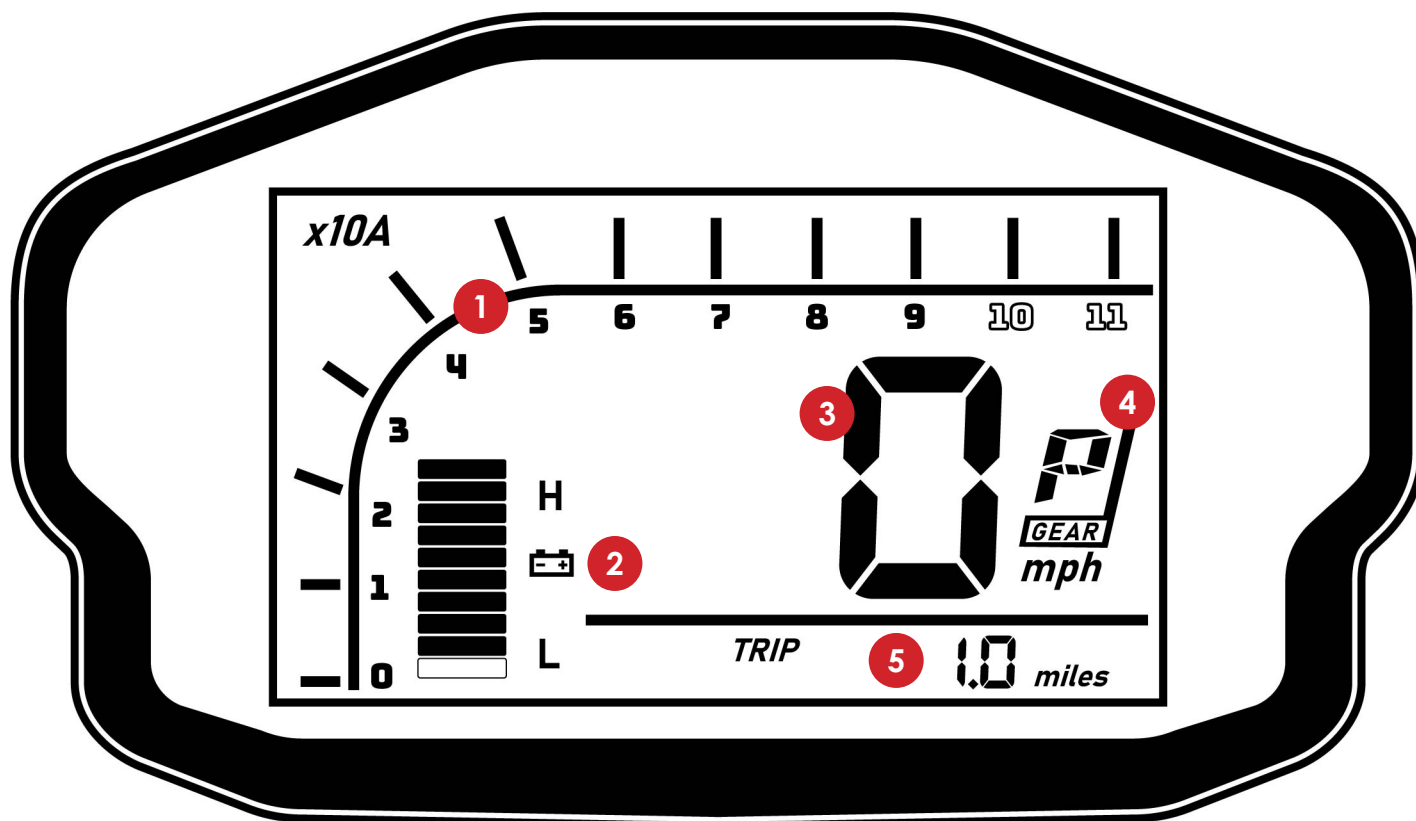
WARNING:

Always ensure that all hardware is properly tightened (following the recommended torque values) and that components are securely in place before proceeding to the next step. Failure to do so could result in E-Bike damage, serious injury, or even death.

Notice: Maximize comfort by not overreaching while riding. Aim for a natural arm position with straight forearms, wrists, and hands by adjusting handlebar and brake lever angles. Ensure handlebars don't hit your body when turning. For the best fit, seek advice from a E-Bike fitting pro.



WARNING: If you have any questions regarding the proper fit of your bike, please consult a certified local E-Bike mechanic for assistance.



- 1: Amp Meter - Displays motor amperage in real time
- 2: Battery Health Indicator - Displays battery charge level
- 3: Speedometer - Displays speed in mp/h
- 4: Gear Selector - Displays gear/drive mode
- 5: Trip Meter - Displays miles driven

BATTERY CHARGING

The battery can be charged both when it is located inside of the frame or when it is separated from the frame.

Internal Charging Method:

1. Ensure the E-bike's power is turned off.
2. The battery charge cable is located under the rear fender near the rear shock.
3. Connect the charger to the charging cable first.
4. Then, plug the charger into an electrical outlet (AC 110V, 60HZ).

External Charging Method:

1. Remove the battery from the E-Bike frame. The battery is accessible through the battery access panel.
2. Store the battery in a secure, element-protected location.
3. Connect the charger to the battery's charging cable, then plug it into an AC 110V, 60HZ power outlet.
4. Once fully charged (indicated by a green LED on the charger; red means it's still charging), unplug the charger from both the battery and outlet. Do not leave the battery unattended while charging.
5. If charged externally, place the battery back in the frame and secure it in place.



WARNING: For optimal performance and safety, it is crucial to charge your battery within the recommended temperature range of 10 °C – 25 °C (50 °F – 77 °F). Prior to charging, confirm that both the battery and charger are free from damage. Should you observe any abnormalities during charging, immediately cease charging and usage of the bike, and promptly reach out to Mini RCR support for assistance. Adhering to the charging guidelines and safety instructions outlined in the manual is imperative. Neglecting proper charging protocols may lead to detrimental outcomes for your bike, charger, or property, and pose significant risks of injury or fatality.

BATTERY CHARGING INFORMATION

1. Ensure you check the charger, charger cables, and battery for damage before beginning each charge.

IMPORTANT SAFETY NOTICE:



To prevent potential E-Bike damage or fire risks, it is crucial to cease using your battery and charger if you notice any of the following conditions: (1) Damage such as fraying, broken insulation, or other visible defects on your charger's power cord, output cable, or any electrical cables on your bike. (2) Any physical damage, malfunction, or unusual performance from your battery or charger. (3) An incident where your battery or charger has suffered a significant impact, which could be from a fall or crash, regardless of visible damage. (4) Excessive heat from your charger that exceeds normal warmth during use, peculiar odors, or any signs of overheating. If you encounter any such issues, immediately store the damaged items in a secure location and dispose of them responsibly in accordance with local regulations.

For further assistance, questions, or to obtain a compatible replacement, please contact Mini RCR without delay.

1. To ensure the safety and longevity of your electric bike's battery, it is crucial to charge it under optimal conditions. The ideal charging environment is room temperature, away from moisture, direct sunlight, and any dirt or debris that could interfere with the process. Make sure the area is tidy to prevent tripping over cables or causing damage to the bike, battery, or charger. Charge only when the ambient temperature is within 10 °C–25 °C (50 °F–77 °F) to maintain battery health.
2. It's best to recharge the battery after each ride. Don't worry about short charges affecting the battery's life or range—there's no memory effect. Typically, charging takes between 3–7 hours, but this can vary based on several factors like distance covered, riding style, terrain, load carried, and the battery's age.
3. Be mindful that a brand-new battery or one that's fully drained may require more time to charge. Similarly, after 2–3 years of regular use, you might notice longer charging times or a decrease in range. Should you encounter any abnormal charging patterns or performance issues, stop using the battery and reach out to Mini RCR Support without delay.
4. While charging, a red light on the charger indicates an ongoing process; a green light signifies completion. Position the charger so that these indicator lights are visible and facing upwards. Once fully charged, disconnect the charger from the battery within an hour to prevent wear on the charging components—even though the charger ceases charging automatically upon full charge, prolonged connection beyond 12 hours could lead to unnecessary wear.
5. Never charge a battery for more than 12 hours at a time.
6. Do not leave a charging battery unattended.

NOTICE: Please be advised that adhering to the recommended guidelines for battery charging is crucial. Neglecting these best practices may lead to premature degradation of the charging system, battery, and charger. Such negligence could culminate in a battery that performs suboptimally or becomes completely inoperative. In instances where the battery's diminished performance or failure is attributable to improper charging habits, warranty provisions for replacement may not apply.



WARNING: Should you notice any irregularities with your battery's charging behavior, such as prolonged charging times or a significant decrease in range, cease usage immediately and reach out to Mini RCR Support without delay.

WHEN THE BATTERY IS REMOVED FROM FRAME

When removing the battery from its housing or when it is detached from the E-Bike, exercise caution to prevent any drops or damage. Ensure the terminal contacts at the battery's end remain untouched and free from any foreign materials. Additionally, avoid activating the E-Bike's power if you're operating it without battery, as this could lead to harm to the electrical framework.



WARNING: To ensure the integrity of your bike's battery system, exercise caution when the battery is removed. The connector terminals are vulnerable during this time. Should you notice any damage to the terminals or battery mounts, cease using the E-Bike immediately and reach out to Mini RCR Product Support for assistance.

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WHEN INSTALLING THE BATTERY INTO THE BIKE

- Do not force the battery into the frame. To insert the battery, align the Battery with precision and gently slide the Battery into the bike
- After installation, ensure the battery is secure by attempting to extract the battery. The battery must remain immovable.

CHARGER SAFETY INFORMATION

- **Use Indoors:** Only use the charger indoors in a cool, dry, and well-ventilated area, on a flat, stable, hard surface.
- **Charge Light Orientation:** Ensure that the charge light on the charger is facing up during use.
- **Avoid Contact:** Keep the charger away from liquids, dirt, debris, and metal objects.
- **Uncovered Use:** Do not cover the charger while it's in use.
- **Safe Storage:** Store the charger in a secure place away from children and potential hazards.
- **Specific Charger:** Charge the battery only with the original Mini RCR-supplied charger or one designed for your specific E-Bike, purchased directly from Mini RCR.
- **Voltage Compatibility:** The charger works with standard home AC power outlets (110V, 60HZ).
- **Cable Handling:** When unplugging, carefully remove both the AC and DC cables by pulling on the plastic plugs directly, not the cables themselves.
- **Heat Warning:** The charger is designed to get warm during operation. If it becomes too hot to touch, emits a strange smell, or shows any other signs of overheating, stop charging immediately and contact Mini RCR Product Support.

IMPORTANCE NOTICE

For optimal safety and performance, it is crucial to charge the battery using only the charger that was included with your E-Bike or one that you've purchased from Mini RCR, specifically designed for your bike's serial number. Utilizing any aftermarket charger can lead to hazardous situations, potentially causing damage, severe injuries, or even fatalities. Adhering to the charging guidelines and safety measures outlined in the manual is essential. Neglecting proper charging protocols may result in harm to your bike, the charger, or personal property, and could lead to significant injuries or fatalities.



BATTERY ACCESS PANEL:

The Battery Access Panel is located near the right foot pedal. It is held in place with six (6) Torx Screws. To remove or install the battery, the pedal needs to be in the lowest position.

OPTIMIZING BATTERY PERFORMANCE

Upon receiving your Mini RCR E-Bike, it's crucial to follow the initial charging process detailed below for the first three charges. This ensures the battery cells are balanced and functioning at peak efficiency.

Note: The battery typically arrives 50-75% charged, allowing for immediate use after assembly and safety verification by a certified E-Bike mechanic. Charging before the first ride is optional.

1. For the initial three charges:

1. After each ride, regardless of distance or battery consumption, connect the battery to the charger.
2. Keep it plugged in for approximately 12 hours, but no more than 12 hours, even if the charger indicates a full charge with a green light.

2. After the initial balance charge, which should be as close to 12 hours as possible without exceeding it, disconnect the charger from the outlet and then the battery. Store your E-Bike until your next ride.

3. For subsequent rides, use the power assistance normally and deplete the battery to some extent or completely.

4. Follow the initial charging steps for a total of three sessions, ensuring each doesn't surpass 12 hours.

5. Post the third balance charge and fourth ride, adopt the standard charging routine which includes:

1. Recharging the battery post-ride as per the guidelines in the Battery Charging Information section.
2. Detaching the charger once the green light signals a full battery, typically within 3-7 hours.
3. Avoiding charging beyond 12 hours.
4. Not leaving the battery or charger unattended during charging.

Only redo the balance charging process after extended storage periods (refer to Long-Term Battery Storage), if you notice a significant decrease in range, upon Mini RCR Product Support's advice, or once a month if you're a frequent user for proactive maintenance. Refrain from balancing more than once monthly.

LONG-TERM BATTERY STORAGE

To ensure your bike's battery remains in optimal condition during extended storage periods exceeding two weeks, adhere to the following guidelines:

- Aim for a battery charge level around 75%.
- Turn off the battery and secure it to the bike's frame. Alternatively, for storage purposes, you may detach and remove the battery.
- Opt for a dry, regulated indoor environment for storing the battery, with temperatures ranging from 10°C to 25°C (50°F to 77°F).
- Perform monthly battery inspections and, if needed, recharge to 75% using the bike's original charger.

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WARNING: To ensure the longevity and functionality of your Mini RCR E-Bike and battery, it's crucial to adhere to the recommended storage guidelines. Neglecting these instructions may lead to a non-operational battery, which is not eligible for warranty replacement.

In cases where the battery shows signs of physical damage, abnormal performance, or has been involved in an accident, cease usage and charging immediately. Contact Mini RCR without delay for further assistance.

While charging, do not cover the charger; it requires ventilation to air cool effectively. Place it on a solid, level surface in a well-ventilated area with the indicator lights facing upwards. Refrain from using the charger upside down as this can obstruct cooling and diminish its lifespan.

Tampering with the battery housing is prohibited as it voids the warranty and poses risks of battery damage, property damage, or severe injury and potentially fatal incidents.



THIS PRODUCT HAS AN IP54 WATER RESISTANCE RATING

IP54 PROTECTS AGAINST:

Protected against dust. Some dust may enter, but it won't interfere with the operation of the equipment

Protected against water splashes from any direction. Limited ingress permitted, but it should not cause harmful effects.

IP54 DOES NOT PROTECT AGAINST:

- Water jets or spray under pressure
- Immersion in water
- Corrosive liquids, solvents, or steam

OPERATION



Safety Advisory: Before proceeding with any steps outlined in the Operation section of this manual, it is critical that you first thoroughly read the entire manual and watch our comprehensive operation video available on our website at www.minircr.com. These resources contain essential safety information related to the use of your Mini RCR F2 E-Bike.

Before initiating the operation of your E-Bike, it is crucial to thoroughly review and comprehend every segment of the manual provided, as well as to view our comprehensive operations videos available at www.minircr.com. This manual is interspersed with vital safety notices that are imperative to adhere to in order to avert hazardous scenarios, accidents, and potential harm to both the E-Bike and property, including personal injury or fatality.

Adherence to the guidelines and cautions detailed in this manual is mandatory for your safety. Refrain from using your E-Bike until you have gained sufficient understanding of its functionalities and controls. Any damage resulting from negligence to follow these instructions will not be covered by the warranty and may lead to perilous circumstances, accidents, personal injury, or even fatalities, as well as damage to the E-Bike or other properties. Should you have any inquiries regarding assembly or usage, please reach out to Mini RCR Product Support.

It is essential for users to familiarize themselves with the bike's power control system prior to use. The throttle mechanism is designed to unleash full power instantaneously from a halt, which necessitates cautious handling by novices during initial use. Similarly, the pedal assistance system is a potent feature that requires thorough research and understanding prior to activation. A lack of proper acclimatization and practice with your bike's power system may result in grave injuries or death.



INITIAL START-UP GUIDE

- 1: Sit on E-Bike with feet on pedals
- 2: Insert key and turn until it clicks
- 3: Release the brake lock
- 4: Turn key again to engage drive mode
- 5: The pedals work like a stair stepper



STARTING YOUR F2 E-BIKE

Once the E-Bike has been unpacked and set up in accordance with the instructions in this manual, ensuring all parts are securely fastened, and after having read through this manual and watched the operational video at www.minircr.com, you're ready to power up the E-Bike and choose a power level by following these steps:

1. Perform the Pre Ride Safety Check found later in this manual.
2. Ensure you are wearing all recommended safety equipment.
3. Sit on the seat and place your feet on the pedals. Do not start your F2 E-Bike with your feet on the ground.
4. On a safe flat surface, ensure the brake lock mechanism is unlocked. This will release the brake so the F2 E-Bike rolls freely.
5. Activate the E-Bike by inserting the key and turning the key clockwise to the "ON" position. This will start the L.E.D. Heads up display and electrical system check.
6. Turn the key clockwise a second time to engage drive mode.
7. If necessary or preferred, turn on the headlight by pressing its button. If you have an accessory light or whip installed, turn it on if required by law.
8. The pedal system works like a stair stepper machine. Push down on the pedals alternating left to right to propel the F2 E-Bike forward. Do not pedal while using the throttle.
9. To use the throttle, twist it. NEVER use the throttle unless you are correctly seated on the bike with our feet on the pedals. ALWAYS have both hands on the hand grips with access to the brake lever while riding.
10. Start riding cautiously. With appropriate safety equipment and knowledge, you can now ride.



WARNING: When not riding, do not engage the throttle. To avoid unintentional throttle engagement when off the bike, always turn off the power when moving the E-Bike while dismounted.

NOTICE: Regardless of your experience with E-Bikes, it is crucial to familiarize yourself with and adhere to the instructions in the owner's manual provided with your Mini RCR E-bike, as well as any guides for individual components.

PARKING, STORAGE & TRANSPORT

PARKING YOUR F2 E-BIKE

When you are prepared to stop, find a safe level surface. Engage the brake lock system and turn the key counter clockwise, this turns the bike off. Safely remove the key. It is now safe to get off the F2 E-Bike.

TRANSPORTING YOUR F2 E-BIKE

Here are some essential guidelines for handling your E-Bike during parking, storage, and transit to ensure its longevity and performance:

- Always switch off the power when manually moving the E-Bike to prevent unintended motor engagement.
- Conserve battery life by turning off the power and lights when not in use.
- Secure the battery within the frame or detach it for safekeeping or to store in a climate-controlled setting.
- Aim to park indoors. Outdoor parking should be temporary, especially in wet conditions, followed by drying in a sheltered area to avoid moisture-related damage and maintain optimal functioning.
- Follow local regulations when parking your Mini RCR E-Bike in public spaces.
- We advise locking your E-Bike to minimize theft risks, although Mini RCR does not endorse specific locking mechanisms or methods.
- Refrain from transporting your Mini RCR E-Bike in rainy conditions to prevent electrical damage.



WARNING: Always ensure the Mini RCR Model F2 is turned off before transporting. To prevent unintended activation, power down the bike, and extract the battery. Neglecting to confirm the bike's deactivated state during transit may lead to damage, severe injuries, or fatalities.

MAINTENANCE

E-BIKE CARE



WARNING: If you do not have the experience, skill, and tools to complete maintenance and adjustment of your E-bike, Mini RCR strongly recommends having a certified, reputable E-Bike mechanic maintain, tune, and ensure the E-Bike is safe to ride.

For optimal E-bike performance and safety, regular maintenance is crucial. Adhere to these essential practices and consult with a qualified E-Bike technician periodically to keep your E-bike in top condition for a secure and enjoyable experience.

- Keep batteries in prime condition by charging them fully if not used for up to two weeks. Refer to the Long-Term Battery Storage section in the manual for guidelines on extended storage times.
- Avoid exposing the E-Bike or its parts to water or other liquids, as this can harm the electrical Components.
- Routinely inspect cables and connections for integrity and ensure they are firmly connected.
- When cleaning your E-bike, switch off the E-Bike and battery first, then use a soft, moist cloth.
- For tougher stains, a gentle, non-abrasive cleaner can be applied to the cloth before wiping.
- Always dry with a soft towel. High-pressure water sprays are not recommended.
- Regularly clean your E-Bike and protect all metal parts without paint from rust with suitable products.
- Store your E-Bike indoors and upright; shield it from rain and substances that can cause corrosion like salt or chemicals used for melting ice. If it gets wet, dry it promptly and treat metal components with a rust-preventive solution."
- Refrain from riding on the beach, in areas with high-salinity mist, or on paths treated with salt or de-icing agents. Such conditions can expose your E-Bike to corrosive materials.
- Corrosion, especially of electrical parts, may result in irreversible harm leading to battery, electrical system failure, or an electrical fire. Warranty does not cover damage caused by corrosion.
- To prevent rusting on scratched or chipped painted metal surfaces, promptly apply touch-up paint or nail polish.
- Maintain a routine of cleaning and oiling all movable parts; ensure components are securely tightened and adjusted as necessary.
- Conduct frequent checks on all fixed and additional component hardware to confirm they are properly torqued, securely fastened, and in satisfactory operating order.

NOTE: See the Pre-Ride Safety Checklist and Recommended Service Intervals sections below for more detailed information.

PRE-RIDE SAFETY CHECKLIST

Notice: Before every ride, and after every 25-45 miles (40-72 km), we advise following the pre-ride safety checklist.

Safety Check	Basic Steps
1. Brakes	<ul style="list-style-type: none">• Ensure brakes work properly.• Check brake pads for wear and ensure they are not overworn.• Ensure brake pads are correctly positioned.• Ensure brake levers are well lubricated and tightly secured to the handlebar.• Test that the brake levers are firm and that the brake and the brake light are functioning properly.
2. Wheels and Tires	<ul style="list-style-type: none">• Ensure tires are inflated within the recommended limits posted on the tire sidewalls, and hold air.• Ensure tires have good tread, have no bulges or excessive wear, and are free from any other damage.• Ensure rims run true and have no obvious wobbles, dents, or kinks.• Check axle nuts to ensure they are tight.
3. Steering	<ul style="list-style-type: none">• Ensure the handlebar is correctly adjusted, tightened, and allow proper steering.• Ensure the handlebar is set correctly in relation to the fork and the direction of travel.
4. Chain	<ul style="list-style-type: none">• Ensure the belt is clean, and runs smoothly.• Extra care is required in wet, salty/otherwise corrosive, or dusty conditions.

USER MANUAL - IMPORTANT SAFETY INFORMATION

Safety Check	Basic Steps
5. Bearings	<ul style="list-style-type: none">• Ensure all bearings are lubricated, run freely, and display no excess movement, grinding, or rattling.• Check wheel bearings, pedal bearings, and axle bearings.
6. Cranks and Pedals	<ul style="list-style-type: none">• Ensure pedals are securely tightened to the cranks.• Ensure the cranks are securely tightened and not bent.• Ensure belts are secure and in good condition.
7. Frame and Fork,	<ul style="list-style-type: none">• Check that the frame and fork are not bent or broken. If either frame or fork are bent or broken, they should be replaced.
8. Motor Drive Assembly and Throttle	<ul style="list-style-type: none">• Ensure the motor is spinning smoothly and motor bearings are in good working order.• Ensure all power cables running to the motor are secured and undamaged.• Make sure motor mounting bolts are tight
9. Battery	<ul style="list-style-type: none">• Ensure the battery is charged before use. Ensure there is no damage to the battery.• Make sure the battery is secure• Charge and store the E-Bike and battery in a dry location, between 50 °F – 77 °F (10 °C – 25 °C).• Let the E-Bike dry completely before using again if it gets wet.
10. Electrical Cables	<ul style="list-style-type: none">• Look over connectors to make sure they are fully seated and free from debris or moisture.• Check cables and cable housing for obvious signs of damage.• Ensure headlight, taillight, and brake light are functioning, adjusted properly, and unobstructed

Safety Check	Basic Steps
11. Accessories	<ul style="list-style-type: none"> • Ensure all reflectors are properly fitted and not obscured. • Ensure all other fittings on the E-Bike are properly secured and functioning. • Inspect helmet and other safety gear for signs of damage. • Ensure the rider is wearing a helmet and other required riding safety gear. • Ensure the taillight and tail light power wire are properly secured. • Ensure fender mounting hardware is properly secured. • Ensure there are no cracks or holes in fenders.


Safety Check Advisory:

Before you embark on your first journey with the Mini RCR F2, it's crucial to ensure your E-Bike is in top condition. If you're not confident in conducting safety checks yourself, we highly recommend seeking the expertise of a certified and trustworthy E-Bike mechanic. They can perform a thorough initial safety check and guide you on how to carry out these checks in the future.

Maintenance Reminder:

Be aware that bolted connections may become loose after you've cycled between 50 to 100 miles (80 to 160 kilometers). To maintain optimal performance and safety, it's essential to have a certified E-Bike mechanic conduct a tune-up following this initial break-in period. The exact mileage for this maintenance can vary based on factors like total weight, riding style, and terrain. Regular inspections and tune-ups are vital to keep your E-Bike safe and enjoyable to ride.

TIRE INFLATION AND REPLACEMENT

The Mini RCR Model F2 is equipped with durable rubber tires that are designed to ensure safety during regular cycling activities. It's essential to inspect the tires before each ride to verify they are properly inflated and in good condition. Adhering to proper tire inflation, regular care, and timely replacement is key to preserving the bike's performance and preventing hazardous situations. Always adhere to the air pressure guidelines recommended by the tire manufacturer, which you can find on the tire sidewall.

USER MANUAL - IMPORTANT SAFETY INFORMATION

Important Tire Inflation Warnings:



- **Maintain Correct Air Pressure:** It's essential to keep your tires inflated to the pressure rating specified on the tire. Incorrect tire pressure, whether too low or too high, can lead to loss of control or tire bursts, potentially causing tire or wheel failure.
- **Use Regulated Air Sources:** Always inflate your tires using a regulated air source equipped with a pressure gauge. This prevents the risk of overinflation and tire bursts.
- **Replace Worn or Flat Tires Promptly:** If your tires show signs of wear or you experience a flat, replace the tires immediately to avoid injury or damage to your bike.
- **Aftermarket Parts Warning:** Using non-Mini RCR provided tires may invalidate your warranty and could lead to unsafe riding conditions or damage to your bike. Ensure any aftermarket tires meet legal requirements for reflective sidewall striping.

For more information on tire replacement procedures, or questions about tire inflation, contact Mini RCR Bikes Product Support: support@minircr.com.

TROUBLESHOOTING

	Symptoms	Possible Causes	Most Common Solutions
1	The E-Bike does not power up	1. Insufficient battery power 2. Faulty connections	1. Charge the battery 2. Clean and repair connectors
2	Irregular acceleration and/or reduced top speed	1. Insufficient battery power 2. Loose or damaged throttle	1. Charge or replace battery 2. Replace throttle
3	The motor does not respond when the E-Bike is powered on	1. Loose wiring 2. Loose or damaged throttle 3. Loose or damaged motor plug wire 4. Damaged motor	1. Repair and or reconnect 2. Tighten or replace 3. Secure or replace 4. Repair or replace
4	Reduced range	1. Low tire pressure 2. Low or faulty battery 3. Driving with too many hills, headwind, braking, and/or excessive load. 4. Battery discharged for long period of time without regular charges, aged, damaged, or unbalanced 5. Brakes rubbing	1. Adjust tire pressure 2. Check connections or charge battery 3. Assist with pedals or adjust route 4. Balance the battery; contact Tech Support if range decline persists 5. Adjust the brakes
5.	The battery will not charge	1. Charger not well connected 2. Charger damaged 3. Battery damaged 4. Wiring damaged	1. Adjust the connections 2. Replace charger 3. Replace battery 4. Repair or replace wiring
6	Wheel or motor makes strange noises	1. Loose or damaged rim 2. Loose or damaged motor wiring	1. Tighten, repair, or replace 2. Reconnect or replace the motor.
7	Braking system makes strange noises	1. Break in required 2. Damaged rotor or worn pads	1. Rotor/pad mating on a new F2 E-Bike can take time to complete. Low to medium scraping or grinding sounds will fade as mating occurs. 2. Inspect and replace brake system components with manufacturer approved products only.

UNDERSTANDING WEAR ON YOUR MINI RCR E-BIKE

The components of your Mini RCR E-bike may wear down more quickly than those of non-electric bikes. This is due to the E-bike's ability to reach higher speeds and its heavier weight. Please note that this increased wear is not considered a defect and is not covered by the warranty. Components that typically experience more wear include tires, brake pads, rotors, suspension forks, wheels, and the battery.

Safety Warning:



Exceeding the lifespan of any E-Bike component can lead to a sudden loss of function, which may cause serious injury or even be fatal. Be vigilant for signs of wear such as cracks, scratches, or changes in color or performance, as these may indicate that a component's lifespan has been reached. Any worn components must be replaced immediately. If you're not well-versed in E-Bike maintenance, we strongly advise consulting with a certified, reputable E-Bike mechanic for assistance.

WARRANTY INFORMATION

LIMITED 6-MONTH WARRANTY

Thank you for choosing Mini RCR. We are committed to delivering high-quality products and stand behind the craftsmanship of our e-bikes. To ensure your satisfaction, we offer a limited 6-month warranty covering defects in materials and workmanship.

What Is Covered:

Manufacturer Defects: This warranty covers defects in the lithium-ion battery, electric motor, and other components of the e-bike that are due to issues in manufacturing.

Coverage Period:

The warranty is valid for 6 months from the date of purchase.

What Is Not Covered:

- **Riding Damage:** Damage resulting from riding the e-bike, including but not limited to impacts, crashes, or accidents.
- **Improper Use:** Issues arising from improper use or maintenance of the e-bike, including failure to follow the manufacturer's instructions.
- **Wearable Items:** Components that naturally wear out over time, such as tires and tire damage.
- **Water/Weather Damage:** Damage resulting from exposure to water, extreme weather conditions, or other environmental factors.
- **Battery Exclusions:** The warranty does not cover the battery if it's damaged by power surges, using the wrong charger, poor maintenance, misuse, or water damage.
- **Warranty Decisions:** Mini RCR has the final say in determining if a damaged or defective E-bike or component is covered under this limited warranty.

Warranty Validity:

Original Owner: This warranty applies only to the original purchaser of the e-bike and is non-transferable. Proof of purchase must be provided to make a warranty claim.

How to Make a Claim:

To make a warranty claim, please contact our customer support team at support@minircr.com with your proof of purchase and a description of the issue. We may require photos or other documentation to assess the claim.

Warranty Process:

Evaluation: Our team will review the information provided and determine if the issue is covered under warranty.

Resolution: If your claim is approved, we will offer repair or replacement of the defective parts at no cost to you. Please note that any repairs or replacements not authorized by Mini RCR may void this warranty.

We appreciate your understanding and support. If you have any questions or need further assistance, do not hesitate to reach out to us.

The warranty and legal terms for your Mini RCR E-bike, such as the terms of purchase, are subject to change. To stay updated with the latest warranty information, please visit the Mini RCR website.

SHIPPING DAMAGE POLICY:

While the Limited Warranty does not cover shipping damage to components, Mini RCR offers a replacement for such damages under these conditions:

- **Report within 30 Days:** You must inform Mini RCR about any shipping-related damage to covered components within 30 days of receiving your E-bike.
- **Provide Photographic Evidence:** Submit a dated photograph of the damaged components to Mini RCR.
- **Return Packaging and Paperwork:** Send back all the original packaging and accompanying paperwork that came with the E-bike.
- **Document Visible Damage:** Before accepting the shipment, note any visible damage on the shipper's Bill of Lading.

It's crucial to act quickly as shipping damage claims are time-sensitive. You are responsible for inspecting the E-bike for any damage as soon as you receive it.

Independent Shipping Methods: If you opt for an independent shipping method, like a freight forwarder, Mini RCR will not replace any components damaged during this process.

CREDIT CARD CHARGEBACK POLICY:

Should a chargeback be issued on your credit card for the purchase of an E-bike, and you retain possession of the E-bike, the Limited Warranty provided will be suspended. The warranty will remain inactive until the chargeback dispute is fully resolved.

CLAIMS PROCESS:

To claim a replacement for a covered component under the limited warranty, you must provide visual proof of the damage. Here's what you need to do:

- **Contact Mini RCR Product Support:** Reach out via email at support@minircr.com. The support team will first try to troubleshoot the issue with you.
- **Return Instructions:** If a replacement is needed, Mini RCR will guide you on how to return the damaged component and how to receive the new one.
- **Installation Assistance:** Once you have the replacement, the support team will help you figure out how to install it on your E-bike.
- **Shipping Costs:** You are responsible for the costs of returning the damaged component, unless Mini RCR has agreed to cover them. Replacements will only be sent to the original purchaser's address.

WARRANTY LIMITATIONS AND LEGAL RIGHTS:

- **Exclusive Remedies:** The only remedies available to you for any breach of the limited warranty are those described previously.
- **Liability Cap:** Mini RCR's liability will never exceed the purchase price you paid for the E-bike.
- **No Liability for Indirect Damages:** Mini RCR is not liable for any indirect damages or losses, whether they are consequential, incidental, special, or punitive.
- **State Variations:** The limitations on damages may not apply if your state does not allow such exclusions.
- **Your Legal Rights:** This limited warranty provides you with specific legal rights, and you may have other rights that vary from state to state.
- **No Implied Warranties:** Mini RCR disclaims all implied warranties to the extent allowed by law, including but not limited to warranties of merchantability and fitness for a particular purpose, for the duration of this express limited warranty.
- **Duration of Implied Warranties:** The duration of any implied warranties may not be limited in your state, so the above exclusion may not apply.
- **E-bike Modifications:** Any modification to the E-bike to enhance or alter the performance of the vehicle will automatically void all warranties

Please visit **www.minircr.com** to view the latest instructional videos for your E-bike.

Thank you for choosing Mini RCR. Please email support@minircr.com or with any questions or concerns. **We are here to help!**



READ BEFORE RIDING

IMPORTANT SAFETY INFORMATION

MINIRCR.COM

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