



ROADRUNNER RX7 ELECTRIC SCOOTER

Owner's Manual



RoadRunner RX7 Scooter

Pictures in this manual are for reference only. Please read the full instruction manual before using your Scooter.

For instructional videos on how to: get your scooter ready to ride, maintain your scooter and make proper repairs to your scooter if needed. Scan this QR code with your camera phone and browse dozens of videos.





ROADRUNNER RX7 ELECTRIC SCOOTER OWNER'S MANUAL

Congratulations on your purchase of the RoadRunner RX7 electric scooter!

This manual contains important information regarding the setup, operation, and maintenance of your scooter. Please read this manual carefully before using your scooter to ensure safe and proper operation.

**IMPORTANT RIDING INSTRUCTIONS:
WHEN RIDING, USE DUAL MOTOR MODE.
USING SINGLE MOTOR MODE WILL
OVERWORK THE REAR MOTOR.**



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What's in the Box

- **RX7 Scooter**
- **Front and Rear Fenders with tools**
- **Scooter Keys (2)**
- **Decklid Keys (2)**
- **RoadRunner Scooter Keychain**
- **Tool Kit**
- **Electric Air Compressor**
- **Stem Tightening Tool**
- **Steering Damper + Damper Hardware**
- **Battery: Shipped separately**
- **Samsung Lithium-Ion 72V 40Ah 21700 Battery**
- **Smart BMS App (QR Code on battery)**



Scooter Specs

Product name	RoadRunner RX7 Electric Scooter
Product model	RX7
Folded Dimensions	55" (l) x 12" (w) x 27" (h)
Upright Dimensions	55" (l) x 12" (w) x 55" (h)
Deck Plate	27" x 11"
Deck to Handlebars	42"
Ground to Deck	9"
Weight	139 lbs
Max load	400 lbs
Max speed	Up to 70 MPH (depending on environment, climb, weight and driving habits)
Range:	Up to 70 miles (depending on environment, climb, speed, weight, riding habits)
Max climb	40° incline
Suspension	Adjustable KKE Front and Rear Hydraulic Suspension



Scooter Specs

Folding Mechanism	304 grade Stainless Steel double threaded locking mechanism
Tire	11" x 4" PMT Stradale 100% Rubber Pneumatic Tires Size: 90/60-6.5
Fenders	Aluminum Front and Rear
IP Rating	IP67
Brake system	Magura MT5e Hydraulic Disc Brakes 4 Piston
LED display	Headlights, cruise, brake, gear, and battery level indicator
Light system	LED Headlight - 1200 Lumens, Rear LED Brake Lights, Front and Rear Running Lights
RoadGlo System	Stem, Side Deck, and Swing Arms
Turn Signals	Rear Turn Signals
Lithium battery	Samsung 72V 40Ah 21700 Smart BMS Lithium-ion Battery
Speed Controller	2 x 55 amp Sine Wave
Charger	100-120 VAC, 50/60Hz, 8.5amp Output: 84.0V 5A



Charging the Scooter

USING CHARGING PORTS ON SIDE DECK OF SCOOTER



01

Plug the charger into a 120V power supply (wall outlet, power strip, etc.)

02

Open the waterproof cover on the charging port on the side deck, then plug the charger into the scooter.

03

A red light means the Scooter is charging; green means it is fully charged.

04

Cover the charging port once the charger is removed.

USING CHARGING PORTS ON BATTERY:

01

Open deck lid of scooter. Unplug the quick-connect plug attached to the battery and remove battery from scooter.

02

Plug the charger into a 120V power supply (wall outlet, power strip, etc.)

03

Open the waterproof cover on the charging port on the battery, then plug the charger into the charging port.

04

A red light means the Scooter is charging; green means it is fully charged.

05

Cover the charging port once the charger is removed.

For faster charging, a second 5 amp charger can be used in the second charging port to charge the battery at twice the rate.

Note: Dual fast (5A) charger support is available on the RS6 ULTRA and RX7 models.



Battery and Charger Information

The RoadRunner RX Scooter is equipped with a dedicated Samsung Lithium-ion battery and a dedicated charger. Do not use any other charger or battery with the RX7. RoadRunner is not responsible for any damages incurred due to misuse of battery or charger.

Maximum Voltage for full battery charge: 84.0 V

Minimum Voltage before battery dies: 62 V

WARNING:

NEVER LEAVE SCOOTER UNATTENDED
WHILE BATTERY IS CHARGING!

Charger:

The smart charger included with your RX7 scooter automatically stops charging and the light turns green when your scooter reaches 100%, which means it is fully charged. The battery should be fully charged in 9-10 hours (4-5 hours with 2 chargers). If your battery will not charge, please contact RoadRunner Scooters for help. If your battery is damaged due to weather or human interaction, it is not covered under our warranty.



Battery Installation

01

Use deck lid keys to unlock and open the deck lid.

02

Move the battery quick connect plug inside the deck towards the front of the scooter to allow room for the battery.

03

Place the battery in the deck by positioning it directly above the compartment. Ensure the battery is aligned horizontally and drop it straight down without angling either end for the easiest fit.

04

Plug the quick connect plug into the battery. Close and lock the deck lid.

WATCH THE HOW TO VIDEO NOW





Download BMS App

01

Scan QR code to download BMS app



02

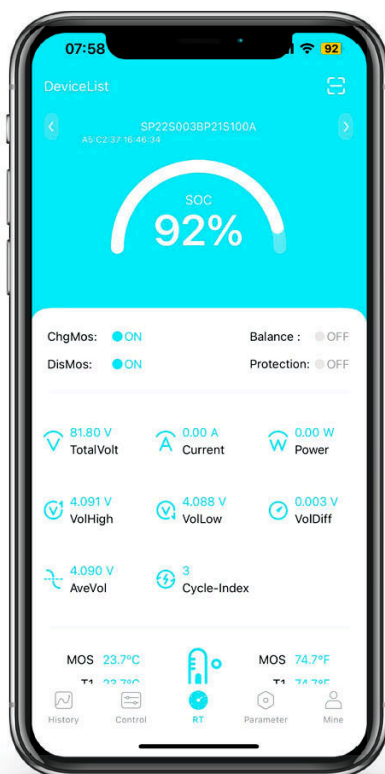
Register an Account: Once downloaded, open the app and register a new account.

03

Power On:
Turn the scooter on.

04

Link the App to the Battery:
Use the app's scanning function to scan the second QR code on the battery labeled "second step".
This will link the app to the RX7's battery.





Smart BMS App

Features of the Smart BMS App

The XiaoXiang Electric Smart BMS app allows you to monitor various aspects of the battery in real time, including:

- Remaining Capacity
- Charge and Discharge Status
- Balance Status
- Protection Status
- Voltage
- Current
- Temperature
- Single String Voltage Information

Purpose of the Battery Management System (BMS)

The primary function of the BMS is to ensure the battery operates safely within its voltage, current, and temperature limits during charging, discharging, and in certain cases, at open circuit.



How to lock and fold the stem

HOW TO FOLD THE SCOOTER:



01

Release the black safety clasp on the top part of the locking mechanism.

02

Unscrew the top locking mechanism counterclockwise until there is a gap between the black and silver parts of the mechanism.

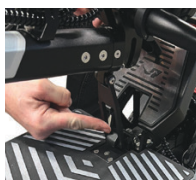


03

Unscrew the bottom locking mechanism counterclockwise until there is a gap between the silver bottom locking mechanism and the neck of the scooter.

04

Pull the stem upright from the scooter to release it, then fold it down onto the neck of the scooter.



05

Attach the folding hook on the top of the stem to the folding latch on the deck of the scooter.

WATCH THE HOW TO VIDEO NOW





How to fold and lock the stem

HOW TO UNFOLD THE SCOOTER:



- 01**
Release the folding hook from the folding latch.

- 02**
Raise the stem of the scooter so it drops down on top of the neck.



- 03**
Tighten the silver locking mechanism until it is secure against the top of the neck of the scooter.

- 04**
Tighten the black locking mechanism until it is secure against the top of the silver folding mechanism.



- 05**
Use the locking mechanism tool provided in the box to ensure there is no wobble.

- 06**
Tighten the black safety clasp on the black locking mechanism.

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Handlebar Installation

HOW TO:

01

Using a number 4 hex key, unscrew all four bolts on the handlebar bracket and remove it. Set the screws and the top bracket aside.



02

Place the handlebar on the lower handlebar bracket and center it.



03

Position the top piece of the handlebar bracket over the handlebar and align it with the bottom piece of the handlebar bracket. Insert the 4 screws back into the handlebar bracket. Ensure the angle of the handlebar allows easy access to the brakes, control module, and throttle. Tighten all four screws so the handlebar does not rotate or move side to side.



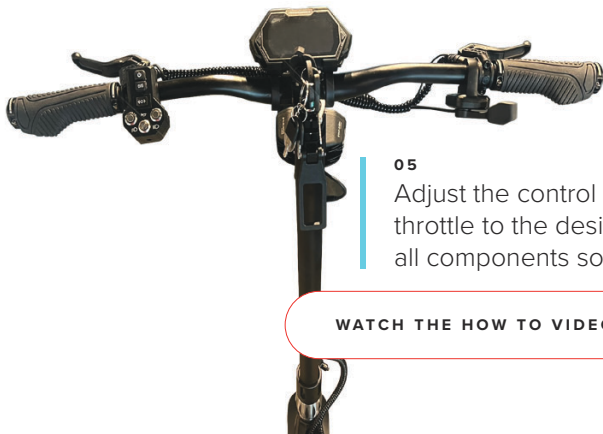
04

Adjust the display to the desired angle and tighten the display bracket so it does not move.



05

Adjust the control module, brakes, and throttle to the desired angles, then tighten all components so they do not move.



WATCH THE HOW TO VIDEO NOW





Fender Installation

HOW TO:

01

Identify the Fenders and components:

- The front fender is the shorter one.
- The back fender is the longer one
- 4 fender arms (2 for each fender)
- 8 Fender bolts and nuts



02

Attach Fender Arms:

- Position the fender arms so they are on the inside of the fender, with the arms angled as shown in the picture.
- Tighten the bolts completely using a No. 3 hex key and pliers to hold the nuts in place.



03

Align Fender Arms:

- Align the fender arms so they fit squarely against the swing arm of the scooter and align with two holes in the swing arms.

04

Secure Fender Arms:

- Insert 2 screws into the swing arm and secure the fenders on each swing arm.



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Steering Damper Installation

01

Tools needed to install:

- 4 mm hex tool
- 5 mm hex tool
- 6 mm helix tool
- 1 x 13mm socket wrench



02

Steering Damper Hardware Included:

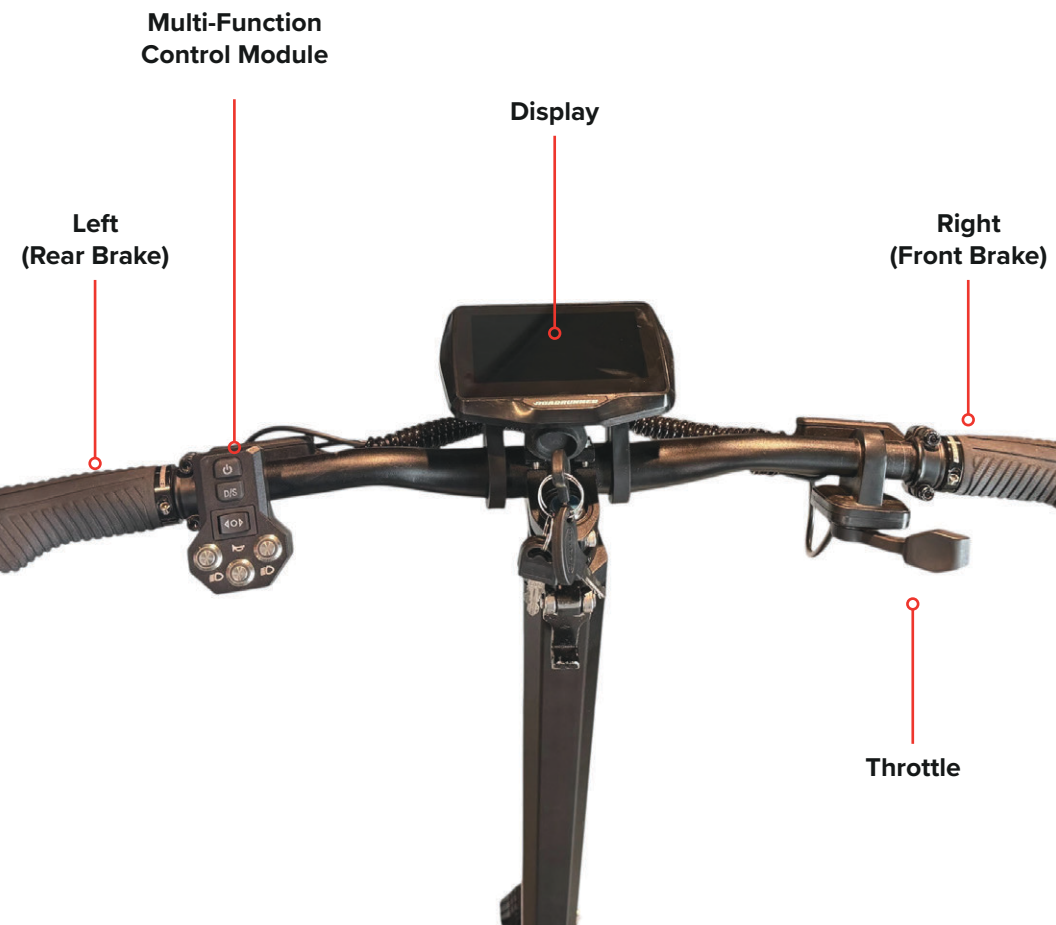
- Steering damper bracket
- Eyelet bolt
- 2x M8x30 bolts
- M8x16 bolt
- M6x18 bolt
- 2x M8 nuts
- 2x 9mm washers
- 7mm washer

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Handlebar Controls + Instruments



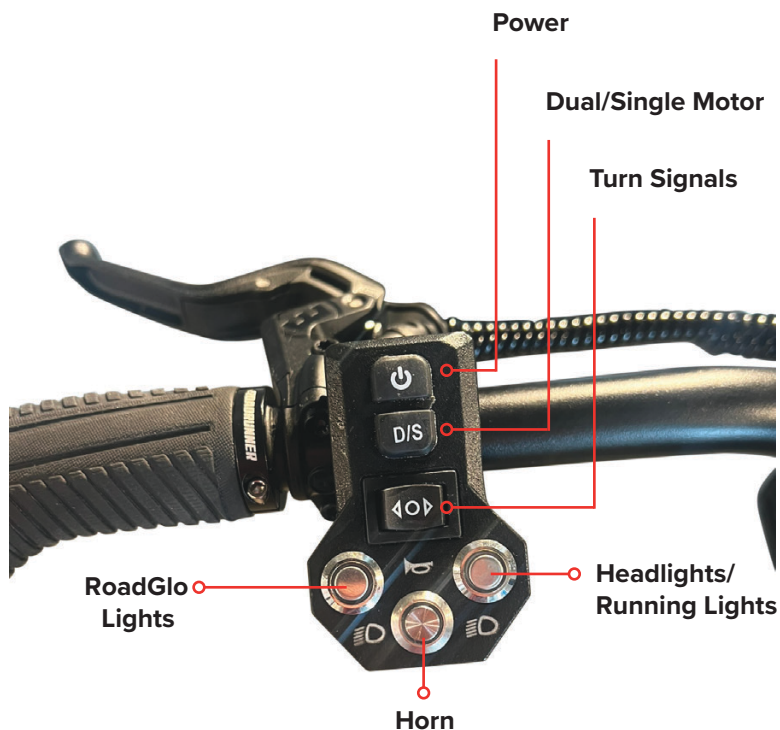


LCD Display





Multi-Function Control Module



IMPORTANT RIDING INSTRUCTIONS:
WHEN RIDING, USE DUAL MOTOR MODE.
USING SINGLE MOTOR MODE WILL
OVERWORK THE REAR MOTOR.



Parameter Settings (P-Settings)

To make changes to any P-settings, press the power button quickly three times in row.

Once the selected values begin flashing, quickly press the power button just once to cycle through the options. Press the power button to exit the current P settings or to advance to the next P-setting. P-settings will automatically exit if there is no activity for 8 seconds.

Example: to modify KM vs. miles, press the power button quickly three times in row to enter P1. Once the selection flashes, press the power button once to select 0 (KM) and once more to select 1 (miles). Once you've made your selection, press the power button to proceed to the P2 setting.

P1	KM/Miles setting; default is miles
P2*	Voltage level setting (36V, 48V, 52V, 60V, 72V); default 72V. DO NOT CHANGE
P3*	Wheel diameter, in inches; default 11. DO NOT CHANGE
P4*	# of magnetic poles for speed measurement, 1-100 default 30. DO NOT CHANGE
P5	Cruise selection (0 means no cruise, 1 means cruising). default 0
P6	Zero startup (0) vs. non-zero startup (1) settings. When powering on, no icon will be displayed if zero startup; the display will show "NON" if zero startup. In non-zero startup mode, you will need to manually bring the scooter to 3 MPH and press the accelerator to start. default 0
P7	Speed limit setting, 1-100% default 100
P8	Sleep time setting, 1-60 minutes default 5
PA	Start strength setting, 1-5 (1 least starting power, 5 strongest) default 1
PB	Brake strength setting 1-5 (1 least stopping power, 5 strongest) default 1

Note: * Do not change P-settings: P2, P3, P4. These are preset factory settings and will disrupt the performance of your scooter if changed.

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Operating Instructions

Power ON/OFF:

A: Turn your key to the right to turn on, turn your key to the left to turn off.

B: Long press the power button (~ approximately 1-2 second) to turn the LCD display on/off.

C: Press once quickly to switch gears (default is gear 1).

Gear Setting:

Press the button located on the throttle to switch gears.

GEAR 1: Slowest Speed

GEAR 2: Medium Speed

GEAR 3: Fastest Speed
(up to 70 mph)

Kick Start Mode:

The throttle system will work once the scooter reaches 3 MPH. Press the throttle smoothly to accelerate. Refer to P-6 setting on how to engage.

Headlights:

When the scooter is powered on, push the headlight button to turn on headlights, taillights, and sidelights. Push the headlight button to turn off the lights.

Brake Control:

The Magura 4-piston braking system is designed to be used with both brake levers simultaneously. This ensures a safe and more evenly balanced braking experience.

Cruise control:

When cruise control is turned on, it will automatically be activated when you reach a consistent speed. Release the thumb accelerator and the scooter will automatically move at the set speed. To cancel the cruise control, pull either brake lever and cruise control will automatically turn off.



Error Codes

E-001	Throttle Error
E-003	Undervoltage Error
E-004	Rear Controller Error
E-005	Rear Motor Error
E-006	Display Error: Display Signal Not Received
E-008	Front Controller Error
E-009	Front Motor Error



Performance Features + Care Instructions



Frame, Stem, and Locking Mechanism

01

With safety as the paramount design objective, the aerospace grade 6061 single cast aluminum frame features an innovative, heat-dissipating deck lid that actively cools the battery, controllers, and wiring inside the deck maximizing both performance and range.

02

The RX7 has an innovative stem with a dual locking mechanism. The stem is crafted from 304-grade stainless steel to ensure stability even at high velocities, effectively eliminating wobble for a secure riding experience.



KKE Shocks

01

The RoadRunner RX7 electric scooter features custom-built*, high-performance KKE shocks, engineered to deliver a smooth and comfortable ride across various terrains. These shocks are easily adjustable with a two-finger dial, allowing you to tailor the suspension to your riding preferences. Designed to absorb shocks and vibrations, they ensure a stable and controlled ride.



KKE Shocks

02

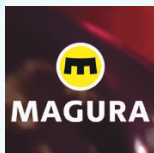
Care Instructions

Cleaning: Use a soft, damp cloth to clean the shocks. Avoid using harsh chemicals or abrasive cleaners, as these can damage the shock's finish.

Inspect Regularly: Check the shocks regularly for signs of damage, such as leaks or excessive wear. If you notice any issues, contact customer support assistance.

Adjustment: Incorrect adjustment can affect the performance of your scooter.

*Please note that the KKE shocks on the RX7 are custom-built specifically for this scooter. Off-the-shelf shocks will not be compatible with the RX7. To purchase replacement shocks, visit www.roadrunnerscooters.com



Magura Brakes

01

Magura brakes are renowned for their reliability and performance. The RoadRunner RX7 electric scooter is equipped with Magura MT5e 4-piston hydraulic disc brakes, providing powerful and consistent stopping power. This ensures you can ride with confidence in all conditions. The hydraulic system offers smooth, responsive braking, enabling effortless one-finger operation.



Magura Brakes

02

Care Instructions

Cleaning: Clean the brake calipers and rotors with a soft, damp cloth to remove any dirt or debris. Avoid using harsh chemicals or abrasive cleaners, as these can damage the brake components.

Pad Inspection: Check the brake pads for wear regularly. Replace them if they are worn down to ensure optimal braking performance.

Brake Bleeding: [Visit RoadRunner's DIY webpage](#) for a video on how to bleed the RX7 Magura Brakes. Magura brakes use mineral oil brake fluid only. Never introduce DOT brake fluid into your Magura brake system. These two fluids are not compatible. Using the wrong fluid will damage your brake's internal seals and may result in brake failure or premature wear.



PMT Tires

01

The RoadRunner RX7 electric scooter is fitted with PMT 11" x 4" Stradale 100% rubber tires, which are specially designed for electric scooters. These tires offer excellent grip and traction, providing a safe and stable ride. The PMT tires are also durable and long-lasting, ensuring that you can enjoy your scooter for years to come with minimal maintenance.



PMT Tires

02

Care Instructions

Tire Pressure: Check tire pressure regularly and inflate to the recommended pressure of 38 PSI (262 kPa).

Underinflated tires can affect the handling and performance of your scooter.

Tire Tread: Inspect the tire tread regularly for signs of wear or damage. Replace the tires if the tread is worn down to ensure safe riding.

Avoiding Hazards: Avoid riding over sharp objects or debris that could puncture the tires.

Off-Road Use:

The RX7 is designed primarily for on-road performance. Avoid operating the scooter in off-road conditions with the PMT racing tires installed. While the RX7 can be equipped with off-road tires, it should not be used on rough terrain, such as motorcycle dirt tracks, off-road areas with jumps, or tight trails. Think of the RX7 as a Harley Davidson motorcycle: suitable for roads, dirt roads, and gravel trails.

Please note that riding on heavy off-road terrain risks damaging the RoadGlo coating, which is not covered by the warranty.



RoadGlo Electroluminescent Lighting

01

RoadGlo is a patented electroluminescent coating that emits light when an electrical current is applied. The coating is applied to the surface of the scooter and is powered by a separate power source. RoadGlo is flexible, durable, and energy-efficient, making it ideal for use on the RoadRunner RX7 electric scooter for a sleek look and enhanced safety.



RoadGlo Electroluminescent Lighting

02

Care Instructions

No Sharp Objects: Do not use sharp objects anywhere close to RoadGlo. Doing so will result in damage to the RoadGlo.

No Adhesives: Do not put any adhesive, such as tape, stickers, or glue on the RoadGlo decals. Doing so will result in damage to the RoadGlo.

Cleaning: Use a soft, damp cloth to clean the RoadGlo lighting. DO NOT use abrasive cleaners or scrubbing the surface, as this can damage the coating.

Avoiding Impact: To prevent damage to the RoadGlo lighting, avoid impact or sharp objects that could scratch or puncture the coating.

Storage: Store your scooter in a cool, dry place when not in use. Avoid exposing the scooter to extreme temperatures or moisture, as this can damage the RoadGlo coating.

Inspect Regularly: Check the RoadGlo lighting regularly for any signs of damage, such as cracks, peeling, or discoloration. If you notice any damage, contact our customer support team for assistance.

Professional Maintenance: For any repairs or maintenance involving the RoadGlo lighting contact RoadRunner Scooters customer service.

By following these care instructions, you can help ensure that the RoadGlo electroluminescent lighting on your RoadRunner RX7 electric scooter remains in optimal condition.

TECHNICAL SPECIFICATIONS



RX7

MOTOR

Nominal 3600W (1800×2) Brushless Dual Drive

Peak 9500W

SPEED CONTROLLER

One Sine Wave controller per motor

TOP SPEED

Up to 70 mph (112 km/h)

MAX RANGE

Up to 70 miles (112 km)

BATTERY

72V nominal (84.0V full charge)

40Ah · 21700 Samsung · 2880Wh · removable

CHARGING PORTS

2 ports (1× 5A charger included)

TIRES

11" × 4" PMT Stradale Italian Racing

SUSPENSION

KKE Hydraulic Spring EZ-Adjust, front & rear

BRAKES

Magura MT5e 4-Piston Hydraulic

AMBIENT LIGHTING

RoadGlo EL — stem, swing arms, side deck

FUNCTIONAL LIGHTING

Dual Projector LED, LED brake & turn signals

DISPLAY

TFT Multi-Function Digital

SHIPPING WEIGHT

166 lb (75 kg)

SHIPPING DIMENSIONS

58" (L) × 15" (W) × 27" (H)

LOW-VOLTAGE PROTECTION

62V

WEIGHT

139 lb (63 kg)

RIDER CAPACITY

400 lb (181 kg)

FOLDED DIMENSIONS

55" (L) × 12" (W) × 27" (H)

UPRIGHT DIMENSIONS

55" (L) × 12" (W) × 55" (H)

CLIMBING ANGLE

38° incline

WATER RATING

IP67

COLORS

Black, Grey / RoadGlo Aqua



i ABOUT VOLTAGE

Batteries are identified by their nominal voltage. A fully charged battery measures higher — this is normal. 52V=58.8V · 60V=67.2V · 72V=84.0V fully charged. The BMS prevents over-charge and over-discharge.

! DUAL MOTOR OPERATION

Engineered to run both motors in normal riding. Extended single-motor use loads one motor and controller unevenly (heat + accelerated wear). Use Dual Motor Mode whenever practical.

✓ BATTERY PROTECTION

The BMS protects against over-charge, over-discharge, over-current and short circuit. At minimum safe voltage, power is reduced or shut off. Always charge with the supplied charger; never modify or bypass the BMS.



Safety Instructions

- This scooter is for use by one adult rider at a time.
- The RX7 is designed for experienced riders only.
- When riding, wear safety gear including a helmet.
- Always keep both hands on the handlebar and both feet on your scooter while riding.
- Do not ride your scooter anywhere unsafe or illegal.
- Practice riding in an open space first, and only ride on the road once you're comfortable and competent.
- Always use lights when riding in dark conditions.
- Do not use your scooter in temperatures below 0 degrees Fahrenheit.
- Please ride slowly if you encounter an uneven surface or poor road conditions.
- Do not ride on a slippery surface (i.e. ice, excessive water, and oil)
- Do not exceed the weight limit of 400 lbs.
- Avoid using your scooter in extremely high or low temperatures, and do not store it near flammable items.
- Do not immerse your scooter in water higher than 1/2".
- Avoid riding in extreme weather conditions such as heavy rain, snow, and high winds.
- Avoid potholes.
- Always ride in accordance with local traffic laws and regulations.
- Must be 18 years or older to ride.



Warranty Policy

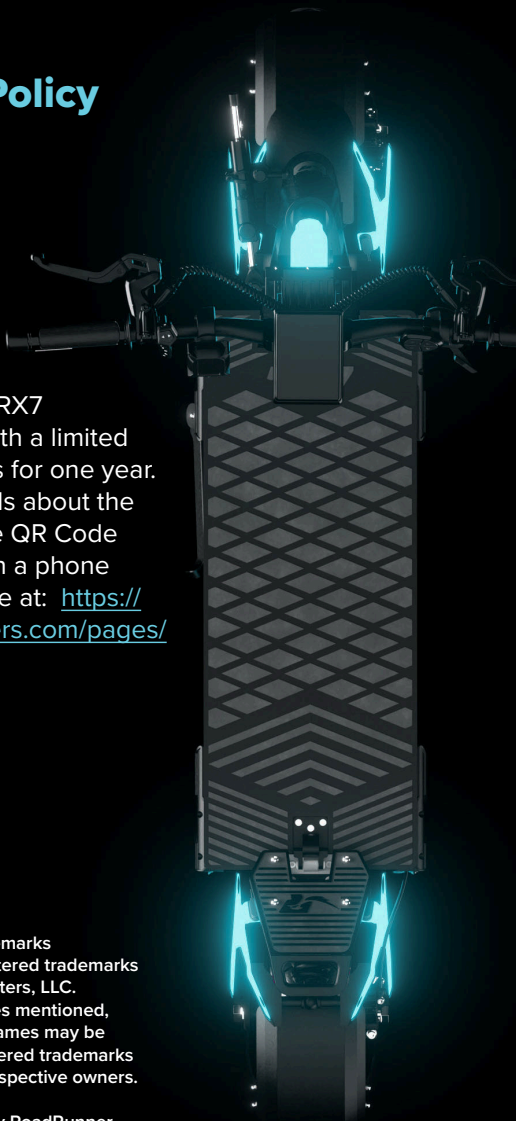


The RoadRunner RX7 Scooter comes with a limited warranty that lasts for one year. To get more details about the warranty, scan the QR Code using a camera on a phone or visit our website at: <https://roadrunnerscooters.com/pages/warranty-policy>

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Contact Us

Product Support

Need technical or mechanical assistance
with your RoadRunner Scooter?

CONTACT US →

Phone:

720.664.4456

Address:

2337 Arapahoe St. Suite 105 Denver, CO 80205



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