



# CARBON FIBER ELECTRIC FOLDING BIKE

Owner's Manual



# TO REVOLT USERS

## Dear Customer,

Thank you for choosing Revolt, we are an expert in folding electric bikes! We design bikes that bring more fun to people when they are riding more and driving less. We are dedicated to the goal of portable transportation, design and manufacture bikes for urban transport with a focus on small-wheel-size electric bikes.

## GENERAL SAFETY NOTES

### Read Before Riding

For safety reasons, it is very important that you read this user manual before you operate the bike. The proper handling will raise the riding performance and reduce some unnecessary danger during operation.

### Respect Others on the Road

Please obey traffic laws and respect motor vehicles. Please stay in the lane that belong to bikes and pay attention to other riders or vehicles around so you can enjoy more fun safely.

### Wear a Helmet

A good and authorized bike helmet may prevent injury in an accident.

### Follow the Servicing Precautions

Do not proceed with servicing or adjustments without proper knowledge of tools. Turn to us for help or go to some bike shops for professional guidance.

### Hit the Books

This manual is only to be used in conjunction with other manuals included with your pedelec such as motor, control system, component, and folding manuals.

## BEFORE USE

- Check the tire pressure (3.4 – 5.1 bar // 50 – 75 psi)
- Ensure that the brakes are working properly
- Verify that the battery is sufficiently charged
- Make sure that the handlebar and saddle post are correctly inserted and tightened
- Verify that the wheel hub mounting nuts are correctly tightened
- Verify that the seat post is firmly tightened using the screws.
- Do not over-tighten any screws as it may cause frame damage.



## BEFORE EVERY RIDE

- Check if the handlebar attachment and saddle post are correctly inserted and tightened.
- Check if the wheel hub mounting nuts are correctly tightened.
- Check if the wheel rims are not cracked and that no spokes are loose or broken.
- Check if the tires are not worn out or cut.
- Check if the tires are correctly inflated
- Confirm if the battery is sufficiently charged.
- Check if the front and rear lights are working correctly.
- Check that the front and rear brakes are working effectively
- Confirm that the cables are sufficiently greased, and that the brake pads are in good condition.
- Flat tire: To replace the rear tire, make sure to power off the Eole, and disconnect the motor cable first.



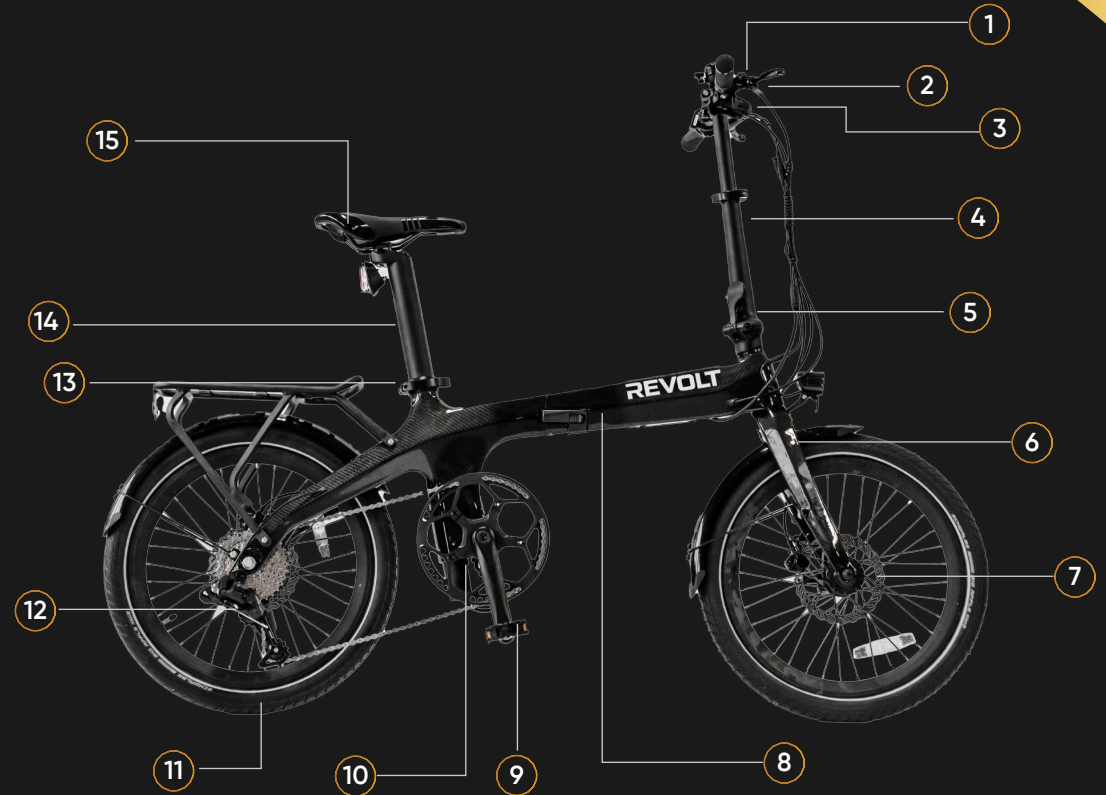
# BATTERY & CHARGER SAFETY

Improper use of the battery charger can cause fire outbreak, resulting in severe injury or death and property damage. Please review the following instructions and guidelines carefully to ensure safe battery usage and maintenance.

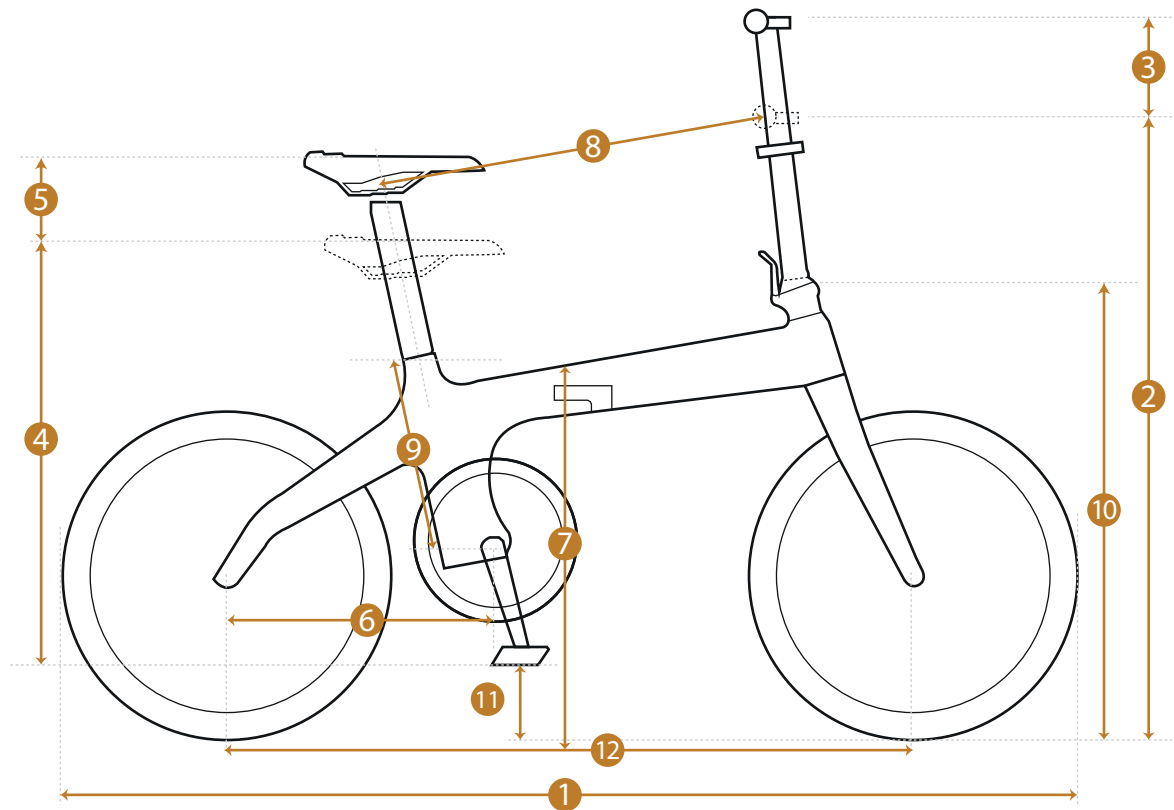
1. Keep the charger away from children!
2. While charging, put the battery in a secure place away from the children.
3. Do not touch the two poles of the battery with your hands when the battery is removed for charging.
4. Do not use any other charger other than the one that came with your electric bike.
5. Do not attempt to open or repair your charger.
6. Charge your bike indoors whenever possible.
7. Charge your battery during the day in a room which has a smoke or fire detector.
8. Do not charge in your bedroom.
9. Charge in a well-ventilated area.
10. Keep away from flames and sparks.
11. Do not put anything on top of the charger while charging; it must be well ventilated to allow the heat generated to dissipate.
12. When charging, if there is a peculiar smell or the charger gets too hot to touch, please stop charging immediately.
13. It is recommended that you charge and discharge your battery at least once every 2 month.
14. When you start charging, connect the charger to the battery first, and then connect the plug to the wall.
15. Once charging is complete disconnect the plug from the wall first, and then disconnect the charger from the battery.
16. To avoid damage to the battery, never subject the bike to intense physical shock, severe vibration or impact.
17. Store the battery in a cool and dry place.

# PRODUCT OVERVIEW

- 1 Display
- 2 Handlebar
- 3 Brake
- 4 Adjustable Stem
- 5 Stem Clamp
- 6 Front Fork
- 7 Disc Brake
- 8 Central Lever
- 9 Foldable Pedal
- 10 Crank Set
- 11 Wheel
- 12 Derailleur
- 13 Seatpost Clamp
- 14 Seatpost Battery
- 15 Saddle

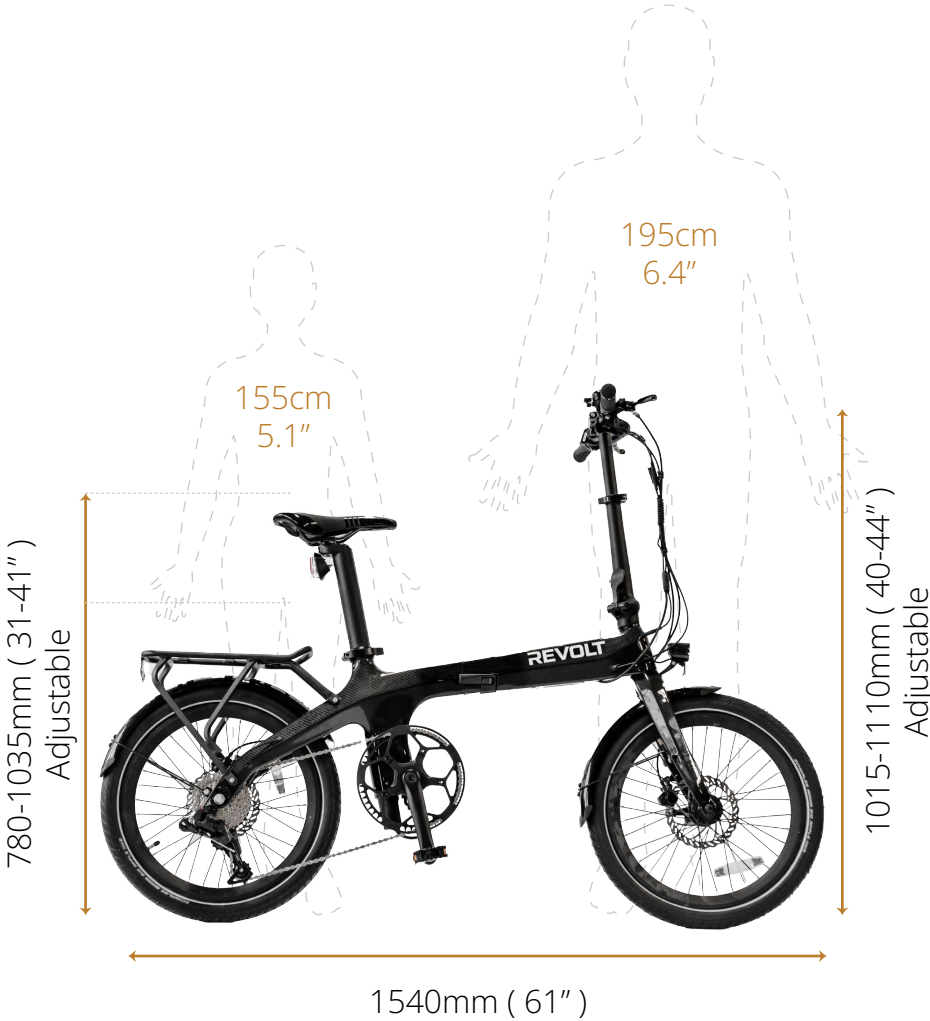


# PRODUCT OVERVIEW



1. Total Length 61" ( 1540 mm )
2. Min Handlebar Height 40" ( 1015 mm )
3. Maxi Handlebar Height 44" ( 1110mm )
4. Min Seat Height 26" ( 660 mm )
5. Max Seat Height 36" ( 915 mm )
6. Chain Stay Length 16" ( 395 mm )
7. Standover Height 23" ( 575 mm )
8. Top Tube Length 24" ( 600 mm )
9. Min Handlebar Height 12" ( 305 mm )
10. Head Length 27" ( 695 mm )
11. Min Pedal Height 5" ( 120mm )
12. Wheelbase 40" ( 1025 mm )

# PRODUCT OVERVIEW



# PRODUCT PARAMETERS

## CARBON FIBER REGULAR

1. **Frame Material:** Design Carb Fiber
  2. **Front Fork:** Design Carbon Fiber
  3. **Front Hub:** 36H\*13G Quick release
  4. **Size:** 1520x580x900mm
  5. **Folded Size:** 820x390x660mm
  6. **Net Weight:** 14.8kg
  7. **Max Load:** 100kg
  8. **Derailleur:** L-TWOO outer 7 speed 14-28T
  9. **Chain Wheel:** Prowheel 52T Plastic
  10. **Brake Lever:** Oil Hydraulic E-bike brake lever
  11. **Brake:** Disk brake 160mm
  12. **Handlebar:** Al-alloy 6061
  13. **Stem:** 3D Integrated Forging Al-alloy 6061
  14. **Saddle:** Zeus Sport
  15. **Pedals:** Foldable Pedals
  16. **Seat Post Battery:** Al-alloy 6061 46mm
  17. **Tire:** Innova 20\*1.95 with reflective line
  18. **Motor:** 36V 250W high speed
  19. **Max Torque:** 42N.m
  20. **Chain:** KMC for 7 speed
  21. **Display:** LCD with 5 classes PAS
  22. **Controller:** DMHC FOC
  23. **Sensor:** Speed Sensor
  24. **Battery:** 36V 6.4Ah LG Li-ion battery
  25. **Charging Time:** About 3hours
  26. **Charger:** 100-240V Smart Charger 42V2Ah
  27. **Range:** About 45Km
- Also included:**
28. Front and Rear lights
  29. Front and Rear reflectors
  30. Front and Rear Mud Guards
- Optional**
31. Rear Rack
  32. Throttle



# PRODUCT PARAMETERS

## CARBON FIBER PRO

1. **Frame Material:** Design Carb Fiber
  2. **Front Fork:** Design Carbon Fiber
  3. **Front Hub:** 36H\*13G Quick release
  4. **Size:** 1520x580x900mm
  5. **Folded Size:** 820x390x660mm
  6. **Net Weight:** 13.8kg
  7. **Max Load:** 100kg
  8. **Derailleur:** L-TWOO outer 9 speed 11-32T
  9. **Chain Wheel:** Prowheel superlight high-end 52T Al-alloy
  10. **Brake Lever:** High-end Oil Hydraulic Brake
  11. **Brake:** Disk brake 160mm
  12. **Handlebar:** Al-alloy 6061 superlight
  13. **Stem:** 3D Integrated Forging Al-alloy 6061
  14. **Saddle:** Zeus Sport
  15. **Pedals:** Superlight Foldable Pedals
  16. **Seat Post Battery:** Al-alloy 6061 46mm
  17. **Tire:** Innova 20\*1.95 with reflective line
  18. **Motor:** Inner Rotor Superlight 36V 250W high speed Cassette
  19. **Max Torque:** 42N.m
  20. **Chain:** KMC for 9 speed
  21. **Display:** Topology mini LCD with 5 classes PAS
  22. **Controller:** Landian FOC
  23. **Sensor:** Torque Sensor
  24. **Battery:** 36V 7.0Ah LG Li-ion battery
  25. **Charging Time:** About 3hours
  26. **Charger:** 100-240V Smart Charger 42V2Ah
  27. **Range:** About 70Km
- Also included:**
28. Front and Rear lights
  29. Front and Rear reflectors
  30. Front and Rear Mud Guards
- Optional**
31. Rear Rack
  32. Throttle

# TORQUE REQUIREMENTS FOR SCREWS

It is vital that all screws are tightened to the appropriate torque values (Nm). Use a torque wrench tool to ensure that all screws are secure. Too much torque can damage the screw, nut or component.

1. Seat bolt: 22 Nm
2. Seat post clamp: 5 Nm
3. Brake levers: 3 Nm
4. Headset bolt: 35 Nm
5. Disc brakes: 6 Nm
6. Brake calipers: 9 Nm
7. Derailleur hanger: 8 Nm
8. Bottom bracket: 35 Nm
9. Crank: 50 Nm
10. Crank arm: 35 Nm
11. Pedals: 38 Nm
12. Folding handle, Shaft screw: 10 Nm
13. Axle nut, Rear: 22 Nm

## Every 300-500KM

Check the following for possible adjustments:

1. Chain Sprockets;
2. Rims;
3. Wheel and Spokes;
4. Brake pads for wear, to be replaced if required;
5. Gearside;
6. All folding levers;
7. All mounting screws.



## ERROR CODES

<b>CODES</b>	<b>Description</b>	<b>Solutions</b>
<b>04</b>	Throttle doesn't return to 0 position	Check if the throttle is in the 0 position
<b>05</b>	Throttle failure	Check the throttle connection
<b>07</b>	Overvoltage Protection	Check the voltage of the battery
<b>08</b>	Failure of motor's hall signal wire	Check the motor
<b>09</b>	Failure of motor's phase wire	Check the motor
<b>11</b>	Failure of controller's temperature sensor	Check the controller
<b>12</b>	Failure of current sensor	Check the controller
<b>13</b>	Battery temperature issue	Check the battery
<b>14</b>	Motor temperature issue	Check the motor
<b>21</b>	Failure of speed sensor	Check the position of speed sensor
<b>22</b>	Failure of the BMS communication	Check the battery
<b>30</b>	Communication Error	Check the connection to the controller

# TROUBLESHOOTING

	PROBLEMS	SOLUTIONS
<b>A</b>	Top speed too slow	Fully recharge battery
<b>B</b>	Power ON but motor not working	1. Reinstall battery/ Replace fuse
<b>C</b>	Driving shorter distance per recharge	1. Check tire pressures 2. Recharge completely or have charger re-inspected 3. Replace with a battery
<b>D</b>	The power and the indicator lights are all on, with throttle or pedal assist, but the e-bike does not work	1. Controller needs to be replaced, or 2. Motor needs to be replaced
<b>E</b>	The power and the indicator lights are all on, bike works with throttle, but not with pedal assist	1. Controller needs to be replaced, or 2. Pedal assist module needs to be replaced, or 3. Motor needs to be replaced
<b>F</b>	The power and the indicator lights are all on, bike works with pedal assist, but not with throttle	1. Controller needs to be replaced, or 2. Throttle needs to be replaced, or 3. Motor needs to be replaced.
<b>G</b>	The power is on, and the throttle is twisted, but the bike does not work	1. Check battery to see if it needs to be charged, or 2. Fuse needs to be replaced, or 3. Controller needs to be replaced, or 4. Motor needs to be replaced

# TROUBLESHOOTING

	PROBLEMS	SOLUTIONS
H	The switch is turned on, and the bike takes off without using the throttle	<ol style="list-style-type: none"><li>1. Check if the throttle is stuck in the on position</li><li>2. Lubricate or replace the throttle if it is faulty</li></ol>
I	After stopping, the bike does not start when the throttle is twisted	<ol style="list-style-type: none"><li>1. Check whether the brake handles are fully released</li><li>2. Check Solutions to Problems D, E, and F above</li></ol>
J	You connect the power to the charger, but the indicator light does not come on	<ol style="list-style-type: none"><li>1. Check whether there is electricity to the charger</li><li>2. If you have a voltage meter, you can check to see if the charger produces the correct current</li></ol>
K	You plug in the charger to the bike and the outlet, and the green light comes on instead of the red light. This means it not charging	<ol style="list-style-type: none"><li>1. Check to see if the battery is fully charged.</li><li>2. Check whether the charger is properly plugged to both the battery and the outlet.</li><li>3. Check the voltage of the charger and battery.</li><li>4. If "zero" voltage on the charger, then it needs to be replaced.</li><li>5. If "zero" voltage from the battery, then check the fuse.</li></ol>

# CAUTIONS

## Battery & Charging

1. Red indicator on the charger means charging, when it turns green ,please stop charging your battery;
2. Do not expose to temperature  $-20^{\circ}\text{C} < \text{ or } > 35^{\circ}\text{C}$  Fully charge the battery and store separately if not use for over 30 days. Fully charge it every 60 days, or the battery may self-discharge and be damaged. This damage is not covered by the Limited Warranty;
3. Never expose your battery to damp environment or soak into water, never short circuit the battery terminals, This damage is not covered by the Limited Warranty;
4. Charge with the original charger only;
5. Do not disassemble/punch battery pack. Do not place it in fire or drop from high, Avoid contacting with contacts;
6. Turn off e-bike's power before charging it. Plug the charging port first before connecting with the AC port;
7. Do not cover any items on the charger during charging;
8. Pull out charging port before the AC plug;
9. Please keep battery away from children.
10. The capacity of Li-battery will decrease when  $-10^{\circ}\text{C} <$ ;
11. Recycle or dispose the battery in accordance with local regulations.
12. Do not allow outer substances to enter into the power adapter,

## Riding & Maintenance

1. In some countries, helmet is required and thumb throttles are forbidden on public roads. Follow the local laws and regulations;
2. Read this instruction carefully before riding an e-bike;
3. Start your ride with the 3rd PAS class;
4. Keep the lamp on at night;
5. Fully check brake system, tire pressure, and battery remaining before riding;
6. PLEASE do take front brake FIRST;
7. Do not intense your riding;
8. Do not ride in the water with depth of over 15cm;
9. Replace the quick-wear parts( like brake pad) in time;
10. Juveniles, Pregnant and Intoxicated are not allowed to ride e-bike;
11. Keep your e-bike away from damp, high temperature or corrosive environment;
12. Check screws, chains and other parts regularly.



# WARRANTY

Kind of Warranty	Parts	Terms
Frame type	Frame	2 Years
Average accessories	Front fork, wheel, shift knob, flywheel, gear drive, the crankshaft, the driving axle, rear hub, screws hockey, complex steering wheel, saddle pin, front brake calipers, rear brake calipers, brake handle, flipper, cup of front fork, carriage, complex magnetic clasp of wheel.	1 year
Smart parts	Display, motor, motor controller, lights, power adapter, sensor, battery, etc.	1 year
Consumables	Tires, inner camera, chain, brake pads, brake cable, cable for switching gears, reflector, headlight, taillight, pedal clip for wires and all additional components.	Only the first 14 days after you have received the product and with less than 20km on the display. Of course you can always contact us if you experience any problems and disagree with our policy. We're always open to figure out a solution together.

## Exemptions

1. A warranty period has expired;
2. Absence of sales receipt or its correction;
3. Damage arising under force circumstances;
4. Completion of maintenance, fall, neglect, abuse, water impact, accident, damaged label and marking device;
5. Device model specified in the warranty card does not match real goods;
6. Performing maintenance that does not meet guidelines specified in the instructions;
7. Emergence of unusual sound and vibration of pedals, rear bushings, steering systems, shock absorber, flywheel and other parts;
8. Deformation of wheels as a result of a heavy blow; damage to parts caused by external factors or drop the bike lowering the wheel as a result of a sharp object punctured, damage to individual components due to delayed replacement parts; damage or scratches on a saddle; frame damage as a result of installing a saddle above the specified limit height;
9. An emergence of flaking varnish, appearance of corrosion on a frame and other details of the bike due to moisture, shock, friction or other external factors; natural shedding varnish or fading of colors on metal, carbon and plastic parts after prolonged use of the bicycle;
10. Damage to the bicycle and its functions as a result of its use to perform tricks, lowering the stairs, jumps and other similar actions;
11. Fracture or deformation of a frame as a result of excessive and improper use of a bicycle;
12. Built-in sensors are not subjected to multiple charging. A warranty terms not apply to a dry battery, push-button type battery. When battery is spent, its replacement is performed by user and at one's costs.



## CONTACT US

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