UM-7H40A-002-00 User's manual

Battery Charger (EC-E8004)



User's manuals in other languages are available at : https://si.shimano.com

IMPORTANT NOTICE

- Contact the place of purchase or a bicycle dealer for information on installation and adjustment of the products which are not found in the user's manual. A dealer's manual for professional and experienced bicycle mechanics is available on our website (https://si.shimano.com).
- Do not disassemble or alter this product.
- For safety, be sure to read this user's manual thoroughly before use, and follow it for correct use.

IMPORTANT SAFETY MANUALS

SAVE THESE MANUALS - This manual contains important safety and operating instructions for SHIMANO STEPS

For replacement information, contact the place of purchase or a bicycle dealer

Be sure to observe the following instructions in order to avoid burns or other injury from fluid leakage, overheating, fire, or

⚠ DANGER

- Do not allow the battery charger to get wet. If it is wet or water is allowed inside, it could cause a fire, ignition, overheating, or
- Do not use it while it is wet, and do not touch or hold it with wet hands. An electric shock may occur.
- Do not cover the charger with cloths while it is in use. If this is not observed, heat may build up and the case may become deformed, or fire or overheating may occur.
- Do not disassemble or modify the charger. If this is not observed,
- electric shocks or injury may occur.
- Use the charger at the specified power supply voltage only. If a power supply voltage other than that specified is used, fire, explosions, smoke, overheating, electric shocks or burns may occur.
- ·Use the specified battery and charger combination for charging and observe the specified charging conditions. Not doing so may cause overheating, bursting, or ignition of the battery.

WARNING

- Be sure to hold the power cable by the power plug when connecting to and disconnecting from the electrical outlet. If you do not hold the power cable by the power plug, fire or electric shocks may occur. If the following occurs, stop using the device and contact a dealer. A fire or electric shock may be caused.
- * If heat or acrid-smelling smoke is coming out from the power plug.
- * If there is a bad connection inside the power plug.
- Do not touch metallic parts of the charger or the AC adapter if there is a lighting storm. If lightning strikes, electric shocks may
- Do not overload the electrical outlet with appliances beyond its rated capacity, and use only a 100 240 V AC electrical outlet. If the electrical outlet is overloaded by connecting too many appliances using adapters, overheating resulting in fire may occur. • Do not damage the power cord or power plug. (Do not damage, process, let near hot objects, bend, twist or pull them; do not place heavy objects on top or bundle them tightly.) If they are used while damaged, fire, electric shocks or short-circuits may
- Do not use the battery charger with commercially-available electrical transformers designed for overseas use (travel converters). They may damage the battery charger
- Always be sure to insert the power plug as far as it will go. If this is not observed, fire may occur.
- Do not insert or remove the plug while it is wet. If this is not observed, electric shocks may result. If there is water leaking out of the plug, dry it thoroughly before inserting it.
- Do not charge the battery in wet or very humid places. A fire, ignition, overheating, or electric shock may occur.
- · If the battery does not become fully charged even 2 hours after the designated charging time, immediately unplug the battery from the outlet and contact the place of purchase. Doing otherwise may cause it to overheat, burst, or ignite.
- When charging the battery while it is installed on the bicycle, do not move the bicycle. The charger's power plug may come loose and not be fully inserted into the electrical outlet, resulting in risk of fire.
- Please keep the User's Manual for future reference.

⚠ CAUTION

- When performing cleaning, disconnect the power plug from the electrical outlet and the charging plug from the battery. If this is not observed an electric shock may occur.
- During charging, do not let the battery charger touch your skin in one spot for an extended period. Failure to do so may result
- in a low-temperature burn as the temperature of the battery charger can rise to $40 70^{\circ}$ C during charging. ·Periodically check the battery charger and adapter, particularly the cord, plug, and case, for any damage. If the charger or adapter is broken, do not use it until it has been repaired by service agent.
- This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children should not play with the appliance. Cleaning and user maintenance should not be made by children without supervision.
- Before using battery charger, read all instructions and cautionary markings on battery charger, battery, and product using

Notice

Charge the battery in a location not exposed to rain or wind.

- The battery can be charged within a temperature range of 0 to 40°C. The charger does not work in temperatures outside this
- range and displays an error. (The LED lamp on the charger blinks.) • Do not use in environments with high humidity.
- Do not place the battery charger on the floor or other dusty places when using it.
- Place the battery charger on a stable surface such as a table when using it.
- Do not place any objects on top of the battery charger or its cable. Do not place a cover on it either.
- Do not bundle the cables. • Do not hold the battery charger by the cables when carrying it.
- Do not apply excessive tension to the cables and charging plugs.
- In order to prevent the cable from being damaged, avoid wrapping it around the main body during storage.
- Do not wash the battery charger or wipe it using detergents.
- Do not allow children to play near the product.
- When charging the battery while it is mounted on the bicycle, be careful not to trip over the charger cord. This may lead to
- injury or cause the bicycle to fall over, damaging the components. • When charging the battery while it is mounted on the bicycle, be careful of the following:
- Do not remove the battery from the battery mount while charging.
- Do not ride with the charger mounted.
- Make sure to close the charging port cap after charging. If foreign matter such as dirt or dust adheres to the charging port,
- there is a risk that the charging plug will not fit into the charging port. • Products are not guaranteed against natural wear and deterioration from normal use and aging.
- For maximum performance we highly recommend SHIMANO lubricants and maintenance products.

Charging can be carried out at any time, regardless of the remaining battery, but please fully charge the battery in the following

• The battery is not fully charged at the time of purchase. Before riding, be sure to fully charge the battery

If the battery has become completely empty, charge it as soon as possible. If the battery is left uncharged, it may cause the battery to deteriorate and become unusable

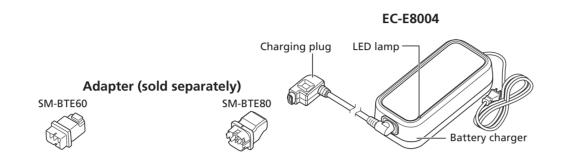
- If the bicycle will not be ridden for a long period of time, store it away with approximately 70% battery capacity remaining. In addition, take care not to let the battery become completely empty by charging it every 6 months.
- Avoid using the battery under conditions which are outside the normal operating temperature range, otherwise the battery
- may not operate or its performance may deteriorate.
- If the temperature of the battery is high, charging time will increase.
- Read this user's manual together with the user's manual for the SHIMANO STEPS.

Main specifications

Input	USA/CANADA	120 V AC, 1.6 A, 60 Hz
	Others	100 - 240 V AC, 1.9 - 0.9 A, 50 - 60 Hz
Output Compatible batteries (*)	USA/CANADA	42 V DC, 4 A
	Others	42 V DC, 4 - 4.6 A (INPUT: 100 - 240 V AC)
	Battery type	Lithium-ion
	Nominal capacity	SHIMANO BT-E6000 / BT-E6010 / BT-E8014: 11.6 Ah BT-E6001 / BT-E8010 / BT-E8020 / BT-E8035 / BT-E8035-L: 14 Ah BT-E8016 / BT-E8036: 17.5 Ah
	Nominal voltage	36 V

* Includes batteries that may not be available in your region

Names of parts

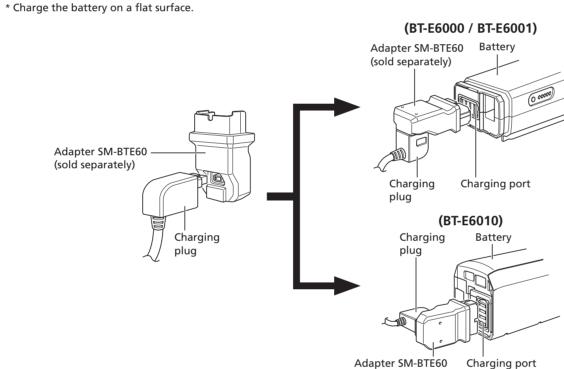


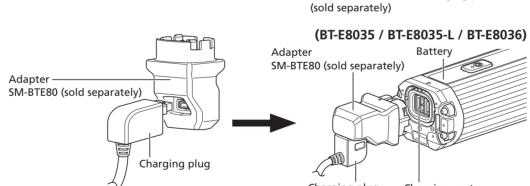
Charging method

- When charging the battery alone
- When charging the battery, position the battery and battery charger as shown in the illustration.
- * The orientation of the battery charging port differs according to the model.

(BT-E6000 / BT-E6001 / BT-E6010 / BT-E8035 / BT-E8035-L / BT-E8036)

- 1. Attach the adapter to the charging plug.
- 2. Connect the charger's power plug into the outlet. 3. Connect the adapter into the charging port.





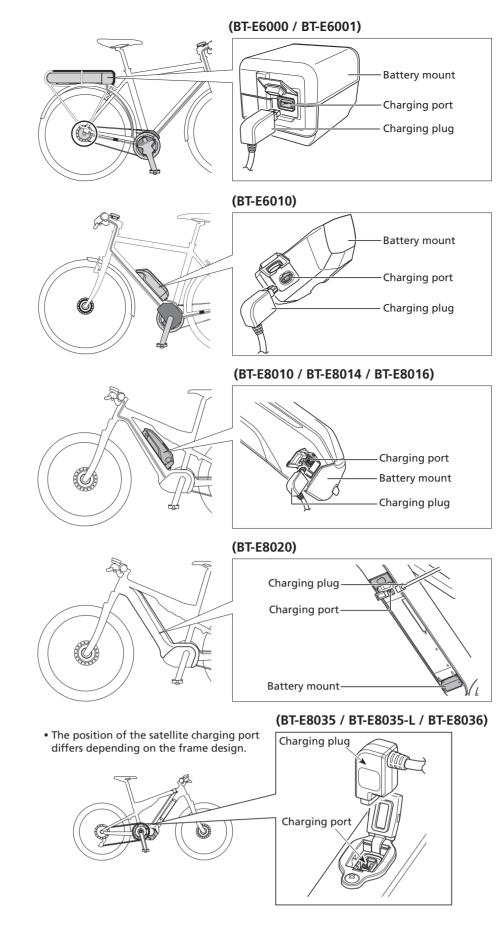
(BT-E8010 / BT-E8014 / BT-E8016 / BT-E8020)

- 1. Plug the charger's power plug into the outlet.
- 2. Plug the charging plug into the charging port.

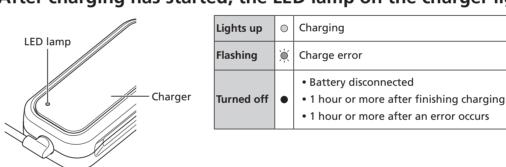
* Charge the battery on a flat surface. (BT-E8010 / BT-E8014 / BT-E8016) (BT-E8020)

When charging the battery while it is mounted on the bicycle

- 1. Connect the charger's power plug to the power source. 2. Insert the charging plug into the charging port.
- * Charge the battery on a flat surface.
- * Place the battery charger on a steady surface such as the floor before charging.
- * Stabilize the bicycle to ensure that it does not collapse during charging.



· After charging has started, the LED lamp on the charger lights up.



Charging times are as follows.

Designated charging time

Battery	Charging time from a battery level of 0%	
battery	100 - 127 V AC	220 - 240 V AC
BT-E6000, BT-E6010, BT-E8014	About 3 hours 30 minutes	About 3 hours
BT-E6001, BT-E8010, BT-E8020, BT-E8035, BT-E8035-L	About 4 hours 30 minutes	About 4 hours
BT-E8016, BT-E8036	About 5 hours 40 minutes	About 4 hours 48 minutes

Troubleshooting

Content	Cause/Possibility	Solution
	Is the power plug of the battery charger securely connected?	Remove and reconnect the power plug of the battery charger, and then charge again. If it still does not charge, contact the place of purchase.
	Is the charging plug of the battery charger securely inserted into the battery?	Remove and reconnect the charging plug of the battery charger, and then charge again. If it still does not charge, contact the place of purchase.
Cannot charge.	Are the charging adapter and charging plug or charging adapter and battery charging port securely connected?	Securely connect the charging adapter and charging plug or charging adapter and battery charging port, and charge again. If it still does not charge, contact the place of purchase.
	Are the connection terminals of the battery charger, charging adapter, or battery dirty?	Clean the connection terminals with a clean rag or cotton bud dampened with ethanol, etc. and then charge again. If it still does not charge, contact the place of purchase.
The battery does not charge even when the battery charger is connected.	The battery may have reached the end of its life.	Replace the battery with a new one.
The battery and battery charger become hot.	The temperature of the battery and battery charger may exceed the operating temperature.	Stop charging, and wait a while before starting to charge again. The surface temperature may exceed 60°C due to the surrounding environment, depending on the model. There is a problem if the battery deforms or the battery and battery charger remain hot for a while after charging. Contact the place of purchase.
The battery charger is hot.	The battery charger may become hot when charging multiple batteries in succession.	Wait a while between charges.

Check whether any foreign material is s the charging plug of the battery attached to the connection area, and remove and reconnect the charging charger securely inserted into the plug. If the problem is not resolved, contact the place of purchase. The battery charger LED does not light The LED turns off when the battery is fully charged, but this is normal. Remove and reconnect the power plug of the Is the battery fully charged? battery charger, and then charge again. If the LED still does not light up, contact the place of purchase. The battery cannot be removed. Contact the place of purchase. The battery cannot be inserted. Contact the place of purchase. Stop use immediately and contact the Liquid is leaking from the battery place of purchase. Stop use immediately and contact the An abnormal smell is emitted. place of purchase. Stop use immediately and contact the Smoke is emitted. place of purchase. When charging with the battery installed to a bicycle, you cannot turn the cycle computer ON. Stop charging. The cycle computer does not start. Is the battery charging? The power automatically turns OFF if charging is started while the cycle computer is running.

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SHIMANO INC.

SHIMANO NORTH AMERICA BICYCLE, INC. One Holland, Irvine, California 92618, U.S.A. Phone: +1-949-951-500

SHIMANO EUROPE B.V. High Tech Campus 92, 5656 AG Eindhoven, The Netherlands Phone: +31-402-612222

3-77 Oimatsu-cho, Sakai-ku, Sakai City, Osaka 590-8577, Japan Please note: specifications are subject to change for improvement without notice. (English)