User's manual

Battery Charger/PC Linkage Device (SM-BCR2)

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 them for correct use.

Important Safety Information

Guidelines that require replacement, contact the place of purchase or a bicycle dealer.

Be sure to observe the following in order to avoid burns or other injury from fluid leakages, overheating, fire or explosions.

**DANGER**

- Do not get the charger wet or use it while it is wet, and do not touch it or handle it with wet hands. If this is not observed, problems with operation or electric shocks may occur.
- Do not store the charger with a cloth or similar 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 an AC adapter with a USB port with a voltage of 5.0 Vdc and with a current equal to or higher than 1.0 A. If the one with a current lower than 1.0 A is used, the AC adapter may heat up, potentially causing a fire, smoke, overheating, destruction, electric shock, or burns.

**WARNING**

- Do not use any USB cable other than the USB cable which is supplied with the PC linkage device. This may cause a charge error, fire, or failure of the connected device due to overheating.
- When connecting or disconnecting the USB cable or the charging cable, be sure to hold the plug of the cable. Failure to do so may cause a fire or electric shock. If the following symptoms are observed, stop using the device and contact a dealer. A fire or electric shock may occur.
  - If heat or acrid-smelling smoke is coming out from the power plug.
  - *If there may be a bad connection inside the power plug.*
- If there is thunder while charging with an AC adapter with a USB port, do not touch the device, bicycle, or the AC adapter. When lightning strikes, an electric shock may be caused.
- Use an AC adapter with a USB port with a voltage of 5.0 Vdc and with a current equal to or higher than 1.0 A. If the one with a current lower than 1.0 A is used, a charge error may occur or the AC adapter may heat up, leading to a fire.
- Do not use a USB hub when connecting the cable to a PC USB port. This may cause a charge error or fire due to overheating.
- Be careful not to damage the charging cable. (Do not damage, process, forcibly bend, twist or pull them, bring them near hot objects, place heavy objects on them or bundle them tightly together.) If they are used while damaged, fire, electric shocks or short-circuits may occur.
- After reading the user's manual carefully, keep it in a safe place for later reference.

**CAUTION**

- Disconnect the USB cable or the charging cable when performing maintenance.

**Note:**

- Do not use outdoors or in environments with high humidity.
- Do not place the PC linkage device on dusty floors when using it.
- Place the PC linkage device on a stable surface such as a table when using it.
- Do not place any objects on top of the PC linkage device or its cables.
- Do not wrap the cables into bundles.
- Do not connect the charger to PC when it is on standby. This may cause a failure of PC depending on its specifications.
- Do not hold the PC linkage device by the cables when carrying it.
- Do not apply excessive tension to the cables.
- Connect the PC linkage device directly to a computer, without using an intermediate device such as a USB hub.
- Do not ride the bicycle while the PC linkage device and cable are still connected to it.
- Do not connect two or more of the same units to the same connection point. If this is not done, the units may not operate correctly.
- Do not connect or disconnect units again while unit recognition is in progress or after recognition is complete. If this is not done, the units may not operate correctly.
- Check the procedures which are given in the user's manual for the E-tube Project when connecting and disconnecting units.
- Do not wash the PC linkage device or wipe it using detergents.
- Do not connect two or more PC linkage device units at the same time. If two or more PC linkage device units are connected, they will not operate correctly. In addition, operating error may occur at the PC and it may require the PC to be restarted.
- Do not allow children to play near this instrument.
- Charge the battery in indoor places to avoid exposure to rain or wind.
- Products are not guaranteed against natural wear and deterioration from normal use and aging.
- For maximum performance we highly recommend Shimano lubriants and maintenance products.
- This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
  - Reorient or relocate the receiving antenna.
  - Increase the separation between the equipment and receiver.
  - Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
  - Consult the dealer or an experienced radio/TV technician for help.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:
  1. (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

**Features**

- The PC linkage device can be used to connect a PC to the bicycle system or unit, and an “E-tube Project” can be used to carry out tasks such as updating “Firmware” of single units and system, and customizing.

  1. * PC Linkage Device: SM-PCE/SM-BCR2
  2. E-Tube Project: the application
  3. Firmware: the software inside each unit

**Notes**

- Contact the place of purchase or a bicycle dealer for advice on disposing of used batteries.
- For advice on disposing of used batteries, contact the place of purchase or your nearest Shimano agent.

This symbol is only valid within the European Union.

**Names of parts**

**USB cable**

- Connect to the battery charger

**Battery charger**

- Plug for product connection (Connect to the junction (A) or the charging connector of the information display.)
  - If water infiltrates into the connector of the product side, wipe the water and then connect the plug to the connector.

**Special battery**

- This charger is a special charger for use in charging Shimano lithium ion batteries (SM-BCR2). For other batteries, refer to their manual.
- Never connect any incompatible batteries. A burst or fire may be caused.

**Full understanding and follow the precautions for use.**

**Charging method**

- You can charge the battery by using the AC adapter with a USB port or connecting the battery charger to a PC USB port.

  1. Connect the battery to the junction (A) or information display.
  2. Connect the charging cable of the charger to the junction (A) or the charge port of the information display.
  3. The charging time of an AC adapter with a USB port is about 1.5 hours, and that of PC USB port type about 3 hours. (Note that the actual time will vary depending on the amount of charge remaining in the battery.) Depending on the specifications of the AC adapter, the AC adapter brings about three hours (about 3 hours) as charging via PC.

**Troubleshooting for charging error**

- If the CHARGE indicator or CHARGE blinkers, refer to “Troubleshooting for charging error”.
- 4. Disconnect the charging cable or USB cable, and keep it at the location specified in the precautions.

**Downloading application**

To update the firmware or perform customization using devices connected to PC, you need to install an E-tube Project on your PC.

Download an E-tube Project from the support website (https://e-tubeproject.shimano.com). For information on how to install an E-tube Project, check the support website. For information on how to operate the PC, refer to the help manual on the E-tube Project.

**Example of connection for charging**

- Connect to an AC adapter with a USB port or PC.

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