

Thank you for purchasing the BX-213MH. Misoperation of this equipment during rapid charging can be dangerous. For safety sake, read this manual thoroughly and store it with the charger for future reference.

1. Notes on Usage

The nature of radio controlled equipment can be dangerous if you operate incorrectly. For safe usage please note in this section described.

Danger

Failure to observe the matter discussed in such an item poses a serious threat of death or severe injury.

*If the charging current for this charger is set incorrectly, the batteries may be damaged or may leak. Always set the charging current in accordance with the instruction manual provided with the battery. *When using a car battery as the power supply, place the charger at a distance from the car. If the charger is placed in the engine compartment or in the car itself, a short circuit could be dangerous. *When cleaning this charger, use a non-flammable cleaning solution. *Sparking may occur when connecting or disconnecting the power supply or a battery. Remove any flammable or ignitable material from the charger before connecting or disconnecting the power supply or a battery. *Do not charge damaged batteries. *This charger is designed for use with Nicad or NiMh battery for radio controlled models. Do not use for other purposes. *Do not connect to AC mains. *Make sure the polarities are correct before connecting the charger to the power supply or battery.

Failure to observe the matter discussed in such an item poses a possibility of death or severe injury, and a large likelihood of damage to the equipment or property.

Warning

*Do not disassemble this unit. *Be sure to use with correct supply voltage. *Do not get this unit wet. *Do not use this unit in a high humidity area. *Do not put your face near a battery that is being charged. *Be sure to set the correct charge current. *Do not cover the cooling fan. *Do not drop the objects into cooling fan. It may result in malfunctioning of the unit. *Be sure to disconnect the unit when not in use. *Do not use this unit when the unit has overheated or malfunctioned.

Caution

Failure to observe the matter discussed in such an item poses a possibility of injury or damage to the equipment or property.

*Do not apply large force to the unit. *Only connect one battery at a time. *If this unit is sitting on a plastic sheet while charging, the heat from the unit may melt the plastic. Place this unit on a non-flammable material during use. Be sure to connect the power supply before the battery. *Be sure to prepare in case of the unit malfunctioning. *Be sure to connect only genuine KO Propo products to ext. terminal. *An adult should observe for safety when this unit is used by children. Be sure that an adult understands fully of this manual for usage. *Keep the charger out of direct sunlight and at a temperature of 0~40(C while charging. *Be sure to use the correct fuse with this unit.

2. Warranty Limitations

*No warranty is made regarding the capacity or service life of batteries charged by this charger, or regarding the operation or operation time of equipment powered by a battery charged by this charger.

*The display on this unit is not intended for use as measuring tool. The accuracy of the values displayed is not guaranteed.

*The circuit in this charger may generate electromagnetic waves. As a result, this unit may interfere with the operation of radios, cordless telephones, etc.

*This charger was designed for the batteries manufactured by Sanyo and Panasonic Ncad and Ni-Mh.

*KO Propo can bear no responsibility for any consequences that arise if this charger is used to charge a battery that does not satisfy the necessary requirements, or if the instruction and warning described in this manual are not heeded.

3. Specifications

We have a right to change specifications without notice.

Type: DC/DC Converter, Step UP Down rapid battery charger.

Constant current method: High-frequency FET control and linear pulse method.

Cut off method: Microprocessor controlled intelligent fuzzy delta peak cut off.

LCD Display: 8 characters x2 lines dot matrix.

Suitable batteries: Nicad and Ni-Mh batteries. 100-5000mAh, 1-10 cells (1.2-12V packs)

Charging current: 0.2-8.0A

Input power supply: 12-16V (DC), 15A or greater stabilized power supply, or 45Ah or higher battery.

Dimensions/Weight: 149x82x35mm (excluding projections) 495g

4. Other items to prepare

Power supply. 12 to 16V (DC), 15A or greater stabilizing power supply, or 45Ah or higher battery.

Caution

*Be sure to use the power supply designed for usage of radio controlled models. *This unit cannot be used as power supply. *Do not connect to cigar socket of a car. *Be sure to use optional extension charge cord and keep distance from a car

Battery connector. Prepare suitable connector for battery to use.

Caution

*The lead wire connected to the output terminals must be solder-plated. If they are not soldered, poor contact may result.

5. About Charging Current

The charging current of the BX-213MH can be set between 0.2~8.0A. Set up the value according to the battery.

Determining Charging Current (example only)

For Nicad, Capacity x3 = charging current. For example 1000mAh Nicad battery's charging current is 1000m x3 = 3000mA. Therefore charging current should be 3A.

For Ni-Mh, Capacity x1 = charging current. For example 700mAh Ni-Mh battery's charging current is 700m x1 = 700mA. Therefore charging current should be 0.7A.

Danger

*If the charging current is set incorrectly, the batteries may be damaged or may leak. Always set the charging current in accordance with the instruction manual provided with the battery.

Actual Charging Current

The correct charging current may vary depending on manufacturer or type of battery, be sure to set the charging current in accordance with the instruction manual provided with the battery.

Charging current for transmitter, receiver battery.

Do not charge transmitter or receiver batteries at more than 1.5A even large capacity batteries.

Danger

*Excess charging current to thinner lead wire may result in melting or fire.