

CAUTION

- Do not have new and old batteries installed together.
- When replacing batteries, replace all batteries by new batteries.

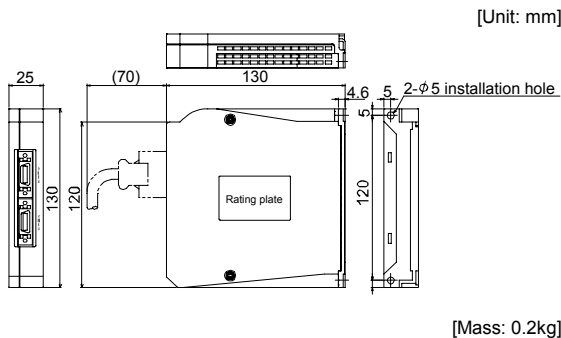
MR-BTCASE is a case that holds eight MR-BAT batteries and connect them to the connector. Obtain MR-BATs separately.

1. Specification after assembled

Item	Description
Battery case model	MR-BTCASE
Battery	Lithium battery (primary battery, nominal +3.6V) × 8 Type: MR-BAT (Note 4)
Maximum revolution range (Note 1) Maximum speed at power failure	Home position ± 32767 rev. 3000r/min
(Note 2) Battery backup time	Approx. 10,000 hours (battery life with power off)
(Note 3) Battery life	5 years from date of manufacture

- Note 1. Maximum speed available when the shaft is rotated by external force at the time of power failure or the like.
2. Time to hold data by a battery with power off. Replace battery within three years since the operation start whether power is kept on/off. If the battery is used out of specification, the absolute position lost (25) may occur.
3. Quality of battery degrades by the storage condition. It is recommended to connect and use battery in the servo amplifier within two years from the production date. The life of battery is five years from the production date regardless of the connection.
4. MR-BTCASE containing MR-BATs is subject to the UN Recommendations.

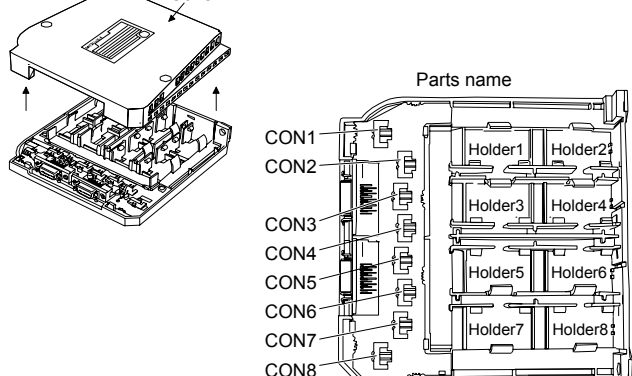
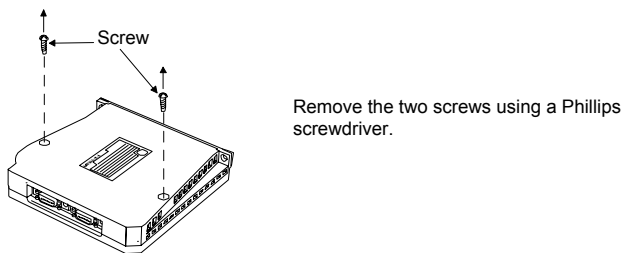
2. Outline dimension drawing (after assembled)



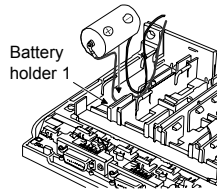
3. Disassembly and assembly of the battery case MR-BTCASE

(1) Disassembly of the case

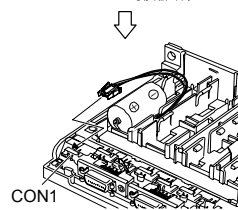
MR-BTCASE is shipped assembled. To install MR-BATs, the case needs to be disassembled.



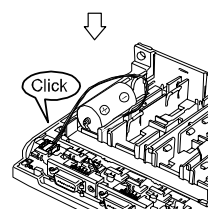
(2) Installation of MR-BAT



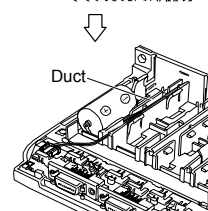
Securely insert MR-BAT to the battery holder.



Push the MR-BAT connector into CON1.

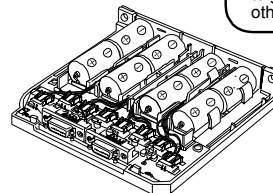
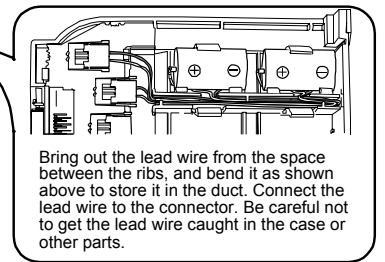


Confirm the click sound at this point. The connector has to be connected in the right direction. If the connector is pushed forcefully in the wrong direction, the connector will break.



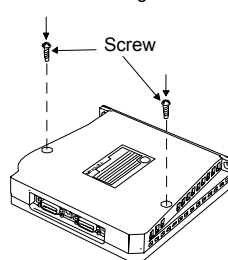
Place the MR-BAT lead wire to the duct designed to store lead wires.

Install other seven MR-BATs in the same manner.



(3) Assembly of the case

After all MR-BATs are installed, fit the cover and insert screws into the two holes and tighten them.



POINT

- When assembling the case, be careful not to get the lead wires caught in the fitting parts or the screwing parts.

4. Battery transportation

The MR-BAT is a lithium metal battery. In the UN Recommendations, lithium batteries are classified into non-dangerous goods (non-Class 9). To transport lithium metal batteries and lithium metal batteries contained in equipment by means of transport subject to the UN Recommendations, take actions to comply with the following regulations: the United Nations Recommendations on the Transport of Dangerous Goods, the Technical Instruction (ICAO-TI) by the International Civil Aviation Organization (ICAO), and the International Maritime Dangerous Goods Code (IMDG Code) by the International Maritime Organization (IMO). To transport the batteries, check the latest standards or the laws of the destination country and take actions. For more information, consult our branch or representative. (As of Jul., 2009)