1. INTRODUCTION

This product is only for MR J4 servo amplifiers. This is not available with other servo amplifiers.

Using MR-BAT6V1BJ battery for junction battery cable enables you to keep the absolute position data recorded in the encoder even if the servo amplifier is removed from machine.

2. SPECIFICATIONS

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model</td>
<td>MR-BAT6V1BJ</td>
</tr>
<tr>
<td>Nominal voltage</td>
<td>6 V</td>
</tr>
<tr>
<td>Nominal capacity</td>
<td>1650 mAh</td>
</tr>
<tr>
<td>Maximum number of connectable axes</td>
<td>1</td>
</tr>
<tr>
<td>Weight</td>
<td>66 g</td>
</tr>
<tr>
<td>Size</td>
<td>34.8 x 69.3 x 121 mm</td>
</tr>
</tbody>
</table>

3. Parts identification

- **Orange**: Connector for servo amplifier
- **Black**: Connector for branch cable

4. Configuration

4.1 Mounting

(1) Wire the product using the MR-BT6VCBL03M junction battery cable as follows.

(2) After wiring, startup the absolute position detection system. Even if the connector for branch cable connection (black) is not connected to the MR-BT6VCBL03M junction battery cable, an alarm will not occur. Check that they are connected securely.

(3) When you transport a servo amplifier and machine apart, disconnect only CN2 and CN4 of the servo amplifier. When other connectors or cables are disconnected, the absolute position data will be deleted.

4.2 How to replace MR-BAT6V1BJ

4.2.1 Preparation

Prepare a new MR-BAT6V1BJ as follows.

Replace the product as follows regardless of on/off of the control circuit power supply. When it is replaced with other products, the absolute position data will be erased.

(1) Remove the connector for branch cable connection (black) of the old MR-BAT6V1BJ.

(2) Connect the connector for branch cable connection (black) of the new MR-BAT6V1BJ.

5. DIMENSIONS

[Unit: mm]

6. Battery transportation

When only lithium metal batteries are transported, attachment of a handling label to each package, submission of the Shipper's Declaration for Dangerous Goods, and a 1.2 m drop test will be required. When the batteries are transported with mounted on products, the regulations about package, etc., will not be required.

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**Warning**

- Do not disassemble the MR-BAT6V1BJ to prevent getting burnt.
- Do not short-circuit the battery.
- Do not expose the battery to water or fire.

**Precautions for using**

1. The connector for servo amplifier connection (orange) has a lock release lever. When removing the connector, pull out the connector while pressing the lock release lever.

2. The connector servo amplifier connection (orange) and the connector for branch cable connection (black) are different in color and shape due to different output voltage. Incorrect connection can cause the machine to be damaged.

3. When a cable is cut or shorted due to load or being caught, the built-in battery will have high temperature.

**Troubleshooting**

The following shows warnings and alarms which are triggered with power on of the servo amplifier when the wiring for the junction battery cable is incorrect. When you do not solve a problem even after doing the following actions, refer to troubleshooting of each servo amplifier instruction manual.

<table>
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<tr>
<th>Code</th>
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<tr>
<td>AL. 9F.1</td>
<td>Battery voltage dropped. Replace MR-BAT6V1BJ.</td>
</tr>
<tr>
<td>AL. 9F.2</td>
<td>MR-BAT6V1BJ is not connected to CN4. Connect MR-BAT6V1BJ to CN4.</td>
</tr>
<tr>
<td>AL. 9G.1</td>
<td>Absolute position warning.</td>
</tr>
<tr>
<td>AL. 9G.2</td>
<td>MR-BAT6V1BJ is not connected to CN4 or MR-BT6VCBL03M. Connect MR-BAT6V1BJ to CN4 or MR-BT6VCBL03M.</td>
</tr>
<tr>
<td>AL. 24</td>
<td>Encoder cable</td>
</tr>
<tr>
<td>AL. 25</td>
<td>Absolute position warning.</td>
</tr>
<tr>
<td>AL. 26</td>
<td>MR-BAT6V1BJ was not connected to CN4 or MR-BT6VCBL03M. Connect MR-BAT6V1BJ to CN4 or MR-BT6VCBL03M.</td>
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**Installation Guide**

This guide uses recycled paper.

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**Battery for Junction Battery Cable**

**Model**

MR-BAT6V1BJ

**Installation Guide**

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**General-Purpose AC Servo Motor**

**Model**

HG series servo motors

**MR-J4-A(-RJ) MR-J4-B(-RJ)**

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**Note.**

- Quality of the batteries degrades by the storage condition. The battery life is 5 years from the production date regardless of the storage condition. This product is only for MR J4 servo amplifiers. This is not available with other servo amplifiers.
- The batteries for junction battery cable are enabled to keep the absolute position data recorded in the encoder even if the servo amplifier is removed from machine.

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**Battery transportation**

When only lithium metal batteries are transported, attachment of a handling label to each package, submission of the Shipper's Declaration for Dangerous Goods, and a 1.2 m drop test will be required. When the batteries are transported with mounted on products, the regulations about package, etc., will not be required.

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**Specifications**

- **Model**: MR-BAT6V1BJ
- **Nominal voltage**: 6 V
- **Nominal capacity**: 1650 mAh
- **Maximum number of connectable axes**: 1

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**Precautions for using**

- Do not disassemble the MR-BAT6V1BJ to prevent getting burnt.
- Do not short-circuit the battery.
- Do not expose the battery to water or fire.

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**Troubleshooting**

The following shows warnings and alarms which are triggered with power on of the servo amplifier when the wiring for the junction battery cable is incorrect. When you do not solve a problem even after doing the following actions, refer to troubleshooting of each servo amplifier instruction manual.

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