

## TECHNICAL BULLETIN

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[Title] External appearance change and precautions regarding battery alarm detection of the MELSEC-Q series memory card

[Date of Issue] October 2012

[Relevant Models] Q2MEM-1MBS, Q2MEM-2MBS

Thank you for your continued support of Mitsubishi programmable controllers, MELSEC-Q series.

This bulletin provides the external appearance change of the MELSEC-Q series memory card and precautions regarding battery error detection occurred when an SRAM card with an old product number is used.

### 1. External appearance change

The write protect switch color of an SRAM card will be changed from black to white after the following production time (manufacturer control number: "K" or later).

There is no change in specifications due to this change.

- Q2MEM-1MBS: Manufactured in November, 2012 or later<sup>\*1</sup>
- Q2MEM-2MBS: Manufactured in December, 2012 or later<sup>\*1</sup>

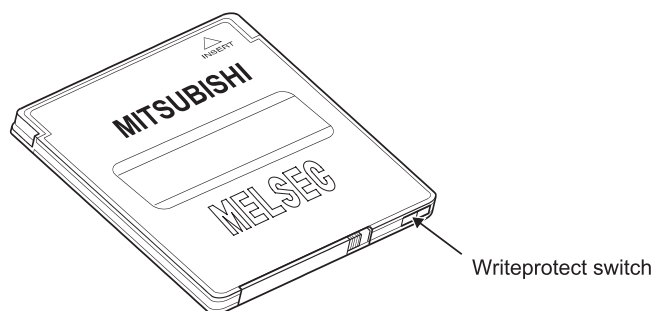


Figure 1 SRAM card

\*1: Note that the production period may be rescheduled due to the order situation.

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## 2. Precautions for battery error detection

The internal circuit was changed partially to stabilize the battery voltage in an SRAM card. For some SRAM cards, if they are used without a battery, the following events may occur.

- A battery error is not detected.
- When the BAT. LED is on, the special relay SM52 changes from on to off.
- When the BAT. LED is on, the bits, b1 and b2, of the special register SD52 change from on to off.

When the cards are used with a battery, those events do not occur and the cards operate properly.

### (1) Relevant models

The above precautions apply to the SRAM cards manufactured during the following period.

- Q2MEM-1MBS with a manufacturer control number "D" to "J"
- Q2MEM-2MBS with a manufacturer control number "C" to "J"

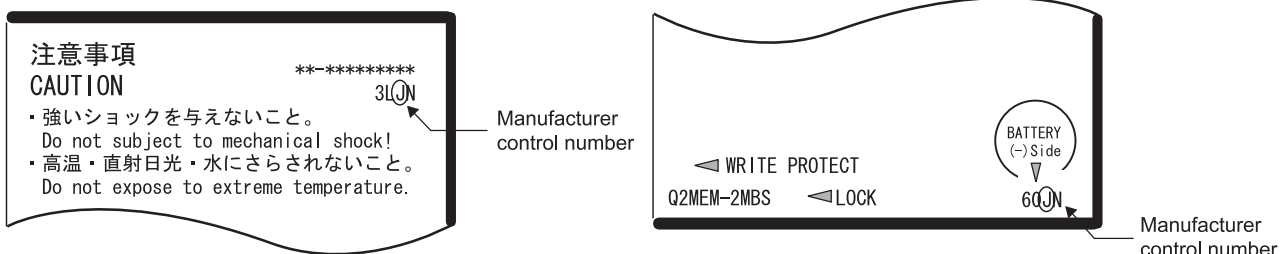
(The precautions do not apply to the Q2MEM-1MBS and Q2MEM-2MBS with a manufacturer control number "K" or later.)

**Table 1 List of relevant models**

Model	Production period <sup>*1</sup>	Manufacturer control number <sup>*2</sup>
Q2MEM-1MBS	Manufactured from December, 2005 to October, 2012	"□□D□" ↑ D to J
Q2MEM-2MBS	Manufactured from December, 2005 to November, 2012	"□□C□" ↑ C to J

\*1: Note that the production period may be rescheduled due to the order situation.

\*2: The manufacturer control number (the third digit from the left) can be checked on the top right or bottom right of the SRAM card back label.



**Figure 2 SRAM card back label**

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### (2) Precautions

Please pay attention to the following when using a relevant model.

(a) A battery error may not be detected even when a battery is removed from an SRAM card. If a programmable controller is powered off, data in the SRAM card are deleted.

(b) Execute any of the following at debugging to test a system by forcibly generating a battery error.

- Reset the CPU module after a battery is removed from the SRAM card.
- Install a spent battery (2.5V or lower) after a battery is removed from the SRAM card.
- Remove the battery (Q6BAT) of the CPU module.

Note that an error code and bit positions in SD51 and SD52 of when a battery of the SRAM card is removed is different from those of when the battery of the CPU module is removed.

(c) If a battery is not installed in the SRAM card, the special relay SM52 and the bits, b1 and b2, of the special register SD52 change from on to off when the BAT. LED is on. If a programmable controller is powered off, data in the SRAM card are deleted.

(d) To check the battery error status, refer to the following special relay and special register.

- Refer to the special relay SM52 and special register SD52 with the SRAM card installed a battery.
- Refer to the special relay SM51 and special register SD51.