

Firmware Upgrade for the FR-A800, FR-A800 Plus, and FR-F800 Series Inverters

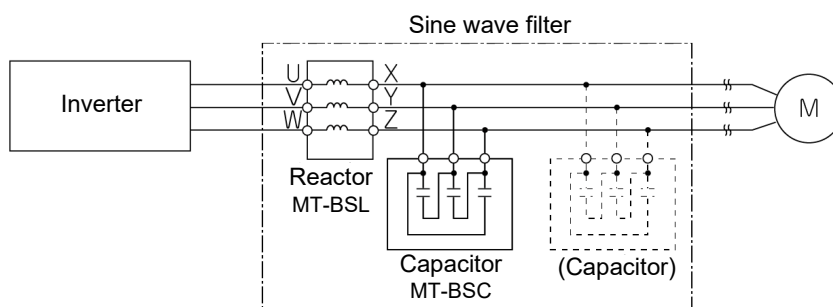
Thank you for your continued patronage of Mitsubishi Electric drive control products. The firmware of the FR-A800, FR-A800 Plus, and FR-F800 series inverters will be upgraded to improve the functionality.

1. Products Affected

- FR-A800 series
- FR-A800 Plus series (FR-A800-CRN/LC)
- FR-F800 series

2. Details of Change

- (1) Magnetic saturation tuning (for FR-A800 series only)
 - The inductance for the excitation current of the induction motor is automatically measured by tuning.
- (2) Online inductance compensation
 - Degradation in control performance when magnetic saturation occurs can be prevented by creating the inductance in consideration of the magnetic saturation characteristics of the motor according to the excitation current command during operation, and reflecting the compensated inductance to each control constant.
 - This function is enabled when the first motor is selected in normal-response operation under Real sensorless vector control.
- (3) Improvement of the current monitor accuracy when a sine wave filter is used
 - The current monitor accuracy when a sine wave filter is used will be improved.



- (4) Emergency drive function
 - The emergency drive function will be available for the separated converter type (FR-A802 series).

Date of issue	April 2024	Title	Firmware Upgrade for the FR-A800, FR-A800 Plus, and FR-F800 Series Inverters	Mitsubishi Electric Corp., Nagoya Works 5-1-14 Yada-minami, Higashi-ku, Nagoya 461-8670 Tel.: +81 (52) 721-2111 Main line
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3. Date of Change

Country of origin	Date of change
MADE IN JAPAN	The change will be sequentially applied to the May 2024 production or later.
MADE IN CHINA	The change will be sequentially applied to the June 2024 production or later.

4. Product Identification

The SERIAL (determined by date of production) can be checked on the rating plate or packaging plate.

SERIAL example on rating plate	SERIAL example on packaging plate
□ 4 5 ○○○○○○	□ 4 5 ○○○
Symbol Year Month Control number	Symbol Year Month Control number
SERIAL	SERIAL

The SERIAL consists of one symbol, two characters indicating the production year and month, and the control number (six characters for the rating plate, three characters for the packaging plate).

The last digit of the production year is indicated as the Year, and the Month is indicated by 1 to 9, X (October), Y (November), or Z (December).

5. Firmware Version

The inverter firmware version to which the change described will be applied is as follows:

Series	Firmware version
FR-A800 FR-A800 Plus	40 or later
FR-F800	340 or later

For how to install the downloaded firmware, refer to the FR Configurator2 (SW1DND-FRC2-E) Instruction Manual (IB-0600516ENG).