

MITSUBISHI ELECTRIC Inverter

Sales and Service

No. 860E

Firmware Update 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 updated to improve functionality.

1. Products Affected

FR-A800(-E/-GF/-GN)
FR-A802(-E/-GF/-GN)
FR-A806(-E)
FR-A800(-E)-CRN
FR-A802(-E)-CRN
FR-A800(-E)-LC
FR-A840M(-E)
FR-A842M(-E)

FR-F800(-E)
FR-F802(-E)
FR-F806(-E)

2. Details of Change

- (1) Torque bias command via PROFIBUS-DP communication (Pr.840 (Torque bias selection) = "24 or 25") will be available under PM motor control. Applicable to the FR-A800 series only

	Before firmware update	After firmware update
Torque bias command via PROFIBUS communication (Pr.840 = "24 or 25")	Available under Real sensorless vector control (IM) or Vector control (IM)	Available under Real sensorless vector control (IM) or Vector control (IM and PM)

Pr. (Pr. group)	Name	Setting value	Description
840 (G230)	Torque bias selection	24	Torque bias command via PROFIBUS-DP communication (FR-A8NP) (-400% to 400%)
		25	Torque bias command via PROFIBUS-DP communication (FR-A8NP) (-327.68% to 327.67%)

- (2) When Pr.810 (Torque limit input method selection) = "2", torque limit input will be available under PM sensorless vector control and Vector control (PM). Applicable to the FR-A800 series only

Pr. (Pr. group)	Name	Setting value	Description
810 (H700)	Torque limit input method selection	2	Under PM sensorless vector control or Vector control (PM), the torque limit through communication is valid when the CC-Link, CC-Link IE Field Network, CC-Link IE TSN, CC-Link IE Field Basic, or HMS network option (A8NE[] or A8NDPV1) is used.

Date of issue	August 2026	Title	Firmware Update 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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To input the torque limit via PROFIBUS-DP communication, set Pr.804 (Torque command source selection) = "3 or 5".

Pr. (Pr. group)	Name	Setting value	Description
804 (H700)	Torque command source selection	3, 5	The torque limit level can be input via PROFIBUS-DP communication.

- (3) For the CC-Link IE Field Network and CC-Link IE TSN, the torque limit is available for the following devices under PM sensorless vector control and Vector control (PM).

Applicable to the FR-A800 series only

(Note) The torque command is not available under PM sensorless vector control or Vector control (PM).

Device No.	Signal
RY(n+2)3	Torque command / torque limit (RAM)
RY(n+2)4	Torque command / torque limit (RAM, EEPROM)

- (4) The JOG2 signal (setting value "30") will be added for Pr.178 to Pr.189 (Input terminal function selection).

Function	Signal name	Setting value
Jog operation selection 2	JOG2	30

- (5) The JOG2, LSP, and LSN signals can be controlled in NET operation mode.

The control source of the LSP and LSN signals depends on the Pr.1292 setting regardless of the settings of the operation command source and speed command source (Pr.338 and Pr.339).

LSP and LSN signals: Applicable to the FR-A800 series only

<Control source in NET operation mode>

Pr.338 Communication operation command source		0: NET			1: EXT		
Pr.339 Communication speed command source		0: NET	1: EXT	2: EXT	0: NET	1: EXT	2: EXT
JOG	Jog operation selection	-			EXT		
JOG2	Jog operation selection 2	NET			EXT		
LSP	Forward stroke end	EXT or NET			EXT or NET		
LSN	Reverse stroke end	EXT or NET			EXT or NET		

- (6) The setting values "10 and 11" will be added for Pr.1292 (Position control terminal input selection). Setting either of these values enables the LSP and LSN signals to be controlled through communication in NET operation mode.

When "0 or 1" is set, the signals are controlled via external terminals as before.

Pr.1292 can be used to select the input logic of the X87 signal as before. For the input logic for the setting values "10 and 11", refer to the following table.

Applicable to the FR-A800 series only

Pr. (Pr. group)	Name	Initial value	Setting value	Input logic (X87)	Control source	
					LSP	LSN
1292 (B190)	Position control terminal input selection	0	0	NO contact	EXT	EXT
			1	NC contact	EXT	EXT
			10	NO contact	NET	NET
			11	NC contact	NET	NET

3. Date of Change

Country of origin	Date of change
MADE IN JAPAN	The change will be sequentially applied to the September 2026 production or later.
MADE IN CHINA	The change will be sequentially applied to the October 2026 production or later.

4. Product Identification

This change applies to the products having the following SERIAL or later on the rating plate or packaging plate.

SERIAL example on rating plate	SERIAL example on packaging plate
□ 6 9 ○○○○○○	□ 6 9 ○○○
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	48 or later
FR-A800 Plus	
FR-F800	348 or later

Firmware can be downloaded from the following website.

[Search for Software for Drive Products Inverters - Firmware - INVERTER - FR-A800 Series](#)

[Search for Software for Drive Products Inverters - Firmware - INVERTER - FR-A800 Plus Series](#)

[Search for Software for Drive Products Inverters - Firmware - INVERTER - FR-F800 Series](#)

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

* For the FR-A840M(-E) and FR-A842M(-E), provision of the firmware alone is not available.