

Firmware Update for the FR-D800 Series General-Purpose Inverters

Thank you for your continued patronage of Mitsubishi Electric drive control products.
 The firmware of the FR-D800 series general-purpose inverters will be updated to improve functionality.

1. Products Affected

FR-D800 series

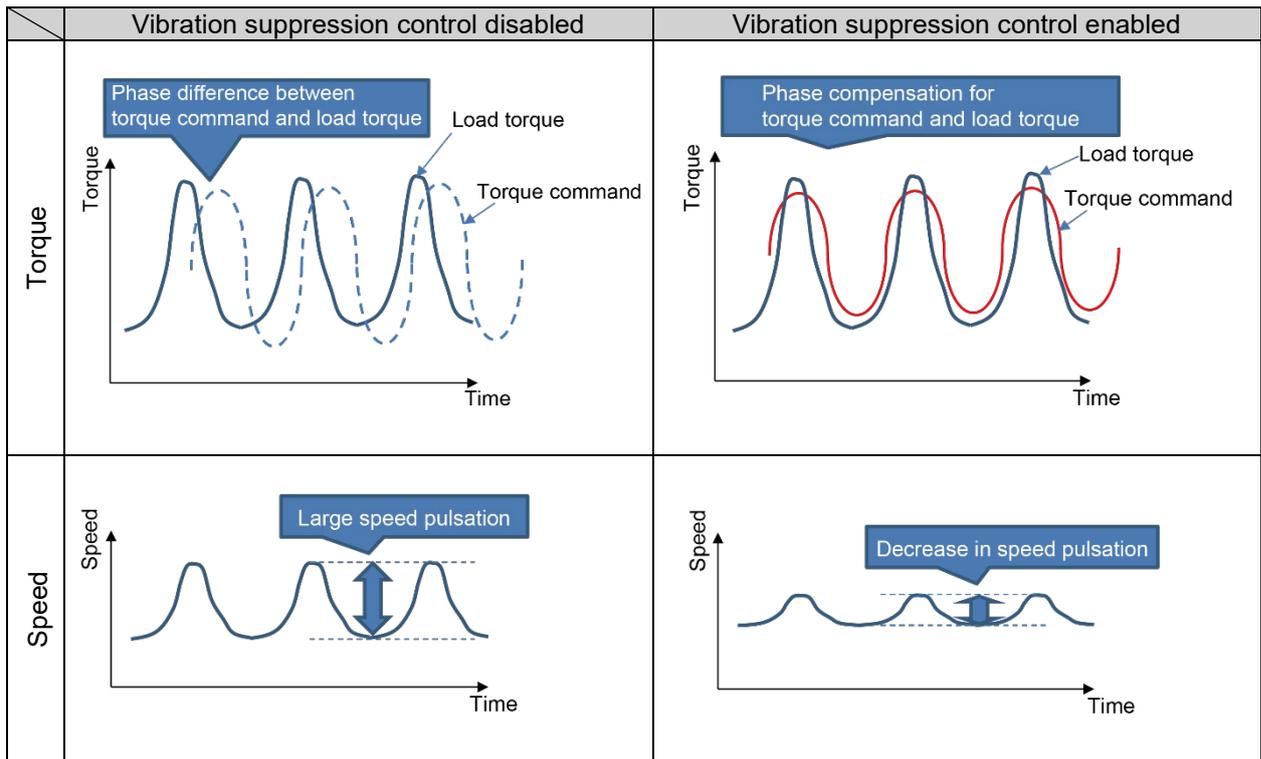
2. Details of Change

(1) Addition of vibration suppression control

In equipment (such as compressors or chillers) where the load torque changes periodically, conventional speed control can cause vibration (running speed pulsation) due to the phase difference between the torque command and the load torque.

By enabling vibration suppression control, the phase difference can be corrected and vibration (running speed pulsation) can be reduced.

This function is only available under PM sensorless vector control.



Date of issue	February 2026	Title	Firmware Update for the FR-D800 Series General-Purpose Inverters	Mitsubishi Electric Corp., Nagoya Works 5-1-14 Yada-minami, Higashi-ku, Nagoya 461-8670 Tel.: +81 (52) 721-2111 Main line
----------------------	---------------	--------------	--	---

Pr. (Pr. group)	Name	Initial value	Setting range	Description
532 (G225)	Vibration suppression mode selection	9999	1, 2	Vibration suppression control is enabled. Set the number of vibration per motor rotation.
			9999	Vibration suppression control is not available.
533 (G226)	Vibration suppression response adjustment	9999	0 to 200%	Adjust the response level of the vibration suppression control. The reference value is 100%.
			9999	0% is applied.
534 (G227)	Maximum vibration suppression frequency	9999	0 to 400 Hz	Set the upper limit of the frequency command to perform the vibration suppression control.
			9999	The vibration suppression control is performed with a frequency command equal to or lower than Pr.84 (Rated motor frequency).
535 (G228)	Minimum vibration suppression frequency	9999	0 to 400 Hz	Set the lower limit of the frequency command to perform the vibration suppression control.
			9999	The vibration suppression control is performed with a frequency command equal to or higher than 10% of Pr.84 (Rated motor frequency).

(2) Enhanced functions for the DC injection brake

DC current is applied to the PM motor to heat it while stopped.

This function helps prevent condensation and warm the lubricant.

- Enhanced functions for input terminal function selection

The following function will be added to Pr.178 to Pr.182 and Pr.185 to Pr.189.

Function	Signal name	Setting value	Description
Pre-excitation	LX	23	When the Pre-excitation (LX) signal is turned ON under PM sensorless vector control, pre-excitation (DC injection brake) starts during a stop.

- Addition of Pr.795 (DC injection brake operation current level)

Pr. (Pr. group)	Name	Initial value	Setting range	Description
795 (G111)	DC injection brake operation current level	9999	0 to 200%	Set the excitation current command during DC injection brake operation as the percentage against the rated motor current.
			9999	70%

(3) Enhanced functions for output terminal function selection

The following functions will be added to Pr.190 to Pr.196, and to Pr.313 to Pr.315 (Ethernet model only).

Function	Signal name	Setting value		Description
		Positive logic	Negative logic	
Operation ready 2	RY2	33	133	Output while pre-excitation is enabled or during normal operation under PM sensorless vector control.
Inverter running 2	RUN2	44	144	Output while the Forward rotation command signal or Reverse rotation command signal is ON. Output during deceleration even while the Forward rotation command signal or Reverse rotation command signal is OFF. (The signal is not output while pre-excitation is enabled (the LX signal is ON).)
Inverter running and start command ON	RUN3	45	145	Output while the inverter is running or while the start command signal is ON.

3. Date of Change

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

□□ 26 3 ○○○○○○
Symbol Year Month Control number

SERIAL

SERIAL example on packaging plate

□□ 26 3 ○○○
Symbol Year Month Control number

SERIAL

The SERIAL consists of two symbols, three 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 two digits of the production year are 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-D800	3 or later

Firmware can be downloaded from the following website.

[Search for Software for Drive Products Inverters - Firmware - INVERTER - FR-D800 Series](#)

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