Firmware Upgrade for FR-A800-CRN Inverters (FR-A800 Plus Series)

Thank you for your continued patronage of Mitsubishi Electric drive control products.
The firmware of FR-A800-CRN inverters (FR-A800 plus series) will be upgraded to improve functionality.

1. Products Affected

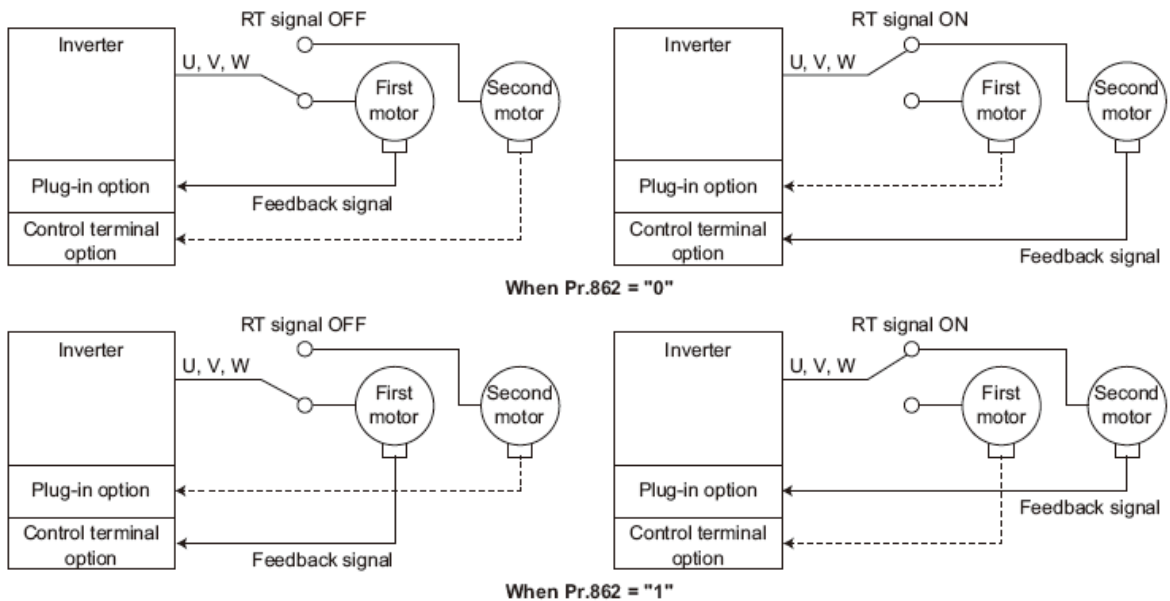FR-A800-CRN inverters (FR-A800 Plus series)

2. Details of Change

◆ Encoder option selection

- Vector control operation is enabled by switching between two encoder-equipped motors using the RT signal.
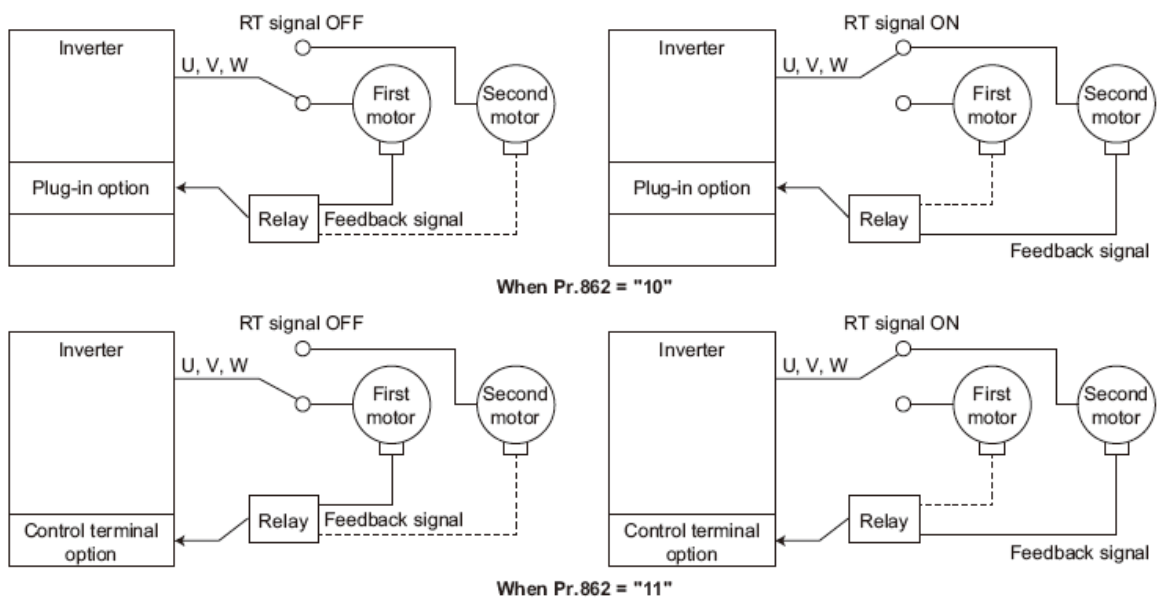
Pr.	Name	Initial value	Setting range	Description	
				RT signal OFF (first motor)	RT signal ON (second motor)
862 C242	Encoder option selection	0	0	Plug-in option	Control terminal option
			1	Control terminal option	Plug-in option
			10	Plug-in option	
			11	Control terminal option	

- Using the Vector control compatible plug-in options together with the control terminal option (FR-A8TP) enables the Vector control operation by switching between two encoder-equipped motors according to the RT signal.
  Use Pr.862 Encoder option selection to set the combination of the motors (first/second), plug-in option, and control terminal option.

When Pr.862 = "0"

When Pr.862 = "1"

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- Switching between two vector control motors is enabled when either a vector control compatible plug-in option or a control terminal option is installed and "10" or "11" is set in Pr.862.
- To set "10 or 11" in Pr.862, use encoders that rotate in the same direction with the same number of pulses for the first and second motors.

When Pr.862 = "10"

When Pr.862 = "11"

- When Pr.862 = "10 or 11", the following functions are disabled:
  Position control, PM motor vector control, and orientation control

3. Date of Change

The change will be applied to the products manufactured in January 2021 or later.

4. Product Identification

The SERIAL (determined by date of production) can be checked on the product's rating plate.

□   1   1   ○○○○○○
Symbol Year Month Control number

SERIAL

The SERIAL consists of one symbol, two characters indicating the production year and month, and six characters indicating the control number.

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).