

TECHNICAL BULLETIN

[Issue No.] FA-A-0180

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[Title] Precautions when using label program and simple motion module FB/positioning control module FB of GX Works3

[Date of Issue] December 2014

[Relevant Models] Mitsubishi Integrated FA Software MELSOFT series
GX Works3, iQ Works

Thank you for your continued support of Mitsubishi Integrated FA Software MELSOFT Series.

The precautions to be observed in creating programs with labels and module FBs for simple motion module/positioning module of GX Works3 are given below.

1. Precautions

- (1) Creating a program using labels with GX Works3 may cause unintended program operation in a rare case. This can only occur if all of the following conditions are met.
 - (a) A structure has been defined.
 - (b) A bit type array label has been declared for a member of the structure defined in the above (a). (Hereinafter referred to as "Label A")
 - (c) A bit type label or a bit type array label has been declared for other member or members (other than the Label A) of the structure defined in (a).
 - (d) The total data size of the label or labels in the above (c) is equal to or greater than the data size of the Label A.
 - (e) A device has been assigned to the Label A manually.
 - (f) In a program, a label is used to specify the element of the array of the Label A.
 - (g) The value of the element specification for the Label A is other than 0.

- (2) When the module FBs for simple motion module/positioning module listed in the following table are used, the conditions stated above will be all met, which may result in unintended program operation.

Product Name	Module FB Name	Function
Simple motion module RD77MS2 RD77MS4 RD77MS8 RD77MS16	M+RD77_StartPositioning_00E	Starts the positioning operation.
	M+RD77_JOG_00E	Performs the JOG/inching operation.
	M+RD77_MPG_00E	Performs the manual pulse generator operation.
	M+RD77_ChangeSpeed_00E	Changes the speed.
	M+RD77_ChangePosition_00E	Changes the target position.
	M+RD77_Sync_00E	Starts/Ends the synchronous control.
Positioning module RD75P2 RD75P4 RD75D2 RD75D4	M+RD75_StartPositioning_00A	Starts the positioning operation.
	M+RD75_JOG_00A	Performs the JOG/inching operation.
	M+RD75_MPG_00A	Performs the manual pulse generator operation.
	M+RD75_ChangeSpeed_00A	Changes the speed.
	M+RD75_ChangePosition_00A	Changes the target position.
	M+RD75_Restart_00A	Restarts the axis being stopped.
	M+RD75_OperateError_00A	Monitors errors/warnings, and resets errors.
M+RD75_ABRST_00B	Restores the absolute position.	

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2. Target software

Target software is as follows.

Product Name	Version	Manufactured Period
GX Works3	From version 1.001B to 1.005F	From July 2014 to December 2014
iQ Works Ver.2(*1)	From version .2.01B to 2.03D	From August 2014 to December 2014

*1 Only the GX Works3 included in iQ Works Ver.2

3. Countermeasures

The software in which countermeasures are taken is as follows.

Before using the functions mentioned in Section 1, Precautions, convert all programs with the upgraded GX Works3. To obtain the upgraded GX Works3, please contact your local Mitsubishi representative.

Product Name	Version
GX Works3	Version 1.006G or later
iQ Works Ver.2	Version 2.04E(*2) or later

*2 GX Works3 included in iQ Works Ver.2 is Version 1.006G.

If there is any question, please contact your local Mitsubishi representative.