Mitsubishi Motion Controller

Sales and Service

Addition or Change of Minor Error Codes for
Motion Controller OS Software SW5RN-SV43QJ/SW5RN-SV43QL

Thank you for your continued patronage of the Mitsubishi motion controllers and FA products.
With the version 00D of the motion controller OS software SW5RN-SV43QJ/SW5RN-SV43QL, the error codes corresponding to minor errors have been added or changed.
We ask for your understanding in this matter.

1. Target Models

Product	Type		Version
Motion controller OS software	Q173HCPU (32 axes)	SW5RN-SV43QJ	00D or later (Note) This change has been made from the October 2010 production.
	Q172HCPU (8 axes)	SW5RN-SV43QL	

Note. The iQ Platform compatible motion controller OS has included the above error codes since its release.

2. Purpose

To notify the error causes and the corrective actions

3. Details of Added or Changed Error Codes

The error codes for the following operations (error causes) have been added or changed.

Operation (Error cause)	Old error code	New error code
The subprogram repeat count is outside the range of 0 to 9999.	- (No error output)	549
In the specified motion program, DOm and ENDm or IF[ ]THENm and ENDm are not in pairs.	544 (In the specified motion program, DOm and ENDm are not in pairs.)	550
With a tool length offset (G43, G44) command, the tool length offset value is outside of the set range.	- (No error output)	572
The parameter block No. is outside the range of 1 to 64.	- (No error output)	583
When the interpolation axes are the combination of [mm] and [degree] or [inch] and [degree], the circular interpolation control or the helical interpolation control is executed.	560 (The command format in the motion program is not correct.)	598
When the stroke limit value of the [degree] axis is disabled, the circular interpolation control or the helical interpolation control is executed.	560 (The command format in the motion program is not correct.)	599

4. Added Minor Error Causes and Corrective Actions

Error code	Control program	Axis designation program (positioning)	Control mode JOG	Control mode Manual pulse generator	Control mode Home position return	Control mode OSC	Error cause	Error processing	Corrective action
549	-	○	-	-	-	-	Subprogram repeat count error The subprogram repeat count is outside the range of 0 to 9999.	Deceleration stop, control program end	Specify the subprogram repeat count within the range of 0 to 9999.
550	○	○	-	-	-	-	In the specified Motion program, DOm and ENDm or IF[ ]THENm and ENDm are not in pairs.		Correct the Motion program.
572	-	○	-	-	-	-	With a tool length offset (G43, G44) command, the tool length offset value is outside of the set range.		Set the tool length offset value within the set range.
583	-	○	-	-	-	-	Cancel start (G24) parameter block No. setting error The parameter block No. is outside the range of 1 to 64.	The parameter block No. is set to 1 as the default value, and the Motion program is executed.	Specify the parameter block No. within the range of 1 to 64.
598	-	○	-	-	-	-	When the interpolation axes are the combination of [mm] and [degree] or [inch] and [degree], the circular interpolation control or the helical interpolation control is executed.	Deceleration stop, control program end	When the interpolation axes are the combination of [mm] and [degree] or [inch] and [degree], do not execute the circular interpolation control or the helical interpolation control.
599	-	○	-	-	-	-	When the stroke limit value of the [degree] axis is disabled, the circular interpolation control or the helical interpolation control is executed.		Enable the stroke limit value of the [degree] axis used for the circular interpolation control or the helical interpolation control.