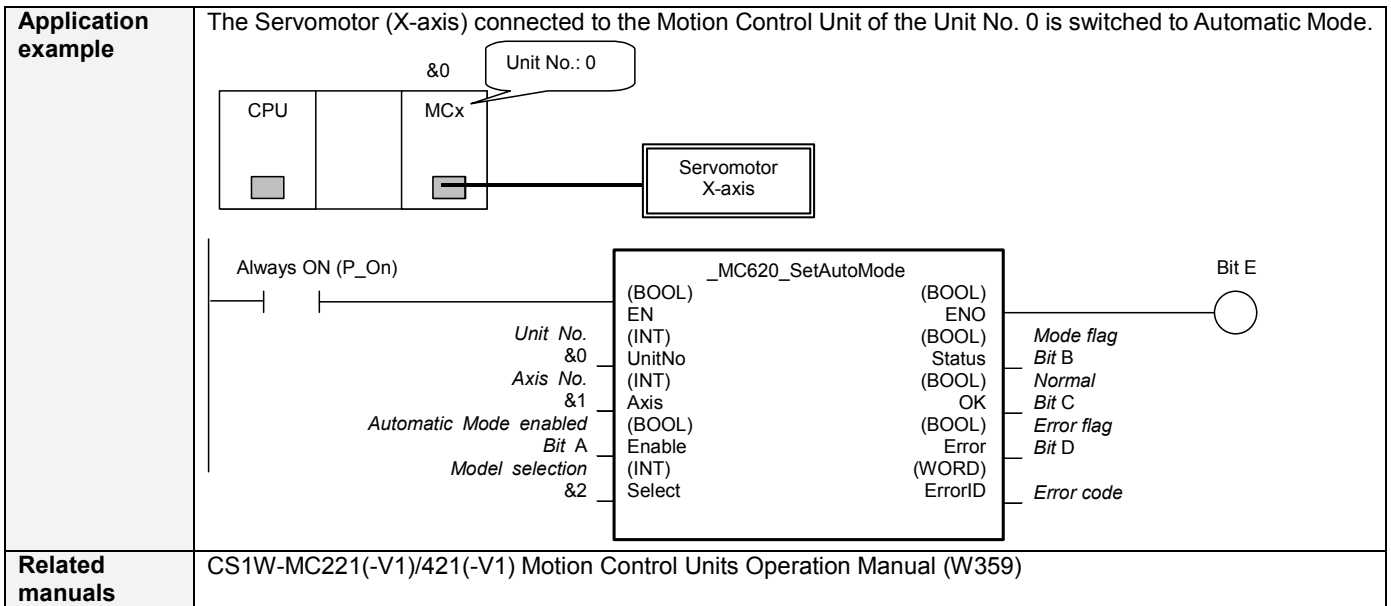


<b>MCx 620</b>	<b>Mode Switch: _MCx620_SetAutoMode</b>
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<b>Basic function</b>	A Motion Control Unit is switched between Automatic and Manual Modes.	
<b>Symbol</b>		
<b>File name</b>	Lib\FBL\omronlib\ PositionController \MCx\_MCx620_SetAutoMode10.cxf	
<b>Applicable models</b>	Motion Control Unit	CS1W-MC221(-V1)/421(-V1)
	CPU Unit	CS1*-CPU**H Unit version 3.0 or higher CJ1*-CPU**H Unit version 3.0 or higher CJ1M-CPU** Unit version 3.0 or higher CP1H
	CX-Programmer	Version 5.0 or higher
<b>Conditions for usage</b>	None	
<b>Function description</b>	<p>When Automatic Mode enabled (Enable) turns ON, the Operating Mode of the Motion Control Unit on the axis specified with Unit No. (UnitNo) and Axis No. (Axis) will be switched to Automatic Mode. When it turns OFF, the Motion Control Unit will be switched to Manual Mode. For details, refer to the manual listed in Related manuals.</p> <p>Mode flag (Status) will reflect status of Automatic Mode enabled (Enable) as soon as the command is received. The Error Flag (Error) will be turned ON and the Error Code (Error code) will be output if an error occurs for this FB. These statuses are not output for errors of other FBs or instances.</p> <p>These statuses will be reset when Automatic Mode enabled (Enable) turns OFF. If Automatic Mode enabled (Enable) turns OFF before the Operating Mode is switched to Automatic Mode, the status will be set for at least one cycle when a corresponding condition occurs.</p> <div style="text-align: center;"> </div>	
<b>FB precautions</b>	<ul style="list-style-type: none"> <li>This FB changes the task allocated an axis to Automatic Mode. When multiple axes are used in the task, all the axes will be changed to Automatic Mode.</li> </ul>	
<b>EN input condition</b>	<ul style="list-style-type: none"> <li>Connect the EN input to the Always On Flag (P_On).</li> <li>If a different type of bit is connected to EN, the FB outputs will be maintained when the connected bit is turned OFF.</li> </ul>	
<b>Restrictions Other</b>	<ul style="list-style-type: none"> <li>This FB uses bits in the Bit Areas of the applicable Motion Control Units listed above. Do not use these bits as Output Bits connected directly to the right bus bar in the ladder programs.</li> </ul> <p><b>Note</b> For bit address calculation, these bits are read inside the FB when executing each instance for the first time, or when the Input Variables Unit No. (UnitNo), Axis No. (Axis) and Model Selection (Select) are changed and then Automatic Mode enabled (Enable) is turned ON.</p>	



■ Variable Tables  
Input Variables

Name	Variable name	Data type	Default	Range	Description
EN	EN	BOOL			1 (ON): Starts FB 0 (OFF): Does not start FB
Unit No.	UnitNo	INT	&0	&0 to &93 &0 to &91	Depends on the model of Motion Control Units. &0 to &95 (MC221) &0 to &91 (MC421)
Axis No.	Axis	INT	&1	&1 to &4	
Automatic Mode enabled	Enable	BOOL	0(OFF)		↑ : Switches to Automatic Mode ↓ : Switches to Manual Mode
Model selection	Select	INT	&4	&2, &4	&2: 2-axis Unit (MC221) &4: 4-axis Unit (MC421)

Output Variables

Name	Variable name	Data type	Range	Description
ENO	ENO	BOOL		1 (ON): FB operating normally 0 (OFF): FB not operating normally •FB not started •One or more Input Variables set out of range •FB ended with an error •Parameter not read successfully
Mode flag	Status	BOOL		1 (ON): In Automatic Mode 0 (OFF): In Manual Mode
Normal	OK	BOOL		1 (ON) indicates that the states of Automatic Mode enabled (Enable) and Mode flag (Status) match with each other.
Error flag	Error	BOOL		1 (ON) indicates that an error has occurred in the FB.
Error code	ErrorID	WORD		The error code of the error occurred in the FB will be output. For details of the errors, refer to the manual listed in the Related manuals above. When Unit No. or Axis No. is out of the range, #0000 will be output.

Version History

Version	Date	Contents
1.00	2005.4	Original production

Note

This manual is a reference that explains the function block functions. It does not explain the operational limitations of Units, components, or combinations of Units and components. Always read and understand the Operation Manuals for the system's Units and other components before using them.