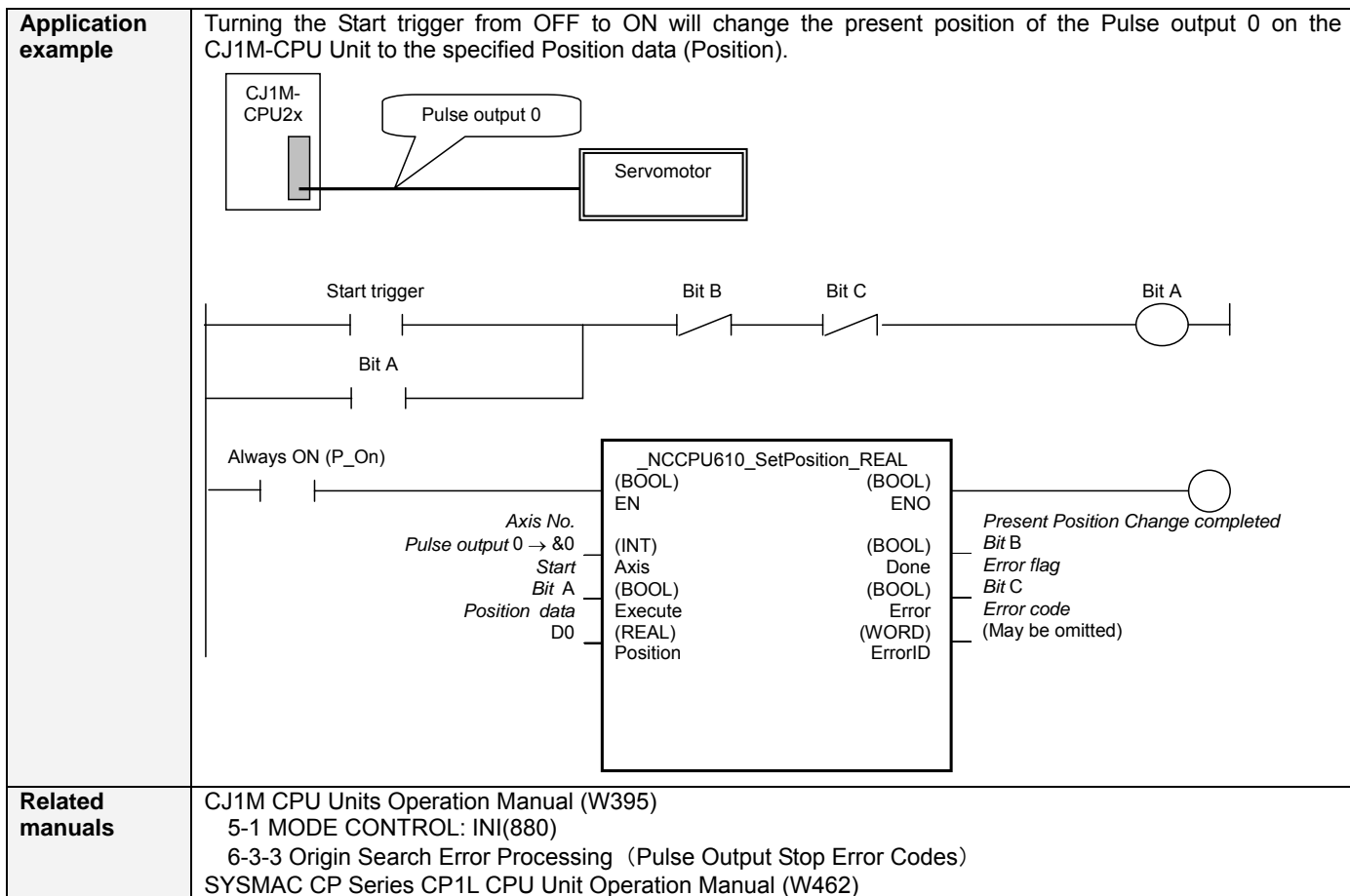| NCCPU 610	Present Position Change(REAL): _NCCPU610_SetPosition_REAL

Basic function	Changes the present position to the specified position data.
Symbol	
File name	Lib\FBL\omronlib\ PositionController \NC-CPU(CJ1MCPU2x)_NCCPU610_SetPosition_REAL10.cxf
Applicable models	CPU Unit — CJ1M-CPU21/22/23 Unit version 3.0 or higher / CP1L-***DT-* / CP1L-***DT1-*
	CX-Programmer — Version 5.0 or higher
Conditions for usage	None
Function description	Changes the present position of the output specified with the Axis No. (Axis) to the value set in Position data (Position) when Start (Execute) is turned ON. The Error flag (Error) will be turned ON and Error code (ErrorID) will be output when an error related to this FB occurs. These statuses, Present position change completed (Done)/ Error flag (Error)/ Error code (ErrorID), will be reset when Start (Execute) is turned OFF. If Start (Execute) was turned OFF before positioning is completed, the status will be set for at least one cycle when a corresponding condition occurs. Note: This FB uses the Change Present Value Function of the CPU Unit. For details, refer to the section of the manual listed in the Related manuals.

Kind of FB definition	Connect Always ON type
	  Connect the EN input to the Always ON Flag (P_ON).
	  The same instance cannot be used in two or more places.

EN input condition	• Connect the EN input to the Always ON Flag (P_ON). • If a different type of bit is connected to EN, the FB outputs will be maintained when the connected bit is turned OFF.
FB precautions	• This FB cannot be executed during pulse outputs. An error will occur if it is executed. • The origin will be decided when this FB is executed.

Application example	Turning the Start trigger from OFF to ON will change the present position of the Pulse output 0 on the CJ1M-CPU Unit to the specified Position data (Position). CJ1M-CPU2x — Pulse output 0 — Servomotor Start trigger — Bit B — Bit C — Bit A Bit A Always ON (P_On) _NCCPU610_SetPosition_REAL (BOOL) EN — ENO (BOOL) — Present Position Change completed (INT) Axis — Done (BOOL) — Bit B / Error flag (BOOL) Execute — Error (BOOL) — Bit C / Error code (REAL) Position — ErrorID (WORD) — (May be omitted) Axis No. / Pulse output 0 → &0 / Start Bit A / Position data D0

Related manuals	CJ1M CPU Units Operation Manual (W395)
	  5-1 MODE CONTROL: INI(880)
	  6-3-3 Origin Search Error Processing（Pulse Output Stop Error Codes）
	SYSMAC CP Series CP1L CPU Unit Operation Manual (W462)

■ Variable Table
Input Variables

Name	Variable name	Data type	Default	Range	Description
EN	EN	BOOL			1 (ON): Starts FB 0 (OFF): Does not start FB
Axis No.	Axis	INT	&0	&0 to &1	&0: Pulse output 0 &1: Pulse output 1
Start	Execute	BOOL	0(OFF)		↑ : Executes Present Position Change
Position data	Position	REAL	+0.0	-2.147483e+009 to +2.147483e+009	Specifies the position data to be used in Present Position Change. Unit: Pulses

Output Variables

Name	Variable name	Data type	Range	Description
ENO	ENO	BOOL		1 (ON): FB operating normally 0 (OFF): FB not operating normally
Present position change completed	Done	BOOL		Turns ON when Present Position Change is completed normally.
Error flag	Error	BOOL		1 (ON) indicates that an error has occurred in the FB.
Error code (May be omitted)	ErrorID	WORD		The error code of the error occurred in the FB will be output. For details of the errors, refer to the sections of the manual listed in the Related manuals above. When Unit No. or Axis. No. is out of the range, #0000 will be output.

Revision History

Version	Date	Contents
1.00	2005.2.	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.