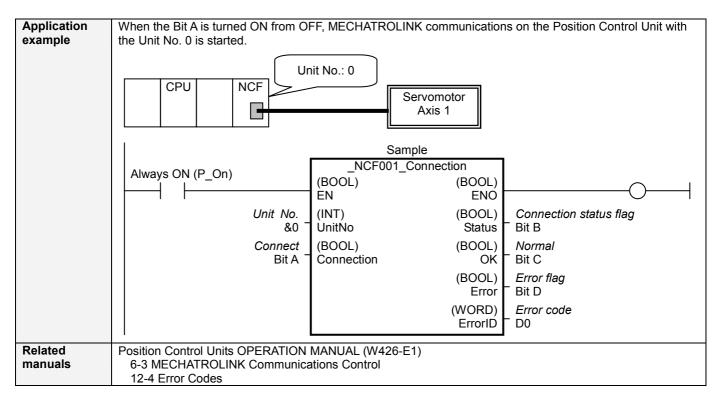
## NCF 001

# Establish/Release connection \_NCF001\_Connection

<b>Basic function</b>	Controls MECHATROLINK com	munications.	
Symbol	NCE001 Connection		
	Always ON (P_On)	_NCF001_Connection (BOOL) (BOOL)	
	Unit N		
	Conne	(BOOL) (BOOL)	
		(BOOL)	
		(WORD) Error code	
		ErrorID	
File name	Lib\EBL\omronlib\PositionContro	oller\NCF\ NCF001 Connection11.cxf	
Applicable		NCF71, CS1W-NCF71	
models		PU**H Unit Version 3.0 or later	
	CJ1*-C	PU**H Unit Version 3.0 or later	
		CPU** Unit Version 3.0 or later	
	CP1H	5.0 or later	
Languages in	CX-Programmer Version Ladder programming		
function block			
definitions			
Conditions for	None		
usage			
Function		ne Position Control Unit specified in "Unit No. (UnitNo)" when the Connect	
description		leases the connection when the Connect (Connection) is turned OFF. For ne manual listed in the Related manuals below.	
		us) indicates the MECHATROLINK communications status.	
		code (ErrorID) will be output when an error related to this FB occurs. They will	
	not be output for errors in other		
	EN OFF		
	Connection OFF		
	Status OFF		
	OK OFF		
	Error ON OFF		
Kind of FB	Always execution type.		
definition	Connect the EN input to the A	lways ON Flag (P. On).	
	The same instance cannot be		
EN input	Connect the EN input to the		
condition	If another bit is connected to	EN, the FB outputs will be held when the connected bit turns OFF.	
Restrictions		the Position Control Unit. Therefore, do not turn this bit ON or OFF. For the	
Other	same reason do not use this	bit for coil outputs (OUT commands).	



#### ■Variable Tables Input Variables

input vai	labies				
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~&15	Specify the unit number.
Connect	Connection	BOOL	0(OFF)		<b>f</b> : Establishs connection
					✓: Releases connection

### **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
				<ul> <li>Input variable out of the range</li> </ul>
				FB ended with error
Connection	Status	BOOL		1 (ON): MECHATROLINK communications executing
status flag				0 (OFF): MECHATROLINK communications stopped
Normal	OK	BOOL		1 (ON) indicates that status of Connect and the actual connection
				status matches with each other.
Error flag	Error	BOOL		Turns ON when an error has occurred in the FB.
Error code	ErrorID	WORD		Returns the error code when an error has occurred in the FB. Refer to
				the Related Manuals for details on errors.
				A code of #0000 will be returned if any of the following conditions is
				satisfied.
				<ul> <li>Input variable is out of range.</li> </ul>

## ■Version History

Version	Date	Contents			
1.00	2005.01.	Original production			
1.10	2007.11	The timing for reflecting Input Variable "Unit No. (UnitNo)" has been changed.			
		What Output Variables "Normal (OK)" and "Error flag (Error)" do has been changed.			

## ■Upgrade Details

Version	Contents
1.10	In the version 1.00, the unit has been changed right after the "Unit No. (UnitNo)" was changed.
	In the version 1.10, a unit can be changed only when turning ON the "Connect (Connection)".
	In the version 1.00, comparing between the status commanded by "Normal (OK)" and the real status was stopped.
	In the version 1.10, the comparison between the status commanded by "Normal (OK)" and the real status is
	returned even when the unit error occurs.

#### ∎Note

This document explains the function of the function block.

It does not provide information of restrictions on the use of Units and Components or combination of them. For actual applications, make sure to read the operation manuals of the applicable products.