

Programmable Controller CP1E-series

Replace Guide From CP1E to CP2E

CP2E-E CP2E-S CP2E-N CP2E-N CP1E-E CP1E-E CP1E-N CP1E-N S CP1E-N S CP1E-N S

Replace Guide



P150-E1-02

Introduction

This replacement guide assumes replacement of the CP1E with the CP2E and no changes to the operation or functions.

The contents include references for selection, configuration of settings, and wiring. No precautions for correct use are included. Be sure to obtain the user's manuals for both the source and target replacement models, and refer to these manuals for necessary usage information—including precautions for correct use—and for verifying operation is satisfactory.

Intended Audience

This guide is intended for the following personnel, who must also have knowledge of electrical systems (an electrical engineer or the equivalent).

- Personnel in charge of introducing FA devices.
- Personnel in charge of designing FA systems.
- Personnel in charge of managing FA facilities.

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Related Manuals

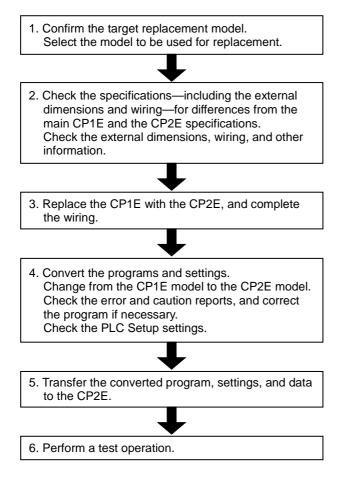
Man. No.	Model	Manual
W479	CP1E-EDDSDD-D	CP1E CPU Unit Hardware User's Manual
(CP1E)	CP1E-NDDSDDD-D	
	CP1E-EDDDD-D	
	CP1E-NDDD-D	
	CP1E-NADDD-D	
W480	CP1E-EDDSDD-D	CP1E CPU Unit Software User's Manual
(CP1E)	CP1E-NDDSDDD-D	
	CP1E-EDDDD-D	
	CP1E-NDDD-D	
	CP1E-NADDD-D	
W613	CP2E-EDDDD-D	CP2E CPU Unit Hardware User's Manual
(CP2E)	CP2E-SDDD-D	
	CP2E-NDDD-D	
W614	CP2E-EDDDD-D	CP2E CPU Unit Software User's Manual
(CP2E)	CP2E-SOOD-O	
	CP2E-NDDD-D	
W483	CP1E-EDDDD-D	CP1E/CP2E CPU Unit Instructions Reference
(For both CP1E and CP2E)	CP1E-NDDD-D	Manual
	CP2E-EDDDD-D	
	CP2E-SOOD-O	
	CP2E-NDDD-D	
W446	CXONE-ALDD-V4	CX-ProgrammerVer.9.
		Operation Manual

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Replacement flow

The procedure to replace the CP1E with the CP2E is as follows. (Each number shows the number of the section)



Precautions for Correct Use

- This guide provides the procedure to replace the CP1E with the CP2E. However, there are differences in functions and performance between these two models, and not all CP1E can be replaced with the CP2E. Please refer to this guide and the manuals to examine replacement carefully.
- After replacement, please perform trial operation before starting actual operation and check that the system operates correctly. This guide does not include sufficient specifications for replacement. Please refer to the manuals listed on the *Related Manuals* page and check the specifications before continuing.

1. Replacement Model Confirmation

< Precaution for replacement >

Note that the dimensions, specifications, programs, settings, terminal arrangements, and other aspects may be changed by replacing the CP1E with the CP2E. Please refer to this replacement guide and the user's manuals of the CP1E and CP2E for details.

● Using CP1E-E□□(S)DR-A

Replace	with CP2E-EDDR-A.	

Model being replaced:	Model used for replacement: CP2E-EDD
CP1E-EDD/EDDS	
CP1E-E10D	CP2E-E14DR-A
CP1E-E14DR-A/E14SDR-A	CP2E-E14DR-A
CP1E-E20DR-A/E20SDR-A	CP2E-E20DR-A
CP1E-E30DR-A/E30SDR-A	CP2E-E30DR-A
CP1E-E40DR-A/E40SDR-A	CP2E-E40DR-A
CP1E-E60DR-A/E60SDR-A	CP2E-E60DR-A

*: No 10-point CPU Unit is available for the CP2E. Replace with a 14-point CPU Unit.

• Using CP1E-NDDSDD-D

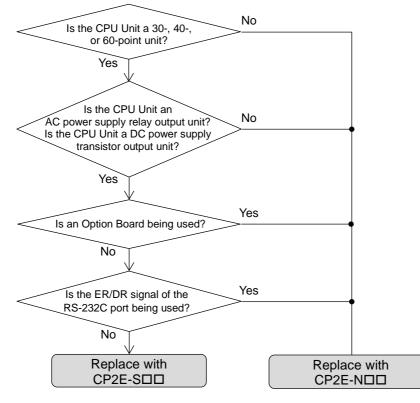
Replace with CP2E-SDDD-D.	
Model being replaced: CP1E-NDDS	Model used for replacement: CP2E-SDD
CP1E-N30SDD-D	CP2E-S30DD-D
CP1E-N40SDD-D	CP2E-S40DD-D
CP1E-N60SDD-D	CP2E-S60DD-D

• Using CP1E-NDDS1DD-D

Replace with CP2E-SDDD-D.

Model being replaced: CP1E-NDDS1	Model used for replacement: CP2E-SDD	
CP1E-N30S1DD-D	CP2E-S30DD-D	
CP2E-N40S1DD-D	CP2E-S40DD-D	
CP2E-N60S1DD-D	CP2E-S60DD-D	

• Using CP1E-NDDD-D



Model being replaced: CP1E-NDD	Model used for replacement: CP2E-SDD	Model used for replacement: CP2E-NDD
CP1E-N14DD-D	-	CP2E-N14DD-D
CP1E-N20DD-D	-	CP2E-N20DD-D
CP1E-N30DD-D	CP2E-S30DD-D	CP2E-N30DD-D
CP1E-N40DD-D	CP2E-S40DD-D	CP2E-N40DD-D
CP1E-N60DD-D	CP2E-S60DD-D	CP2E-N60DD-D

*: Replacing the communication port with the Option Board

(1) The CP2E-N□□ does not have a built-in RS-232C port. If an RS-232C communication port is necessary, mount the RS-232C Option Board CP1W-CIF01

- If an RS-232C communication port is necessary, mount the RS-232C Option Board CP1W-CIF01 on the CP2E-N□□.
 (2) If using the CP1W-CIF41 Ethernet Option Board, replace the CP1W-CIF41 with the CP2E-N
- (2) If using the CP1W-CIF41 Ethernet Option Board, replace the CP1W-CIF41 with the CP2E-I Built-In Ethernet Port. The CP1W-CIF41 cannot be mounted on the CP2E-NDD. Refer to Appendix 3. PC System Setting Examples for Transitioning from CP1W-CIF41 to CP2E-NDD for replacing the settings when using the CP1W-CIF41.
- (3) All other Option Boards that can be mounted to the CP1E-N can be used with the CP2E. CP1W-CIF01/CP1W-CIF11/CP1W-CIF12-V1 CP1W-ADB21/CP1W-DAB21V/CP1W-MAB221

*: No CP2E-NDD replacement models exist for transistor output/AC power supply CP1E-NDD models (CP1E-NDDT/DT1-A). Replace with a transistor output/DC power supply model (CP2E-SDDT/DT1-D or CP2E-NDDT/DT1-D).

• Using CP1E-NA20DDDDD. No direct replacement models are available. Use the following combinations as equivalent configurations.

Marial I. S. S. S. I.	
Model being replaced:	Model used for replacement: CP2E + Analog unit
CP1E-NA20DDD-D	
CP1E-NA20DO-D	CP2E-S30D□-□ or CP2E-N30D□-□
Inputs: 12, Outputs: 8	Inputs: 18, Outputs: 12
Analog inputs: 2 (isolated)	CP1W-MAD11 (Analog Input/Output Expansion Unit)
Input range: 0 to 5 V, 1 to 5 V, 0 to 10 V,	Analog inputs: 2 (isolated)
-10 to +10 V, 0 to 20 mA,	Input range: 0 to 5 V, 1 to 5 V, 0 to 10 V, -10 to +10 V
4 to 20 mA	0 to 20 mA, 4 to 20 mA
Resolution: 6,000	Resolution: 6,000
Analog outputs: 1 (isolated)	Analog outputs: 1 (isolated)
Output range: 0 to 5 V, 1 to 5 V, 0 to	Input range: 0 to 5 V, 1 to 5 V, 0 to 10 V, -10 to +10 V
10 V, -10 to +10 V,	0 to 20 mA, 4 to 20 mA
0 to 20 mA, 4 to 20 mA	Resolution: 6,000
Resolution: 6,000	Model used for replacement:
	CP2E + Analog Option Board
	CP2E-N30DD-D
	Inputs: 18, Outputs: 12
	CP1W-MAB221 (Analog Option Board)
	Analog inputs: 2 (non-isolated)
	Input range: 0 to 10 V, 0 to 20 mA
	Resolution: 4,000 (0 to 10 V); 2,000 (0 to 20 mA)
	Analog outputs: 1 (non-isolated)
	Input range: 0 to 10 V
	Resolution: 4,000

*: When using the CP1W-MAB221, the analog I/O range is limited, and the internal circuits of the analog I/O and the CPU Unit are not isolated.

2. Main Specifications and Differences Between CP1E and CP2E

2.1. Dimensions

Although the dimensions of the CP1E and the CP2E are different, the two models are almost identical. *: No 10-point CPU Unit is available for the CP2E. Replace with a CPU Unit with 14 points or more.

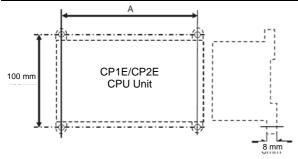
I/O points	Dimensions (W x H x D)		
	CP1E-EDD	CP1E-EDDS	CP2E
	CP1E-NDD	CP1E-N□□S(1)	
	Normal-type	Renewal-type	
10 points	66×90×85	-	-
14 points	86×90×85	86×90×79	86×90×80
20 points	86×90×85	86×90×79	86×90×80
30 points	130×90×85	130×90×79	130×90×80
40 points	150×90×85	150×90×79	150×90×80
60 points	195×90×85	195×90×79	195×90×80

Dimension comparison table

2.2. Mounting

The DIN track and screw hole dimensions are the same as for the CP1E.

I/O points	Mounting hole pitch A		
	CP1E	CP2E	
10 points	56±0.5	-	
14 points	76±0.5	76±0.5	
20 points	76±0.5	76±0.5	
30 points	120±0.5	120±0.5	
40 points	140±0.5	140±0.5	
60 points	185±0.5	185±0.5	



2.3. Expansion (I/O) Units

All CP1W Expansion (I/O) Units connectable to the CP1E can be used with the CP2E.

2.4. Option Boards

The CP1W-CIF41 cannot be used with the CP2E. If using the CP1W-CIF41 with the CP1E, use the built-in Ethernet port of CP2E-NDD.

2.5. Supply Voltage

Although the power supply voltage and operating voltage range of the CP1E and CP2E are the same, the power consumption increases depending on the model. Change to an appropriate power supply if power supply capacity is insufficient.

2.6. External Power Supply

The external power supply specifications of the CP1E and CP2E are the same. Only 30/40/60-point AC power supply models include an external power supply function.

2.7. I/O Function Assignment

All CP1E functions have been covered with the CP2E, with some functions including enhancements. This eliminates the need to implement changes when replacing the models.

(1) Input interrupt, quick-response input function Function assignments have not been changed. The CP2E-N□□ includes an increased number of interrupt inputs and quick-response inputs.

Contact function assignments

Input contact	CP1E	CP2E	CP2E	
		CP2E-S/EDD, CP2E-N14	CP2E-N20/30/40/60	
0.02	Interrupt input 2/	Interrupt input 2/	Interrupt input 2/	
	Quick-response input 2	Quick-response input 2	Quick-response input 2	
0.03	Interrupt input 3/	Interrupt input 3/	Interrupt input 3/	
	Quick-response input 3	Quick-response input 3	Quick-response input 3	
0.04	Interrupt input 4/	Interrupt input 4/	Interrupt input 4/	
	Quick-response input 4	Quick-response input 4	Quick-response input 4	
0.05	Interrupt input 5/	Interrupt input 5/	Interrupt input 5/	
	Quick-response input 5	Quick-response input 5	Quick-response input 5	
0.06	Interrupt input 6/	Interrupt input 6/	Interrupt input 6/	
	Quick-response input 6	Quick-response input 6	Quick-response input 6	
0.07	Interrupt input 7/	Interrupt input 7/	Interrupt input 7/	
	Quick-response input 7	Quick-response input 7	Quick-response input 7	
0.08	-	_	Interrupt input 8/	
			Quick-response input 8	
0.09	-	-	Interrupt input 9/	
			Quick-response input 9	

(2) High-speed counter input function changes

Although the max. input frequency has been increased, function assignments have not been changed.

High-speed counter	CP1E-EDD(S)	CP1E-NDD(S)	CP2E-S/EDD	CP2E-NDD
High-speed counter 0	Increment pulse: 10 kHz Increment/decrement pulse: 10 kHz Pulse + direction: 10 kHz Phase difference: 5 kHz	Increment pulse: 100 kHz Increment/decrement pulse: 100 kHz Pulse + direction: 100 kHz Phase difference: 50 kHz	Increment pulse: 100 kHz Increment/decrement pulse: 100 kHz Pulse + direction: 100 kHz Phase difference: 50 kHz	Increment pulse: 100 kHz Increment/decrement pulse: 100 kHz Pulse + direction: 100 kHz Phase difference: 50 kHz
High-speed counter 1	Increment pulse: 10 kHz Increment/decrement pulse: 10 kHz Pulse + direction: 10 kHz Phase difference: 5 kHz	Increment pulse: 100 kHz Increment/decrement pulse: 10 kHz Pulse + direction: 100 kHz Phase difference: 5 kHz	Increment pulse: 100 kHz Increment/decrement pulse: 10 kHz Pulse + direction: 100 kHz Phase difference: 5 kHz	N30/40/60 Increment pulse: 100 kHz Increment/decrement pulse: 100 kHz Pulse + direction: 100 kHz Phase difference: 50 kHz N14/20 Increment pulse: 100 kHz Increment/decrement pulse: 10 kHz Pulse + direction: 100 kHz Phase difference: 5 kHz
High-speed counter 2	Increment pulse: 10 kHz	Increment pulse: 10 kHz	Increment pulse: 10 kHz	Increment pulse: 100 kHz
High-speed counter 3	Increment pulse: 10 kHz	Increment pulse: 10 kHz	Increment pulse: 10 kHz	Increment pulse: 10 kHz
High-speed counter 4	Increment pulse: 10 kHz	Increment pulse: 10 kHz	Increment pulse: 10 kHz	Increment pulse: 10 kHz
High-speed counter 5	Increment pulse: 10 kHz	Increment pulse: 10 kHz	Increment pulse: 10 kHz	Increment pulse: 10 kHz

Contact function assignments

Input contact	For both CP1E and CP2E		
	Increment pulse	Differential phase or up/down	Pulse + direction
0.00	High-speed counter 0	High-speed counter 0 (phase A/increment)	High-speed counter 0 (pulse)
0.01	High-speed counter 1	High-speed counter 0 (phase B/decrement)	High-speed counter 1 (pulse)
0.02	High-speed counter 2	High-speed counter 1 (phase A/increment)	High-speed counter 0 (direction)
0.03	-	High-speed counter 1 (phase B/decrement)	High-speed counter 1 (direction)
0.04	High-speed counter 3	High-speed counter 0 (phase Z/reset)	High-speed counter 0 (reset)
0.05	High-speed counter 4	High-speed counter 1 (phase Z/reset)	High-speed counter 1 (reset)
0.06	High-speed counter 5	-	_

(3) Using pulse outputs

Although the number of pulse output points has been increased, function assignments have not been changed.

Contact function assignments

Output

Output contact	CP1E-NDD(S)	CP2E	
		CP2E-SDD	CP2E-NDD
100.00	Pulse output 0 (pulse)	Pulse output 0 (pulse)	Pulse output 0 (pulse)
100.01	Pulse output 1 (pulse)	Pulse output 1 (pulse)	Pulse output 1 (pulse)
100.02	Pulse output 0 (direction)	Pulse output 0 (direction)	Pulse output 0 (direction)
100.03	Pulse output 1 (direction)	Pulse output 1 (direction)	Pulse output 1 (direction)
100.04	Pulse output 0	Pulse output 0	Pulse output 0
	Error counter reset output	Error counter reset output	Error counter reset output
100.05	Pulse output 1	Pulse output 1	Pulse output 1
	Error counter reset output	Error counter reset output	Error counter reset output
100.06	-	-	Pulse output 2
			Error counter reset output
100.07	-	-	Pulse output 3
			Error counter reset output
101.00	-	-	Pulse output 2 (pulse)
101.01	-	-	Pulse output 3 (pulse)
101.02	-	-	Pulse output 2 (direction)
101.03	-	-	Pulse output 3 (direction)

Input (N20/30/40/60, S20/30/40/60 CPU Unit: With origin searching)

Input contact	CP1E-NDD(S)		
		CP2E-SDD	CP2E-NDD
0.06	Pulse output 0 origin input	Pulse output 0 origin input	Pulse output 0 origin input
0.07	Pulse output 1 origin input	Pulse output 1 origin input	Pulse output 1 origin input
0.08	-	-	Pulse output 2 origin input
0.09	-	-	Pulse output 3 origin input
0.10	Pulse output 0 origin proximity input	Pulse output 0 origin proximity input	Pulse output 0 origin proximity input
0.11	Pulse output 1 origin proximity input	Pulse output 1 origin proximity input	Pulse output 1 origin proximity input
1.00	-	-	Pulse output 2 origin proximity input
1.01	-	-	Pulse output 3 origin proximity input

*1: The pulse output function cannot be used with relay output models.

*2: Pulse outputs 2 and 3 can be used with N30/40/60 CPU Units.

Input (N14 CPU Unit: With origin searching)

Input contact	CP1E-N14	CP2E	
		-	CP2E-N14
0.03	Pulse output 0 origin proximity input	-	Pulse output 0 origin proximity input
0.04	-	-	-
0.05	Pulse output 1 origin proximity input	-	Pulse output 1 origin proximity input
0.06	Pulse output 0 origin input	-	Pulse output 0 origin input
0.07	Pulse output 1 origin input	-	Pulse output 1 origin input

*1: The pulse output function cannot be used with relay output models.

(4) Using the PWM output function

The specifications are the same for both the CP1E and the CP2E. No changes have been implemented.

Output contact	CP1E	CP2E
100.01	PWM output 0	PWM output 0

*: The PWM output function cannot be used with relay output models.

2.8. Battery

The CP1E and the CP2E use different batteries.

CP1E: CP1W-BAT01 (sold separately)

CP2E: CP2W-BAT02 (sold separately)

The battery/capacitor backup areas are different between the CP1E and the CP2E.

When using the CP1E I/O memory backup battery, installation of a separate battery is not required.

Battery/capacitor backup area

	CP1E	CP2E
 I/O memory DM Area (D) Holding Area (H) Current counter value/counter flag (C) Auxiliary Area 	Battery/capacitor backup	- (Battery-less backup is performed even when the power is OFF, so no battery is required.)
Clock	Battery/capacitor backup (For CP1E-N□□(S))	Battery/capacitor backup (For CP2E-SDD/CP2E-NDD)

2.9. Analog Adjusters

The CP2E does not have an analog adjuster function.

Change how the function is implemented, such as by creating programmable terminal screens.

3. Wiring

3.1. Terminal Arrangement

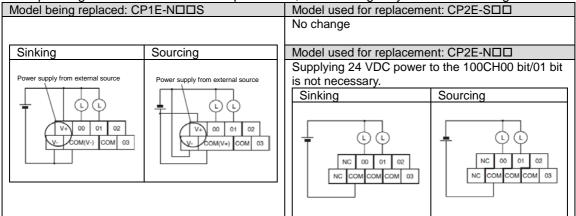
The terminal block is fixed for both the CP1E and the CP2E.

- Input wiring Same for both the CP1E and the CP2E.
- Output wiring
 - Relay output model

Same for both the CP1E and the CP2E.

Transistor output

Depending on the model used for replacement, some wiring may need to be changed.



Model being replaced: CP	1E-NDD	Model used for replaceme	nt: CP2E-SDD
		An external supply of 24 V	
		when using the 100CH00	
Sinking	Sourcing	Sinking	Sourcing
	L L NC 00 01 02 NC COM COM 03	Power supply from external source	Power supply from external source
		Model used for replaceme	nt: CP2E-NUU
		No change	

3.2. Communication Port Wiring

• Built-in RS-232C port

The interface of the built-in RS-232C port on the CP1E is different from the built-in RS-232C port on the CP2E-S/EDD.

Change the wiring.

1	ange the winng.							
	Model being replace	ed: CP′	1E-N□□(S)		_	Model used for repl	acemer	nt: CP2E-S/EDD
	D-sub connector	1	1		Ι.	Terminal block		,
		Pin	Signal nam	e			Pin	Signal name
		No.	CP1E	CP1E			No.	CP2E-S/EDD
			NDDS	NDD			1	SD(TXD)
		1	FG	FG		1 6	2	RD(RXD)
	5 1	2	SD(TXD)	SD(TXD)			3	RS(RTS)
		3	RD(RXD)	RD(RXD)			4	CS(CTS)
	00000	4	RS(RTS)	RS(RTS)			5 6	SG(0V) FG
	$\varphi \circ \circ \varphi$	5	CS(CTS)	CS(CTS)			0	гG
	$\overline{}$	6	5V	5V				
	9 6	7	-	DR(DSR)				
		8	-	ER(DTR)				
		9	SG(0V)	SG(0V)				
		Shell	FG	FG				
						Model used for repl		
						Option Board CP1V		
					Ι.	D-sub connector		
							Pin	Signal name
							No.	CP1E-NDD
							1	FG
						5 1	2	SD(TXD)
						Ă	3	RD(RXD)
						00000	4	RS(RTS)
						0000	5	CS(CTS)
							6	5V
						9 6	7	DR(DSR)
							8	ER(DTR)
							9	SG(0V)
							Shell	FG
L								

• Built-in RS-485 port

The wiring for the built-in RS-485 port of the CP1E-NDDS1 and the built-in RS-485 port of the CP2E-SDD is the same.

3.3. Expansion Unit and Option Board Wiring

Expansion Units and Option Boards can be replaced as they are.

4. Changing Programs and Settings Using CX-Programmer

Use CX-Programmer to change programs and settings from the CP1E to the CP2E. Use CX-Programmer version 9.72 or later.

4.1. Saving CP1E Programs and Settings

If programs must be transferred from the CP1E being replaced, use CX-Programmer to save the necessary CP1E programs.

4.1.1. Saving User Programs

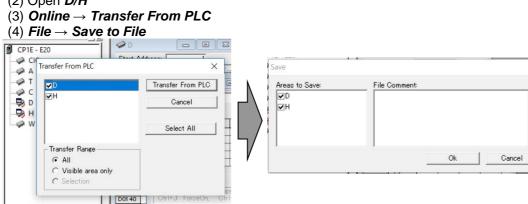
From the menu, click $PLC \rightarrow Transfer \rightarrow Transfer From PLC$, and check all of the boxes as in the following diagram. After the user programs or PLC Setup settings are transferred to the project, save the project.

Upload Options	×
PLC: NewPLC1	OK
Include:	Cancel
🗹 🙀 Program(s)	
🗹 🐻 Settings	
- 🗹 🚍 Symbols	
Comments	

4.1.2. Saving I/O Memory

When the data for the ladder program is set in the I/O memory (DM Area and Holding Area) of the CP1E, it is necessary to copy it to the I/O memory area of the CP1E. Follow the procedure below to save a .mem file.

- (1) Memory
- (2) Open **D/H**



4.2.Converting program

Changing the PLC

Change the PLC model in the CP1E user program from "CP1E" to "CP2E" or "CP2E-N" with the CX-Programmer.

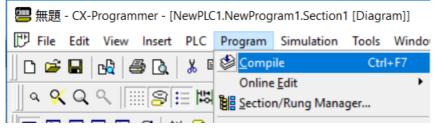
Also set the CPU model.

NewPLC1		
Device Type —		
CP1E	•	Settings
Network Type -		
USB	-	Settings
Comment		< ~

NewPLC1	_	
Device Type	_	
In the second	_	0. mi
CP2E	- 1	Settings
Network Type		1
USB	•	Settings
🖵 Show all		/
Comment		/
	-/	~
	/	~
		Help
OK Cancel		
OK Cancel		
		;
Device Type Settings [CP2E]		;
		;
Pevice Type Settings [CP2E] General		;
levice Type Settings [CP2E]		;

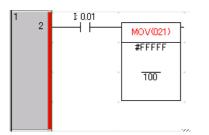
4.3. Checking error and warning report Check for errors after converting to the CP2E.

Select **Program** \rightarrow **Compile** to check the program.



If the Output window shows errors or warnings, check the details for each.

If a ladder rung contains an error, a red line appears down the left-hand side of the rung.



Compile can check the following contents.

- Illegal data
- Instruction support by PLC
- Operand ranges
- Program capacity for PLC
- Syntax
- Ladder diagram structure
- Output duplication
- Tasks

4.4. Modifying Program

If an error occurs, correct the error while referring to the CP2E CPU Unit User's Manual, the CP1E CPU Unit User's Manual, and the CP1E/CP2E Instructions Reference Manual.

Precautions for Correct Use

Some errors may not be detected by the above-mentioned check with *Compile*. Check the entire program to ensure there are no problems with the system, and modify as necessary.

4.5. PLC Setup Changes

Depending on the CP2E model being used for replacement, the CP1E PLC Setup settings may not be transferred. Open the PLC Setup settings for the CP2E, and configure the settings manually. Make sure that the PLC Setup settings have been changed correctly.

When changing models as follows, the PLC Setup settings will be transferred when the PLC model is changed.

Model being replaced: CP1E	Model used for replacement: CP2E	Transferring PLC Setup settings	
CP1E-E	CP2E-E	Carried over	
	CP2E-S, CP2E-N	Cannot be carried over	
CP1E-N	CP2E-E	Cannot be carried over	
	CP2E-S, CP2E-N	Carried over	
Models other than CP1E CS/CJ/CP1H/CP1L	CP2E-E, CP2E-S, CP2E-N	Cannot be carried over	

*: The PLC Setup settings are not transferred even when changing from the CP2E to a different model.

5. Transferring Data

Transfer the programs, settings, and data that have been converted or modified to the CP2E CPU Unit via USB port or Ethernet port.

Set the clock if the timer function will be used.

6. Test Operation

Turn on the power and confirm operation is correct before starting actual operation.

Precautions for Correct Use

After replacement, please perform trial operation before starting actual operation and check that the system operates correctly. If the wiring or settings are not configured correctly, the system may malfunction.

Appendix 1. Specification and Performance Comparison Between CP1E and CP2E

• Functional Specifications

	Item	CP1E E/NDDS-type CPU Units	CP2E E/SDD-type CPU Units	CP1E NDD-type CPU Units	CP2E N□□-type CPU Units
Power sup	ply	AC power supply 100 to 240 VAC DC power supply 24 VDC			
Operation t	emperature	0°C~55°C	-20°C~60°C	0°C~55°C	-20°C~60°C
	ply to external	Only AC power supply	Only AC power supply	Only AC power supply	Only AC power supply
	ervice power)	E/N30/40/60S CPU Unit:	E/S30/40/60 CPU Unit:	N30/40/60 CPU Unit:	N30/40/60 CPU Unit:
		300 mA	300 mA	300 mA	300 mA
			E14/20 CPU Unit: None	N14/20 CPU Unit: None	N14/20 CPU Unit: None
High-speed	d counter inputs	EDDS-type:	Up/down inputs:	Up/down inputs:	N14/20 CPU Unit:
		Up/down or pulse plus	100 kHz × 1 counter	100 kHz × 1 counter	Up/down inputs:
		direction inputs:	10 kHz × 1 counter	10 kHz × 1 counter	100 kHz × 1 counter
		10 kHz × 2 counters	Or	Or	10 kHz × 1 counter
		Or	Pulse plus direction inputs:	Pulse plus direction inputs:	Or
		Differential phases (4x):	100 kHz × 2 counters	100 kHz × 2 counters	Pulse plus direction inputs:
		5 kHz × 2 counters	Or	Or	100 kHz × 2 counters
		Or Increment inpute:	Differential phase inputs (4x)	Differential phase inputs (4x)	Or Differential phase
		Increment inputs: 10 kHz × 6 counters	50 kHz × 1 counter 5 kHz × 1 counter	50 kHz × 1 counter 5 kHz × 1 counter	Differential phase inputs(4×)
		10 kHz × 5 counters (Only for	Or	Or	50 kHz × 1 counter
		10 I/O Points)	Incremental pulse inputs	Incremental pulse inputs	$5 \text{ kHz} \times 1 \text{ counter}$
		10 % 0 1 0	$100 \text{ kHz} \times 2 \text{ counters}$	100 kHz × 2 counters	Or
		NDDS-type:	10 kHz × 4 counters	10 kHz × 4 counters	Incremental pulse inputs
		Up/down inputs:			100 kHz × 2 counters
		100 kHz × 1 counter			10 kHz × 4 counters
		10 kHz × 1 counter			
		Or			N30/40/60 CPU Unit:
		Pulse plus direction inputs:			Up/down or pulse plus
		100 kHz × 2 counters			direction inputs:
		Or Differential phase inputs (4x)			100 kHz × 2 counters,
		Differential phase inputs (4x) 50 kHz × 1 counter			Or Differential phase
		$5 \text{ kHz} \times 1 \text{ counter}$			inputs(4×)
		Or			50 kHz × 2 counters
		Incremental pulse inputs			Or
		100 kHz × 2 counters			Incremental pulse inputs
		10 kHz × 4 counters			100 kHz × 3 counters
					10 kHz × 3 counters
Quick-resp Interrupt in		6 inputs	6 inputs	6 inputs	8 inputs (6 inputs only for 14 I/O points)
Pulse	Pulse output	EDDS-type: Not supported	EDD-type: Not supported	Pulse plus direction only	Pulse plus direction only
outputs	method	NDDS-type: Pulse plus	$S\Box\Box$ -type: Pulse plus	2 axes max.	4 axes max.
(Models	method	direction only	direction only, 2 axes max.	2 0,05 max.	4 0.05 max.
with	Speed control	EDDS-type: Not supported	EDD-type: Not supported	Supported	Supported
transistor		NDDS-type: Supported	SDD-type: Supported		
outputs	Positioning	EDDS-type: Not supported	EDD-type: Not supported	Supported	Supported
only)	°,	NDDS-type: Supported	S□□-type: Supported		
	Origin searches	EDDS-type: Not supported	EDD-type: Not supported	Supported	Supported
	_	N□□S-type: Supported	S□□-type: Supported		
PWM output	uts (Models with	EDDS-type: Not supported	EDD-type: Not supported	1 output	1 output
	utputs only)	N□□S-type: 1 output	S□□-type: 1 output		
Analog I/O		Not supported	Not supported	Supported (Only for NA20)	Not supported
Analog volu	ume	Not supported	Not supported	Supported	Not supported
USB port		Provided.			Not provided
		USB2.0 Full-speed (12M)			
Ethernet po	ort	Not provided			Provided
					With switch function*
Built-in seri	iol.	EDDS-type: Not provided	Provided.	Provided.	* N14/20 is not supported. Not provided
communica		NDDS-type: RS-232C	EDD-type: RS-232C	NDD-type: RS-232C	Provided by installing Option
communica		NDDS1-type: RS-232C and	SDD-type: RS-232C and	Паш-туре. Ко-2320	Board.
		RS-485	RS-485		Board.
Serial optio	n board	Not provided		N14/20 CPU Unit: None	N14/20 CPU Unit: 1 slot
				N30/40/60 CPU Unit: 1 slot	N30/40/60 CPU Unit: 2 slots
Serial	Baud rate	1200/2400/4800/9600/19.2k/38	3.4k/57.6k/115.2k		
communi-	Supported	Host Link	Host Link	Host Link	Host Link*
cation	protocol	• 1:N NT Link	• 1:N NT Link	• 1:N NT Link	 1:N NT Link*
protocols		 No-protocol mode 	 No-protocol mode 	 No-protocol mode 	 No-protocol mode
		 Serial PLC Links (master, 	 Serial PLC Links (master, 	 Serial PLC Links (master, 	 Serial PLC Links (master,
		slave)	slave)	slave)	slave)
		 Modbus-RTU easy master 	Modbus-RTU Easy Master	 Modbus-RTU easy master 	Modbus-RTU Easy Master
			Modbus-RTU Slave		Modbus-RTU Slave
		1			* PORT1 (EX) is not supported.

Item	CP1E E/N□□S-type CPU Units	CP2E E/SDD-type CPU Units	CP1E NDD-type CPU Units	CP2E NDD-type CPU Units
Option Boards that can be mounted	Cannot be mounted.			Serial Communication Option Board with one port • RS232C Option Board CP1W-CIF01 • RS-422A/485 Option Board CP1W-CIF11/CIF12-V1 Serial Communication Option Board with two ports*1 • RS232C Option Board CP2W-CIFD1 • RS232C & RS-485 Option Board CP2W-CIFD2 • RS-485 Option Board CP2W-CIFD3 Analog Option Board*2 CP1W-MAB221/ ADB21/ DAB21/ *1 CP2W-CIFDI can only be mounted on option slot 1. *2 Maximum one Analog Option Board can be mounted on an N□□-type CPU Unit.
Memory backup	Built-in EEPROM: Contains the user programs, parameters, DM Area initial values and comment files Built-in SRAM (Battery backup): DM/HR/CNT/AR Data memory	Built-in Flash Memory: Contains the user programs, parameters, DM Area initial values and comment files Built-in non-volatile memory (Batteryless backup): DM/HR/CNT/AR Data memory	Built-in EEPROM: Contains the user programs, parameters, DM Area initial values and comment files Built-in SRAM (Battery backup): DM/HR/CNT/AR Data memory	Built-in Flash Memory: Contains the user programs, parameters, DM Area initial values and comment files Built-in non-volatile memory (Batteryless backup): DM/HR/CNT/AR Data memory
Clock	area E□□S-type: Not supported N□□S-type: Supported	area EDD-type: Not supported SDD-type: Supported	area Supported	area Supported

Item	CP1E CPU Units	CP2E CPU Units
Program capacity	EDD-type: 2K steps	EDD-type: 4K steps
	N□□-type: 8K steps	S□□-type: 8K steps
		N□□-type: 10K steps
FB capacity	Not provided	EDD-type: 4K steps
		S□□-type: 8K steps
		NDD-type: 10K steps
Program language	Ladder diagram	Ladder diagram
Function blocks	Not provided	Maximum number of function block definitions: 64
		Maximum number of instances: 128
		Languages usable in function block definitions: Ladder
l	Anneximately 000	diagrams, structured text (ST)
Instructions	Approximately 200	Approximately 220
Instruction execution times	LD: 1.19 µs	LD: 0.23 µs
	MOV: 7.9 μs 17	MOV: 1.76 μs 17
Number of tasks		• 1 cyclic task
	 1 cyclic task 16 interrupt tasks 	1 Gyclic task 16 interrupt tasks
Maximum subroutine number	128	128
	128	128
Maximum jump number	120	128
Scheduled interrupt tasks CIO Area		
CIO Area	4,640 bits (290 words)	4,640 bits (290 words)
) / / / (/)	CIO 0.00 to CIO 289.15 (CIO 0 to CIO 289) 1,600 bits (100 words)	CIO 0.00 to CIO 289.15 (CIO 0 to CIO 289) 2,048 bits (128 words)
Work Area (W)	W0.00 to W99.15 (W0 to W99)	2,048 bits (128 words) W0.00 to W127.15 (W0 to W127)
	800 bits (50 words)	2048 bits (128 words)
Holding Area (H)	H0.00 to H49.15 (H0 to H49)	H0.00 to H127.15 (H0 to H127)
Auxiliary Area (A)	Read-only: 7,168 bits (448 words)	Read-only: 7,168 bits (448 words)
Auxiliary Alea (A)	A0.00 to A447.15 (A0 to A447)	A0.00 to A447.15 (A0 to A447)
	Read/write: 4,896 bits (306 words)	Read/write: 8,192 bits (512 words)
	A448.00 to A753.15 (A448 to A753)	A448.00 to A959.15 (A448 to A959)
Temporary Area (TR)	16 bits: TR0 to TR15	16 bits: TR0 to TR15
Counter Area (C)	256 timer numbers: T0 to T255	256 timer numbers: T0 to T255
Timer Area (T)	256 counter numbers: C0 to C255	256 counter numbers: C0 to C255
Data Memory Area (D)	EDD-type: 2K words D0 to D2047	EDD-type: 4K words D0 to D4095
	$N\Box\Box$ -type: 8K words D0 to D8191	SDD-type: 8K words D0 to D8191
		$N\Box$ -type: 16K words D0 to D16383
Data Registers (DR)	Not provided	16 registers: DR0 to DR15
Index Registers (IR)	Not provided	16 registers: IR0 to IR15

Appendix 2. Expansion Units, Option Boards, Cables, Batteries

• CP1W Expansion Unit

The CP1W Expansion Unit can be used with the CP2E.

Product	CP1W Expansion Unit	Remarks
I/O Unit with 40 I/O points	CP1W-40EDR1	
	CP1W-40EDT	
	CP1W-40EDT1	
I/O Unit with 20 I/O points	CP1W-20EDR1	
	CP1W-20EDT	
	CP1W-20EDT1	
Input Unit with 8 inputs	CP1W-8ED	
Output Unit with 8 outputs	CP1W-8ER	
	CP1W-8ET	
	CP1W-8ET1	
Output Unit with 16 outputs	CP1W-16ER	
	CP1W-16ET	
	CP1W-16ET1	
Output Unit with 32 outputs	CP1W-32ER	
	CP1W-32ET	
	CP1W-32ET1	
Analog Input Unit	CP1W-AD041	
	CP1W-AD042	
	CP1W-DA021	
Analog Output Unit	CP1W-DA041	
	CP1W-DA042	
Analog I/O Unit	CP1W-MAD11	
	CP1W-MAD42	
	CP1W-MAD44	
Temperature Sensor Unit	CP1W-TS001	
	CP1W-TS002	
	CP1W-TS003	
	CP1W-TS004	
	CP1W-TS101	
	CP1W-TS102	

Option Boards

All CP1W Option Boards except the CP1W-CIF41/DAM01 can be used with the CP2E.

Product	CP1W Expansion Unit	Remarks
Option Boards	CP1W-CIF01	
	CP1W-CIF11	
	CP1W-CIF12-V1	
	CP2W-CIFD1	For CP2E
	CP2W-CIFD2	For CP2E
	CP2W-CIFD3	For CP2E
	CP1W-ADB221	
	CP1W-DAB21V	
	CP1W-MAD221	
	CP1W-CIF41	Cannot be used
	CP1W-DAM01	Cannot be used

• Others

Compatible batteries have changed from the CP1E.

Product	CP1W Expansion Unit	Remarks
Battery	CP2W-BAT02	The CP1W-BAT01 cannot be used.
Extension cable	CP1W-CN811	

Appendix 3. PC System Setting Examples for Transitioning from CP1W-CIF41 to CP2E-NDD The CP1W-CIF41 cannot be used with the CP2E. Use the built-in Ethernet function of the CP2E-NDD.

Madal haing rankand, CD1W/CIE41	Madel used for replacements CD2E NIDE
Model being replaced: CP1W-CIF41 Web browser settings screen	Model used for replacement: CP2E-NDD PLC Setup settings screen
Ethernet Settings	Ethernet Settings
OMRON Ethernet	Built-in Ethernet Tab
Option Board	PLC Settings - NewPLC1 - X
[Settings]	File Options Help
	Built-in Input Pulse Output 0 Pulse Output 1 Pulse Output 2 Pulse Output 3 Built-in Ethernet
Menu	IP Router Table
1 IP Address and Protocols	IP Address 192.158.250.1
• System	Sub-net Mask 255 . 255 . 0
2. IP Address/Router Table	FINS Node No.
o IP Address Table	Node No. 1 O All 0 (4.28SD)
o <u>IP Router Table</u> 3. FINS/TCP	
<u>Connection</u>	0 min [0: De fault(1 20)]
1. IP Address and Protocols \rightarrow System	
System Format	FINS/TCP Setting FINS/UDP Setting DNS Setting Clock Auto Adjustment
Parameter Value	
IP Address 192 . 188 . 250 . 1 Subnet Mask 255 . 255 . 255 . 0	
FINS Node Address 1 [0: default(1)]	
FINS/UDP Port Use Input Port No [Default(9600)]	
FINS/TCP Port 0 Use Input Port No [Default(9600)]	
Auto (Dummio) Auto (Statio)	
Address Conversion Mode Okato (Synamic) O Addo (Synamic)	
FINS/UDP Option Obstination IP address is changed dynamically. Obstination IP address is Not changed dynamically.	
Broadcast Option All '1' (43BSD) OAll '0' (42BSD)	
FINS/TCP Protected Use FINS/TCP Protection Function	
Transfer Cancel Restart	
Transiter Caricer nestarc	
IP Router Table Settings	IP Router Table Settings
OMRON Ethernet	Built-in Ethernet Tab \rightarrow Ins under IP Router Table
Option Board	The settings - NewPLC1 - X
[Settings]	File Options Help Built-in Input Pulse Output 0 Pulse Output 1 Pulse Output 2 Pulse Output 3 Built-in Ethernet + +
Menu	PAdress Protection Protection Protection
1. IP Address and	IP Address 192.168.250.1
Protocols	Sub-net Mask, 255.255.255.0
• <u>System</u> • <u>HTTP</u>	FINS Node No.
2. IP Address/Router Table	Node No. [1] (7 Al 1 (4285D) (7 Al 0 (4285D)
IP Address Table IP Router Table	TCP/IP keep-alive 0 min [0: DefineIR0 203]
3. FINS/TCP <u>Connection</u>	
	FINS/TCP Setting FINS/UCP Setting DNS Setting Clock Auto Adjustment
2. IP Address/Router Table \rightarrow IP Router Table	
IP Router Table	Insert Router IP Address X
Setting Form	IP Address I
Parameter Value	Router's IP Address
P Network Address	OK
Router IP Address	Coveral
Houter IF Address	Cancel
	Cancel
Transfer Cancel Restart	Cancel
	Cancel
Transfer Cancel Restart Setting List	Cancel
Transfer Cancel Restart	Cancel
Transfer Cancel Restart Setting List	Cancel

Model being replac	ed: CP1W-CIF41	Model used for replacement: CP2E-NDD	
Web browser settir	ngs screen	PLC Setup settings screen	
FINS/TCP Settings		FINS/TCP Settings	
OMRON Ethernet Option Board		Built-in Ethernet Tab → FINS/TCP Setting	
[Settings]		FINS/TCP X	
Menu		C Default (9600) C User defined 0	
1. IP Address and Protocols o <u>System</u> o <u>HTTP</u> 2. IP Address/Router Table o IP Router Table 3. FINS/TCP o <u>Connection</u> 1. IP Address pand	Protocols → System	FINS/TCP Connection Setting Con. Server /Client Destination. Auto-alloca. keep-alive Edit PINS/TCP Server	
System Format		FINS/TCP Connection Setting	
Parameter	Value	FINS/TCP Connection No. 1	
IP Address	192 168 250 1	FINS/TOP Server /Olient FINS/TOP Server C Client	
Subnet Mask	255 . 255 . 255 . 0	Destination IP Address 0 . 0 . 0	
FINS Node Address	1 [0: default(1)]	Auto-allocated FINS node address 0	
FINS/UDP Port	Use Input Port No [Default(9600)]	☐ keep-alive	
FINS/TCP Port	0 Use Input Port No [Default(9600)]	OK Cancel	
Address Conversion Mode	● Auto (Dynamic) ○ Auto (Static) ○ Manual ○ Auto & Manual	The CP1W-CIF41 supports FINS/TCP servers only, so	
FINS/UDP Option	Destination IP address is changed dynamically. Destination IP address is Not changed dynamically.	make sure to check Server . • The CP1W-CIF41 does not support the keep-alive	
Broadcast Option	● All '1' (43BSD) ● All '0' (42BSD)	function. Check this option if the function is required.	
FINS/TCP Protected	Use FINS/TCP Protection Function		
Transfer Cancel Restart]		
3. FINS/TCP \rightarrow CC FINS/TCP Connection Setu	ρ		
1 EINS/TCP Server	Value ddress 0 0 0 0 -alccated FINS Node 251		
2 FINS/TCP Server	Idress 0 0 0 0		
Transfor Cancel Restart			

Model being replace	ed: CP1W-CIF41	Model used for replaceme	nt: CP2E-NDD
Web browser settir		PLC Setup settings screer	
FINS/UDP Settings		FINS/UDP Settings	
OMRON Ethernet		Built-in Ethernet Tab \rightarrow F	FINS/UDP Setting
Option Board		Settings - NewPLC1	- 0 ×
[Settings]		File Options Help Built-in Input Pulse Output 0 Pulse Output 1 Pulse Output 1	2 Puise Output 3 Built-in Ethernet 4 +
		PIP Address	
Menu		IP Address 192 .168 .250 . 1	Ins
 IP Address and Protocols 		Sub-net Mask 255 . 255 . 255 . 0	Def
o <u>System</u>		FINS Node No. Broadcast	
o <u>HTTP</u> 2. IP Address/Router		Node No. 1	
o IP Address Table		TCP/IP keep-alive	
o IP Router Table		0 min [0: De fiveH0 20)]	
 FINS/TOP <u>Connection</u> 		FINS/TOP Setting FINS/UDP Setting DN	S Setting Clock Auto Adjustment
1. IP Address and	Protocols → System	FINS/UDP	×
System Format		EINS/LIDP. Part FINS/LIDP	
Parameter	Value	(* Default (9600) (* Destin	ation IP is changed dynamically
IP Address	192 168 250 1	C User defined 0 C Destin	ation IP is Not changed dynamically
Subnet Mask	255 255 255 0	Conversion IP Address	Table
FINS Node Address	1 [0. default(1)]	Auto (dynamic) Auto (Static)	fris
FINS/UDP Port	Use Input Port No [Default(9600)]	C Combined	Del
FINS/TOP Port	0 Use Input Port No [Default(9600)]	1 ir aduress table	
Address Conversion Mode	● Auto (Dynamic) ○ Auto (Static) ○ Manual ○ Auto & Manual	L L	ОК
FINS/UDP Option	Destination IP address is changed dynamically. Destination IP address is Not changed dynamically.	Insert IP Address	+
Broadcast Option	● All '1' (43BSD) ○ All '0' (42BSD)	Node Address	
FINS/TCP Protected	Use FINS/TCP Protection Function	IP Address	
Transfer Cancel Restart		OK	
Conver Conver		Cancel	
2 IP Address/Pou	Iter Table $ ightarrow$ IP Address Table		
IP Address Table			
Setting Form			
Parameter	Value		
	nge: 1 - 254]		
IP Address			
Transfer Cancel Restart			
Setting List			
No FINS Node Address	IP Address		
01 V Show Delete			

OMRON Corporation Industrial Automation Company Tokyo, JAPAN

Contact: www.ia.omron.com

Regional Headquarters OMRON EUROPE B.V. Wegalaan 67-69, 2132 JD Hoofddorp The Netherlands Tel: (31)2356-81-300/Fax: (31)2356-81-388

OMRON ASIA PACIFIC PTE. LTD. No. 438A Alexandra Road # 05-05/08 (Lobby 2), Alexandra Technopark, Singapore 119967 Tel: (65) 6835-3011/Fax: (65) 6835-2711

OMRON ELECTRONICS LLC 2895 Greenspoint Parkway, Suite 200 Hoffman Estates, IL 60169 U.S.A Tel: (1) 847-843-7900/Fax: (1) 847-843-7787

OMRON (CHINA) CO., LTD. Room 2211, Bank of China Tower, 200 Yin Cheng Zhong Road, PuDong New Area, Shanghai, 200120, China Tel: (86) 21-5037-2222/Fax: (86) 21-5037-2200

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