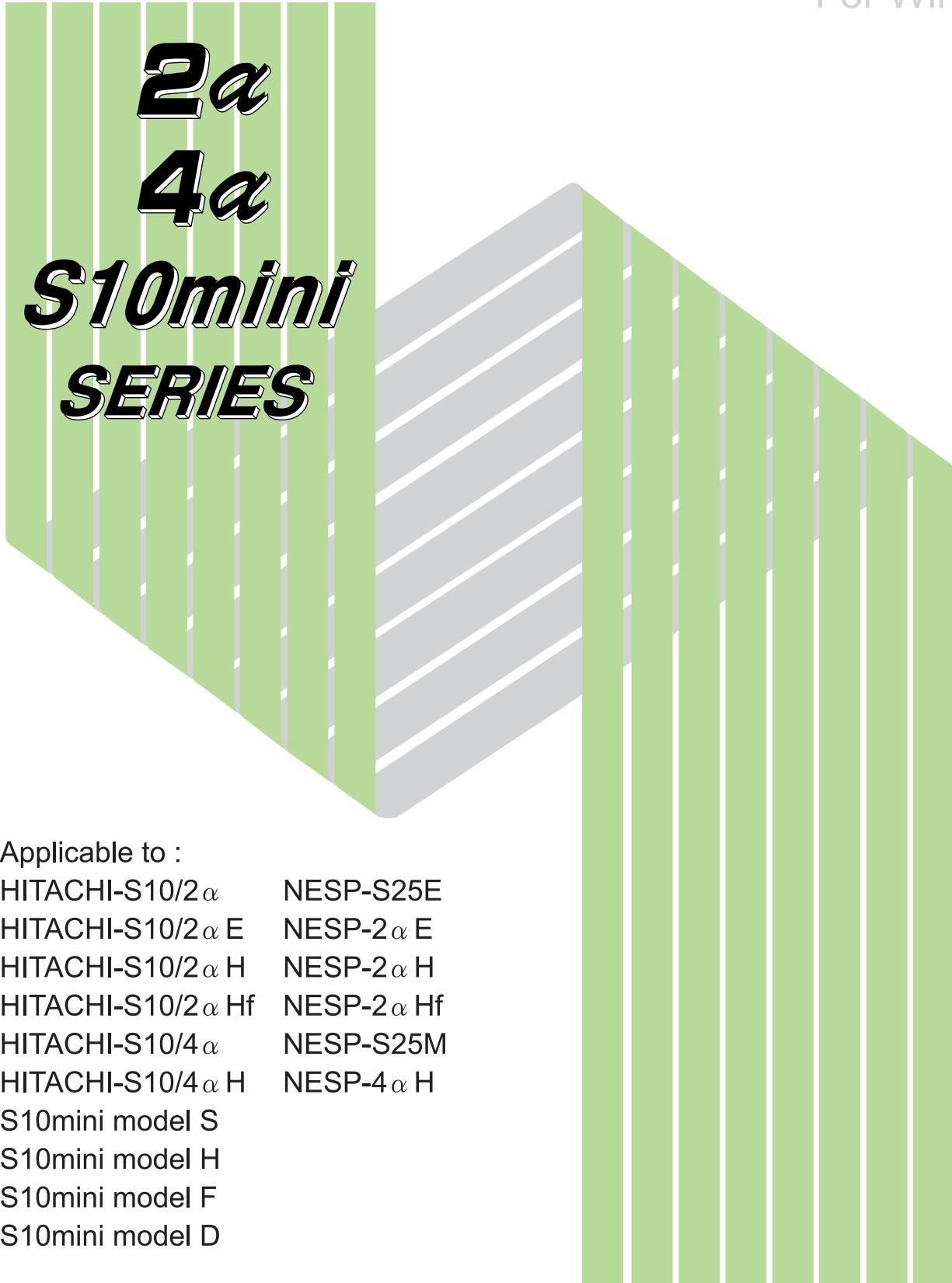


**HITACHI**  
**S10 $\alpha$  SERIES**

SOFTWARE MANUAL  
OPERATION

LADDER COMMENT CONVERTER  
For Windows<sup>®</sup>



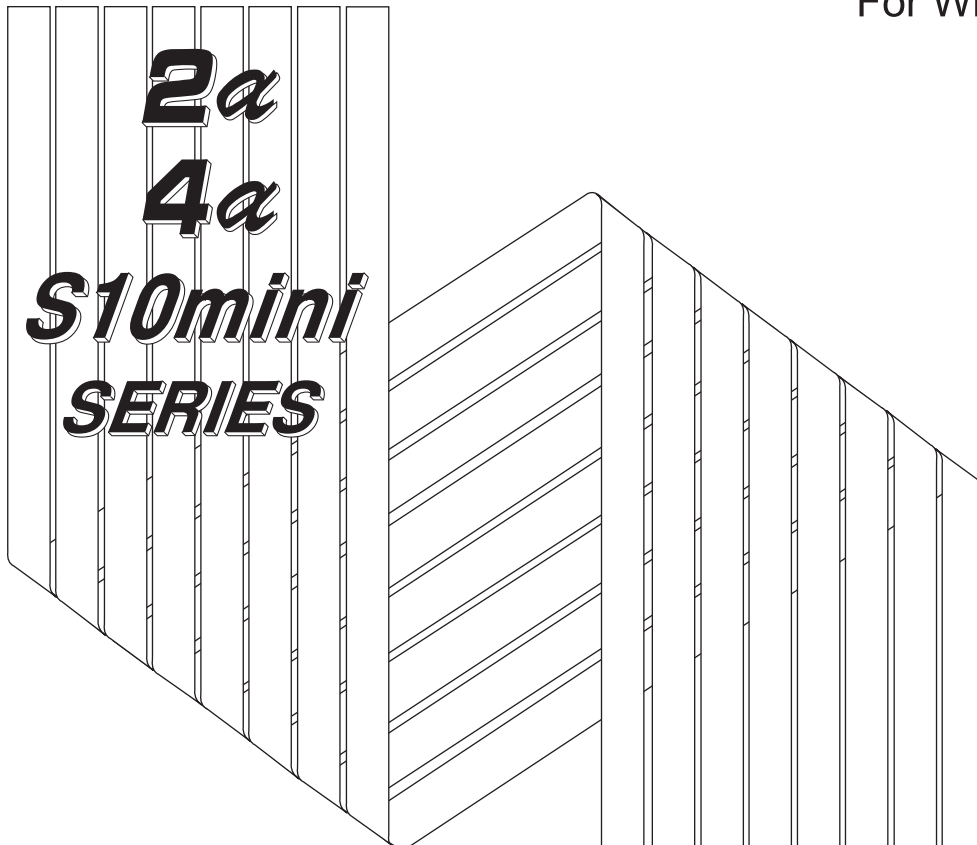
Applicable to :

HITACHI-S10/2 $\alpha$	NESP-S25E
HITACHI-S10/2 $\alpha$ E	NESP-2 $\alpha$ E
HITACHI-S10/2 $\alpha$ H	NESP-2 $\alpha$ H
HITACHI-S10/2 $\alpha$ Hf	NESP-2 $\alpha$ Hf
HITACHI-S10/4 $\alpha$	NESP-S25M
HITACHI-S10/4 $\alpha$ H	NESP-4 $\alpha$ H
S10mini model S	
S10mini model H	
S10mini model F	
S10mini model D	



SOFTWARE MANUAL  
OPERATION

LADDER COMMENT CONVERTER  
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Applicable to :

HITACHI-S10/2 $\alpha$	NESP-S25E
HITACHI-S10/2 $\alpha$ E	NESP-2 $\alpha$ E
HITACHI-S10/2 $\alpha$ H	NESP-2 $\alpha$ H
HITACHI-S10/2 $\alpha$ Hf	NESP-2 $\alpha$ Hf
HITACHI-S10/4 $\alpha$	NESP-S25M
HITACHI-S10/4 $\alpha$ H	NESP-4 $\alpha$ H
S10mini model S	
S10mini model H	
S10mini model F	
S10mini model D	

**HITACHI**

## **NOTE**

All information in this manual is based on the latest product information available at the time of printing. Hitachi has reviewed the accuracy of this manual, but assumes no responsibility for any omissions or errors which may appear. The design of the product is under constant review and, while every effort is made to keep this manual up to date, the right is reserved to change specifications and equipment at any time without prior notice.

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## **SAFETY PRECAUTIONS**

- Read this manual thoroughly and follow all the safety precautions and instructions given in this manual before operations such as system configuration and program creation.
- Keep this manual handy so that you can refer to it any time you want.
- If you have any question concerning any part of this manual, contact your nearest Hitachi branch office or service engineer.
- Hitachi will not be responsible for any accident or failure resulting from your operation in any manner not described in this manual.
- Hitachi will not be responsible for any accident or failure resulting from modification of software provided by Hitachi.
- Hitachi will not be responsible for reliability of software not provided by Hitachi.
- Make it a rule to back up every file. Any trouble on the file unit, power failure during file access or incorrect operation may destroy some of the files you have stored. To prevent data destruction and loss, make file backup a routine task.
- Furnish protective circuits externally and make a system design in a way that ensures safety in system operations and provides adequate safeguards to prevent personal injury and death and serious property damage even if the product should become faulty or malfunction or if an employed program is defective.
- If an emergency stop circuit, interlock circuit, or similar circuit is to be formulated, it must be positioned external to the programmable controller. If you do not observe this precaution, equipment damage or accident may occur when the programmable controller becomes defective.
- Before changing the program, generating a forced output, or performing the RUN, STOP, or like procedure during an operation, thoroughly verify the safety because the use of an incorrect procedure may cause equipment damage or other accident.



## **“RUN/STOP” SWITCH CAUTION**

The “RUN/STOP” switch only stops execution of the ladder logic program or HI-FLOW program. Digital and analog outputs are left in the active state when execution stops, unless the optional rungs described in the CPU manual have been added. The “RUN/STOP” switch does not affect the operation of C-language or FA-BASIC language programs. Outputs can still be produced in response to C-language or FA-BASIC programs, or by the action of programmers typing in commands in these languages, while the “RUN/STOP” switch is in the “STOP” position.

**DO NOT DEPEND ON THE STOP SWITCH TO STOP MOVING PARTS OR TO PREVENT UNEXPECTED MOTION OR ENERGIZATION. USE HARDWIRED SAFETY DISCONNECT AND LOCK OUT POWER AND CONTROL VOLTAGES BEFORE WORKING ON ELECTRICAL CIRCUITS OR PARTS THAT CAN MOVE.**

## PREFACE

We greatly appreciate your purchase of this ladder comment converter.

This system running on a personal computer converts comment files generated by the DOS version of the ladder chart system to comment files for the Windows® version of the ladder chart system and vice versa.

This manual describes the operating procedures for the ladder comment converter system. This manual is applicable to the following system versions.

System name/version
LADDER COMMENT CONVERTER SYS For Windows® 06-01

System versions 05-00 and earlier do not support the Microsoft® Windows® 98 operating system. They support the Microsoft® Windows® 95 operating system only.

### <Related manuals>

- SOFTWARE MANUAL OPERATION S10Tools For Windows® V7  
(Manual number SAE-3-120)
- SOFTWARE MANUAL OPERATION LADDER CHART For Windows® V7  
(Manual number SAE-3-131)

See the following list when you use the NESP  
(Nissan Electronic Sequence Processor) series.

【HITACHI-S10α series】		【NESP series】
HITACHI-S10/2α	.....	NESP-S25E
HITACHI-S10/2αE	.....	NESP-2αE
HITACHI-S10/2αH	.....	NESP-2αH
HITACHI-S10/2αHf	.....	NESP-2αHf
HITACHI-S10/4α	.....	NESP-S25M
HITACHI-S10/4αH	.....	NESP-4αH

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## Systems Supported by Windows® 2000 and Windows® XP

The systems supported by Microsoft® Windows® 2000 operating system (hereafter abbreviated as Windows® 2000) and Microsoft® Windows® XP operating system (hereafter abbreviated as Windows® XP) are shown in the following table.

Systems of earlier versions than those shown in the following table are not supported by Windows® 2000 and Windows® XP but supported by only Microsoft® Windows® 95 operating system (hereafter abbreviated as Windows® 95) and Microsoft® Windows® 98 operating system (hereafter abbreviated as Windows® 98). (The system names in the following table are hereafter abbreviated as each system.)

<Table of Systems Supported by Windows® 2000 and Windows® XP>

No.	System name	Type	Version	Windows® 2000	Windows® XP
1	S10Tools SYSTEM	S-7890-01	07-05	√	√
2	LADDER CHART SYSTEM	S-7890-02	07-05	√	√
3	HI-FLOW SYSTEM	S-7890-03	07-02	√	√
4	CPMS LOADING SYSTEM	S-7890-04	07-04	√	√
5	CPMSE LOADING SYSTEM	S-7890-05	07-04	√	√
6	CPMS DEBUGGER SYSTEM	S-7890-06	07-02	√	√
7	CPMSE DEBUGGER SYSTEM	S-7890-07	07-02	√	√
8	GP-IB LOADING SYSTEM	S-7890-08	07-01	√	√
9	BACKUP RESTORE SYSTEM	S-7890-09	08-01	√	√
10	RPDP/S10 SYSTEM	S-7891-10	03-03	√ (*2)	ns (*1)
11	NX/Tools-S10 SYSTEM	S-7890-13	07-02	√	√
12	4α LADDER CHART SYSTEM	S-7890-17	07-05	√	√
13	4αH LADDER CHART SYSTEM	S-7890-18	07-05	√	√
14	LADDER COMMENT CONVERTER SYS	S-7890-19	06-01	√	√
15	HIGH SPEED REMOTE I/O SYSTEM	S-7890-21	07-01	√	√
16	CPU LINK SYSTEM	S-7890-22	07-01	√	√
17	4ch ANALOG PULSE COUNTER SYS	S-7890-23	07-01	√	√
18	EXTERNAL SERIAL LINK SYSTEM	S-7890-24	07-02	√	√
19	S10ET LINK SYSTEM	S-7890-25	07-02	√	√
20	J.NET SYSTEM	S-7890-27	07-02	√	√
21	OD.RING/SD.LINK SYSTEM	S-7890-28	07-03	√	√
22	ET.NET SYSTEM	S-7890-29	07-01	√	√
23	FL.NET SYSTEM	S-7890-30	07-03	√	√
24	D.NET SYSTEM	S-7890-31	07-04	√	√
25	LADDER CHART MONITOR SYSTEM	S-7890-34	07-04	√	√
26	HI-FLOW MONITOR SYSTEM	S-7890-35	07-01	√	√
27	IR.LINK SYSTEM	S-7890-36	07-02	√	√
28	Crossing C compiler (manufactured by Mentor graphics company)	MCP68K	5.3	√ (*2)	ns (*1)

√: Supported ns: Not supported

(\*1) Crossing C compiler (No.28) is not supported by Windows® XP. Use it on Windows® 2000.

(\*2) Crossing C compiler (No.28) must be a version supported by Windows® 2000 (later than version 5.3) as a premise.

<Definitions of Terms>

- N coil: A ladder program converted into a form that can be run on the PCs by pasting a symbol on the sheet displayed on a PC.
- Process: A HI-FLOW program converted into a form that can be run on the PCs by pasting a symbol on the sheet displayed on a PC.
- Compile: To convert an application program such as a ladder chart and HI-FLOW into a form (N coil, process, etc.) that can be run on the PCs.
- Build: To compile only a corrected application program.
- Rebuild: To compile every existing application program.
- Sheet: Paper to prepare an application program of ladder chart and HI-FLOW, etc. This paper is controlled on a PC.
- PCs: An abbreviation of Programmable Controllers.  
This is a general term for PLC such as the S10 $\alpha$  and S10mini series.
- PLC: An abbreviation of Programmable Logic Controller.  
This is an industrial electronic device to exert sequence control, having an incorporated program.  
The S10 $\alpha$  and S10mini series come under this PLC.

<Note for storage capacity calculations>

- Memory capacities and requirements, file sizes and storage requirements, etc. must be calculated according to the formula  $2^n$ . The following examples show the results of such calculations by  $2^n$  (to the right of the equals signs).  
1 KB (kilobyte) = 1024 bytes  
1 MB (megabyte) = 1,048,576 bytes  
1 GB (gigabyte) = 1,073,741,824 bytes
- As for disk capacities, they must be calculated using the formula  $10^n$ . Listed below are the results of calculating the above example capacities using  $10^n$  in place of  $2^n$ .  
1 KB (kilobyte) = 1000 bytes  
1 MB (megabyte) =  $1000^2$  bytes  
1 GB (gigabyte) =  $1000^3$  bytes



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# 1 BEFORE USE

## 1 BEFORE USE

---

This manual is intended for personal computer programmers using the Windows®.

### 1.1 System Overview

The ladder comment converter for Windows® or, simply, the comment converter converts comment files generated by the DOS version of the ladder chart system to those for the Windows® version of the ladder chart system. It also effects reverse conversion. The operating procedures to be performed to effect such conversions are equivalent to those for general Windows applications.

<b>NOTICE</b>
Users of this product require knowledge of the Windows® environment and user interface. The ladder comment converter system conforms to the Windows® standard. This manual is intended for users who have mastered the basic usage of Windows®.

## 1.2 Hardware and Software Requirements

Using each system requires the following hardware and software.

<Personal Computers (hereafter abbreviated as PC)>

Item	OS	Windows® 95 (*1) Windows® 98 (*1)	Windows® 2000 (*1)	Windows® XP (*1) (*2)
	CPU		Pentium 133 MHz or more	Pentium 300 MHz or more
Memory (RAM)		32 MB or more	64 MB or more	128 MB or more
Free hard disk capacity (*3)		20 MB or more/system (However, 10 MB or more/system for OS loading and option module support software)		
Floppy disk drive		1 unit or more (required to install software by FD)		
CD-ROM drive		1 unit or more (required to install software by CD-ROM)		
Ethernet (10BASE-T)		1 port or more (required to connect a PC with the ET.NET module)		
Serial (D-sub 9-pin)		1 port or more (required to connect the PCs with a PC by RS-232C or set an IP address for the ET.NET module)		
PC card (conforming to the PC Card Standard (JEITA V4.2) TYPE II or TYPE III)		1 slot or more (required to connect a PC with the parallel interface module (LWZ400). At this time, the following GP-IB card is also required.) GP-IB card: PCMCIA-GPIB (Model: 777438-02) (manufactured by National Instruments Corporation)		
Display		Resolution of 800 × 600 pixels or more		
Microsoft® Internet Explorer		Version 4.01 or later		

(\*1) For the OS service pack, refer to the attached reference materials for software.

(\*2) No.10 and No.28 in <Table of Systems Supported by Windows® 2000 and Windows® XP> in “PREFACE” are excepted.

(\*3) This is a capacity required to install each system. A free capacity to save user programs is also required.

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## **2    INSTALLATION**

## 2 INSTALLATION

---

### 2.1 Installing the System (\*)

First, check if your CD is correct.

To install each system, double-click the Setup.exe file saved in the DISK1 folder of the system CD. After installing it, an installed program window is not displayed.

To install each system, install Microsoft® Internet Explorer 4.01 or later. If it is not installed, install each system after installing it.

#### NOTE

- To operate each system, install Microsoft® Internet Explorer 4.01 or later. If it is not installed, each system does not operate normally.
- Before installing each system, be sure to terminate such a program residing in the memory as virus monitoring software. If each system is installed without terminating the program, an error may occur. In this case, uninstall the system by referring to “2.2 Uninstalling the System” and terminate all Windows® programs. Then, install each system once again.
- To install and uninstall each system by using Windows® 2000, set “Administrator” or “Member of Administrators” as the user account to be logged on.
- To install and uninstall each system by using Windows® XP, set “Computer administrator” as the user account to be logged on. If “Account with limitations” is set, each system does not operate normally.

(\*) No.10 and No.28 in <Table of Systems Supported by Windows® 2000 and Windows® XP> in “PREFACE” are excepted.

## 2.2 Uninstalling the System (\*)

To uninstall each system for version-up, observe the following procedure.

### (1) Uninstalling from Windows® 95 or Windows® 98

Open [Settings] in the [Start] menu – [Control Panel]. Double-click [Add/Remove Programs], select “Each System” by the [Install/Uninstall] tab, and click the  button. When the [Confirm File Deletion] window is displayed, click the  button.

### (2) Uninstalling from Windows® 2000

Open [Settings] in the [Start] menu – [Control Panel]. Double-click [Add/Remove Programs], click [Change or Remove Programs], select “Each System,” and click the  button. When the [Confirm File Deletion] window is displayed, click the  button.

### (3) Uninstalling from Windows® XP

Open ([Settings] – ) [Control Panel] in the [Start] menu. Double-click [Add or Remove Programs], click [Change or Remove Programs], select “Each System,” and click the  button. When the [Confirm File Deletion] window is displayed, click the  button.

When a shortcut of each system executable file has been created on the desktop, etc. delete this shortcut.

#### NOTE

- When the [Remove Shared File?] window is displayed while each system is uninstalled on Windows®, click  not to delete the shared file.
- To install and uninstall each system by using Windows® 2000, set “Administrator” or “Member of Administrators” as the user account to be logged on.
- To install and uninstall each system by using Windows® XP, set “Computer administrator” as the user account to be logged on.
- If the [Add/Remove Programs] window is locked (inoperable) when each system is uninstalled by using Windows® 2000, log off from [Shut Down] in the [Start] menu of Windows®, and then log on again on the [Log On to Windows] window.

(\*) No.10 and No.28 in <Table of Systems Supported by Windows® 2000 and Windows® XP> in “PREFACE” are excepted.



## 2 INSTALLATION

### 2.3 Starting Up the System (\*)

- (1) The system to be installed by each system is automatically registered in the [Start] menu of Windows®. From this [Start] menu, select [Programs (All Programs)] – [Hitachi S10] – “Each System” to start the system.

If the logged-on user name in installing each system is different from the user name in starting each system, each system is not displayed in the [Start] menu. In this case, create a shortcut of the executable file (extension .exe) for each system shown below and then double-click this shortcut to start each system.

<Executable File Storage Directory Table>

No.	System name	Type	Executable file storage directory (*1)	Executable file name
1	S10Tools SYSTEM	S-7890-01	C:\Hitachi\S10	S10Ladder.exe
				S10Tool.exe
2	LADDER CHART SYSTEM	S-7890-02	C:\Hitachi\S10\2ALDC	S10Ladder.exe
3	HI-FLOW SYSTEM	S-7890-03	C:\Hitachi\S10\HF	S10Tool.exe
4	CPMS LOADING SYSTEM	S-7890-04	C:\Hitachi\S10\CPMS	Cpms.exe
5	CPMSE LOADING SYSTEM	S-7890-05	C:\Hitachi\S10\CPMSE	Cpmse.exe
6	CPMS DEBUGGER SYSTEM	S-7890-06	C:\Hitachi\S10\DEBUG	Debugger.exe
7	CPMSE DEBUGGER SYSTEM	S-7890-07	C:\Hitachi\S10\DEBUGE	DebuggerE.exe
8	GP-IB LOADING SYSTEM	S-7890-08	C:\Hitachi\S10\GPIB	Gpib.exe
9	BACKUP RESTORE SYSTEM	S-7890-09	C:\Hitachi\S10\BACKUP	SysAllSaveLoad.exe
10	NX/Tools-S10 SYSTEM	S-7890-13	C:\Hitachi\S10\NX	NXTool.exe
11	4α LADDER CHART SYSTEM	S-7890-17	C:\Hitachi\S10\4ALDC	S10Ladder_4A.exe
12	4αH LADDER CHART SYSTEM	S-7890-18	C:\Hitachi\S10\4AHLDC	S10Ladder_4AH.exe
13	LADDER COMMENT CONVERTER SYS	S-7890-19	C:\Hitachi\S10\CFCONV	Cfconv.exe
14	HIGH SPEED REMOTE I/O SYSTEM	S-7890-21	C:\Hitachi\S10\HISRIO	HiSpeedRIO.exe
15	CPU LINK SYSTEM	S-7890-22	C:\Hitachi\S10\CPULINK	CpuLink.exe
16	4ch ANALOG PULSE COUNTER SYS	S-7890-23	C:\Hitachi\S10\ANALOG	AnalogPuls.exe
17	EXTERNAL SERIAL LINK SYSTEM	S-7890-24	C:\Hitachi\S10\EXLINK	ExLink.exe
18	S10ET LINK SYSTEM	S-7890-25	C:\Hitachi\S10\ETLINK	EtherNet.exe
19	J.NET SYSTEM	S-7890-27	C:\Hitachi\S10\JNET	JNet.exe
20	OD.RING/SD.LINK SYSTEM	S-7890-28	C:\Hitachi\S10\ODRING-SDLINK	ODRing.exe
21	ET.NET SYSTEM	S-7890-29	C:\Hitachi\S10\ETNET	Et_Net.exe
22	FL.NET SYSTEM	S-7890-30	C:\Hitachi\S10\FLNET	FLnet.exe
23	D.NET SYSTEM	S-7890-31	C:\Hitachi\S10\DNET	DNet.exe
24	LADDER CHART MONITOR SYSTEM	S-7890-34	C:\Hitachi\S10\2ALDCM	S10LadderM.exe
25	HI-FLOW MONITOR SYSTEM	S-7890-35	C:\Hitachi\S10\HFM	S10ToolM.exe
26	IR.LINK SYSTEM	S-7890-36	C:\Hitachi\S10\IRLINK	IrLink.exe

(\*1) Directory name when “C” is the drive name of installing destination.

(\* ) No.10 and No.28 in <Table of Systems Supported by Windows® 2000 and Windows® XP> in “PREFACE” are excepted.

- (2) The [LADDER COMMENT CONVERTER SYSTEM] window is displayed. This means that the comment converter is started up. Click the desired command button.

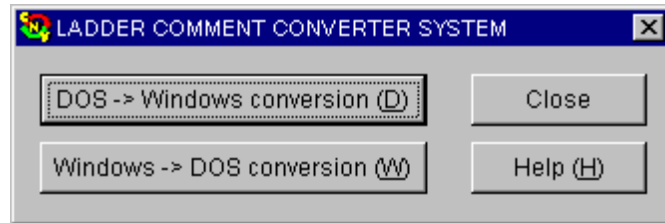


Figure 2-1 [LADDER COMMENT CONVERTER SYSTEM] Window

## 2.4 Terminating the System

From the [LADDER COMMENT CONVERTER SYSTEM] window (see Figure 2-1), click the  or  button.

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# 3 COMMANDS

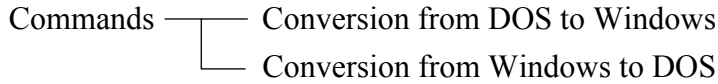
### 3 COMMANDS

---

#### 3.1 Command System

The command system for the comment converter is shown below.

Each of these commands is described in Section 3.2 and later. For details on each command, refer to Help.

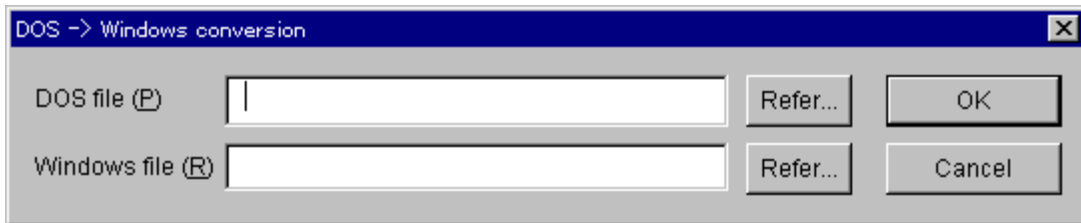


#### 3.2 Conversion from DOS to Windows

Function: Converts a comment file generated by the DOS version of the ladder chart system to an equivalent for the Windows® version of the ladder chart system.

Operation: See the operation procedure below.

- (1) On the [LADDER COMMENT CONVERTER SYSTEM] window, click the  button.
- (2) The [DOS→Windows conversion] window is displayed. Type in the source and destination comment file names or click the  button to select the files.



- (3) After completion of comment file setup, click the  button.

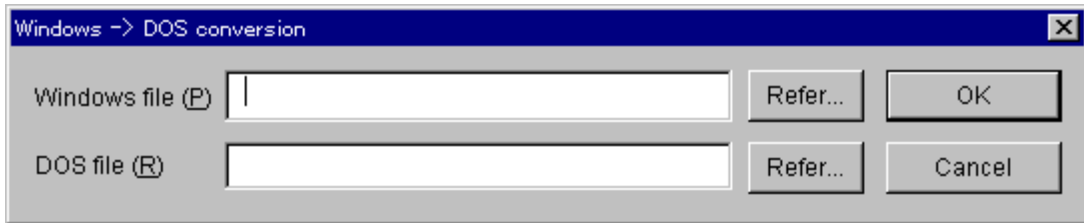
#### 3.3 Conversion from Windows to DOS

Function: Converts a comment file generated by the Windows® version of ladder chart system to an equivalent for the DOS version of the ladder chart system.

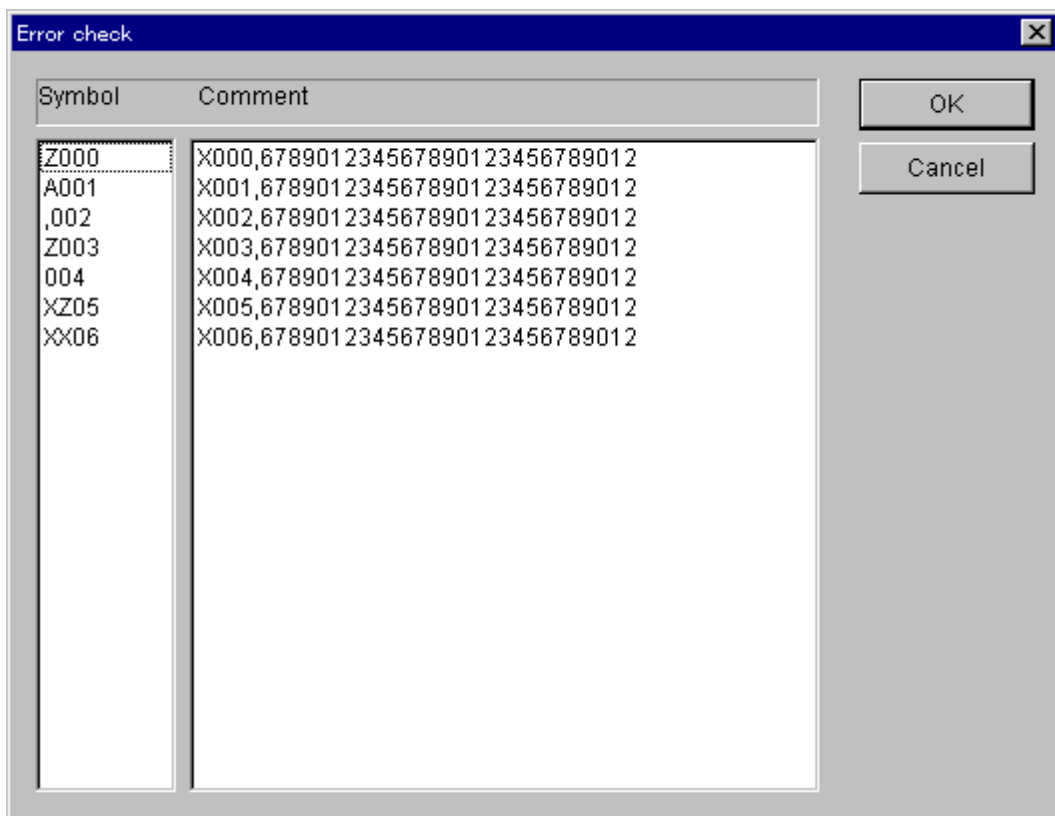
Operation: See the operation procedure below.

- (1) On the [LADDER COMMENT CONVERTER SYSTEM] window, click the  button.

- (2) The [Windows→DOS conversion] window is displayed. Type in the source and destination comment file names or click the  button to select the files.



- (3) After completion of comment file setup, click the  button.
- (4) If an error occurs during the conversion process, the [Error check] window is displayed. When you double-click an on-screen symbol, you can alter the associated “Symbol” name and “Comment.”



### 3 COMMANDS

---

- (5) When all the displayed comments are corrected, they can be converted. However, you can abort the correction process by clicking the Cancel button.
- (6) The comment converter system automatically generates comment correction results and compiles them in a file. This file is named by adding “\$” to the beginning of the selected conversion source file name.

Example: When a correction is made because of an error that occurred during the conversion of the “W\_Line.cmt” file to the “D\_Line.cmt” file

(Source file name)	(Name of the file created upon correction)	(Name of the converted file)
W_Line.cmt	\$W_Line.cmt	D_Line.cmt

- When a correction is made to change F001 to Y001

(Contents of W_Line.cmt)	(Contents of \$W_Line.cmt)
<pre>X000  Switch 1 Y000  Normal motor rotation F001  Reverse motor rotation X100  Limit switch 1</pre>	<pre>X000  Switch 1 Y000  Normal motor rotation X100  Limit switch 1 \$\$\$\$\$\$Beginning of corrected comment\$\$\$\$\$\$ Y001  Reverse motor rotation \$\$\$\$\$\$End of corrected comment\$\$\$\$\$\$</pre>

# 4 ERROR MESSAGES



## 4 ERROR MESSAGES

---

### 4.1 Error Messages

This section lists the error messages that may appear during execution of the comment converter.

<Conversion from DOS to Windows>

Error message	Remedy
File is wrong.	Designate a file in “*.cmt” format.
Enter file name.	Enter the names of both the conversion source and conversion destination files.
File opening failed.	Enter the name of an existing conversion source file.
File format is wrong.	Designate a comment file for the DOS version.