Job Editor DX200
OPERATOR’S MANUAL

Upon receipt of the product and prior to initial operation, read these instructions thoroughly, and retain for future reference.
This manual explains the Job EditorDX200. Read this manual carefully and be sure to understand its contents before operation.

General items related to safety are listed in the Chapter 1: Safety of Controller Instructions. To ensure correct and safe operation, carefully read Controller Instructions before reading this manual.

Some drawings in this manual are shown with the protective covers or shields removed for clarity. Be sure all covers and shields are replaced before operating this product.

The drawings and photos in this manual are representative examples and differences may exist between them and the delivered product.

YASKAWA may modify this model without notice when necessary due to product improvements, modifications, or changes in specifications. If such modification is made, the manual number will also be revised.

If your copy of the manual is damaged or lost, contact a YASKAWA representative to order a new copy. The representatives are listed on the back cover. Be sure to tell the representative the manual number listed on the front cover.

YASKAWA is not responsible for incidents arising from unauthorized modification of its products. Unauthorized modification voids your product's warranty.

Software described in this manual is supplied against licensee only, with permission to use or copy under the conditions stated in the license. No part of this manual may be copied or reproduced in any form without written consent of YASKAWA.
We suggest that you obtain and review a copy of the ANSI/RIA National Safety Standard for Industrial Robots and Robot Systems (ANSI/RIA R15.06-2012). You can obtain this document from the Robotic Industries Association (RIA) at the following address:

Robotic Industries Association
900 Victors Way
P.O. Box 3724
Ann Arbor, Michigan 48106
TEL: (734) 994-6088
FAX: (734) 994-3338
www.roboticsonline.com

Ultimately, well-trained personnel are the best safeguard against accidents and damage that can result from improper operation of the equipment. The customer is responsible for providing adequately trained personnel to operate, program, and maintain the equipment. NEVER ALLOW UNTRAINED PERSONNEL TO OPERATE, PROGRAM, OR REPAIR THE EQUIPMENT!

We recommend approved YASKAWA training courses for all personnel involved with the operation, programming, or repair of the equipment.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications.
Notes for Safe Operation

Before using this product, read this manual and all the other related documents carefully to ensure knowledge about the product and safety, including all the cautions.
In this manual, the Notes for Safe Operation are classified as “DANGER”, “WARNING”, “CAUTION”, or “NOTICE”.

- **DANGER**: Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury. Safety Signs identified by the signal word DANGER should be used sparingly and only for those situations presenting the most serious hazards.

- **WARNING**: Indicates a potentially hazardous situation which, if not avoided, will result in death or serious injury. Hazards identified by the signal word WARNING present a lesser degree of risk of injury or death than those identified by the signal word DANGER.

- **CAUTION**: Indicates a hazardous situation, which if not avoided, could result in minor or moderate injury. It may also be used without the safety alert symbol as an alternative to “NOTICE”.

- **NOTICE**: NOTICE is the preferred signal word to address practices not related to personal injury. The safety alert symbol should not be used with this signal word. As an alternative to “NOTICE”, the word “CAUTION” without the safety alert symbol may be used to indicate a message not related to personal injury.

Even items described as “CAUTION” may result in a serious accident in some situations. At any rate, be sure to follow these important items.

**NOTE** To ensure safe and efficient operation at all times, be sure to follow all instructions, even if not designated as “DANGER”, “WARNING” and “CAUTION”.
Notation for Menus and Buttons

Descriptions of the programming pendant, buttons, and displays are shown as follows:

<table>
<thead>
<tr>
<th>Item</th>
<th>Manual Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Menu</td>
<td>The menus displayed on screen are denoted with { }. ex. {TOOL}.</td>
</tr>
<tr>
<td>Button</td>
<td>The buttons, check boxes, radio buttons displayed on screen are denoted with [ ]. ex. [Close]; [Sync] check box; [Fast] radio button.</td>
</tr>
</tbody>
</table>

Description of the Operation Procedure
In the explanation of the operation procedure, the expression "Select • • • " means the following operations:

• To move the cursor to the object item and left-click on it with the mouse.
• To pick out the object item by the tab key and press the Enter key.
  (In case of selecting a menu, use arrow keys instead of the tab key to pick out the object item, then press the Enter key.)

Registered Trademark
In this manual, names of companies, corporations, or products are trademarks, registered trademarks, or bland names for each company or corporation. The indications of (R) and TM are omitted.
Safeguarding Tips

All operators, programmers, maintenance personnel, supervisors, and anyone working near the system must become familiar with the operation of this equipment. All personnel involved with the operation of the equipment must understand potential dangers of operation. General safeguarding tips are as follows:

• Improper operation can result in personal injury and/or damage to the equipment. Only trained personnel familiar with the operation of this equipment, the operator’s manuals, the system equipment, and options and accessories should be permitted to operate this equipment.
• Improper connections can damage the equipment. All connections must be made within the standard voltage and current ratings of the equipment.
• The system must be placed in Emergency Stop (E-Stop) mode whenever it is not in use.
• In accordance with ANSI/RIA R15.06-2012, section 4.2.5, Sources of Energy, use lockout/tagout procedures during equipment maintenance. Refer also to Section 1910.147 (29CFR, Part 1910), Occupational Safety and Health Standards for General Industry (OSHA).
Programming, Operation, and Maintenance Safety

All operators, programmers, maintenance personnel, supervisors, and anyone working near the system must become familiar with the operation of this equipment. Improper operation can result in personal injury and/or damage to the equipment. Only trained personnel familiar with the operation, manuals, electrical design, and equipment interconnections of this equipment should be permitted to program, or maintain the system. All personnel involved with the operation of the equipment must understand potential dangers of operation.

- Inspect the equipment to be sure no potentially hazardous conditions exist. Be sure the area is clean and free of water, oil, debris, etc.
- Be sure that all safeguards are in place. Check all safety equipment for proper operation. Repair or replace any non-functioning safety equipment immediately.
- Check the E-Stop button on the operator station for proper operation before programming. The equipment must be placed in Emergency Stop (E-Stop) mode whenever it is not in use.
- Back up all programs and jobs onto suitable media before program changes are made. To avoid loss of information, programs, or jobs, a backup must always be made before any service procedures are done and before any changes are made to options, accessories, or equipment.
- Any modifications to the controller unit can cause severe personal injury or death, as well as damage to the robot! Do not make any modifications to the controller unit. Making any changes without the written permission from YASKAWA will void the warranty.
- Some operations require a standard passwords and some require special passwords.
- The equipment allows modifications of the software for maximum performance. Care must be taken when making these modifications. All modifications made to the software will change the way the equipment operates and can cause severe personal injury or death, as well as damage parts of the system. Double check all modifications under every mode of operation to ensure that the changes have not created hazards or dangerous situations.
- This equipment has multiple sources of electrical supply. Electrical interconnections are made between the controller and other equipment. Disconnect and lockout/tagout all electrical circuits before making any modifications or connections.
- Do not perform any maintenance procedures before reading and understanding the proper procedures in the appropriate manual.
- Use proper replacement parts.
- Improper connections can damage the equipment. All connections must be made within the standard voltage and current ratings of the equipment.

Maintenance Safety

Turn the power OFF and disconnect and lockout/tagout all electrical circuits before making any modifications or connections.

Perform only the maintenance described in this manual. Maintenance other than specified in this manual should be performed only by YASKAWA-trained, qualified personnel.
Summary of Warning Information

This manual is provided to help users establish safe conditions for operating the equipment. Specific considerations and precautions are also described in the manual, but appear in the form of Dangers, Warnings, Cautions, and Notes.

It is important that users operate the equipment in accordance with this instruction manual and any additional information which may be provided by YASKAWA. Address any questions regarding the safe and proper operation of the equipment to YASKAWA Customer Support.
Customer Support Information

If you need assistance with any aspect of your JobEditor DX200 system, please contact YASKAWA Customer Support at the following 24-hour telephone number:

(937) 847-3200

For routine technical inquiries, you can also contact YASKAWA Customer Support at the following e-mail address:

technicalsupport@motoman.com

When using e-mail to contact YASKAWA Customer Support, please provide a detailed description of your issue, along with complete contact information. Please allow approximately 24 to 36 hours for a response to your inquiry.

Please use e-mail for routine inquiries only. If you have an urgent or emergency need for service, replacement parts, or information, you must contact YASKAWA Customer Support at the telephone number shown above.

Please have the following information ready before you call Customer Support:

• System: JobEditor DX200
• Primary Application: ___________________________
• Controller: DX200
• Software Version: Access this information on the Programming Pendant’s LCD display screen by selecting {MAIN MENU} - {SYSTEM INFO} - {VERSION}
• Robot Serial Number: Located on the robot data plate
• Robot Sales Order Number: Located on the DX200 controller data plate
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1 INTRODUCTION

1.1 What Is the Job EditorDX200?

The Job EditorDX200 is editing software for INFORM III, the control language of the robot controller, the DX200.

1.1.1 Features

On a personal computer, Job EditorDX200 can be used in the same manner as a programming pendant to edit jobs. The displays where editing can be done are the same as those for the programming pendant. Anyone who can edit with the programming pendant can easily use this software.

NOTE
Since the parameter file used in Job EditorDX200 are the same used in the programming pendant, required instructions and additional items (such as tags, numeric data) may not be displayed properly unless presetting each parameter options.
# Hardware Requirements for Job EditorDX200

| OS | Microsoft Windows 10 (64bit)  
|    | Microsoft Windows 7 ServicePack1 (32bit / 64bit)  
|    | JAPANESE and ENGLISH Windows version are supported only.  
|    | *1  
| CPU | Intel ® Core™ i5 or more multi-core processor.  
| Memory | 2 GB or more  
| Hardware Disk | 1 GB or more  
| Display | Supported by MS-Windows (with 256 color or more)  
| Mouse | Supported by MS-Windows  
| Hardware Lock Key | Used under single user environment.  
|    | For details, refer to the following section section 1.3 "Hardware Lock Key".  

*1 MS-Windows 10/7 is a registered trademark of Microsoft Corporation, USA.
1.3 Hardware Lock Key

For proper operation, connect provided hardware lock key (USB type) to personal computer before using this software.

Check and execute <Check the computing environment> <Installation of driver> before connecting the key to USB port.

<Check the computing environment>
Multi-connection of USB type key is not available for one USB port because of hardware structure. Therefore, only one key should be connected to one USB port. When installing multiple offline software into one personal computer and multi-connectiong USB keys, use the personal computer which is provided same numbers of USB ports as the number of software to be installed.

<Installation of driver>
Please install the driver after detaching the all sentinel hardware key from the personal computer.

Execute "\SentinelDriver\Sentinel System Driver Installer 7.5.9.exe" of installation CD-ROM. Refer to "\SentinelDriver\Manual\Sentinel System Driver ReadMe.pdf" for the details of installation.

- Be sure to install the driver.
- When installing the driver, be sure to login in administrator mode in order to add files to system folder and input information in registry.
  - If a key is connected to personal computer before installing the driver, the message concerning the driver is displayed. In this case, and detach the key from personal computer and then install the driver.
  If a key is connected to personal computer before installing the driver under Windows 95/98/NT4.0/2000/XP environment, Windows wizard ([Add New Hardware] Wizard) starts up. In this case, push [cancel], and detach the key from personal computer and then install the driver.
  - When installing the driver under Windows NT4.0 environment, please install the driver located in the folder "\SentinelDriver\SSD5411\SSD5411-32bit.EXE" of installation CD-ROM.
For the driver installation procedure, please consult the installation manual "\SentinelDriver\SSD5411\Manual\us\Readme.pdf".

Refer to section 6.1 "Frequently-asked questions" for other countermeasures concerning hardware lock key.
1.4 Installing Job EditorDX200

1. It is strongly recommended that you exit all applications before running the setup program.

   **Note** Be sure to login in administrator mode when installing the Job EditorDX200, or else the system related DLL files in Windows might not be updated.

2. Insert the installation CD into the CD-ROM drive. When the [User Account Control] dialog appears automatically, click [Yes]. [Job EditorDX200 - InstallShield Wizard] will be displayed.

3. Follow the on-screen instructions.

   **Note** If the following message appears during the installation, press [Yes] to continue installation.
   This message is displayed when the installation of redistribution package of Visual C++ 2012 has been executed but installation is required.
   If this message is displayed, run manually \%ISetupPrerequisites\{BF2F04CD-3D1F-444e-8960-D08EBD285C3F\}vcredist_x86.exe after installing Job EditorDX200, and install or repair the redistribution package of Visual C++ 2012.

4. When the setup is completed, Job EditorDX200 is registered under the {Job EditorDX200} folder that appears by clicking the [Start] button in the task bar and selecting {Program} and then {Motoman}. (In the case of Windows10, all menu appears directly under [Motoman].)

5. Connect the hardware key to the printer port or USB port.
   For details, refer to section 1.3 "Hardware Lock Key" in this chapter.
2  BASIC OPERATION

2.1  Basic Concept and Operation Flow

2.1.1  Operation Flow

This software requires only parameter files. To edit the same instructions as the programming pendant, save the parameter file from the programming pendant in advance.

- Saving a Parameter File (ALL.PRM)

Save ALL.PRM and the job file to be edited from the programming pendant.

**NOTE**
Since the parameter file used in Job EditorDX200 are the same used in the programming pendant, required instructions and additional items (such as tags, numeric data) may not be displayed properly unless presetting each parameter options.

- Creating a Folder

Create a folder anywhere on the personal computer, and copy the parameter file and job file that have been saved from the programming pendant to the folder.

- Editing

Use the Job EditorDX200 to open the job file and save it after editing.

- Loading to the Programming Pendant

Load the edited file to the programming pendant using the same procedure as described in "Saving a Parameter File (ALL.PRM)".
2.2 Startup of the Job EditorDX200

2.2.1 Clicking the Job EditorDX200

To start up the Job EditorDX200, click the [Start] button and select in the order of [Program], [Motoman], [Job EditorDX200] (In the case of Windows10, [Motoman], [Job EditorDX200]), and then select “Job EditorDX200”. The following window appears with a correct operation:
2.3 Basic Windows

The basic windows are the “Main Window,” “Line-edit Box,” and the “Detail Edit Window.”
2BASIC OPERATION

2.4 Selecting a Job

Various basic parameter files and jobs are provided in Sample under the installation folder. Refer to those samples before reading the following procedures.

2.4.1 Opening One Job

The [Open] dialog box appears.

The DX200 parameter file (ALL.PRM) must be in the directory having the job. If there is no parameter file, the following warning appears.

NOTE: The DX200 parameter file (ALL.PRM) must be in the directory having the job. If there is no parameter file, the following warning appears.
2.4.2 Opening Multiple Jobs at One Time

1. Click [Open] button.
2. Click [Select Job].
3. Click the file to be opened.
4. Hold the [Ctrl] key down and click the file to be opened.
5. Click [Open].

The [Open] dialog box appears.
2.4.3 Filtering by Job Folder

1. Click [ ] button.

2. Click [Select Job].

3. Click [Select by JobFolder].

The [Open] dialog box appears.

4. Click here.

5. Click the Job Folder to be opened.

The [Select by Job Folder] dialog box appears.

4. Click [ ] here.
The job list filtered by job folder appears.

⑥ Click the file to be opened

⑦ Hold the [Ctrl] key down and click the file to be opened.

⑧ Click [OK].
2.5 Creating a Job

If there are no job files, you can create new job file by selecting parameter file. Refer to section 2.8 "When No Job is Provided" for details.

2.5.1 Creating a Job

The [Create Job] dialog box appears.

The new job appears.
Selecting Options when Creating a Job

Job Type
Select whether a job including position data is to be created. "Robot" contains position data, and "Non Robot" contains no position data.

Control Group
Select the job control group. If the control group is not found in this list, register the control group in the "Group Combination Registry," and re-open this window. (Refer to section 5.1 "Defining Control Groups" for details on defining control groups.)

Job Folder Name
Select the job folder name. Or, enter the new job folder name using lower-case letters, maximum 32 characters.
2.6 Copying a Job

First, you open job file that you want to copy by clicking [Select Job], and you operate the following in this state. (Refer to section 2.4 "Selecting a Job" for details.)

1. Click [Open].
2. Click [Save As].
3. Enter a job name using lower-case letters, maximum 32 characters.
4. Click [Open].
5. The newly copied job appears.
If any existing job has the same name, the following message appears. Select [Yes] only when the existing job is to be overwritten.
2.7 Deleting a Job

First, you open job file that you want to delete by clicking [ ] [Select Job], and you operate the following in this state. (Refer to section 2.4 "Selecting a Job" for details.)

1. Click [ ] button.
2. Click [Delete Job].
3. Click the file to be opened.
4. Click [Open].

The [Delete Job] dialog box appears.

- Refer to section 2.4.2 "Opening Multiple Jobs at One Time" for details on deleting multiple files at one time.
- Refer to section 2.4.3 "Filtering by Job Folder" for details on deleting the files selected by Job Folder.

NOTE
2.8 When No Job is Provided

When no job is provided, select the parameter file to create an environment for making a new job.

2.8.1 Opening a Parameter File

1. Click the button.
2. Click [Select Job].
3. Click here.
4. Click [PRM Files].
5. Click [All.prm].
6. Click [Open].

The [Open] dialog box appears.

PRM Files appear.
2.9 Closing a File

When the file to be closed has been modified, the following message appears.

- **Click [ ] button.**
- **Click [Close].**

Saves modified contents, and closes the file.

Closes the file without saving the modified contents.

Cancels closing the file.
2.10 Saving a File

The following error message may appear when saving a file. This message appears when the position variable is not defined, although there is an instruction using a position variable in the job which was going to be saved. Select [Settings] tab and [Position variable] - [Robot] to define the position variable.

① Click [ ] button.

② Click [Save].
**2.11 Printing**

1. Click [Print] button.
2. Click [Print].
3. Click [OK].

The [Print] dialog box appears.
2.12 Exit

If there is any job that has not been saved when attempting to close the Job Editor DX200, the dialog will appear to ask if the edited job is to be saved.

① Click [ ] button.

② Click [Exit].
3 EDITING(Standard)

In the standard mode, the job can be edited as the pendant of operation.

3.1 Change into Standard Mode

The mode is changed into the standard mode.
When clicking [Standard], the following dialog appears sometimes.
When clicking [Yes], the file is saved and shift to Standard mode.
When clicking [No], the file is not saved and shift to Standard mode.
When clicking [Cancel], mode shift is canceled.

When clicking [Yes], the following dialog appears when the file has something wrong in the text mode.
When clicking [Yes], the file is saved as temporary file and shift to Standard mode.

When clicking [No], the following dialog appears.
When clicking [Yes], the file is not saved and shift to Standard mode.
When clicking [No], mode shift is canceled.
3.2 Adding an Instruction

Press the cursor keys to highlight the address of the line where an instruction is to be added. This can be also done by clicking the mouse directly.

1. Move to the address of the line where an instruction is to be inserted.

2. Press the [Space] key, or click the menu.
   (Menu: [Home] tab - [Edit] - [Insert Instruction])

The [Select Inst] dialog box for each group of instructions appears.

3. Select a line by pressing the cursor keys or by clicking the mouse.

4. Press the [Enter] key or double-click the mouse.

5. Select a line by pressing the cursor keys or by clicking the mouse.

6. Press the [Enter] key or double-click the mouse.

*) Press the [Esc] key to exit the Add mode.

*) Press the [Esc] key to return to the [Select Inst] dialog box for each group of instructions.
The line-edit box appears in the lower-left of the window.

7 Press the [Enter] key or click [OK].

The instruction has been inserted.
3.3 Deleting an Instruction

3.3.1 Deleting One Line

1. Select the address or instruction to be deleted.
2. Click [Cut].

The dialog box appears asking if you are sure you want to delete the line.

3. Click [Yes].

NOTE Since the cut contents are copied to the buffer, they can be pasted on another place or job.

3.3.2 Deleting Multiple Lines

Perform the same operation as described in section 3.3.1 "Deleting One Line" after selecting multiple lines described in the next section.
3.4 Selecting Multiple Lines

3.4.1 Using the Keyboard

① Move to the first line to be selected.

② Press the [SHIFT] key.

③ Move the cursor holding the [SHIFT] key down to select additional lines.

3.4.2 Using the Mouse

① Click the first line to be selected. (Left side of line.)

② Drag over adjacent lines to select multiple lines.
3.5 Copying an Instruction

3.5.1 Copying One Line

1. Move to the line to be copied.

2. Click [Copy].

Perform the same operation as described in section 3.6 "Pasting an Instruction".

There is no limitation to the number of instructions that can be copied. Move instructions can also be copied, however, pay attention in operating those copied instructions.

3.5.2 Copying Multiple Lines

Perform the procedure described in section 3.4 "Selecting Multiple Lines" and then perform the procedures as described in step “2” in section 3.5.1 "Copying an Instruction".
3.6 Pasting an Instruction

3.6.1 Paste

① Move to the line where data is to be pasted.

② Click [Paste].

A dialog box appears asking if you are sure you want to paste the data.

③ Click [Yes].
3.6.2 Reverse

"Reverse" pastes several copied lines in the opposite order of how they were copied. A group of move instructions for returning can be simply created by copying the group of move instructions for going, and reverse-pasting them.

① Select multiple lines and copy them.

② Move to the position where the data is to be inserted. The data will be inserted on the next line.

③ Click [Reverse].

A dialog box appears asking if you are sure you want to reverse-paste the data.

① Click [Yes].

The data has been reverse-pasted.
3.7 Modifying an Instruction

3.7.1 Changing Numeral Values (1)

1. Move to the instruction line to be edited.

2. Press the [Space] key, or click the Menu. (Menu: [Home] tab - [Edit] - [Modify Instruction])

The line-edit box appears in the lower-left of the window.

3. Press the [→] key.

4. Press the [↑] key.

5. Press the [↑] or [↓] key until obtaining the desired value.

6. Press the [Enter] key or click [OK].

To cancel the changes, press the [Esc] key or click [Cancel].

The new data appears in the main window.
3.7.2 Changing Numeral Values (2)

1. Move to the instruction line to be edited.

2. Press the [Space] key, or click the Menu.
   (Menu: [Home] tab - [Edit] - [Modify Instruction])

The line-edit box appears in the lower-left of the window.

3. Press the [→] key.

4. Press the [Space] key.

The [Value Input] dialog box appears.

5. Change the value by one of the following three methods.

   1) Enter the value directly.
   2) Press the [↑] or [↓] key.
   3) Click here.

6. Click [OK].

7. Press the [Enter] key or click [OK].

To cancel the changes, press the [Esc] key or click [Cancel].
The new data appears in the main window.

```plaintext
0000 NOP
0001 WAIT IN#(10)=ON
0002 DIN B000 IN#(1)
0003 CALL JOB:1
0004 TIMER T=1.00
0005 PULSE OTH#(1)
0006 END
```

**NOTE** Lines cannot be moved in the main window during line editing.
### 3.7.3 Changing Characters

1. Move to the instruction line to be edited.

2. Press the [Space] key, or click the Menu. (Menu: [Home] tab - [Edit] - [Modify Instruction])

3. Press the [→] key.

4. Press the [Space] key.

5. Enter the character string.

6. Click [OK].

7. Press the [Enter] key or click [OK].

To cancel the changes, press the [Esc] key or click [Cancel].

The [Character Input] dialog box appears.

The new data appears in the main window.
### 3.8 Changing the Motion Type

1. Move to the instruction line to be edited.

2. Press the [Space] key, or click the Menu. (Menu: [Home] tab - [Edit] - [Modify Instruction])

The line-edit box appears in the lower-left of the window.

3. Press the [↑] or [↓] key to select the desired motion type.

4. Press the [Enter] key or click [OK].

Motion types can be changed in this order. Speed is relative speed and converted automatically.

The instruction line with the new motion type appears in the main window.

4. To cancel the changes, press the [Esc] key or click [Cancel].
3.9 Using an Alias

1. Move to the instruction line.

2. Press the [Space] key, or click the Menu.
   (Menu: [Home] tab - [Edit] - [Modify Instruction])

3. Press the [→] key.

4. Press the [Space] key.

The [Condition file edit] dialog box appears.

5. Press the [↑] or [↓] to select the desired item.

6. Click on [OK] button.

7. Press the [Enter] key.

7. To cancel the changes, press the [Esc].
The new data appears in the main window.

The alias function may not be used depending on parameter settings. The names such as I/O name or variable name cannot be changed in the main window.
3.10 Editing in the Detail Edit Window

3.10.1 Changing an Item

① Move to the instruction line to be edited.

② Press the [Space] key, or click the Menu.
   (Menu: [Home] tab - [Edit] - [Modify Instruction])

The line-edit box appears in the lower-left of the window.

③ Press the [Space] key.

The [Detail Edit] window appears.

④ Use the [↓], [↑], [←] or [→] key to move the cursor to the item to be changed.

⑤ Press the [Space] key.

⑥ Use the [↑] or [↓] key to select an item.

⑦ Press the [Enter] key.

*) To cancel, press the [Esc] key.
The new item appears in the [Detail Edit] window.

The line-edit box appears in the lower-left of the window.

The new instruction appears in the main window.
3.10.2 Adding an Item

To call up the Detail Edit window, perform the same procedure as described in steps “1” to “3” of section 3.10.1 "Changing an Item".

① Use the [↓], [↑], [→] or [←] key to move the cursor to the item to be changed.

② Press the [Space] key.

A selection list appears.

③ Use the [↓] or [↑] key to make a selection.

④ Press the [Enter] key.

The added item appears in the [Detail Edit] window.

⑤ Move the cursor to the numerical data when the numerical value of the item is to be changed.

⑥ Press the [Space] key.
The [Value Input] dialog box appears.

Change the value by one of the following three methods (1) through (3) on the right.

1. Enter the value directly.
2. Press the [↑] key.
3. Click here.

Click [OK].

The [Detail Edit] window appears with the new value.

Perform the same procedure as described in section 3.10.1 "Changing an Item" to return to the main window.
3.10.3 Deleting an Item

To call up the Detail Edit window, perform the same procedure as described in “1” to “3” of section 3.10.1 "Changing an Item"

① Use [↓], [↑], [←] or [→] key to move the cursor to the item to be deleted.

A selection list appears.

② Press the [Space] key.

③ Use the [↓] or [↑] key to make a selection.

④ Press the [Enter] key.

The [Detail Edit] window appears with the item deleted.

Perform the same procedure as described in section 3.10.1 "Changing an Item" to return to the main window.
3EDITING(Standard)

3.10.4 Using an Alias

To call up the Detail Edit window, perform the same procedure as described in steps “1” to “3” of section 3.10.1 "Changing an Item".

1. Use [↓], [↑], [→] or [←] key to move the cursor to the item to be deleted.

2. Press the [Space] key.

3. Use the [↓] or [↑] key to make a selection.

4. Press the [Enter] key.

A selection list appears.

5. Click on [OK] button.

A confirmation dialog box appears after selecting an item available for alias.
The [Condition file edit] window appears.

⑥ Use the ↓ or ↑ key to make a selection.

⑦ Click on [OK] button.

The [Detail Edit] window appears with the item changed to the alias.

Perform the same procedure as described in section 3.10.1 "Changing an Item" to return to the main window.

### NOTE

The alias function may not be used depending on parameter settings.
The names such as I/O name or variable name cannot be changed in the main window.
3.11 Searching

3.11.1 Searching for Character Strings

The [Find and Jump] dialog box appears.

The search for the character string starts.

- Click [Find].
- Enter the character string to be found (disregarding whether upper-case or lower-case characters are used).
- Click [Next].

NOTE: The search starts from the cursor's position and goes down the list.

3.11.2 Moving the Line Number or Step Number

To call up the [Find and Jump] dialog box, perform the same procedure as described in steps “1” to “3” of section 3.11.1 "Searching for Character Strings".

- Select a line No. or Step No.
- Click here to select the No.
- Click [Jump].

The search for the line No. or Step No. starts.

NOTE: The search starts from the cursor's position and goes down the list.
### 3.12 Changing the Speed

**3.12.1 Changing according to Speed Type**

1. Select the range to be changed.

2. Click [Modify Speed].

The [Modify speed] dialog box appears.

3. Select VJ.

4. Enter speed 100.00 as the speed.

5. Click [OK].
The main window appears with only VJ changed to 100.00.

### 3.12.2 Changing Speed Relatively (Changing Speed in Ratio for Current Speed)

To call up the "Modify speed" dialog box, perform the same procedure as described in section 3.12.1 "Changing according to Speed Type"

1. Select "RELATIV"
2. Enter 50.
3. Click [OK].

The main window appears with all the speeds changed to 50%.
3.13 Edit Lock

3.13.1 Changing the Status to Edit Lock

1. Select the range to be changed.
2. Click [Edit Lock].

The selected range is changed to edit lock status.
3.13.2 Clear the Edit Lock Status

1. Select the range to be changed.

2. Click [Edit Lock].

If the status of the selected range is edit lock, the * mark appears. Click [Edit Lock] when the * mark does not appear, the status of lines which are not edit lock will be edit lock.
The selected range is cleared edit lock status. Clear the All Edit Lock Status

① Move to the instruction line to be edited.

② Click [Clear Edit Lock].

All edit lock status is cleared.
3.14 Comment

3.14.1 Changing the Status to Comment

① Select the range to be changed.

② Click [Comment].

The selected range is changed to comment status.
3.14.2 Clear the Comment Status

If the status of the selected range is comment, the * mark appears. Click [Comment] when the * mark does not appear, the status of lines which are not comment will be comment.

The selected range is cleared comment status.
3.14.3 Clear the All Comment Status

① Move to the instruction line to be edited.

② Click [Clear all mark of comment].

All comment status is cleared.
### 3.15 Adding Comments

The [Header of Job] dialog box appears.

1. Click [Header].

2. Enter comment character string.

3. Click [OK].

**NOTE** Enter maximum of 32 characters for the comment character string.
3.16 Edit the Job Folder Name

The [Header of Job] dialog box appears.

1. Click [Header].
2. Select the job folder name or enter the new job folder name.
3. Click [OK].

NOTE Enter maximum of 32 characters for the job folder name.
3.17 Entering the Numbers and Names of Local Variables Used

The [Header of Job] dialog box appears.

The Local variable Num text boxes appear.

1. Click [Header].
2. Click [More].
3. Enter the number.
4. Click [Edit].
5. Click [OK].
The [Local variable edit] window appears.

- The [More] button occasionally be invalided and becomes unable to select.
- The [Local variable edit] window may not appear after clicking on the [Edit] button depending on parameter settings.
3.18 Displaying Step Nos., I/O Names, or Variable Names

The [Display Setting] dialog box appears.

① Click [Settings].

② Click [View settings].

③ Click the desired items to be displayed.

④ Set the position to display the I/O name or the variable name.

⑤ Click [OK].

Names and numbers are displayed.
3.19 Opening a Call Job

This function can be used only with a CALL instruction or a JUMP instruction.

1. Move the cursor to a CALL or JUMP instruction.

2. Click [Open Job].

The job that is designated in the CALL or JUMP instruction appears.
3.20 Editing an Expression

To edit an expression, use a "SET" instruction.

**NOTE**

To edit an expression, set the language level to “Standard” or “Extension”.

1. Move to the address area of the line to be inserted.

2. **Press the [Space] key, or click the Menu.**
   (Menu: [Home] tab - [Edit] - [Modify Instruction])

3. Select a line by pressing the cursor keys or clicking the mouse.

4. Press the [Enter] key or double-click the mouse.

*) Press the [Esc] key to exit the Add mode.

5. Select a line by pressing the cursor keys or clicking the mouse.

6. Press the [Enter] key or double-click the mouse.

*) Click here or press the [Esc] key to return to the [Select Inst] dialog box for each group of instructions.
The line-edit box appears in the lower-left of the window.

⑦ Press the [Space] key.

The [Detail Edit] dialog box for the SET instruction appears.

⑧ Press the [Space] key.

A selection list appears.

⑨ Press the [Enter] key.

*) Press the [Esc] key to cancel.

The [Detail Edit] dialog box for EXPRESS appears.

⑩ Set an expression.

⑫ Click [OK].

⑪-a) Click here to add the data.

⑪-b) Click here to delete the data.

*) Displays the set expression.
Double-click the position or click [Edit] to select the following items.

(a) Left parenthesis
   By performing double-click or clicking [Edit], the display changes in the following order.
   \[ ( \rightarrow (( \rightarrow ((( \rightarrow ( \rightarrow )) \rightarrow )) \rightarrow ) ) \]

(b) Data
   The [Value Input] box appears.

   (1) Enter the value.
   (2) Click [OK].

(c) Changing the data type
   A selection list appears.

   (1) Use the [↓] or [↑] key to select the data
   (2) Press the [Enter] key.
   (3) Enter the value.
   (4) Click [OK].

(d) Right parenthesis
   By performing double-click or clicking [Edit], the display changes in the following order.
   \[ ) \rightarrow )) \rightarrow )) \]

(e) Operator
   A selection list appears.

   (1) Use the [↓] or [↑] key to select the operator.
   (2) Press the [Enter] key.
The [Detail Edit] dialog box for the SET instruction appears again.

Click [OK].

The line-edit box appears in the lower-left of the window.

Press the [Enter] key.

The changed main window appears.
3.21 Using a Macro Command

By storing the macro definition file (MACRO.DAT) in the same folder as the parameter file (All.prm), the defined macro command can be used.

1. Move the cursor to the address area of the line to be added.

2. Press the [Space] key, or click the Menu. (Menu: [Home] tab - [Edit] - [Modify]

3. Move the cursor to "MACRO" and select it by clicking it.

The [Select Inst] dialog box for each group of instructions appears.

Instructions that have been defined in the macro definition file appear. These instructions are used to add or edit the macro command.

The Job Editor DX200 can use a macro command but cannot create the command. To use this function, use the parameter file of which option for "INFORM creation function" is available.
4 EDITING (TEXT)

In the Text mode, the job can be edited as “Notepad”.

4.1 Change into Text Mode

The mode is changed into the text mode.

The job can be edited as “Notepad”.
In the text mode, there are the following restrictions.

- Job header part is not be automatically corrected. If move instruction or aliases is modified, the header part needs to be modified in the manual.
- Macro instruction does not appear in the macro job name.
- There are restrictions on the input support function.
  - Input Support is case-sensitive.
  - The candidates display demands on the language level.
  - ON/OFF and CONTANT is not displayed.
  - About the structured language, the candidates of the conditional statement and the candidates (AND or OR) after the conditional statement is not available.
  - The displayed format is the text data saved in ex. memory. So, WHILE, IFTHEN, AND and Or are displayed as WHILEEXP, IFTHENEXP, ANDEXP and OREXP.
  - The candidates after the EXPRESS of SET instruction is not available.
  - The candidates of macro instruction is not available.
  - The candidates of aliases is not available.

When clicking [Text], the following dialog appears sometimes. When clicking [Yes], the file is saved and shift to Text mode. When clicking [No], the file is not saved and shift to Text mode. When clicking [Cancel], mode shift is canceled.

If there is a temporary file that has been saved in the previous text mode, the following dialog appears. When clicking [Yes], the temporary file is opened instead of the current job file and shift to Text mode. When clicking [No], the current is opened and shift to Text mode.

The temporary file is automatically deleted when the job file has been successfully saved in text mode.
4.2 Adding an Instruction

Press the cursor keys where an instruction is to be added. This can be also done by clicking the mouse directly.

① Click the text.

② Input by keyboard.

③ Use the [↑] or [↓] key to select an item, and press the [Enter] key.

④ Press the [Space]

⑤ Use the [↑] or [↓] key to select an item, and press the [Enter] key.

⑥ Input ON, OFF or CONSTANT by keyboard
4.3 Deleting an Instruction

4.3.1 Deleting One Line

Select the line to be deleted.

① Move the cursor to the top of line to be deleted.

② Move the cursor holding the [Shift] key down to select the line.

③ Click [Cut].

NOTE: Since the cut contents are copied to the buffer, they can be pasted on another place or job.

4.3.2 Deleting Multiple Lines

Perform the same operation as described in section 4.3.1 "Deleting One Line" after selecting multiple lines described in the next section.
4.4 Selecting Multiple Lines

4.4.1 Using the Keyboard

1. Move to the first line to be selected.

2. Move the cursor holding the [Shift] key down to select lines.

4.4.2 Using the Mouse

1. Click the first line to be selected.

2. Drag over adjacent lines to select multiple lines.
4.5 Copying an Instruction

4.5.1 Copying One Line

① Move the cursor to the top of line to be copied.

② Move the cursor holding the [Shift] key down to select the line.

③ Click [Copy].

Perform the same operation as described in section 4.6 "Pasting an Instruction".

NOTE: It does not limit to copy instructions, but please caution if copy the move instruction or structured language.

4.5.2 Copying Multiple Lines

Perform the procedure described in section 4.4 “Selecting Multiple Lines” and then perform the procedures as described in step 3 in section 4.5.1 “Copying an Instruction”.

Perform the same operation as described in section 4.6 "Pasting an Instruction".

NOTE: It does not limit to copy instructions, but please caution if copy the move instruction or structured language.
4.6 Pasting an Instruction

① Move the cursor to the top of line to be copied.

② Click [Paste].
4.7 Showing the header part

4.7.1 Showing the header part

When editing the job, the following dialog appears.

The header part is displayed.
4.7.2 Hiding the header part

When editing the job, the following dialog appears.

The header part is hidden.
4.8 Checking the job

Checking the syntax of job.

① Click [Check instruction]

When there are any syntax error, the following log appears.

When the log is double-clicked, the cursor moves to the error point.

② Double-click the log.

When there is no error, the following log is displayed.

File check is complete.
When unchecking the [Log viewer], the log window is hidden.
4.9 Saving the Job File

Compile the edit, and save it to a file. Syntax check is performed automatically.

1. Click [Compile].

When there are any syntax error, the following log appears.

```
L:1 C:13 ERR:3220[58] Syntax error in instruction data
L:3 C:12 ERR:3220[58] Syntax error in instruction data
```

Job file is not saved, and the following dialog appears.

When clicking [Yes], the file is saved as temporary file. When click [No], a temporary file is not saved.
4.10 Searching

1. Click [Find].

2. Enter the character string to be found (disregarding whether upper-case or lower-case characters are used).

3. If want to case-sensitive, Check [Match case].

The [Find] dialog box appears.

The search for the character string starts.

NOTE: The search starts from the cursor's position and down the list.
4.11 Checking Alias

Check the number of I/O or variable described by the alias.

Press the [F12] key. The following dialog appears.

\[\text{NOTE: Please caution if edit the alias.}\]
5 EDITING OTHER ITEMS

5.1 Defining Control Groups

When there is more than one control group, the combination can be defined. The control group to be selected for new job creation, etc. does not appear on the window when creating a job unless it is defined here.

5.1.1 Adding a Combination

The [Regist Match of Group] dialog box appears.

The [Select Group] dialog box appears.
"R1 + S1" has been added to the Regist Match of Group list.

5.1.2 Changing a Combination

To call up the "Regist Match of Group" dialog box, perform the same procedure as described in steps “1” and “2” of section 5.1.1 "Adding a Combination"

① Select the combination to be changed.
② Click [Modify].

The [Select Group] dialog box appears.

To define the group combination, perform the same procedure as described in steps “1” and “2” of section 5.1.1 "Adding a Combination".

"S1" in the [Regist Match of Group] dialog box has been changed to "R1 + S1".
5.1.3 Deleting a Combination

To call up the "Regist Match of Group" dialog box, perform the same procedure as described in steps "1" and "2" of section 5.1.1 "Adding a Combination".

1. Select the combination to be deleted.

2. Click [Delete].

"S1" has been deleted from the [Regist Match of Group] dialog box.
5.2 Defining Position Variables

To create a job using position variables, the position variables must be defined in this window before saving the data.

1. Click [Settings].
2. Click [Position Variable].
3. Click [Robot].
4. Click type to select the frame.
5. Click and Edit the value.
6. Click [OK].

*) Use ↓, ↑, ← or → key to move the cursor and press [Space] key or [F2] key.

NOTE

To create a job using position variables, the position variables must be defined in this window before saving the data.
5.3 Increasing the Instruction Types to be Used

5.3.1 Changing the Language Level

Since the “language level” is set to “Reduction” by default, the instruction types displayed are less than the total number available. Setting the language level to “Extension” increases the number of instruction types displayed.

For example, the SRCH tag is one of several instructions that can be added to MOVL. Because the instruction is a parameter option, it requires the parameter file, where the flag permitting the use of the SRCH tag is valid, from the programming pendant.

The number of instructions increases.
5.4 Changing a Condition File

5.4.1 Changing an I/O Name File (IONAME.DAT)

① Click [Settings].
② Click [Condition File Edit].
③ Select IONAME.DAT.
④ Click [Open].
⑤ Select I/O.
⑥ Click [Edit].

The [Condition file edit] dialog box appears.
The [Character edit] dialog box appears.

If there is no I/O name file, a file is automatically created after entering the I/O name in step "5". This I/O name file can also be used with the programming pendant in the same way as a job edited by the Job Editor DX200 can be used with the programming pendant.
5.4.2 Changing a Variable Name File (VARNAME.DAT)

The [Condition file edit] dialog box appears.

1. Click [Settings].
2. Click [Condition File Edit].
3. Select VARNAME.DAT.
4. Click [Open].
5. Select variable.
6. Click [Edit].
The [Character edit] dialog box appears.

If there is no variable name file, a file is automatically created after entering the variable name in step “5”. This variable name file can also be used with the programming pendant in the same way as a job edited by the Job Editor DX200 can be used with the programming pendant.

NOTE

Enter an I/O name up to 16 characters.
5.5 Changing the Font

The font can be changed in the "Main Window," "Line-edit Box," or "Detail Edit Window."

The [Font] dialog box appears.

The following dialog appears. Please restart JobEditorDX200.
5.6 Changing the Color

5.6.1 Changing the Character Color

The character color can be changed in the standard mode or text mode.

The [Display Setting] dialog box appears.

1. Click [Settings].
2. Click [View settings].
3. Select the text color of standard mode.
4. Select the text color of text mode.
5. Click [OK].

The following dialog appears. Please restart JobEditorDX200.

6. Click [OK].
5.6.2 Changing the Background Color

The character color can be changed in the standard mode or text mode.

1. Click [Settings].
2. Click [View settings].
3. Select the back color of standard mode.
4. Select the back color of text mode.
5. Click [OK].

The [Display Setting] dialog box appears.

The following dialog appears. Please restart JobEditorDX200.

1. Click [OK].
5.6.3 Changing the Comment Color

1. Click [Settings].
2. Click [View settings].
3. Select the comment color.
4. Click [OK].

The [Display Setting] dialog box appears.

The following dialog appears. Please restart JobEditorDX200.

5. Click [OK].
5.6.4 Changing the Color of Each Instruction or Tab

The color of each instruction or tab can be changed.

① Click [Settings].

② Click [View settings].

The [Display Setting] dialog box appears.

③ Select [Color].

④ Select the color and click [OK].

The following dialog appears. Please restart JobEditor DX200.

⑤ Click [OK].
Adding Private Setting

1. Click [ADD].
2. Input the character of instruction or tag.
3. Select color.
4. Click [OK].
Changing Private Settings

1. Double-click the instruction or tag.
2. Select color.
3. Click [OK].
Deleting Private Settings

1. Click the instruction or tag.
2. Click [DEL.].
5.6.5 Changing Color Definition

The color definition can be changed.

1. Click [Settings].
2. Click [View settings].

The [Display Setting] dialog box appears.

3. Select [Color].

4. Define the color and click [OK].

The following dialog appears. Please restart JobEditor DX200.

5. Click [OK].
### Adding Color Definition

1. Click [ADD.]
2. Input color name.
3. Click [...].
4. Select color.
5. Click [OK].

The [Color] dialog box appears.

The focus returns to the [COLOR DEF.] dialog.

6. Click [OK].
Changing Color Definition

1. Double-click the color name.
2. Click [...].
3. Select color.
4. Click [OK].

The [Color] dialog box appears.

The focus returns to the [COLOR DEF.] dialog.

5. Click [OK].
### Deleting Color Definition

1. Click the color name.
2. Click [DEL.]

![Display Setting](image)
5.7 Changing the Language

The [Select Language] dialog box appears.

When there are edited files, the following dialog appears.

When clicking [Yes], the file is saved and JobEditor DX200 is restarted. When clicking [No], the file is not saved and JobEditor DX200 is restarted. When clicking [Cancel], changing language is canceled.

When there are edited files in text mode, syntax of the file is checked and the file is saved.
When the file has something wrong, the file is not saved and the following dialog appears.

When clicking [Yes], the file is saved as temporary file and shift to Standard mode.
When clicking [No], the following dialog appears.

When clicking [Yes], the file is not saved and JobEditor DX200 is restarted.
When clicking [No], changing language is canceled.
5.8 Batch-Change the Job Folder Name

To batch-change the job folder name, all opened files are closed.

The [Batch Change Folder Name] dialog box appears.

① Click [button].
② Click [ ] [Batch Change Folder Name].
③ Click [Yes].
④ Select the job folder name.
The jobs which are using the selected job folder name is displayed in a list.

5. Check the check box of the jobs to change. (When check the [Select All] check box, all jobs are checked.)

6. Select the job folder name or enter the new job folder name.

7. Click [Change].

NOTE: Enter maximum of 32 characters for the job folder name.
5.9 Changing the Default Mode

Change the mode when opening a job file. The default is the standard mode.

1. Click [Settings].
2. Click [View settings].
3. Select start up mode.
4. Click [OK].

The [Display Setting] dialog box appears.

5. Click [OK].

The following dialog appears. Please restart JobEditor DX200.

6. Click [OK].
6 APPENDIX

6.1 Frequently-asked questions

6.1.1 When the driver has been installed with USB type key connected to a personal computer

1. Under the state that the USB type key is attached to the personal computer, delete the item registered as "USB Token" in Device Manager.
2. Uninstall the driver (Sentinel System Driver) with [Add/Remove Programs].
3. Install the driver with key detached from personal computer. With the procedure above, the driver can be performed normally.
   (For installation, refer to section 1.2 Hardware Lock Key”)

6.1.2 When the previous version driver has been installed after installing the driver

In this case, a problem may arise rarely. Therefore, uninstall the driver Sentinel System Driver by [Add / Remove Programs].
(For installation, refer to section 1.2 “Hardware Lock Key” in the following section.)