YRC1000 OPTIONS INSTRUCTIONS
FOR ONLINE MANUAL FUNCTION

Upon receipt of the product and prior to initial operation, read these instructions thoroughly, and retain for future reference.

MOTOMAN INSTRUCTIONS
MOTOMAN-□□□ INSTRUCTIONS
YRC1000 INSTRUCTIONS
YRC1000 OPERATOR'S MANUAL (GENERAL) (SUBJECT SPECIFIC)
YRC1000 MAINTENANCE MANUAL
YRC1000 ALARM CODES (MAJOR ALARMS) (MINOR ALARMS)

The YRC1000 operator's manual above corresponds to specific usage. Be sure to use the appropriate manual. The YRC1000 operator's manual above consists of "GENERAL" and "SUBJECT SPECIFIC". The YRC1000 alarm codes above consists of "MAJOR ALARMS" and "MINOR ALARMS".

Please have the following information available when contacting Yaskawa Customer Support:
• System
• Primary Application
• Software Version (Located on Programming Pendant by selecting: [Main Menu] - [System Info] - [Version])
• Robot Serial Number (Located on robot data plate)
• Robot Sales Order Number (Located on controller data plate)

Part Number: 178948-1CD
Revision: 0
DANGER

• This manual explains the Online manual function of the YRC1000 system. Read this manual carefully and be sure to understand its contents before handling the YRC1000. Any matter, including operation, usage, measures, and an item to use, not described in this manual must be regarded as “prohibited” or “improper”.

• General information related to safety are described in “Chapter 1. Safety” of the YRC1000 INSTRUCTIONS. To ensure correct and safe operation, carefully read “Chapter 1. Safety” of the YRC1000 INSTRUCTIONS.

CAUTION

• In some drawings in this manual, protective covers or shields are removed to show details. Make sure that all the covers or shields are installed in place before operating this product.

• YASKAWA is not responsible for incidents arising from unauthorized modification of its products. Unauthorized modification voids the product warranty.

NOTICE

• 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.
Notes for Safe Operation

Read this manual carefully before installation, operation, maintenance, or inspection of the YRC1000.

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”.

Before operating the manipulator, make sure the servo power is turned OFF by performing the following operations. When the servo power is turned OFF, the SERVO ON LED on the programming pendant is turned OFF.

- Press the emergency stop buttons on the front door of the YRC1000, on the programming pendant, on the external control device, etc.
- Disconnect the safety plug of the safety fence.

(when in the play mode or in the remote mode)

If operation of the manipulator cannot be stopped in an emergency, personal injury and/or equipment damage may result.

Fig. : Emergency Stop Button

Before releasing the emergency stop, make sure to remove the obstacle or error caused the emergency stop, if any, and then turn the servo power ON.

Failure to observe this instruction may result in personal injury caused by unintended manipulator movement.

Fig. : Release of Emergency Stop

Observe the following precautions when performing a teaching operation within the P-point maximum envelope of the manipulator:

- Be sure to perform lockout by putting a lockout device on the safety fence when going into the area enclosed by the safety fence. In addition, the operator of the teaching operation must display the sign that the operation is being performed so that no other person closes the safety fence.
- View the manipulator from the front whenever possible.
- Always follow the predetermined operating procedure.
- Always keep in mind emergency response measures against the manipulator’s unexpected movement toward a person.
- Ensure a safe place to retreat in case of emergency.

Failure to observe this instruction may result in personal injury caused by improper or unintended manipulator movement.

Confirm that no person is present in the P-point maximum envelope of the manipulator and that the operator is in a safe location before:

- Turning ON the YRC1000 power
- Moving the manipulator by using the programming pendant
- Running the system in the check mode
- Performing automatic operations

Injury may result if any person should enter the P-point maximum envelope of the manipulator during operation. Immediately press an emergency stop button whenever there is a problem. The emergency stop buttons are located on the front panel of the YRC1000 and on the right of the programming pendant.

Read and understand the Explanation of the Warning Labels before operating the manipulator.
Definition of Terms Used Often in This Manual

The MOTOMAN is the YASKAWA industrial robot product.

The MOTOMAN usually consists of the manipulator, the controller, the programming pendant, and supply cables.

In this manual, the equipment is designated as follows.

<table>
<thead>
<tr>
<th>Equipment</th>
<th>Manual Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>YRC1000 controller</td>
<td>YRC1000</td>
</tr>
<tr>
<td>YRC1000 programming pendant</td>
<td>Programming pendant</td>
</tr>
<tr>
<td>Cable between the manipulator and the controller</td>
<td>Manipulator cable</td>
</tr>
</tbody>
</table>
Descriptions of the programming pendant keys, buttons, and displays are shown as follows:

<table>
<thead>
<tr>
<th>Equipment</th>
<th>Manual Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Programming Pendant</td>
<td></td>
</tr>
<tr>
<td>Character Keys /Symbol Keys</td>
<td>The keys which have characters or its symbols printed on them are denoted with [ ]. ex. [ENTER]</td>
</tr>
<tr>
<td>Axis Keys /Numeric Keys</td>
<td>[Axis Key] and [Numeric Key] are generic names for the keys for axis operation and number input.</td>
</tr>
<tr>
<td>Keys pressed simultaneously</td>
<td>When two keys are to be pressed simultaneously, the keys are shown with a “+” sign between them, ex. [SHIFT]+[COORD]</td>
</tr>
<tr>
<td>Displays</td>
<td>The menu displayed in the programming pendant is denoted with {}. ex. {JOB}</td>
</tr>
</tbody>
</table>

**Description of the Operation Procedure**

In the explanation of the operation procedure, the expression “Select • • •” means that the cursor is moved to the object item and [SELECT] is pressed, or that the item is directly selected by touching the screen.

**Registered Trademark**

In this manual, names of companies, corporations, or products are trademarks, registered trademarks, or brand names for each company or corporation. The indications of (R) and ™ are omitted.
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1 Online Manual Function

Online manual function is a function which can display the manual on the programming pendant from a USB device, such as a flash drive or a memory card.

By using this online manual function, it is able to read and confirm the setting of the YRC1000 or the operation instructions through the programming pendant. This function also enables to display the manipulator manual and PDF files on the screen which are made by users.
To operate online manual function, create a YASKAWA file for saving the PDF files in the USB device, and then insert the USB device to the programming pendant.

- Refer to YRC1000 INSTRUCTIONS (RE-CTO-A221) for recommended USB devices. When connect the USB device to the programming pendant, the waterproof function does not perform. Keep connecting the USB device causes a risk of falling off the USB device.

- While the online manual function is running, following keys and keys to the online manual function can be used. (Refer to chapter 5 “Operation Procedure”)

  - Start button
  - Hold button
  - Emergency stop
  - Mode key
  - Enable switch

- Because of the limitation of the keys which show above, the manipulator operation (JOG operation) at the teach mode cannot be performed. The manipulator will stop when trying to perform the online manual function during the operation. The termination of the online manual function enables to use keys. Please do not terminate the online manual function while pressing the axis operation key. It may cause danger.

- Even though playback continues as valid (S2C437=), playback continuing display does not appear during the online manual function operation. It will appear when the online manual function operation is terminated.

- Use a font-embed PDF file when using the online manual function. A PDF file would not be displayed properly in case the PDF file is created before fonts are embed. To avoid this to happen, embed fonts first, and then create the PDF file. Once fonts are embedded, the fonts data is saved and the file is properly displayed even if the fonts do not exist in the programming pendant system.
2 Basic Specification

<table>
<thead>
<tr>
<th>Items</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manuals</td>
<td>· USER’S MANUAL (PDF files in the YASKAWA folder)</td>
</tr>
<tr>
<td></td>
<td>Maximum length of PDF file name</td>
</tr>
<tr>
<td></td>
<td>200 characters</td>
</tr>
<tr>
<td></td>
<td>Maximum capacity of PDF file</td>
</tr>
<tr>
<td></td>
<td>1 GB</td>
</tr>
<tr>
<td>Function</td>
<td>· Operation by keys</td>
</tr>
<tr>
<td></td>
<td>Switching page</td>
</tr>
<tr>
<td></td>
<td>Scrolling screen</td>
</tr>
<tr>
<td></td>
<td>Termination of the online manual function</td>
</tr>
<tr>
<td></td>
<td>· Operation by operation buttons</td>
</tr>
<tr>
<td></td>
<td>Switching page</td>
</tr>
<tr>
<td></td>
<td>Zoom in / Zoom out</td>
</tr>
<tr>
<td></td>
<td>Full view</td>
</tr>
<tr>
<td></td>
<td>Fit width view</td>
</tr>
<tr>
<td></td>
<td>Termination of the online manual function</td>
</tr>
<tr>
<td></td>
<td>· Changing the displayed manual by selecting the files</td>
</tr>
<tr>
<td></td>
<td>· Specifying the page or the number of the page</td>
</tr>
<tr>
<td></td>
<td>· Searching a text string</td>
</tr>
</tbody>
</table>
3 Start-Up Method of the Online Manual Function

1. Select {ONLINE MANUAL} under the main menu.
   – On the sub menu, a list of available manuals appears.

   When selecting {USERS MANUAL}, the user’s manual in YASKAWA folder appears.
   Refer to chapter 3.4 “Displaying of User’s Manual” for the details.

   When selecting {MANUAL LIST}, a list of user’s manuals system manuals appears.
   Refer to chapter 3.3 “Displaying of Manual List” for the details.

   When selecting {MENU SETTING}, customizing of the sub menu is executed.
   Refer to chapter 3.1 “Customization of Menu Items” for the details.
3.1 Customization of Menu Items

By customizing the menu items of the online manual function, arbitrary user manual can be easily displayed.

Also, load MENU SETTING file on the programming pendant when customizing the items on the sub menu.

3.1.1 Menu Setting File

Follow the procedures below for creating the menu setting file.

1. Create YASKAWA folder directly under “Removal Disc (USB memory)”.

2. Create ManualMenu.ini; the menu setting file under YASKAWA folder.
3 Start-Up Method of the Online Manual Function
3.1 Customization of Menu Items

Following is an example of the menu setting file.

```
[ENGLISH]
FILE1="Sample.pdf"
MENU="Sample Manual"
FILE2="test.pdf"
MENU2="Test"
```

```
[JAPANESE]
FILE1="Sample.pdf"
MENU="サンプル マニュアル"
FILE2="test.pdf"
MENU2="テスト"
FILE3="Sample.pdf"
MENU3="基本操作"
```

**Setting Item** | **Content**
---|---
[XXXXX] | **[Language]** Specify a language to be displayed on the programming pendant.  
ENGLISH | ... English  
JAPANESE | ... Japanese  
GERMAN | ... German  
SWEDISH | ... Swedish  
FRENCH | ... French  
FINNISH | ... Finnish  
ITALIAN | ... Italy  
SPANISH | ... Spanish  
HANGUL | ... Korean  
CHINESE | ... Chinese  
TAIWANESE | ... Taiwanese  
CZECH | ... Czech  
POLISH | ... Polish  
RUSSIAN | ... Russian  
THAI | ... Thai  
DUTCH | ... Dutch

FILEXX  
(XX: 1 to 16) | **[File name]** Specify a manual name to be displayed when a menu is selected.  
Restriction:  
- Maximum file name number should be 16.  
FILEXX and MENUXX are to be displayed together.

MENUXX  
(XX: 1 to 16) | **[MENU name]** Specify a manual name to be displayed on the sub menu.  
Restriction:  
- Maximum file name number should be 16.  
- Maximum character numbers of the file name should be 24 in one-byte  
(12 when double-byte).  
FILEXX and MENUXX are to be displayed together.  
Use a specified language to avoid character corruption.

1 Available only when the bilingual function is valid.
3.1.2 Load the Menu Setting File

Follow the procedures below when copying the menu setting files in the USB memory to the programming pendant.

1. Select (MENU SETTING) from (ONLINE MANUAL).
   - Following dialog box appears.

2. Select (Load) button.
   - Confirmation dialog box appears.
3. Select {Yes}.
   - The menu setting files in the USB memory is loaded (over written) to the programming pendant.

After selecting {Yes} on the above mentioned dialog box, following message appears if:

- USB memory is not connected
- there is no YASKAWA folder or menu setting files in the USB
- menu setting file is stored in the wrong place
- the format of the menu setting file is wrong

Of these cases, only when the format of the menu setting file is wrong, the error line number is displayed as below.

4. Select {No}.
   - Confirmation dialog box closes.
3.1.3 Save the Menu Setting File

Follow the procedures below when copying the menu setting files in the programming pendant to the USB memory.

1. Select {MENU SELECT} from {ONLINE MANUAL}.
   - Following dialog box appears.

2. Select {Save} button.
   - Confirmation dialog box appears.
3. Start-Up Method of the Online Manual Function

3.1 Customization of Menu Items

3. Select {Yes}.
   – The menu setting files in the programming pendant is saved (over written) in the USB memory.

After selecting {Yes} on the above mentioned dialog box, following message appears if:

- USB memory is not connected
- there is no menu setting files in the programming pendant

4. Select {No}.
   – Confirmation dialog box closes.
3.1.4 Delete the Menu Setting File

Follow the procedures below when deleting the menu setting file in the programming pendant.

1. Select {MENU SELECT} from {ONLINE MANUAL}.
   - Following dialog box appears.

2. Select {Delete} button.
   - Confirmation dialog box appears.
3. Select {Yes}.
   - The menu setting files in the programming pendant are deleted.

After selecting {Yes} on the above mentioned dialog box, following message appears if the menu setting file is not found in the programming pendant.

4. Select {No}.
   - Confirmation dialog box closes.
3.2 Storing Method of the Manual

The online manual function displays the user’s manuals and system manuals in the USB memory.

Follow the procedures below when storing those manuals in the USB memory.

[User’s manual]

1. Create YASKAWA folder directly under “Removal Disc (E)” (USB memory).

2. Store the indicated PDF files in the YASKAWA folder.
3.3 Displaying of Manual List

Display a list of available manuals.

Follow the procedures below to display the list.

1. Select {MANUAL LIST} from the sub menu of {ONLINE MANUAL}.
   - The online manual function starts up and {Select File} dialog box appears.
   Note: for the details of the dialog above, refer to chapter 5.5 “Selecting the File Dialog”. 
3 Start-Up Method of the Online Manual Function
3.3 Displaying of Manual List

- When selecting a list of manuals, following message appears if:
  - USB memory is not connected
  - there is no YASKAWA folder or PDF files in the USB
  - the PDF file is stored in the wrong place
  - the PDF file cannot be recognized
3.4 Displaying of User’s Manual

Display the user’s manual in the online manual function.

When the sub menu is not customized, follow the procedures below to display the user’s manual.

1. Select {USER’S MANUAL} from the sub menu of {ONLINE MANUAL}.

   The online manual function starts up and the user’s manual previously indicated appears.
   In case when it is indicated first time after the power supply is turned ON, the {Select File} dialog box appears instead.
   And if a previously indicated user’s manual appeared, the “previously displayed page and its magnification” is indicated. (It is re-set, when the power is turned OFF and then ON again.)
Follow the procedures below to display the user’s manual in case the sub menu is customized.

Note: The user’s manuals are displayed also by pressing {USER’S MANUAL} button.

1. Select the “already set sub menu name” from the sub menu of {ONLINE MANUAL}.

The online manual function starts up and set manual appears. In case when it is indicated first time after the power supply is turned ON, “the first page and its magnification 100%” appears instead. And if a previously indicated user’s manual appeared, the “previously displayed page and its magnification” is indicated. (It is re-set, when the power is turned OFF and then ON again.)
When selecting the user’s manuals, following message appears if:

- USB memory is not connected
- there is no YASKAWA folder or PDF files in the USB
- the PDF file is stored in the wrong place
- the PDF file cannot be recognized
4 Display Configuration

The online manual function display is configured from the following two areas.

- Viewer area
- Operation button area

A. Viewer area
   - Displays the manuals.
   - By touching the viewer area or pressing the area key to move the focus area can operate the viewer area.
   - When the manual do not fit in the viewer area, scroll bars (horizontal/vertical) will appear.
   - When the manual fit in the viewer area, scroll bars do not appear.

   e.g. Full view

   ![Full view diagram]
4 Display Configuration

B. Operation button area
Displays the operation buttons.

By touching the operation button area or pressing the area key to move the focus will be able to operate the area.

Displayed buttons turn into the active or inactive by moving the focus area.

e.g. Previous page button

There are two operation button lines which can be switched by pressing the switch button.

C. Switch button
Switches to the different display indication.

D. Bookmarks button
Displays the table of contents.
(If there is no table of contents, it will turn the invalid indication.)

E. Prev Page button
Displays the previous page.
(If there is no previous page, it will turn the invalid indication.)

F. Next Page button
Displays the next page.
(If there is no next page, it will turn the invalid indication.)

G. Zoom Out button
Zoom out the display.
25% zoom out for each time. The lowest zoom out is 25%.
(If zoom-out does not work, it will turn the invalid indication.)

H. Zoom In button
Zoom in the display.
25% zoom in for each time. The maximum zoom in is 200%.
(If zoom-in does not work, it will turn the invalid indication.)

I. Find button
Displays the searching dialog.
4 Display Configuration

J. Close button
Terminates the online manual function.

K. Open button
Displays the select file dialog.

L. First Page button
Displays the first page of the manual.
(When the screen displays the first page already, it will turn the invalid indication.)

M. Go To Page button
Displays the specifying page dialog.

N. Last Page button
Displays the last page of the manual.
(When the screen displays the last page already, it will turn the invalid indication.)

O. Fit Page button
Displays the full view.

P. Fit Width button
Displays the fit width view.
5 Operation Procedure

5.1 Viewer Area

When the viewer area is active, the following keys can be used.

In order to activate the viewer area, touch the area or move the focus area by pressing the area key.

• [CURSOR] key
  To scroll up, down, left and right in the display when the scroll bar(s) appear(s).
  Touching the scroll bar(s) directory to the display also operate the viewer area.
  Pressing [SHIFT] + [CURSOR] can display the top, down, left and right corner of the screen.

• Page key
  Going to a next page.
  Go to a previous page by pressing the [SHIFT] key + page key.

• Area key
  Move the focus area in the viewer and operation button areas.
5.2 Operation Button Area

Pressing the key when the operation buttons are active or touching on the screen executes the operation.

In order to activate the operation button area, touch the area on the screen or move the focus area by pressing the area key.

- **[CURSOR] key**
  Pressing the up or down cursor key moves the focus area. Pressing the left or right cursor key switches the indication of the operation button line.

- **Page key**
  Going to a next page.
  
  Go to a previous page by pressing the [SHIFT] key + page key.

- **Area key**
  Move the focus area in the viewer and operation button areas.

- **[SELECT] key**
  Executes a command from the active button, and also touching the operation buttons on the screen as well.
5 Operation Procedure
5.3 A Table of Contents Dialog

Displays the table of contents of the manual by pressing the {Bookmarks}.

Select the page from the table of contents. Selected page appears by pressing the {OK} in the dialog.

5.4 Search Dialog

Executes searching for a text string in the manual by pressing the {Find}.

For searching the text string, perform the following procedures.
1. Press (Keypad) button.
   - Keypad for typing text appears.

2. Type the text.
   - After typing the text string, press {Enter}, and then the text string appears in the dialog.
5 Operation Procedure
5.4 Search Dialog

3. Press the {Find} key.
   - Searching for the text string is executed. When the text string is found, it will be displayed in a blue box in the page.

   - Searching for the text string may take some time.
   - The status of the searching can be checked on the progress bar.
5 Operation Procedure

5.5 Selecting the File Dialog

Displays the manual list by pressing the {Open} in the operation button area.
Select the desired PDF file, and press {OK} to display the file.

5.6 Specifying the Page Dialog

Displays the specified page by pressing the {Go To Page} in the operation button area.
For displaying the specified page, operate the following procedures.

1. Press [NUMBER] key(s).
   - Input the numeric character(s) of the desired page by pressing the button.
   - To clear the input information, press [SHIFT] key + [DOWN CURSOR] key.
2. Press {JUMP} button.
   Required page will be appear.
6 Error Massage

If an error occurs during the operation, such as a file operation error or a processing error, the online manual function will deliver the following error massages.

When an error massage appears, press (OK) to remove the massage and then take the following actions.

<table>
<thead>
<tr>
<th>Error massage</th>
<th>Corrective Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Failed to open file. Exit the Online Manual.</td>
<td>Check if the USB device is securely connected to the device, there is a manual in the USB device and the manual is saved in the collect area.</td>
</tr>
<tr>
<td></td>
<td>Refer to chapter 3 “Start-Up Method of the Online Manual Function”</td>
</tr>
<tr>
<td></td>
<td>Confirm all of the above status, and restart the online manual function after fixed the status.</td>
</tr>
<tr>
<td>File was not found. Exit the Online Manual.</td>
<td>Check if the USB device is securely connected to the device, there is a manual in the USB device and the manual is saved in the collect area.</td>
</tr>
<tr>
<td></td>
<td>Refer to chapter 3 “Start-Up Method of the Online Manual Function”</td>
</tr>
<tr>
<td></td>
<td>Confirm all of the above status, and restart the online manual function after fixed the status.</td>
</tr>
<tr>
<td>Failed to access file. Exit the Online Manual.</td>
<td>Check if the USB device is securely connected to the device.</td>
</tr>
<tr>
<td>Available memory is low. Exit the Online Manual.</td>
<td>Terminate the other activate applications.</td>
</tr>
<tr>
<td>SDK error occurred. Exit the Online Manual.</td>
<td>An error occurs during the internal processing.</td>
</tr>
<tr>
<td></td>
<td>Restart the online manual function.</td>
</tr>
<tr>
<td>Switching language failed since the target language file was not found.</td>
<td>Store the different manual which is written another language to the USB device. After stored the manual, restart the online manual function, and switch the language.</td>
</tr>
<tr>
<td>Searched string not found.</td>
<td>The text string is not found in this manual.</td>
</tr>
<tr>
<td>Invalid page index.</td>
<td>Type the numerical character from 1 to the last page number.</td>
</tr>
</tbody>
</table>
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INSTRUCTIONS
FOR ONLINE MANUAL FUNCTION

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