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

MOTOMAN INSTRUCTIONS

The DX200 operator’s manual above corresponds to specific usage. Be sure to use the appropriate manual.

Part Number: 165559-1CD
Revision: 0
## DX200 Standard Setup

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1 Overview of DX200 Setup Procedure

The following flowchart overviews how to set up the DX200.

DX200 setup

START

CF preparation for YCP21

YCP21 setup

CF/USB preparation for programming pendant

Programming pendant setup

System configuration initialization in maintenance mode

EAXA21 boot setup

END

Required Items:
- Personal computer
  (Either Windows95, Windows98, Windows98SE, Windows2000, Windows XP, Windows VISTA or Windows7 which can use CD and CF)
- Shipping CF
- CD (with system version pre-installed) distributed from Yaskawa design division
  Operation Time: Approx. 10 minutes

Required Items:
- Personal computer
  (Windows which can use CD and CF)
- CF (or UCB) for operation
- CD (with system version pre-installed) distributed from Yaskawa design division
  Operation Time: Approx. 18 minutes

Required Items:
- Boot ROM
- Boot ROM board (BT2004)
  Operation Time: Approx. 5 minutes
2 YCP21 Setup

2.1 Preparing the CF for YCP21

Prepare the following items for the YCP21 setup operation.

- A personal computer: either Windows95, Windows98, or Windows98SE, Windows2000, WindowsXP, WindowsVISTA, Windows7, which can use CD and CF
- Shipping CF
- CD (with system version pre-installed) distributed from Yaskawa design division

*The CF used for YCP21 requires no pretreatment because it is already formatted by the CF manufacturer.

2.1 Preparing the CF for YCP21

Followings are the data writing procedures into the shipping CF which is to be mounted on YCP21 (CPU) board.

1. Insert the CF into the CF reader/writer.
2. Insert the CD (with system version pre-installed) distributed from Yaskawa design division into the personal computer, and start up the Explorer. Then select (double-click) the CD drive.

3. Start up (double-click) “mk_vx_cf.exe”.

![Image of computer interface showing CD drive and file explorer]

![Image of computer interface showing file explorer and mk_vx Cf.exe file]
4. Click “Main CPU Board,” and then click the appropriate language in “Language” part.

Each abbreviation indicates the language as follows:

- JP: Japanese
- US: English
- DE: German
- IT: Italian
- ES: Spanish
- FI: Finnish
- SE: Swedish
- FR: French
- KR: Korean
- CN: Chinese
- TW: Taiwanese
- CZ: Czech
5. Confirm that the version described in the Software Modification Instructions and the version in the following window are the same. Then click “Set boot loader” check box and “Delete all file” check box under “Operation,” and click (START).

PROHIBITED

- Never execute the following operations while data is being written into the CF.
  - Do not turn OFF the USB hub power supply.
  - Do not remove the USB port connection from the personal computer.
  - Do not remove the CF reader/writer from the USB hub.
  - Do not remove the CF from the CF reader/writer.

Failure to observe these instructions may cause CF failure.
6. When the data has been written into the CF successfully, “OK” is displayed in the second column under “Target Drives”. To prepare seven CFs, it takes approx. two minutes.

7. Remove the CF from the CF reader/writer.
2.2 Setting Up the YCP21 Board

1. Insert the CF prepared in Section 2.1 “Preparing the CF for YCP21” on page 2-1 into the YCP21 board.

2. Move the CF slot cover to prevent the CF from dropping, and fix the cover with screws.
   The YCP21 setup has been completed.
Prepare the following items.
Setting up operation requires either CF or USB memory (hereinafter referred to as "USB").

• A personal computer: Windows which can use CD and CF
• CF or USB for operations 1) 2)
• CD (with system version pre-installed) distributed from Yaskawa design division

1) The CF used for YCP21 requires no pretreatment because it is already formatted by the CF manufacturer.

If it should not read the data, format it with the following OS or file system before using.

<table>
<thead>
<tr>
<th>PC OS</th>
<th>DOS</th>
<th>Windows 98</th>
<th>Windows 2000</th>
<th>Windows XP</th>
<th>Windows Vista</th>
<th>Windows 7</th>
</tr>
</thead>
<tbody>
<tr>
<td>File System</td>
<td>FAT</td>
<td>FAT32</td>
<td>FAT</td>
<td>FAT32</td>
<td>FAT</td>
<td>FAT32</td>
</tr>
<tr>
<td>CF</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>USB</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
</tbody>
</table>

○: Available file system format

2) Followings are the recommended CFs and USB.

[Recommended CF] MCF10P-256MS-YE2 (Hagiwara Solutions Co.,Ltd)
[Recommended CF] MCF10P-512MS (Hagiwara Solutions Co.,Ltd)
[Recommended CF] MCF10P-A01GS (Hagiwara Solutions Co.,Ltd)
[Recommended CF] MCF10P-A02GS (Hagiwara Solutions Co.,Ltd)
[Recommended USB] UDG4-xGDRJ [x: volume: 1/2/4 GB] (Hagiwara Solutions Co.,Ltd)
3.1 Preparing the CF/USB for Upgrading

Write the data into the “CF/USB for operations” which is to be inserted into the programming pendant as follows:

1. Insert the CF into the CF reader/writer and the USB into the USB slot. Any CF reader/writer of (D:) to (J:) can be used.

   (In case of CF)

   ![CF and CF Reader/Writer](image)

   ![CF Reader/Writer](image)

   (In case of USB)

   ![USB and USB Slot](image)
3 Programming Pendant Setup
3.1 Preparing the CF/USB for Upgrading

2. Insert the CD (with system version pre-installed) distributed from Yaskawa design division into the personal computer, and start up Explorer. Then select (double-click) “CD drive”.

3. Start up (double-click) “mk_vx_cf.exe”.
3 Programming Pendant Setup
3.1 Preparing the CF/USB for Upgrading

4. Check “Main CPU Board,” and then click the appropriate language under “Language.”

Each abbreviation indicates the language as follows:
- JP: Japanese
- US: English
- DE: German
- IT: Italian
- ES: Spanish
- FI: Finnish
- SE: Swedish
- FR: French
- KR: Korean
- CN: Chinese
- TW: Taiwanese
- CZ: Czech
5. Confirm that the version described in the Software Modification Instructions and the version in the following window are the same. Then click "START".
3 Programming Pendant Setup
3.1 Preparing the CF/USB for Upgrading

PROHIBITED

• Never execute the following operations while data is being written into the CF.
  – Do not turn OFF the USB hub power supply.
  – Do not remove the USB port connection from the personal computer.
  – Do not remove the CF reader/writer from the USB hub.
  – Do not remove the CF from the CF reader/writer.

Failure to observe these instructions may cause CF failure.

• Never execute the following operations while data is being written into the USB.
  – Do not turn OFF the USB hub power supply.
  – Do not remove the USB port connection from the personal computer.
  – Do not remove the USB slot from the USB hub.
  – Do not remove the CF from the USB slot.

The LED indicator blinks while the data is being written-in. Do not remove the USB connection or the CF.

The LED indicator blinks in short intervals while the data is being written in. Do not remove the USB till the intervals become longer.
DX200 Standard Setup

3 Programming Pendant Setup
3.1 Preparing the CF/USB for Upgrading

6. When the data has been written into the CF successfully, “OK” is displayed in the second column under “Target Drives”. To prepare seven CFs, it takes approx. five minutes.

7. Remove the CF from the CF reader/writer or the USB from the USB slot.
3.2 Setting Up the Programming Pendant

The following two software need to be written into the programming pendant.

1. NK.BIN: Operating-system software for the programming pendant (managing software)
2. YPP.EXE, etc.: Application software for the programming pendant

For the normal setting up operation, the above two software need to be installed. Also, upgrading of the application software (YPP.EXE, etc.) can be solely executed to the already set-up programming pendant. In this case, start from the step 9 of the following procedures.

1. Confirm that the main power supply of the DX200 is turned OFF.
2. Insert an USB or a CF to the programming pendant.
   When inserting the CF, open the CF slot cover of the programming pendant manually, insert the CF, and then close the CF slot cover. The CF must be inserted with its front face upward.
Before inserting an USB, remove the rubber cap of the USB slot at the back side of the programming pendant.

<USB Slot Position>

<USB Inserting Direction>

Remove the rubber cap.

The rubber cap removed.

USB is inserted.

Insert the USB to the direction shown here.

The rubber cap moved aside.
3. While pressing [2], [8], and [HIGH SPEED] simultaneously, turn ON the DX200 main power supply. Release the keys when the bit-map image appears on the programming pendant screen or a buzzer sounds.

4. NK.BIN (OS: WindowsCE 5.0) in the CF is written into the internal memory (FlashRom) of the programming pendant from SDRAM. At this time, the LED indicators blink as follows:

   - Bit-map image appears.
   - The four LED indicators blink clockwise. The blinking cycle is irregular. (The indicators sometimes blink every one to two seconds, or sometimes four to five seconds.) It takes approx. three minutes to transfer the data.
   - The three LED indicators blink clockwise, every one to two seconds. It takes approx. four minutes to write-in the data.
   - Total time required for transfer and write-in is approx. ten minutes.
5. Approx. seven minutes after the DX200 main power supply is turned ON, the data will be written into FlashRom completely and the window for touch panel calibration appears on the programming pendant. Use a pen for touch panel or anything having a soft and sharp tip end (such as ballpoint pen cap) to touch the center of the window for approx. two seconds.

6. The cross cursor moves to the center, left top, left bottom, right bottom, and then right top of the window in this order. Touch the center of the cross for approx. two seconds for each.
3.2 Setting Up the Programming Pendant

7. When touch calibration is successfully done, the following window appears.

8. Pressing [ENTER] key calls up the following window. Touch OK button at the right top of the dialog box to close the box.

The following describes the procedure for installing application software for the programming pendant.

In case that the operating-system software: NK.BIN has been already installed, hold down [INTERLOCK], [9], and [SELECT] keys simultaneously, and turn ON the DX200 main power supply to start up the system with the display window as shown in procedure 8.

Then, touch “OK” button on the window and perform the installation of application software following the procedures from 9.

9. Use the pen to touch the left bottom, and the task bar appears. Then touch “START” in the task bar.
10. When START menu appears, touch “Programs” and then “Windows Explorer”.

11. Touch “Storage Card” folder to display the stored files in the CF and touch “USB Memory” to show the ones in the USB.

12. Touch “CESETUP.EXE” icon.
3. Programming Pendant Setup

3.2 Setting Up the Programming Pendant

13. Touch the dialog box with “CF→PP” on it. The file starts to be copied from the CF to the “DiskOnChip” folder. It takes 60 seconds to copy the data.

   When it is copied from the USB, START lamp on the programming pendant lights.
   When it is copied from the CF, HOLD lamp on the programming pendant lights.

   <CF>                                                  <USB>
   Touch here. The data starts to be written-in and the HOLD lamp on the programming pendant lights while writing.

14. When the dialog box indicating the completion of copy appears, touch “OK” button at the right top of the dialog box to close the box.

   <CF>                                                  <USB>
   When “END (Success)” appears, touch “OK” button to close the dialog box.
15. Turn OFF the DX200 main power supply. Then be sure to remove the “CF/USB for operations” from the programming pendant.

The setup of the programming pendant has been completed.

Refer to Chapter 5 Initialization of System Configuration in Maintenance Mode for details about putting the license sticker.
4 EAXA21 Boot Setup

Prepare the following item for EAXA21 boot setup operation.

- Boot board (JAPMC-BT2004)

1. With the DX200 main power supply OFF, remove EAXA21 board from the DX200 and connect the boot board with EAXA21 board connector.

2. Mount the boot board on the EAXA21 board, and turn ON the DX200 power supply. The boot write-in starts. After approx. 30 seconds, boot write-in is completed and the EAXA21 board LED indicator starts blinking.

3. Turn OFF the DX200 power supply, and remove the boot board from the EAXA21 board.

4. Turn ON the DX200 power supply, and select {SYSTEM INFO} and then {VERSION}. Confirm the version described in the Software Modification Instructions and the version on the VERSION window are the same.
5 Initialization of System Configuration in Maintenance Mode

1. Turn ON the DX200 main power supply while pressing [MAIN MENU] key.

2. The initial window of the maintenance mode appears in approx. 40 seconds. The 7-segment LED indicators of the YIF01 indicate “F”.

"Maintenance mode” appears
3. Touch {SYSTEM} and then {SECURITY}.

4. Press [SELECT] key on the programming pendant. The initial status of the mode is the editing mode.

5. Use the cursor key of the programming pendant to move the cursor to “MANAGEMENT MODE” and press [SELECT] key.
6. Use the numeric keys of the programming pendant to enter a password specified by the manufacturer. After entering the password, press [ENTER] key.

7. The mode changes to YASKAWA mode.

8. Touch {SYSTEM} and then {INITIALIZE}.
9. The LANGUAGE window to select a language appears. Perform subsequent data settings for initialization in the same manner as the DX100.

10. When the data settings for initialization is completed, the following window appears. Touch {YES} to execute initialization.

Touch "YES"
11. During initialization, the message “Initializing system data. Don’t turn the power OFF” is displayed. Initialization needs approx. 30 seconds.

12. When initialization is completed, the buzzer sounds for a moment, and at the same time, the message “Initializing system data. Don’t turn the power OFF” disappears and (Maintenance mode) appears instead.

13. Turn OFF the DX200 main power supply.
14. If the CF is inserted in the CF slot of the programming pendant, remove it. Then, put the license sticker like shown below. The number on the license sticker does not have to be recorded.

If the system does not start up in the Maintenance mode due to programming pendant hardware failure, never put the licence sticker on it.

**NOTE**

Put the license sticker here.

---

**MANDATORY**

Never fail to put the license sticker on the programming pendant before shipment. It is illegal to ship the programming pendant without it. Please be sure to put the sticker with the notation of “Windows CE 5.0”.
15. Turn ON the DX200 main power supply.
   The main menu appears in approx. 60 seconds. At this time, both
   7-segment indicators of the YIF01 and EAXA21 indicate “d”.

16. Select {SYSTEM INFO} and then {VERSION} to confirm that the
    version described in the Software Modification Instructions and the
    version in the following window are the same. If EAXA21 boot version
    is different, execute EAXA21 boot setup as described in Chapter 4
    EAXA21 Boot Setup.
6 Troubleshooting

This section describes the causes and remedies of the possible failures that are assumed to occur during setup.

### 6.1 Possible Failures at Preparation of the CF

These failures may occur during the following operations.

- **Section 2.1 “Preparing the CF for YCP21”**
- **Section 3.1 “Preparing the CF/USB for Upgrading”**

Failure 1: The selected drives for “mk_vx_cf” tool are not “E:” to “K:”.

<table>
<thead>
<tr>
<th>No.</th>
<th>Cause</th>
<th>Remedy</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>The USB hub power supply is not turned ON.</td>
<td>Connect the AC adapter to the USB hub and insert the AC adapter into the 100-V power supply.</td>
</tr>
<tr>
<td>2</td>
<td>The USB hub is not connected to the USB port of the personal computer.</td>
<td>Connect the USB hub to the USB port of the personal computer.</td>
</tr>
<tr>
<td>3</td>
<td>The USB hub is not connected to the CF reader/writer.</td>
<td>Connect the USB hub to the CF reader/writer.</td>
</tr>
<tr>
<td>4</td>
<td>The CD drive is not set to an appropriate drive (K).</td>
<td>Take above remedies 1 to 3, and then restart the personal computer.</td>
</tr>
</tbody>
</table>
### Troubleshooting

#### 6.1 Possible Failures at Preparation of the CF

Failure 2: “NG” appears on the window when the data is written into the CF.

![Image: File copy error](image)

**Displays the file where a file copy error has occurred.**

<table>
<thead>
<tr>
<th>No.</th>
<th>Cause</th>
<th>Remedy</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>No CF is inserted into the CF reader/writer.</td>
<td>Insert a CF into the CF reader/writer.</td>
</tr>
<tr>
<td>2</td>
<td>No USB is inserted into the USB slot.</td>
<td>Insert a USB into the USB slot.</td>
</tr>
<tr>
<td>3</td>
<td>The capacity of the CF/USB is insufficient.</td>
<td>Click the drive of the relevant removable disc on the personal computer, and delete all the data and files in the CF/USB. Then, try to write-in the data to the CF/USB again.</td>
</tr>
<tr>
<td>4</td>
<td>The CF recommended by Yaskawa design division is not used.</td>
<td>Recommended CF Refer to <em>Chapter 3 Programming Pendant Setup</em></td>
</tr>
<tr>
<td>5</td>
<td>The CF/USB is defective.</td>
<td>Replace the CF/USB with a new one.</td>
</tr>
</tbody>
</table>
6 Troubleshooting
6.2 Possible Failure at Setup of the Programming Pendant

This failure may occur during the following operation.

**Section 3.2 “Setting Up the Programming Pendant”**

Followings are the alarms occur when turning ON the DX200 main power supply or OS write-in procedure is being done.

Failure: Alarms output by BootLoader during OS write-in procedures.

<table>
<thead>
<tr>
<th>Alarm</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>All LED : Lighted</td>
<td>OS is not written into the CF or OS(NK.BIN) cannot be loaded due to hardware failure.</td>
</tr>
<tr>
<td>Buzzer : Sound</td>
<td></td>
</tr>
<tr>
<td>Start SW(^1) : Lighted</td>
<td>Both the USB and the CF are not inserted.</td>
</tr>
<tr>
<td>Hold SW(^2) : Lighted</td>
<td></td>
</tr>
<tr>
<td>Other than above LEDs : Unlit</td>
<td></td>
</tr>
<tr>
<td>Start SW : Lighted</td>
<td>The USB is formatted by a file system that BootLoader cannot recognize.</td>
</tr>
<tr>
<td>Hold SW : Unlit</td>
<td></td>
</tr>
<tr>
<td>Other than above LEDs : Lighted</td>
<td></td>
</tr>
<tr>
<td>Start SW : Unlit</td>
<td>The CF is formatted by a file system that BootLoader cannot recognize.</td>
</tr>
<tr>
<td>Hold SW : Lighted</td>
<td></td>
</tr>
<tr>
<td>Other than above LEDs : Unlit</td>
<td></td>
</tr>
<tr>
<td>Start SW : Blink at 1 sec. cycle</td>
<td>No referable text file for BootLoader exists in the USB.</td>
</tr>
<tr>
<td>Hold SW : Unlit</td>
<td></td>
</tr>
<tr>
<td>Other than above LEDs : Blink at 1 sec. cycle</td>
<td></td>
</tr>
<tr>
<td>Start SW : Unlit</td>
<td>No referable text file for BootLoader exists in the CF.</td>
</tr>
<tr>
<td>Hold SW : Blink at 1 sec. cycle</td>
<td></td>
</tr>
<tr>
<td>Other than above LEDs : Blink at 1 sec. cycle</td>
<td></td>
</tr>
<tr>
<td>Start SW : Blink at 1 sec. cycle</td>
<td>The OS(NK.BIN) mentioned in the text file inside the USB doesn’t exist.</td>
</tr>
<tr>
<td>Hold SW : Unlit</td>
<td></td>
</tr>
<tr>
<td>Other than above LEDs : Unlit</td>
<td></td>
</tr>
<tr>
<td>Start SW : Lighted</td>
<td>The OS(NK.BIN) mentioned in the text file inside the CF doesn’t exist.</td>
</tr>
<tr>
<td>Hold SW : Blink at 1 sec. cycle</td>
<td></td>
</tr>
<tr>
<td>Other than above LEDs : Unlit</td>
<td></td>
</tr>
<tr>
<td>Buzzer : Sound</td>
<td>OS(NK.BIN) which is on RAM cannot be written into FlashRom due to the following reasons.</td>
</tr>
<tr>
<td>(Either of Start SW or Hold SW is lighted.)</td>
<td>1. Capacity of FlashRom is insufficient (writing area &lt; OS size)</td>
</tr>
<tr>
<td></td>
<td>Refer to Section 6.3 “Programming Pendant Flash Rom Format Procedure”</td>
</tr>
<tr>
<td></td>
<td>2. Hardware failure</td>
</tr>
</tbody>
</table>

1 Start SW : allocated to the USB
2 Hold SW : allocated to the USB
6.3 Programming Pendant Flash Rom Format Procedure

Flash Rom of the programming pendant can be reformatted with the following procedures. Note that the pendant application software written in the Flash Rom of the programming pendant will be deleted if Flash Rom of the programming pendant is reformatted.

1. While pressing [INTERLOCK], [9], and [SELECT] simultaneously, turn ON the DX200 main power supply.

2. Pressing [ENTER] key calls up the following window. Touch OK button at the right top of the dialog box to close the box.

3. Use the pen to touch the left bottom, and the task bar appears. Then touch "START" in the task bar. When START menu appears, touch "Programs" and then "Windows Explorer".
6 Troubleshooting
6.3 Programming Pendant Flash Rom Format Procedure

(4) Select "Windows folder".

(5) The contents of the "Windows" folder are displayed.

(6) Select {View} menu → Details.
6.3 Programming Pendant Flash Rom Format Procedure

(7) Touch "DFORMAT_ALL_CLEAR.EXE" icon.

(8) Input TYPE KEY ID '777' and pressing [ENTER] key.

(9) Input Binary Partition Size '44000000' and pressing [ENTER] key.
6.3 Programming Pendant Flash Rom Format Procedure

(10) Select [1] key and Pendant Flash Rom starts formatting.

(11) When the following message appears, turn OFF the DX200 main power supply. Please reboot to let DiskOnChip install itself.

(12) Refer to DX200 setup procedure manual for 3.2 Setting Up the Programming Pendant.
6.4 Redisplaying the Touch Calibration Display

The touch calibration display can be redisplayed with the following procedures:

1. While pressing [HIGH SPEED] and [SLOW] simultaneously, turn ON the DX200 main power supply.

2. A crosshair cursor at the center of the display moves in the following order: Center → Upper left → Lower left → Lower right → Upper right.
   - Press the center of the cursor for approx. 2 seconds at each point.
   - If the touch calibration is failed, the cross cursor returns to the center of the display. In this case, retry the calibration.

3. The following display appears by pressing [ENTER] button on the programming pendant or by touching the display.
6. Troubleshooting
6.4 Redisplaying the Touch Calibration Display

(4) Select [OK] to close the dialog box.

(5) Make sure the dialog box has closed, then turn OFF the DX200 main power supply.
6.5 When the Message 'Cannot find YPP (or one of its components).' is Displayed

If the following message is displayed while using the programming pendant, perform the procedures described in 3.2.
6.6 Possible Failures at YCP21 Setup

These failures may occur during the following operations.

---

**Chapter 5 Initialization of System Configuration in Maintenance Mode**

---

Failure 1: Even 30 seconds after the DX200 main power supply is turned ON, the YIF01 7-segment LED indicator remains in “8” and does not start to count up from “0”.

<table>
<thead>
<tr>
<th>No.</th>
<th>Cause</th>
<th>Remedy</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>No CF is inserted into the CF slot of YCP21.</td>
<td>Insert a CF into the CF slot of YCP21.</td>
</tr>
<tr>
<td>2</td>
<td>Boot sector and software are not written in the CF for the YCP21.</td>
<td>Prepare the CF for YCP21 following the procedures in Section 2.1 “Preparing the CF for YCP21” on page 2-1 and then insert the CF into the CF slot of YCP21.</td>
</tr>
<tr>
<td>3</td>
<td>The CF recommended by Yaskawa design division is not used.</td>
<td>Refer to Chapter 3 Programming Pendant Setup</td>
</tr>
<tr>
<td>4</td>
<td>The CF is defective.</td>
<td>Replace the CF with a new one.</td>
</tr>
</tbody>
</table>

Failure 2: Although the YIF01 7-segment LED indicator counts up from “0” to “d”, the message appears on the programming pendant screen.

<table>
<thead>
<tr>
<th>No.</th>
<th>Cause</th>
<th>Remedy</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>The Ethernet cable is not connected to CN105 (LAN port) of YCP21.</td>
<td>Connect the Ethernet cable to CN105 (LAN port) of YCP21.</td>
</tr>
<tr>
<td>2</td>
<td>The connectors of the cable for the programming pendant are not connected to the connectors on the DX200 and the programming pendant.</td>
<td>Connect the connectors of the cable for the programming pendant to the connectors on the DX200 and the programming pendant.</td>
</tr>
<tr>
<td>3</td>
<td>The programming pendant cable is defective due to disconnection, etc.</td>
<td>Replace the programming pendant cable with a new one.</td>
</tr>
</tbody>
</table>