BEFORE installation, operation, maintenance or inspection of this product, thoroughly read through and understand this manual and all of the associated manuals. Also, take care to handle the module properly and safely.

This manual classifies the safety precautions into two categories: [WARNING] and [CAUTION].

- [WARNING] Indicates that incorrect handling may cause hazardous conditions, resulting in death or severe injury.
- [CAUTION] Indicates that incorrect handling may cause hazardous conditions, resulting in medium or slight personal injury or physical damage.

Depending on the circumstances, procedures indicated by [CAUTION] may also cause severe injury. It is important to follow all precautions for personal safety. Store this manual in a safe place so that it can be taken out and read whenever necessary. Always forward it to the end user.

1. STARTUP AND MAINTENANCE PRECAUTIONS

[WARNING]
- Before modifying or disrupting the program in operation or running the PLC, carefully read through this manual and the associated manuals and ensure the safety of the operation. An operation error may damage the machinery or cause accidents.

[CAUTION]
- Do not disassemble or modify the PLC. Doing so may cause fire, equipment failures, or malfunctions. For repair, contact your local Mitsubishi Electric representative.
- Since the FX-USB-AW and FX3U-USB-BD case is made of resin, do not drop it or exert strong impact to it. Doing so may cause damage.

2. DISPOSAL PRECAUTIONS

[CAUTION]
- Please contact a certified electronic waste disposal company for the environmentally safe recycling and disposal of your device.

3. TRANSPORTATION AND STORAGE PRECAUTIONS

[CAUTION]
- The product is a precision instrument. During transportation, avoid any impacts. Failure to do so may cause failures in the product. After transportation, verify the operations of the product.

Reference: 70
Foreword

This manual describes the installation procedure of the USB driver software for the FX-USB-AW and FX3U-USB-BD. Before use, read this manual and the manuals of all relevant products fully to acquire proficiency in handling and operating the product. Make sure to learn all the product information, safety information, and precautions. Store this manual in a safe place so that you can take it out and read it whenever necessary. Always forward it to the end user.

This manual confers no industrial property rights or any rights of any other kind, nor does it confer any patent licenses. Mitsubishi Electric Corporation cannot be held responsible for any problems involving industrial property rights which may occur as a result of using the contents noted in this manual.

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Outline Precautions

- This manual provides information for the use of the FX-USB-AW and FX3U-USB-BD. The manual has been written to be used by trained and competent personnel. The definition of such a person or persons is as follows;

1) Any engineer who is responsible for the planning, design and construction of automatic equipment using the product associated with this manual should be of a competent nature, trained and qualified to the local and national standards required to fulfill that role. These engineers should be fully aware of all aspects of safety with aspects regarding to automated equipment.

2) Any commissioning or maintenance engineer must be of a competent nature, trained and qualified to the local and national standards required to fulfill the job. These engineers should also be trained in the use and maintenance of the completed product. This includes being familiar with all associated manuals and documentation for the product. All maintenance should be carried out in accordance with established safety practices.

3) All operators of the completed equipment should be trained to use that product in a safe and coordinated manner in compliance with established safety practices. The operators should also be familiar with documentation that is connected with the actual operation of the completed equipment.

Note: the term 'completed equipment' refers to a third party constructed device that contains or uses the product associated with this manual.

• This product has been manufactured as a general-purpose part for general industries, and has not been designed or manufactured to be incorporated in a device or system used in purposes related to human life.

• Before using the product for special purposes such as nuclear power, electric power, aerospace, medicine or passenger movement vehicles, consult with Mitsubishi Electric.

• This product has been manufactured under strict quality control. However when installing the product where major accidents or losses could occur if the product fails, install appropriate backup or failsafe functions into the system.

• When combining this product with other products, please confirm the standards and codes of regulation to which the user should follow. Moreover, please confirm the compatibility of this product with the system, machines, and apparatuses to be used.

• If there is doubt at any stage during installation of the product, always consult a professional electrical engineer who is qualified and trained in the local and national standards. If there is doubt about the operation or use, please consult your local Mitsubishi Electric representative.

• Since the examples within this manual, technical bulletin, catalog, etc. are used as reference; please use it after confirming the function and safety of the equipment and system. Mitsubishi Electric will not accept responsibility for actual use of the product based on these illustrative examples.

• The content, specification etc. of this manual may be changed for improvement without notice.

• The information in this manual has been carefully checked and is believed to be accurate; however, if you notice any doubtful point, error, etc., please contact your local Mitsubishi Electric representative.

Registration

Microsoft, Windows, Windows Vista, and Windows XP are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.

The company names, system names and product names mentioned in this manual are either registered trademarks or trademarks of their respective companies.

In some cases, trademark symbols such as ™ or ® are not specified in this manual.
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<th>Page</th>
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</tr>
</tbody>
</table>

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Associated Manuals

Refer to this manual for details of the installation procedure of the USB driver software for the FX-USB-AW and FX3U-USB-BD.

For product manuals or documents, consult with the Mitsubishi Electric dealer from who you purchased your product.

- Essential manual
- Manuals necessary for some purposes
- Manual with additional manual for detailed explanation

<table>
<thead>
<tr>
<th>Manual name</th>
<th>Manual number</th>
<th>Contents</th>
<th>Model name code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supplied with product</td>
<td>FX-USB-AW User’s Manual</td>
<td>JY997D13201</td>
<td>Explains the mounting and specifications of the FX-USB-AW.</td>
</tr>
<tr>
<td>Supplied with product</td>
<td>FX3U-USB-BD User’s Manual</td>
<td>JY997D13501</td>
<td>Explains the mounting and specifications of the FX3U-USB-BD.</td>
</tr>
<tr>
<td>Separate manual</td>
<td>FX Series User’s Manual - Data Communication Edition</td>
<td>JY997D16901</td>
<td>Details of simple link between PCs, parallel link, computer link and no-protocol communication (RS instructions, FX2N-232IF)</td>
</tr>
</tbody>
</table>

Generic Names and Abbreviations Used in the Manual

<table>
<thead>
<tr>
<th>Abbreviation/ generic name</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Programming tool</td>
<td>Generic name of programming software and handy programming panels</td>
</tr>
<tr>
<td>Programming software</td>
<td>Generic name of programming software</td>
</tr>
<tr>
<td>GX Works2</td>
<td>Generic name of programming software packages SW □DNC-GXW2-J and SW □DNC-GXW2-E</td>
</tr>
<tr>
<td>GX Developer</td>
<td>Generic name of programming software packages SW □D5C-GPPW-J and SW □D5C-GPPW-E</td>
</tr>
<tr>
<td>FX-PCS/WIN(-E)</td>
<td>Generic name of programming software packages FX-PCS/WIN and FX-PCS/WIN-E</td>
</tr>
</tbody>
</table>
1. Outline and Specifications

1.1 Outline

This manual explains the installation method of the USB driver software for FX-USB-AW and FX3U-USB-BD. The FX-USB-AW and FX3U-USB-BD use the same USB driver software. For the mounting, hardware specification and applicable standard of the FX-USB-AW or FX3U-USB-BD, refer to the each product user's manual.

1.2 Specifications

For the hardware specifications of the FX-USB-AW or FX3U-USB-BD, refer to the each product user's manual.

1.2.1 Performance Specifications

1) FX-USB-AW

<table>
<thead>
<tr>
<th>Item</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Current consumption</td>
<td>• 15mA / 5V DC (5V DC power is supplied from the internal power supply of PLC)</td>
</tr>
<tr>
<td></td>
<td>• 30mA / 5V DC (5V DC power is supplied from the USB connector of personal computer)</td>
</tr>
<tr>
<td>Level Conversion</td>
<td>Bidirectional between RS-422 and USB (Between signals are isolated by photocoupler.)</td>
</tr>
<tr>
<td>Baud Rate</td>
<td>115200 bps, maximum (The baud rate is different in PLC.)</td>
</tr>
<tr>
<td>Transmission standard</td>
<td>USB2.0 (For full speed)</td>
</tr>
<tr>
<td>Signal name</td>
<td>To PLC RS-422 (Mini-DIN 8Pin male)</td>
</tr>
<tr>
<td></td>
<td>To a cable USB (Mini-B plug female)</td>
</tr>
</tbody>
</table>

2) FX3U-USB-BD

<table>
<thead>
<tr>
<th>Item</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Current consumption</td>
<td>• 15mA / 5V DC (5V DC power is supplied from the internal power supply of PLC)</td>
</tr>
<tr>
<td></td>
<td>• 30mA / 5V DC (5V DC power is supplied from the USB connector of personal computer)</td>
</tr>
<tr>
<td>Isolation</td>
<td>Photocoupler isolation (Between communication line and CPU)</td>
</tr>
<tr>
<td>Baud Rate</td>
<td>9600/19200/38400/57600/115200 bps</td>
</tr>
<tr>
<td>Transmission standard</td>
<td>USB2.0 (For full speed)</td>
</tr>
<tr>
<td>Port</td>
<td>USB (Mini-B plug female)</td>
</tr>
</tbody>
</table>

1.2.2 USB Cable Specifications

<table>
<thead>
<tr>
<th>Item</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signal name (Port)</td>
<td>To FX-USB-AW or FX3U-USB-BD USB (Mini-B plug male)</td>
</tr>
<tr>
<td></td>
<td>To PC USB (A plug male)</td>
</tr>
<tr>
<td>Length of cable</td>
<td>5m (196.9&quot;) at most (Included cable is 3m(118.1&quot;).)</td>
</tr>
</tbody>
</table>
1.2.3 System Requirements

| OS | Microsoft® Windows® 98<sup>1</sup>, Windows® 98SE<sup>1</sup>  
|    | Microsoft® Windows® Millennium Edition (Windows® Me)<sup>1</sup>  
|    | Microsoft® Windows® 2000<sup>1</sup>  
|    | Microsoft® Windows® XP<sup>2, 3</sup>  
|    | Microsoft® Windows® Vista<sup>2, 3</sup>  
|    | Microsoft® Windows® 7<sup>4</sup>  
|    | Microsoft® Windows® 8<sup>5</sup>  
|    | Microsoft® Windows® 8.1<sup>6</sup>  
|    | Microsoft® Windows® 10<sup>7</sup>  
| Software | GX Works2 (SW□DNC-GXW2-J, SW□DNC-GXW2-E)  
|          | GX Developer (SW□D5C-GPPW-J, SW□D5C-GPPW-E)  
|          | FX-PCS/WIN<sup>8</sup>, FX-PCS/WIN-E<sup>9</sup>  
|          | FX-PCS-VPS/WIN, FX-PCS-VPS/WIN-E  

*1. Use the USB driver for Windows® 98, Windows® 98SE, Windows® Millennium Edition and Windows® 2000 included in the USB driver software Ver. 1.70. This USB driver is the same driver as in software versions earlier than Ver.1.70.

*2. Use the USB driver for Windows® XP and Windows Vista® included in the USB driver software Ver. 1.70. This USB driver is the same driver as the USB driver for Windows Vista® for software version Ver. 1.10. This USB driver is the same driver as the USB driver for Windows® XP and Windows Vista® for software versions Ver. 1.20 and Ver. 1.30.

*3. Only the 32-bit version of this operating system is supported.

*4. USB driver Ver. 1.30 or later is applicable to Windows® 7 32-bit version.  
   USB driver Ver. 1.40 or later is applicable to Windows® 7 64-bit version.  
   Use the applicable USB driver for Windows® 7 included in the USB driver software Ver. 1.70. These USB drivers are the same drivers as in software versions earlier than Ver.1.70.

*5. Use the USB driver for Windows® 8 included in the USB driver software Ver. 1.70.

*6. Use the USB driver for Windows® 8.1 included in the USB driver software Ver. 1.70.

*7. Use the USB driver for Windows® 10 included in the USB driver software Ver. 1.70.

*8. FX-PCS/WIN for versions earlier than 4.30, the communication port setting can be selected from COM1-COM4.  
   For versions 4.30 or later, the communication port setting can be selected from COM1-COM9.

*9. FX-PCS/WIN-E for versions earlier than 3.30, the communication port setting can be selected from COM1-COM4.  
   For versions 3.30 or later, the communication port setting can be selected from COM1-COM9.
2. System Configuration and Connecting Procedure

2.1 System Configuration

For details of the programming communication, refer to the following manual.
→ Refer to the FX Series User's Manual - Data Communication Edition

2.1.1 FX-USB-AW

- PLC
- Positioning unit
- Programmable cam switch

USB driver software

Install

Personal computer

USB cable for personal computer connection (included with the product)

<table>
<thead>
<tr>
<th>Connected equipment</th>
<th>Baud rate</th>
<th>Cable for personal computer connection</th>
</tr>
</thead>
<tbody>
<tr>
<td>Programmable controller</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FX0, FX0S, FX0N, FX1S</td>
<td>9.6 kbps</td>
<td>USB cable of 5m (196.9&quot;) at most</td>
</tr>
<tr>
<td>FX1N, FX1NC*1</td>
<td>19.2 kbps or less</td>
<td></td>
</tr>
<tr>
<td>FX2N (Earlier than Ver. 3.00), FX2NC (Earlier than Ver. 3.00)</td>
<td>9.6 kbps</td>
<td>USB cable of 3m (118.1&quot;)</td>
</tr>
<tr>
<td>FX2N (Ver. 3.00 or later), FX2NC (Ver. 3.00 or later)</td>
<td>19.2 kbps or less</td>
<td></td>
</tr>
<tr>
<td>FX3U, FX3UC</td>
<td>115.2 kbps or less</td>
<td></td>
</tr>
<tr>
<td>Positioning unit</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FX2N-10GM, FX2N-20GM</td>
<td>9.6 kbps</td>
<td></td>
</tr>
<tr>
<td>Programmable cam switch</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FX2N-1RM-E-SET</td>
<td>9.6 kbps</td>
<td></td>
</tr>
</tbody>
</table>

*1. FX1NC Series PLC specification details for I/O, wiring, installation, and maintenance can only be found in the Japanese Manual.

- Please refer to individual PLC manuals for PLCs not mentioned above.

2.1.2 FX3U-USB-BD

- PLC
  + FX3U-USB-BD

USB driver software

Install

Personal computer

USB cable for personal computer connection (included with the product)

<table>
<thead>
<tr>
<th>Connected equipment</th>
<th>Baud rate</th>
<th>Cable for personal computer connection</th>
</tr>
</thead>
<tbody>
<tr>
<td>Programmable controller</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FX3U</td>
<td>115.2 kbps or less</td>
<td>USB cable of 5m (196.9&quot;) at most</td>
</tr>
<tr>
<td>FX3UC-32MT-LT(-2)</td>
<td></td>
<td>(Included cable is 3m (118.1&quot;)</td>
</tr>
</tbody>
</table>
2.2 Connecting Procedure

2.2.1 Connecting Procedure of the FX-USB-AW

1) Power off the PLC.
2) Connect the USB (Mini-B plug male) connector of the USB cable to the FX-USB-AW.
3) Connect the RS-422 (Mini-DIN 8Pin male) connector of the FX-USB-AW to the PLC.
4) Connect the USB (A plug male) connector of the USB cable to the personal computer.
5) Power ON the PLC.
6) Power ON the personal computer.
7) Make sure the POWER lamp of the FX-USB-AW is lit. (The POWER lamp of FX-USB-AW lights up when power is supplied normally by the personal computer.)

2.2.2 Connecting Procedure of the FX3U-USB-BD

1) Power off the PLC.
2) Connect the USB (Mini-B plug male) connector of the USB cable to the FX3U-USB-BD.
3) Connect the USB (A plug male) connector of the USB cable to the personal computer.
4) Turn ON the power supply of the PLC.
5) Turn ON the power supply of the personal computer.
3. Driver Installation

Install the driver using the USB driver software. For USB driver software, consult with your local Mitsubishi Electric sales representative. The driver can be installed from a CD-ROM supplied together with the product manufactured in March 2020 or earlier.

3.1 For USB Driver Software File

Caution

- Please confirm whether the installation is performed normally after the installation of the driver. Regarding confirmation, refer to Chapter 4.
- The driver is not installed properly when the process is canceled during installation. To complete installation, uninstall the driver, and install again. For the uninstallation procedure of the driver, refer to Chapter 5.
- This product requires USB Driver Installation for each USB port to be used. To use multiple USB ports, connect this product to each port, and install the driver each time. The driver is not installed properly if the driver of a different version has already been installed. To complete installation, uninstall the driver, and install again.
  (With Windows Vista®, Windows® 7, Windows® 8/8.1 and Windows® 10, driver installation will occur automatically. In other OS, depending on the PC environment, driver installation may occur automatically, or the location for the file may be required to be specified.)

3.1.1 Installing from a computer hard disk

1) Unzip the USB driver software file.
   Unzip the USB driver software file.

USB driver software folder structure
The folder structure is as follows according to the USB driver software version.

Ver. 1.70 or later
<Unzipped folder name>
   <USB driver software file name>
   <Win2000_ME_98>
   <WinVista_XP>
   The USB driver for Windows® XP and Windows Vista® is stored.
   <Win7>
   The USB driver for Windows® 7 32-bit version is stored.
   <Win7_64>
   The USB driver for Windows® 7 64-bit version is stored.
   <Win8>
   The USB driver for Windows® 8 is stored.
   <Win8_1>
   The USB driver for Windows® 8.1 is stored.
   <Win10_32>
   The USB driver for Windows® 10 32-bit version is stored.
   <Win10_64>
   The USB driver for Windows® 10 64-bit version is stored.
Ver. 1.60 or later
<Unzipped folder name>
   <USB driver software file name>
      <Win2000_ME_98>
      <WinVista_XP>
      The USB driver for Windows® XP and Windows Vista® is stored.
      <Win7>
      The USB driver for Windows® 7 32-bit version is stored.
      <Win7_64>
      The USB driver for Windows® 7 64-bit version is stored.
      <Win8>
      The USB driver for Windows® 8 is stored.
      <Win8_1>
      The USB driver for Windows® 8.1 is stored.

Ver. 1.50
<Unzipped folder name>
   <USB driver software file name>
      <Win2000_ME_98>
      <WinVista_XP>
      The USB driver for Windows® XP and Windows Vista® is stored.
      <Win7>
      The USB driver for Windows® 7 32-bit version is stored.
      <Win7_64>
      The USB driver for Windows® 7 64-bit version is stored.
      <Win8>
      The USB driver for Windows® 8 is stored.

Ver. 1.40
<Unzipped folder name>
   <USB driver software file name>
      <Win2000_ME_98>
      <WinVista_XP>
      The USB driver for Windows® XP and Windows Vista® is stored.
      <Win7>
      The USB driver for Windows® 7 32-bit version is stored.
      <Win7_64>
      The USB driver for Windows® 7 64-bit version is stored.
3 Driver Installation

3.1 For USB Driver Software File

FX-USB-AW/FX3U-USB-BD USER'S MANUAL
USB Driver Installation Edition

Ver. 1.30
<Unzipped folder name>
   <USB driver software file name>
      <Win2000_ME_98>
      <WinVista_XP>
         The USB driver for Windows® XP and Windows Vista® is stored.
      <Win7>
         The USB driver for Windows® 7 32-bit version is stored.

Ver. 1.20
<Unzipped folder name>
   <USB driver software file name>
      <Win2000_ME_98>
      <WinVista_XP>
         The USB driver for Windows® XP and Windows Vista® is stored.

Ver. 1.10
<Unzipped folder name>
   <USB driver software file name>
      <WinXP_2000_ME_98>
      <WinVista>
         The USB driver for Windows Vista® is stored.

 Versions earlier than 1.10
<Unzipped folder name>
   <fxusbdrv>...USB driver software file name
2) Install according to the procedure in Section 3.3.
Specify the following folders for the device driver to specify at installation. For Windows® 2000, Windows® XP, Windows Vista®, Windows® 7, Windows® 8/8.1, and Windows® 10, specify the following drivers when installing the USB driver or USB Serial Port.

### Ver. 1.70 or later

<table>
<thead>
<tr>
<th>OS</th>
<th>Folder specified during installation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Windows® 98</td>
<td>Unzipped folder name/USB driver software file name/Win2000_ME_98</td>
</tr>
<tr>
<td>Windows® 98SE</td>
<td></td>
</tr>
<tr>
<td>Windows® Millennium Edition</td>
<td></td>
</tr>
<tr>
<td>Windows® 2000</td>
<td></td>
</tr>
<tr>
<td>Windows® XP</td>
<td>Unzipped folder name/USB driver software file name/WinVista_XP</td>
</tr>
<tr>
<td>Windows Vista®</td>
<td></td>
</tr>
<tr>
<td>Windows® 7 32-bit version</td>
<td>Unzipped folder name/USB driver software file name/Win7</td>
</tr>
<tr>
<td>Windows® 7 64-bit version</td>
<td>Unzipped folder name/USB driver software file name/Win7_64</td>
</tr>
<tr>
<td>Windows® 8</td>
<td>Unzipped folder name/USB driver software file name/Win8</td>
</tr>
<tr>
<td>Windows® 8.1</td>
<td>Unzipped folder name/USB driver software file name/Win8_1</td>
</tr>
<tr>
<td>Windows® 10 32-bit version</td>
<td>Unzipped folder name/USB driver software file name/Win10_32</td>
</tr>
<tr>
<td>Windows® 10 64-bit version</td>
<td>Unzipped folder name/USB driver software file name/Win10_64</td>
</tr>
</tbody>
</table>

### Ver. 1.60 or later

<table>
<thead>
<tr>
<th>OS</th>
<th>Folder specified during installation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Windows® 98</td>
<td>Unzipped folder name/USB driver software file name/Win2000_ME_98</td>
</tr>
<tr>
<td>Windows® 98SE</td>
<td></td>
</tr>
<tr>
<td>Windows® Millennium Edition</td>
<td></td>
</tr>
<tr>
<td>Windows® 2000</td>
<td></td>
</tr>
<tr>
<td>Windows® XP</td>
<td>Unzipped folder name/USB driver software file name/WinVista_XP</td>
</tr>
<tr>
<td>Windows Vista®</td>
<td></td>
</tr>
<tr>
<td>Windows® 7 32-bit version</td>
<td>Unzipped folder name/USB driver software file name/Win7</td>
</tr>
<tr>
<td>Windows® 7 64-bit version</td>
<td>Unzipped folder name/USB driver software file name/Win7_64</td>
</tr>
<tr>
<td>Windows® 8</td>
<td>Unzipped folder name/USB driver software file name/Win8</td>
</tr>
<tr>
<td>Windows® 8.1</td>
<td>Unzipped folder name/USB driver software file name/Win8_1</td>
</tr>
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</table>

### Ver. 1.50

<table>
<thead>
<tr>
<th>OS</th>
<th>Folder specified during installation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Windows® 98</td>
<td>Unzipped folder name/USB driver software file name/Win2000_ME_98</td>
</tr>
<tr>
<td>Windows® 98SE</td>
<td></td>
</tr>
<tr>
<td>Windows® Millennium Edition</td>
<td></td>
</tr>
<tr>
<td>Windows® 2000</td>
<td></td>
</tr>
<tr>
<td>Windows® XP</td>
<td>Unzipped folder name/USB driver software file name/WinVista_XP</td>
</tr>
<tr>
<td>Windows Vista®</td>
<td></td>
</tr>
<tr>
<td>Windows® 7 32-bit version</td>
<td>Unzipped folder name/USB driver software file name/Win7</td>
</tr>
<tr>
<td>Windows® 7 64-bit version</td>
<td>Unzipped folder name/USB driver software file name/Win7_64</td>
</tr>
<tr>
<td>Windows® 8</td>
<td>Unzipped folder name/USB driver software file name/Win8</td>
</tr>
</tbody>
</table>
## 3.1 For USB Driver Software File

### Ver. 1.40

<table>
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<tr>
<td>Windows® 98</td>
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<td>Windows® 98SE</td>
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</tr>
<tr>
<td>Windows® Millennium Edition</td>
<td>Unzipped folder name\USB driver software file name\Win2000_ME_98</td>
</tr>
<tr>
<td>Windows® 2000</td>
<td></td>
</tr>
<tr>
<td>Windows® XP</td>
<td>Unzipped folder name\USB driver software file name\WinVista_XP</td>
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<tr>
<td>Windows Vista®</td>
<td></td>
</tr>
<tr>
<td>Windows® 7 32-bit version</td>
<td>Unzipped folder name\USB driver software file name\Win7</td>
</tr>
<tr>
<td>Windows® 7 64-bit version</td>
<td>Unzipped folder name\USB driver software file name\Win7_64</td>
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### Ver. 1.30

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</tr>
<tr>
<td>Windows® 98SE</td>
<td></td>
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<tr>
<td>Windows® Millennium Edition</td>
<td>Unzipped folder name\USB driver software file name\Win2000_ME_98</td>
</tr>
<tr>
<td>Windows® 2000</td>
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<tr>
<td>Windows® XP</td>
<td>Unzipped folder name\USB driver software file name\WinVista_XP</td>
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<tr>
<td>Windows Vista®</td>
<td></td>
</tr>
<tr>
<td>Windows® 7 32-bit version</td>
<td>Unzipped folder name\USB driver software file name\Win7</td>
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### Ver. 1.20

<table>
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<td>Windows® 98</td>
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</tr>
<tr>
<td>Windows® 98SE</td>
<td></td>
</tr>
<tr>
<td>Windows® Millennium Edition</td>
<td>Unzipped folder name\USB driver software file name\Win2000_ME_98</td>
</tr>
<tr>
<td>Windows® 2000</td>
<td></td>
</tr>
<tr>
<td>Windows® XP</td>
<td>Unzipped folder name\USB driver software file name\WinVista_XP</td>
</tr>
<tr>
<td>Windows Vista®</td>
<td></td>
</tr>
</tbody>
</table>

### Ver. 1.10

<table>
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<th>OS</th>
<th>Folder specified during installation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Windows® 98</td>
<td>Unzipped folder name\USB driver software file name\WinXP_2000_ME_98</td>
</tr>
<tr>
<td>Windows® 98SE</td>
<td></td>
</tr>
<tr>
<td>Windows® Millennium Edition</td>
<td>Unzipped folder name\USB driver software file name\WinXP_2000_ME_98</td>
</tr>
<tr>
<td>Windows® 2000</td>
<td></td>
</tr>
<tr>
<td>Windows® XP</td>
<td>Unzipped folder name\USB driver software file name\WinVista_XP</td>
</tr>
<tr>
<td>Windows Vista®</td>
<td></td>
</tr>
</tbody>
</table>

### Versions earlier than 1.10

Unzipped folder name\fxusbdrv

### 3.1.2 Copy to CD-R and install

1) Unzip the USB driver software file.
   Unzip the USB driver software file.
   Refer to Subsection 3.1.1 for the folder structure of the decompression destination.

2) Write the data in the download file folder to the root of the CD-R.
   (Use the folder structure described in Section 3.2.)

3) Install according to the procedure in Section 3.3.
3.2 For CD-ROM

Caution

- Please confirm whether the installation is performed normally after the installation of the driver. Regarding confirmation, refer to Chapter 4.
- The driver is not installed properly when the process is canceled during installation. To complete installation, uninstall the driver, and install again. For the uninstallation procedure of the driver, refer to Chapter 5.
- This product requires USB Driver Installation for each USB port to be used. To use multiple USB ports, connect this product to each port, and install the driver each time.
  The driver is not installed properly if the driver of a different version has already been installed. To complete installation, uninstall the driver, and install again.

(With Windows Vista®, Windows® 7, Windows® 8/8.1 and Windows® 10, driver installation will occur automatically. In other OS, depending on the PC environment, driver installation may occur automatically, or the location for the file may be required to be specified.)

USB driver software folder structure
The folder structure is as follows according to the USB driver software version.

Ver. 1.70 or later
<CD-ROM Drive>
  <Win2000_ME_98>
  <WinVista_XP>
    The USB driver for Windows® XP and Windows Vista® is stored.
  <Win7>
    The USB driver for Windows® 7 32-bit version is stored.
  <Win7_64>
    The USB driver for Windows® 7 64-bit version is stored.
  <Win8>
    The USB driver for Windows® 8 is stored.
  <Win8_1>
    The USB driver for Windows® 8.1 is stored.
  <Win10_32>
    The USB driver for Windows® 10 32-bit version is stored.
  <Win10_64>
    The USB driver for Windows® 10 64-bit version is stored.
3 Driver Installation

3.2 For CD-ROM

Ver. 1.60 or later

<CD-ROM Drive>

- <Win2000_ME_98>

- <WinVista_XP>
  The USB driver for Windows® XP and Windows Vista® is stored.

- <Win7>
  The USB driver for Windows® 7 32-bit version is stored.

- <Win7_64>
  The USB driver for Windows® 7 64-bit version is stored.

- <Win8>
  The USB driver for Windows® 8 is stored.

- <Win8_1>
  The USB driver for Windows® 8.1 is stored.

Ver. 1.50

<CD-ROM Drive>

- <Win2000_ME_98>

- <WinVista_XP>
  The USB driver for Windows® XP and Windows Vista® is stored.

- <Win7>
  The USB driver for Windows® 7 32-bit version is stored.

- <Win7_64>
  The USB driver for Windows® 7 64-bit version is stored.

- <Win8>
  The USB driver for Windows® 8 is stored.

Ver. 1.40

<CD-ROM Drive>

- <Win2000_ME_98>

- <WinVista_XP>
  The USB driver for Windows® XP and Windows Vista® is stored.

- <Win7>
  The USB driver for Windows® 7 32-bit version is stored.

- <Win7_64>
  The USB driver for Windows® 7 64-bit version is stored.
3.2 For CD-ROM

Ver. 1.30

<CD-ROM Drive>
  <Win2000_ME_98>
  <WinVista_XP>
  The USB driver for Windows® XP and Windows Vista® is stored.
  <Win7>
  The USB driver for Windows® 7 32-bit version is stored.

Ver. 1.20

<CD-ROM Drive>
  <Win2000_ME_98>
  <WinVista_XP>
  The USB driver for Windows® XP and Windows Vista® is stored.

Ver. 1.10

<CD-ROM Drive>
  <WinXP_2000_ME_98>
  <WinVista>
  The USB driver for Windows Vista® is stored.

Versions earlier than 1.10
The USB driver for software versions earlier than 1.10 does not have a folder structure. The USB driver is stored in the main directory of the CD-ROM drive.

3.2.1 Install from CD-ROM
Install according to the procedure in Section 3.3.
3.3 Installation procedure

3.3.1 Windows 98/98SE/Millennium Edition/2000/XP

Please install the driver with the following procedure. The installation procedure is explained when connecting a personal computer with Windows® XP to the FX-USB-AW.


1) When the USB cable is connected to the personal computer, the following screen is displayed.

**For USB driver software file**

- Windows® XP
  Add a check mark to [ Install from a list or specific location (Advanced) ] and click [ Next > ]. Add a check mark to "Specify search location", and install by specifying the folder of USB driver software file. The window to select the location of the installation files will appear.

  Click [Next>] and the window to select the location of the installation files will appear. Add a check mark to "Specify search location", and install by specifying the folder of USB driver software file.

**For CD-ROM**

Insert the CD-ROM into the personal computer's CD-ROM drive.

- Windows® XP
  Add a check mark to [ Install the software automatically (Recommended) ] and click [ Next > ]. The installation of the USB driver software will begin.

- Windows® 98, Windows® 98SE
  Click [Next>] and the window to select the location of the installation files will appear. Specify the USB driver software version as follows:
  - Ver. 1.20 or later
    Please select "Include this location in the search", and install by specifying the "\Win2000_ME_98" directory in the CD-ROM drive.
  - Ver. 1.10
    Please select "Include this location in the search", and install by specifying the "\WinXP_2000_ME_98" directory in the CD-ROM drive.
  - Versions earlier than 1.10
    Please select the CD-ROM drive.

  Click [Next>] and the window to select the location of the installation files will appear. Please select the CD-ROM drive.
2) When the USB cable is connected to the personal computer, the following screen is displayed.

![Hardware Installation]

The software you are installing for this hardware:
FX-USB AW/FX3U USB BD

has not passed Windows Logo testing to verify its compatibility with Windows XP (Tell me why this testing is important.)

Continuing your installation of this software may impair or destabilize the correct operation of your system either immediately or in the future. Microsoft strongly recommends that you stop this installation now and contact the hardware vendor for software that has passed Windows Logo testing.

Click [ Continue Anyway ].

3) The following screen is displayed.

![Found New Hardware Wizard]

Completing the Found New Hardware Wizard

The wizard has finished installing the software for
FX-USB AW/FX3U USB BD

Click Finish to close the wizard.

Click [ Finish ].

If using Windows® 2000 or Windows® XP, proceed to step 4).

- If Windows® 98, Windows® 98SE or Windows® Millennium Edition is used, installation of the USB Serial Port software begins, and ends automatically.
  When installation from the CD-ROM is complete, the CD-ROM can be removed from the personal computer at this time.
  The installation of the USB driver software is completed.
4) The following screen is displayed.

Follow the same procedure as 1) to install the USB Serial Port software.

5) The screen of 2) is displayed. (Only in Windows® XP)
   Click [ Continue Anyway ].

6) The following screen is displayed.

   Click [ Finish ].
   The installation of the USB Serial Port software will finish.
   When installation from the CD-ROM is complete, the CD-ROM can be removed from the personal computer at this time.
   Next, please confirm whether the installation is performed normally. Regarding confirmation, refer to Chapter 4.
3.3.2 Windows Vista

Please install the driver with the following procedure.
The installation procedure is explained when connecting a personal computer with Windows Vista® to the FX-USB-AW.

1) When the USB cable is connected to the personal computer, the following screen is displayed.

![Screen](image)

Click [Located and install driver software (recommended)].

2) Only when user account control is enabled, the "user account control" screen is displayed.

Click [Continue], when displayed.

3) The following screen is displayed.

(The following screen may be displayed when connected to a Network.)

![Screen](image)

Click [Don't search online].
4) The following screen is displayed.

- For USB driver software file
  Click [I don't have the disc, Show me other options.].
  Click [Browse my computer for driver software (advanced)].
  Add a check mark to [Include subfolders], install by specifying the folder of USB driver software, and click [Next].
- For CD-ROM
  Insert the CD-ROM into the personal computer's CD-ROM drive. The driver in CD-ROM is searched for automatically and installation of the USB driver software will begin.
  If the CD-ROM was already inserted into the personal computer's CD-ROM drive before displaying the above screen, click [Next].

5) The following screen is displayed.

Click [Install this driver software anyway].
6) The following screen is displayed.

![Found New Hardware - FX-USB-AW/FX3U-USB-BD](image)

Click [Close].

7) The following screen is displayed.
(The following screen may be displayed when connected to a Network.)

![Found New Hardware - USB Serial Port](image)

Click [Don't search online].
8) The following screen is displayed.

Follow the same procedure as 4) to install the USB Serial Port software.

9) The screen of 5) is displayed.
Click [ Install this driver software anyway ].

10) The following screen is displayed.

Click [ Close ].
The installation of the USB Serial Port software will finish.
When installation from the CD-ROM is complete, the CD-ROM can be removed from the personal computer at this time.
Next, please confirm whether the installation is performed normally. Regarding confirmation, refer to Chapter 4.
3.3.3 Windows 7

- USB driver Ver. 1.30 or later is applicable to Windows® 7 32-bit version.
- USB driver Ver. 1.40 or later is applicable to Windows® 7 64-bit version.

Please install the driver with the following procedure.

The installation procedure is explained when connecting a personal computer with Windows® 7 to the FX-USB-AW.

**Caution**

- Two driver installations are necessary, "USB driver software" and "USB Serial Port", are both required. Communication is not possible with only one of the two. Please perform both installations with reference to the following procedures.

1) When the USB cable is connected to the personal computer, the message "Installing device driver software" appears, and then the message "Device driver software was not successfully installed" appears.

   Clicking [Click here for details.] does not enable installation.

   Click [X] at the upper right corner to close this message.

2) Click [Start] → [Control Panel] → [System and Security] → [Device Manager] to start up Device Manager and display the following screen.

![Device Manager screenshot](image)

Put the cursor on [FX-USB-AW] in [Other devices], double-click or right-click it, and select [Properties].

Or put the cursor on [FX-USB-AW], right-click it, and select [Update Driver Software...] to omit steps 3) and 4) and jump to step 5).

(For the FX3U-USB-BD, that model name is displayed.)
3) The following screen is displayed.

Select [Driver] tab.

4) The following screen is displayed.

Click [Update Driver...].
5) The following screen is displayed.

![Driver Installation Screen](image)

Click [Browse my computer for driver software].

6) Since the following screen is displayed, the location of the driver is specified.

![Driver Installation Screen](image)

Add a check mark to [Include subfolders].

- For USB driver software file
  Specifying the folder of USB driver software, and click [Next].
- For CD-ROM
  Insert the CD-ROM that has the driver software into the personal computer. Select the CD-ROM drive, and click [Next].
7) The following screen is displayed.

Click [Install this driver software anyway].

8) The installation of the USB driver software is completed, and the following screen is displayed.

Click [Close].

9) The message "Device driver software was not successfully installed" appears again. Clicking [Click here for details.] does not enable installation. Click [X] at the upper right corner to close this message. In order to close the screen of 4) and to install "USB Serial Port", please continue on to the following procedure.
10) Install the USB serial port from Device Manager.

Put the cursor on [  USB Serial Port ] in [ Other devices ], double-click or right-click it, and select [ Properties ].
Or put the cursor on [  USB Serial Port ], right-click it, and select [ Update Driver Software... ] to omit steps 11) and 12) and jump to step 13).

*1. When the driver software is installed successfully by the procedure up to step 9), [ FX-USB-AW/FX3U-USB-BD ] is displayed.

11) The following screen is displayed.

Select [ Driver ] tab.
12) The following screen is displayed.

![USB Serial Port Properties](image)

Click [ Update Driver... ].

13) The following screen is displayed.

![Update Driver Software - USB Serial Port](image)

Click [ Browse my computer for driver software ].
14) The following screen is displayed, specify the location of the driver.

Follow the same procedure as 6) to install the USB Serial Port software.

15) The following screen is displayed.

Click [ Install this driver software anyway ].
16) The following screen is displayed.

![Screenshot showing driver installation success]

Click [Close].
The installation of the USB Serial Port software will finish.
When installation from the CD-ROM is complete, the CD-ROM can be removed from the personal computer at this time.
Next, please confirm whether the installation is performed normally. Regarding confirmation, refer to Chapter 4.
3.3.4 Windows 8/8.1

Please install the driver with the following procedure.
The installation procedure is explained when connecting a personal computer with Windows® 8/8.1 to the FX-USB-AW.

Caution

- Two driver installations are necessary, "USB driver software" and "USB Serial Port", are both required. Communication is not possible with only one of the two. Please perform both installations with reference to the following procedures.

1) When the USB cable is connected to the personal computer.
2) Click [Start] → [All apps] → [Control Panel] → [System and Security] → [Device Manager] to start up Device Manager and display the following screen.

![Device Manager window]

Put the cursor on [FX-USB-AW] in [Other devices], double-click or right-click it, and select [Properties].
Or put the cursor on [FX-USB-AW], right-click it, and select [Update Driver Software...] to omit steps 3) and 4) and jump to step 5).
(For the FX3U-USB-BD, that model name is displayed.)
3) The following screen is displayed.

Select [Driver] tab.

4) The following screen is displayed.

Click [Update Driver...].
5) The following screen is displayed.

Click [Browse my computer for driver software].

6) Since the following screen is displayed, the location of the driver is specified.

Add a check mark to [Include subfolders].
- For USB driver software file
  Specifying the folder of USB driver software, and click [Next].
- For CD-ROM
  Insert the CD-ROM that has the driver software into the personal computer. Select the CD-ROM drive, and click [Next].
7) The following screen is displayed depending on the settings of the personal computer.

Click [Install].

8) The installation of the USB driver software is completed, and the following screen is displayed.

Click [Close].

9) In order to close the screen of 4) and to install "USB Serial Port", please continue on to the following procedure.
10) Install the USB serial port from Device Manager.

Put the cursor on [USB Serial Port] in [Other devices], double-click or right-click it, and select [Properties].
Or put the cursor on [USB Serial Port], right-click it, and select [Update Driver Software...] to omit steps 11) and 12) and jump to step 13).

*1. When the driver software is installed successfully by the procedure up to step 9), [FX-USB-AW/FX3U-USB-BD] is displayed.
11) The following screen is displayed.

![USB Serial Port Properties](image1)

Select [Driver] tab.

12) The following screen is displayed.

![USB Serial Port Properties](image2)

Click [Update Driver...].
13) The following screen is displayed.

Click [Browse my computer for driver software].

14) The following screen is displayed, specify the location of the driver.

Follow the same procedure as 6) to install the USB Serial Port software.
15) The following screen is displayed depending on the settings of the personal computer.

![Windows Security]

Click [Install].

16) The following screen is displayed.

![Update Driver Software]

Click [Close].
The installation of the USB Serial Port software will finish.
When installation from the CD-ROM is complete, the CD-ROM can be removed from the personal computer at this time.
Next, please confirm whether the installation is performed normally. Regarding confirmation, refer to Chapter 4.
3.3.5 Windows 10

Please install the driver with the following procedure. The installation procedure is explained when connecting a personal computer with Windows® 10 to the FX-USB-AW.

Caution

- Two driver installations are necessary, "USB driver software" and "USB Serial Port", are both required. Communication is not possible with only one of the two. Please perform both installations with reference to the following procedures.

1) When the USB cable is connected to the personal computer.
2) Click [ Start ] → [ Windows System ] → [ Control Panel ] → [ Hardware and Sound ] → [ Device Manager ] to start up Device Manager and display the following screen.

```
Device Manager
File Action View Help

\[ PC19445
> Audio inputs and outputs
> Computer
> Disk drives
> Display adapters
> DVD/CD-ROM drives
> Human Interface Devices
> IDE ATA/ATAPI controllers
> IDE drives
> Keyboards
> Mice and other pointing devices
> Monitors
> Network adapters
> Other devices
- FX-USB-AW
> Portable devices
> Ports (COM & LPT)
> Print queues
> Processors
> Security devices
> Software devices
> Sound, video and game controllers
> Storage controllers
> System devices
> Universal Serial Bus controllers
```

Put the cursor on [ FX-USB-AW ] in [ Other devices ], double-click or right-click it, and select [ Properties ].

Or put the cursor on [ FX-USB-AW ], right-click it, and select [ Update Driver Software ] to omit steps 3) and 4) and jump to step 5).

(For the FX3U-USB-BD, that model name is displayed.)
3) The following screen is displayed.

   ![Image of FX-USB-AW Properties]

   Select [Driver] tab.

4) The following screen is displayed.

   ![Image of FX-USB-AW Properties]

   Click [Update Driver].
5) The following screen is displayed.

Click [ Browse my computer for driver software ].

6) Since the following screen is displayed, the location of the driver is specified.

Add a check mark to [ Include subfolders ].
- For USB driver software file
  Specifying the folder of USB driver software, and click [ Next ].
- For CD-ROM
  Insert the CD-ROM that has the driver software into the personal computer. Select the CD-ROM drive, and click [ Next ].
7) The installation of the USB driver software is completed, and the following screen is displayed.

![USB Driver Installation Screen]

Click [Close].

8) In order to close the screen of 4) and to install "USB Serial Port", please continue on to the following procedure.

9) Install the USB serial port from Device Manager.

Put the cursor on [USB Serial Port] in [Other devices], double-click or right-click it, and select [Properties].

Or put the cursor on [USB Serial Port], right-click it, and select [Update Driver Software...] to omit steps 10) and 11) and jump to step 12).

*1. When the driver software is installed successfully by the procedure up to step 8), [FX-USB-AW/FX3U-USB-BD] is displayed.
10) The following screen is displayed.

![Driver tab](image)

Select [Driver] tab.

11) The following screen is displayed.

![Driver tab](image)

Click [Update Driver].
12) The following screen is displayed.

![Driver Installation Screen]

Click [Browse my computer for driver software].

13) The following screen is displayed, specify the location of the driver.

![Driver Installation Screen]

Follow the same procedure as 6) to install the USB Serial Port software.
14) The following screen is displayed.

Click [Close].
The installation of the USB Serial Port software will finish.
When installation from the CD-ROM is complete, the CD-ROM can be removed from the personal
computer at this time.
Next, please confirm whether the installation is performed normally. Regarding confirmation, refer to
Chapter 4.
4. Installation Confirmation of Driver

Procedure for confirming the installation of the driver is described below. Please perform the following procedure, where the FX-USB-AW or FX3U-USB-BD is connected to the personal computer.

Windows® XP example follows.

- In Windows® XP, click [Start] → [Control Panel] → [Performance and Maintenance] → [System] → [Hardware] → [Device Manager] and the window below will be displayed. Please confirm the COM number to which the driver is allocated (COM and LPT).

  A screen that is equivalent to the one below is displayed by clicking [My Computer] → [Control Panel] → [System] → [Device Manager] in the menu of the personal computer.

- If using Windows Vista®
  A screen that is equivalent to the one below is displayed by clicking [Start] → [Control Panel] → [Hardware and Sound] → [Device Manager] in the menu of the personal computer.

When user account control is enabled
Only when user account control is enabled will the "user account control" screen be displayed. Click [Continue], when displayed.

- If using Windows® 7
  A screen that is equivalent to the one below is displayed by clicking [Start] → [Control Panel] → [System and Security] → [Device Manager] in the menu of the personal computer.

- If using Windows® 8/8.1
  A screen that is equivalent to the one below is displayed by clicking [Start] → [All apps] → [Control Panel] → [System and Security] → [Device Manager] in the menu of the personal computer.

- If using Windows® 10
  A screen that is equivalent to the one below is displayed by clicking [Start] → [Windows System] → [Control Panel] → [Hardware and Sound] → [Device Manager] in the menu of the personal computer.
Check following:
1) "FX-USB-AW/FX3U-USB-BD" is displayed at A), as part of the list of the "Universal Serial Bus controllers".
2) "FX-USB-AW/FX3U-USB-BD (COM*)" is displayed at B), as part of the serial port list. * indicates the COM number used in the FX-USB-AW or FX3U-USB-BD.
3) is not displayed.

Identification result:
- If 1) through 3) are all confirmed, installation is normal.
  Select the programming software COM number as the COM number currently assigned on the screen above.
- If any one of 1) through 3) is not satisfied, installation is not normal. (If the USB serial port software is not installed or the installation procedure is canceled in process are possible causes)
  In this case, please start the installation procedure again from the beginning, after uninstalling the driver.
  For the installation procedure of the driver, refer to Chapter 3. For the uninstallation procedure of the driver, refer to Chapter 5.

Setting GX Developer:
Double-click [ Online ] → [ Transfer setup ] → [ Serial USB ] of the PC side I/F.
Select the same COM number as the COM number of the personal computer when the PC side I/F serial setting Dialog Box appears.
Click [ OK ] of [ Connection Setup ] screen to end.
5. Uninstalling Driver

5.1 Windows 98/98SE/Millennium Edition/2000/XP

5.1.1 When the installation of the driver is performed normally

Please uninstall the driver with the following procedure.
A Windows® XP example follows.

1) Detach the USB cable from the personal computer.
   Click [Start] → [Control Panel] → [Add or Remove Programs] in the menu of the personal computer,
   the window below will be displayed.

     A screen that is equivalent to the one below is displayed by clicking [My Computer] → [Control Panel]
     → [Add/Remove Programs] in the menu of the personal computer.

   ![Add or Remove Programs](image)

   Select [FX-USB-AW/FX3U-USB-BD Drivers(V.*)], and click [Change/Remove].
   If a driver version earlier than 1.20 was installed, "FX-USB-AW/FX3U-USB-BD Drivers(V.*)" and "FX-
   USB-AW/FX3U-USB-BD Drivers" may be displayed. In this case, both drivers should be uninstalled by
   clicking [Change/Remove].
   When "FX-USB-AW/FX3U-USB-BD Drivers (V.*)" is not displayed as shown on the screen above,
   please uninstall with the procedure of Subsection 5.1.2.
2) The following screen is displayed.

![FTDI Uninstaller v3.0](image)

Click [Continue].

3) The following screen is displayed.

![FTDI Uninstaller v3.0](image)

Click [Finish].

**5.1.2 When the installation of the driver is not performed normally**

Confirm whether "FX-USB-AW/FX3U-USB-BD Drivers (V*.**)" is displayed in the Add/Remove Programs screen as shown in Subsection 5.1.1.

If "FX-USB-AW/FX3U-USB-BD Drivers (V*.**)" is displayed, uninstall it with the procedure described in Subsection 5.1.1.

If FX-USB-AW/FX3U-USB-BD Drivers (V*.**)" is not displayed, please open "Device Manager" and choose the model name of FX-USB-AW or FX3U-USB-BD. Then right-click on the name and select "Delete".

Please refer to Chapter 4 regarding the location of the drivers in "Device Manager".
5.2 Windows Vista

Please uninstall the driver with the following procedure.

**Caution**

Driver software must be uninstalled starting with "Ports (COM & LPT)" after which the "Universal Serial Bus controllers" should be uninstalled.

If uninstalling directly from the "Universal Serial Bus controllers", the driver software for the FX-USB-AW and FX3U-USB-BD will not uninstall correctly.

When uninstalling from "Universal Serial Bus controllers", uninstall USB driver software after re-installation starting with "Ports (COM & LPT)" after which the "Universal Serial Bus controllers" should be uninstalled.

† may be displayed when the installation of the driver is not performed normally. In that case, select the item that has † displayed next to it and uninstall with the following procedure.

1) Connect the FX-USB-AW or FX3U-USB-BD to the personal computer via a USB cable.

   Click [Start] → [Control Panel] → [Hardware and Sound] → [Device Manager] and the window below will be displayed.

![Device Manager Window](image)

Double-click [FX-USB-AW/FX3U-USB-BD (COM*)] in the [Ports (COM & LPT)].

* indicates the COM number used in the FX-USB-AW or FX3U-USB-BD.

**When user account control is enabled**

Only when user account control is enabled will the "user account control" screen be displayed.

Click [Continue], when displayed.
2) The following screen is displayed.

![Driver Properties](image1.png)

Select [Driver] tab.

3) The following screen is displayed.

![Driver Properties](image2.png)

Click [Uninstall].
4) The following screen is displayed.

Add a check mark to [Delete the driver software for this device], and click [OK]. The USB Serial Port software is uninstalled. Afterwards, uninstall the USB driver following steps 5) to 8).


6) The following screen is displayed.

Select [Driver] tab.
7) The following screen is displayed.

![Uninstall Screen]

Click [Uninstall].

8) The following screen is displayed.

Add check mark

Add a check mark to [Delete the driver software for this device.], and click [OK].
The USB driver is uninstalled.
5.3 Windows 7

- USB driver Ver. 1.30 or later is applicable to Windows® 7 32-bit version.
- USB driver Ver. 1.40 or later is applicable to Windows® 7 64-bit version.

Please uninstall the driver with the following procedure.

**Caution**

Driver software must be uninstalled starting with "Ports (COM & LPT)" after which the "Universal Serial Bus controllers" should be uninstalled.

If uninstalling directly from the "Universal Serial Bus controllers", the driver software for the FX-USB-AW and FX3U-USB-BD will not uninstall correctly.

When uninstalling from "Universal Serial Bus controllers", uninstall USB driver software after re-installation starting with "Ports (COM & LPT)" after which the "Universal Serial Bus controllers" should be uninstalled.

1) Connect the FX-USB-AW or FX3U-USB-BD to the personal computer via a USB cable.
   Click [Start] → [Control Panel] → [System and Security] → [Device Manager] and the window below will be displayed.

   ![Device Manager Window](image)

   Double-click or right-click [FX-USB-AW/FX3U-USB-BD (COM*)] in [Ports (COM & LPT)], and select [Properties].

   * indicates the COM number used in the FX-USB-AW or FX3U-USB-BD.
2) The following screen is displayed.

Select [Driver] tab.

3) The following screen is displayed.

Click [Uninstall].
4) The following screen is displayed.

Add a check mark to [Delete the driver software for this device.], and click [OK]. The USB Serial Port software is uninstalled. Afterward, uninstall the USB driver following steps of 5) to 8).

6) The following screen is displayed.

![Driver Properties Screen](image1)

Select [Driver] tab.

7) The following screen is displayed.

![Driver Properties Screen](image2)

Click [Uninstall].
8) The following screen is displayed.

Add a check mark to [Delete the driver software for this device.], and click [OK]. The USB driver is uninstalled.
5.4 Windows 8/8.1

Please uninstall the driver with the following procedure.

**Caution**

Driver software must be uninstalled starting with "Ports (COM & LPT)" after which the "Universal Serial Bus controllers" should be uninstalled.

If uninstalling directly from the "Universal Serial Bus controllers", the driver software for the FX-USB-AW and FX3U-USB-BD will not uninstall correctly.

When uninstalling from "Universal Serial Bus controllers", uninstall USB driver software after re-installation starting with "Ports (COM & LPT)" after which the "Universal Serial Bus controllers" should be uninstalled.

ε may be displayed when the installation of the driver is not performed normally. In that case, select the item that has ε displayed next to it and uninstall with the following procedure.

1) Connect the FX-USB-AW or FX3U-USB-BD to the personal computer via a USB cable.

   Click [Start] → [All apps] → [Control Panel] → [System and Security] → [Device Manager] and the window below will be displayed.

   ![Device Manager Window](image)

   Double-click or right-click [FX-USB-AW/FX3U-USB-BD (COM*)] in [Ports (COM & LPT)], and select [Properties].

   * indicates the COM number used in the FX-USB-AW or FX3U-USB-BD.
2) The following screen is displayed.

Select [Driver] tab.

3) The following screen is displayed.

Click [Uninstall].
4) The following screen is displayed.

![Confirm Device Uninstall](image)

Add a check mark to [Delete the driver software for this device.], and click [OK].
The USB Serial Port software is uninstalled.
Afterward, uninstall the USB driver following steps of 5) to 8).

6) The following screen is displayed.

   ![FX-USB-AW/FX3U-USB-BD Properties window]

   Select [Driver] tab.

7) The following screen is displayed.

   ![FX-USB-AW/FX3U-USB-BD Properties window]

   Click [Uninstall].
8) The following screen is displayed.

Add check mark

Add a check mark to [Delete the driver software for this device.], and click [OK]. The USB driver is uninstalled.
5.5 Windows 10

Please uninstall the driver with the following procedure.

**Caution**

Driver software must be uninstalled starting with "Ports (COM & LPT)" after which the "Universal Serial Bus controllers" should be uninstalled.

If uninstalling directly from the "Universal Serial Bus controllers", the driver software for the FX-USB-AW and FX3U-USB-BD will not uninstall correctly.

When uninstalling from "Universal Serial Bus controllers", uninstall USB driver software after re-installation starting with "Ports (COM & LPT)" after which the "Universal Serial Bus controllers" should be uninstalled.

⚠️ may be displayed when the installation of the driver is not performed normally. In that case, select the item that has ⚠️ displayed next to it and uninstall with the following procedure.

1) Connect the FX-USB-AW or FX3U-USB-BD to the personal computer via a USB cable.
   - Click [Start] → [Windows System] → [Control Panel] → [Hardware and Sound] → [Device Manager] and the window below will be displayed.

![Device Manager](image)

Double-click or right-click [FX-USB-AW/FX3U-USB-BD (COM*)] in [Ports (COM & LPT)], and select [Properties].

* indicates the COM number used in the FX-USB-AW or FX3U-USB-BD.
2) The following screen is displayed.

Select [Driver] tab.

3) The following screen is displayed.

Click [Uninstall Device].

4) The following screen is displayed.

Add a check mark to [Delete the driver software for this device], and click [Uninstall].

The USB Serial Port software is uninstalled.

Afterward, uninstall the USB driver following steps of 5) to 8).

6) The following screen is displayed.

Select [ Driver ] tab.
7) The following screen is displayed.

Click [Uninstall Device].

8) The following screen is displayed.

Add check mark

Add a check mark to [Delete the driver software for this device.], and click [Uninstall]. The USB driver is uninstalled.
# 6. Caution on Use

## STARTUP AND MAINTENANCE PRECAUTIONS

<table>
<thead>
<tr>
<th>WARNING</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Before modifying or disrupting the program in operation or running the PLC, carefully read through this manual and the associated manuals and ensure the safety of the operation. An operation error may damage the machinery or cause accidents.</td>
</tr>
</tbody>
</table>

## STARTUP AND MAINTENANCE PRECAUTIONS

<table>
<thead>
<tr>
<th>CAUTION</th>
</tr>
</thead>
</table>
| • Do not disassemble or modify the PLC. Doing so may cause fire, equipment failures, or malfunctions. * For repair, contact your local Mitsubishi Electric representative.  
• Since the FX-USB-AW and FX3U-USB-BD case is made of resin, do not drop it or exert strong impact to it. Doing so may cause damage. |

## DISPOSAL PRECAUTIONS

<table>
<thead>
<tr>
<th>CAUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Please contact a certified electronic waste disposal company for the environmentally safe recycling and disposal of your device.</td>
</tr>
</tbody>
</table>

## TRANSPORTATION AND STORAGE PRECAUTIONS

<table>
<thead>
<tr>
<th>CAUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>• The product is a precision instrument. During transportation, avoid any impacts. Failure to do so may cause failures in the product. After transportation, verify the operations of the product.</td>
</tr>
</tbody>
</table>

- The FX-USB-AW or FX3U-USB-BD is connected to a personal computer, and the PLC is turned on, and then operations such as write, read, and monitor are tried for the first time using a programming tool, a communication error message may be displayed. In such a case, clear the message and try the operations again.
- The expansion board cannot be connected to any FX3UC Series PLC other than FX3UC-32MT-LT(-2).
- Only one expansion board can be used per main unit. Additional expansion boards such as the FX3U-232-BD, FX3U-422-BD or FX3U-485-BD cannot be installed/used together with the FX3U-USB-BD.
- If a communication error message appears while operating the programming tool (when executing 'Write to PLC', 'Read from PLC', or 'Monitor'), disconnect the USB cable once (from either the PC or the FX-USB-AW/FX3U-USB-BD) and connect it again. Then clear the error message and choose Write, Read, or Monitor again.
- The programming tool may not be operated properly due to a contact failure at connectors or wire breakage. Make sure to save the program before transferring or changing it.
7. Troubleshooting

7.1 FX-USB-AW

- If communication cannot be established between the PLC (as well as a positioning unit or a programmable cam switch) and a PC using the FX-USB-AW, confirm the following status by checking the POWER LED, SD LED, and RD LED in the FX-USB-AW.

<table>
<thead>
<tr>
<th>State of the POWER LED</th>
<th>Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>POWER LED is lit</td>
<td>The 5V DC power supply from the personal computer is normally supplied. In case of no communication, check the status of SD LED and RD LED.</td>
</tr>
</tbody>
</table>
| POWER LED is not lit   | The 5V DC power supply from the personal computer is not supplied. Check the items below.  
  • Confirm that the specified cable is used to connect the FX-USB-AW and the personal computer.  
  • Confirm whether the power supply is supplied to personal computer. |

<table>
<thead>
<tr>
<th>The status of the SD LED and RD LED</th>
<th>Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blinking</td>
<td>Communicating correctly</td>
</tr>
<tr>
<td>OFF</td>
<td></td>
</tr>
</tbody>
</table>
  • Confirm that the power is supplied to the personal computer.  
  • Confirm the personal computer and the PLC are connected properly with the specified cable.  
  • Confirm that the communication settings, such as the COM number, and connected PLC are correctly set in the software. Refer to the software manual.  
  • Please check whether the driver can be installed normally. Regarding confirmation, refer to Chapter 4. |
| Blinking                            | Data receiving |
| OFF                                 |  
  • Confirm that the power is supplied to PLC.  
  • The PLC will not operate when a configuration that exceeds the 5V DC or 24V DC capacity is used. It will also be impossible to communicate normally.  
  • Confirm that the specified cable is used to connect the personal computer and PLC.  
  • Confirm that the communication settings, such as the COM number, and connected PLC are correctly set in the software. Refer to the software manual.  
  • Please check whether the driver can be installed normally. Regarding confirmation, refer to Chapter 4. |

- When driver installation is required after already establishing USB communication.
  → This product requires USB Driver Installation for each USB port to be connected. Connect the product to a driver-installed USB port, or install the driver for the current port.
  The driver is not installed properly if the driver of a different version has already been installed. To complete installation, uninstall the driver, and install again.
7.2 FX3U-USB-BD

- If communication cannot be established between the PLC and a personal computer using the FX3U-USB-BD, confirm the following status by checking the SD LED and RD LED in the FX3U-USB-BD.

<table>
<thead>
<tr>
<th>The status of the SD LED and RD LED</th>
<th>Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blinking OFF</td>
<td></td>
</tr>
<tr>
<td>SD</td>
<td></td>
</tr>
<tr>
<td>Blinking OFF</td>
<td>Communicating correctly</td>
</tr>
<tr>
<td></td>
<td>• Confirm that the power is supplied to the personal computer.</td>
</tr>
<tr>
<td></td>
<td>• Confirm the personal computer and the PLC are connected properly with the specified cable.</td>
</tr>
<tr>
<td></td>
<td>• Confirm that the communication settings, such as the COM number, and connected PLC are correctly set in the software. Refer to the software manual.</td>
</tr>
<tr>
<td></td>
<td>• Please check whether the driver can be installed normally. Regarding confirmation, refer to Chapter 4.</td>
</tr>
<tr>
<td>RD</td>
<td>Data receiving</td>
</tr>
<tr>
<td>Blinking OFF</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Confirm that the power is supplied to PLC.</td>
</tr>
<tr>
<td></td>
<td>• The PLC will not operate when a configuration that exceeds the 5V DC or 24V DC capacity is used. It will also be impossible to communicate normally.</td>
</tr>
<tr>
<td></td>
<td>• Confirm that the specified cable is used to connect the personal computer and PLC.</td>
</tr>
<tr>
<td></td>
<td>• Confirm that the communication settings, such as the COM number, and connected PLC are correctly set in the software. Refer to the software manual.</td>
</tr>
<tr>
<td></td>
<td>• Please check whether the driver can be installed normally. Regarding confirmation, refer to Chapter 4.</td>
</tr>
</tbody>
</table>

- When driver installation is required after already establishing USB communication.

  → This product requires USB Driver Installation for each USB port to be connected. Connect the product to a driver-installed USB port, or install the driver for the current port. The driver is not installed properly if the driver of a different version has already been installed. To complete installation, uninstall the driver, and install again.
# Revised History

<table>
<thead>
<tr>
<th>Date</th>
<th>Revision</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>4/2010</td>
<td>C</td>
<td>• Paper size change (A3 both sides → B5 booklet)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Front cover, back cover, inside cover and revised history was added.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• USB driver Ver. 1.30 (Windows® 7) was added.</td>
</tr>
<tr>
<td>5/2011</td>
<td>D</td>
<td>USB driver Ver. 1.40 (Windows® 7 64-bit version) was added.</td>
</tr>
<tr>
<td>5/2013</td>
<td>E</td>
<td>USB driver Ver. 1.50 (Windows® 8) was added.</td>
</tr>
<tr>
<td>3/2014</td>
<td>F</td>
<td>USB driver Ver. 1.60 (Windows® 8.1) was added.</td>
</tr>
<tr>
<td>4/2015</td>
<td>G</td>
<td>A part of the cover design is changed.</td>
</tr>
<tr>
<td>3/2018</td>
<td>H</td>
<td>USB driver Ver. 1.70 (Windows® 10) was added.</td>
</tr>
<tr>
<td>3/2020</td>
<td>J</td>
<td>• The description USB driver software was added.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Deleted the description included in the CD-ROM</td>
</tr>
</tbody>
</table>