CMB-001 USB COMMUNICATION CABLE Instruction Manual

No. CMBJE1 2008.06

Serial communication and Console communication using a USB communication cable (CMB-001) cannot be used together.

When performing Serial communication, remove the USB communication cable (CMB-001) from the USB port of the PC and Console connector of the ACD-13A (ACR-13A).

When performing Console communication, it is not required to remove the Serial communication cables. However, do not send a command from the master side.

This manual contains instructions for functions and usage of the USB communication cable (CMB-001). To ensure safe and correct use, thoroughly read and understand this manual before using this cable.

To prevent accidents arising from the misuse of this cable, please ensure the operator receives this manual.

Safety precautions (Be sure to read these precautions before using this cable.)

▲ Caution Indicates procedures which may lead to dangerous conditions and cause superficial to medium injury or physical damage or may degrade or damage the product, if not carried out properly.

△ Safety precautions

- (1) Do not confuse the direction of the USB plug when connecting this cable to the USB port. If the plug cannot be inserted smoothly, do not force it to enter. This may damage the plug or port.
- (2) Do not bend or pull forcibly or put any heavy object on the cable.
- (3) Do not connect or remove this cable during communication. This may cause damage or malfunction.
- (4) Do not allow the metallic section of this cable to come into contact with external power terminals.
- (5) Do not handle the cable plug with wet hands. This may result in electric shock.

Precautions

Caution

(1) Ensure the cable is used under the following conditions:

- A minimum of dust, and an absence of corrosive gases
- No flammable, explosive gases
- No mechanical vibrations or shocks
- No exposure to direct sunlight, an ambient temperature of 0 to 50°C
- (32 to 122°F) that does not change rapidly, and no icing
- An ambient non-condensing humidity of 35 to 85%RH
- No large capacity electromagnetic switches or cables through which large current is flowing
- No water, oil, chemicals or where the vapors of these substances can come into direct contact with the cable
- Ambient temperature of this cable must not exceed 50°C (122°F) if mounted within the control panel.
- (2) It sometimes takes time for the PC to identify the cable when the USB plug of this cable is connected to the PC. However, this is not a malfunction. Be sure to confirm the COM port number before starting communication.
- (3) Do not extend this cable using an extension cable when connecting to the PC. A malfunction may occur.
- (4) Use a soft, dry cloth when cleaning this cable. (Alcohol based substances may deface or tarnish the cable.)

1. Model

- 1.1 Model
- CMB-001
- 1.2 How to read the model label The model label is attached to the case.

CMB-001 Model 2т Cable length No.082F05000



- * Insert the plug pin until it touches the console connector. (Fig. 3-1)
- (2) Turn the power supply to the PC ON, and start Windows. (3) Install the driver.
 - Install the driver from the CD-ROM provided. Install the USB driver and virtual COM port driver. The same displays for installation will appear twice.
 - [Based on using a Windows XP system]

For installation using a Windows 98/Me/2000 system, refer to "Setup E.txt" in the USB driver folder of the CD-ROM.

- If driver installation has been already completed, go to step (5).
- ① Connect the USB plug of this cable with the USB port of the PC.
- 2 Several or several tens of seconds later, [Found New Hardware] is indicated. Then [Found New Hardware Wizard] display appears.
- ③ Select the [Install from a list of specific location (Advanced)], and click the [Next>].
- ④ Click [Search for the best driver in these locations].
- (5) Select [Include this location in the search], and click the [Browse].
- (6) Select the USB driver folder of the CD-ROM, and click [OK].
- 7 Click the [Next>].
- 8 [Completing the Found New Hardware Wizard] display appears. Click the [Finish] button.
- (9) Step (2) display appears again. Repeat steps (3) to (8).

Driver installation is completed.

(4) Confirm the COM port number.

- ① Select [Start] [Control panel], and click.
- 2 Click [Performance and maintenance].
- ③ Click [System]. [System properties] display appears.
- ④ Click on the [Hardware] tab, and click [Device manager] button.
- If [USB Serial Port (COM3)] is indicated in the [Ports (COM & LPT)], (5) COM port has been allotted No.3. (e.g.) (Fig. 3-2)
 - (e.g.) 🕀 🛒 Monitors
 - Metwork adapters E-J Ports (COM & LPT)
 - Communications Port (COM1)
 - Printer Port (LPT1)
 - USB Serial Port (COM3)
 - 🛨 \Re Processors
 - 🗄 🧐 Sound, video and game controllers
- (Fig. 3-2) ⁶ Close the **[Device manager]**, **[System properties]** display and **[Control panel]**.
- (5) Turn the power supply to the ACD-13A (ACR-13A) ON.

Communication is possible for the controller with power-ON and power-OFF. When communicating with the power-OFF, go to step (6).

(6) Start the Console software (SWS-AC001M).

Select the COM port number confirmed at step (4), and start communication. When communication starts with the power-off of the ACD-13A (ACR-13A), $[\Box' \neg \Box]$ will be indicated on the PV display during communication. (The SV display is unlit.)

4. Uninstalling the driver

- (1) Select [Start] [Control panel], and click.
- (2) Double-click the [Add or Remove Programs].
- (3) Click the [FTDI USB Serial Converter Drivers], and click the [Change/Remove] button. [FTDI Uninstaller] display appears.
- (4) Click the [Continue] button.
- (5) Click the [Finish] button.

Uninstalling the driver is completed.

5. Specifications

Monitoring software Console software (SWS-AC001M) USB I/F standard

Corresponds to USB Specification 2.0



(1) Connect the cable.

Check that power supply to the ACD-13A (ACR -13A) is turned OFF. Connect the USB port of the PC with the console connector of the ACD-13A (ACR -13A), using this cable. (Fig. 3-1)

	Concepting to COD Opecinication 2.0
DTE (PC side) speed	9600bps [For the ACD-13A(ACR-13A) with Serial
	communication (C5 option), 9600/19200bps, Selectable]
Connector specification	PC side: USB (Type A plug)
-	ACD-13A (ACR-3A): Exclusive plug pin
Operating system	Windows 2000/XP/Vista (Japanese/English)
Personal computer	OS certified PC with USB port (Intel Pentium processor
	or compatible microprocessor)
Case (Material, Color)	ABS, Black
Cable color	Black
Power source	Bus power (Supplied from PC via USB)
Supply voltage	5V DC
Ambient temperature	0 to 50℃ (32 to 122°F)
Ambient humidity	35 to 85%RH (No icing, no condensation)
Weight	Approx. 120g
Environment spec	Conforms to RoHS directive
Accessories	CD-ROM 1, Instruction manual 1 copy

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