



WB1F Fix Linear CCD Scanner

WB1F Support Tool User's Manual



Introduction

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Before using the WB1F support tool, please read this manual and understand the specifications of the software so that it can be used correctly.

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Version up information

New function has been added to WB1F. Please check Software Version and Database Version before using. Method for version acquisition refers to P.21 “7.5 Help” of “7.5.2 Version information”.

In addition, the initial release version of software is “1.0.0.0(001.000.00)” and the initial release version of database is “1.0.0.0(001.000.00)”.

New Function	WB1F Support Tool Version	
	Software Version	Database Version
WB1F type Firmware A-002.010.00 Correspondence	001.010.00	001.010.00
WB1F type Firmware A-002.020.00 Correspondence	001.020.00	001.020.00
Speedup of upload and download of a setting value		
Speedup of update of firmware		
WB1F type Firmware A-002.030.00 Correspondence	001.030.00	001.030.00
Addition of Communication speed 600bps		
WB1F type Firmware A-002.040.00 Correspondence	001.040.00	001.040.00
WB1F type Firmware A-002.050.00 Correspondence	001.050.00	001.050.00

Related manuals

Manuals related to the WB1F are as follows. Please refer to them together with this manual.

Type	Manual name	Details
B-1768	WB1F Fix Linear CCD Scanner Support Tool Use's Manual (This manual)	Included with the support tool. Explains about support tool.
B-1741	Instruction Sheet WB1F series	Included with the product.
B-1775	WB1F Fix Linear CCD Scanner User's Manual	Explains an overview and functions of the WB1F, plus basic operating methods.
B-1782	WB1F Fix Linear CCD Scanner Menu Sheet	Explains about menu sheet.

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1. Overview

The WB1F support tool is software for configuring the WB1F and checking its operation.

2. Usage precautions

In order to use the support tool correctly, please be aware of the following precautions.

- When the WB1F and the WB1F support tool are connected, do not turn off the WB1F power supply. The WB1F support tool may be forcibly terminated.
- After stopping the connection between the WB1F and the WB1F support tool, turn off the WB1F power supply.
- When the WB1F and the WB1F support tool are connected, do not allow the computer to enter sleep mode. The WB1F support tool may be forcibly terminated. If the WB1F and the WB1F support tool are connected and left for a long period of time, configure the computer so that it does not enter sleep mode.
- Do not run multiple instances of the WB1F support tool at the same time. The support tool may not operate correctly.

3. System requirements

This table shows the WB1F support tool System requirements.

Item	Details
Computer	PC-AT or compatible
OS	Windows 7, Windows 8, Windows 8.1
CPU	1.0 GHz or higher
Memory	1 GB or higher
Hard disk	100 MB or higher
Screen resolution	XGA (1024x768) or higher
Communication port	RS-232 port (For directly connect the RS-232 type) USB port (For directly connect the USB type, or to connect the RS-232 type using a RS-232-to-USB conversion cable)

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4. WB1F support tool setup

4.1. Installing the WB1F support tool

To use the WB1F support tool, it must be installed on a computer. Do so with the following procedure.

Unzip the compressed "wb1f_support_tool_100.zip" file to the desktop or any desired location. After you unzip the file, double-click "wb1f_support_tool.exe" inside the "wb1f_support_tool_100" folder to run the support tool. The support tool may not run correctly if the files in the folder are deleted or moved.

4.2. Uninstalling the WB1F support tool

When you no longer need the WB1F support tool, it may be uninstalled from the computer. Do so with the following procedure.

Delete the entire folder (including the files) that was created by unzipping the compressed "wb1f_support_tool_100.zip" file. The support tool does not use the registry, so you will not need to delete any registry entries.

5. Operation confirmation method

Let's try to read a barcode with the WB1F support tool.

The example here shows the WB1F in its factory default state where no settings have been changed.

Please note that if the settings have been changed, the operation of the WB1F may be different.

(1) Checking the interface

If you are using the WB1F-100S1B (RS-232 type), proceed to step (3)

If you are using the WB1F-100S1S (USB type), proceed to step (2)

(2) Installing the device driver

A device driver must be installed to use the WB1F-100S1S.

Download the latest device driver installer from the IDEC website and use it to install the device driver.

For details on the installer, check the readme that is included with the installer.

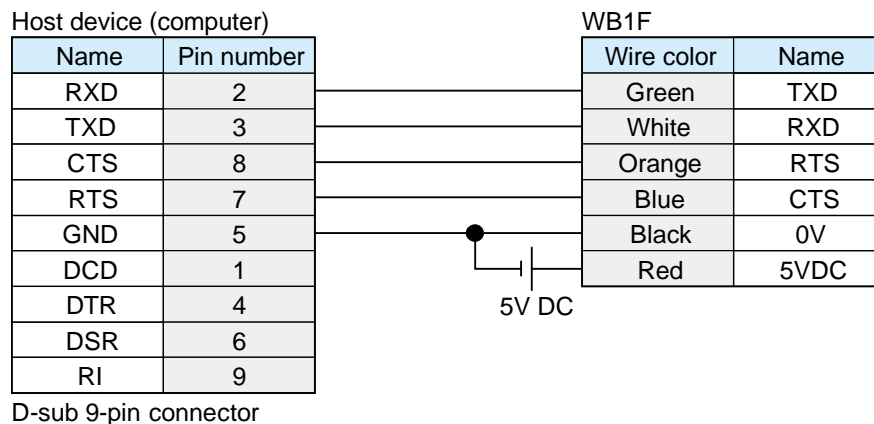
IDEC website: <http://www.idec.com/>

(3) Connecting the WB1F to the computer

■ WB1F-100S1B

Wire the WB1F to the computer as shown in the diagram. After you finish wiring the WB1F and computer, turn on the 5VDC power supply.

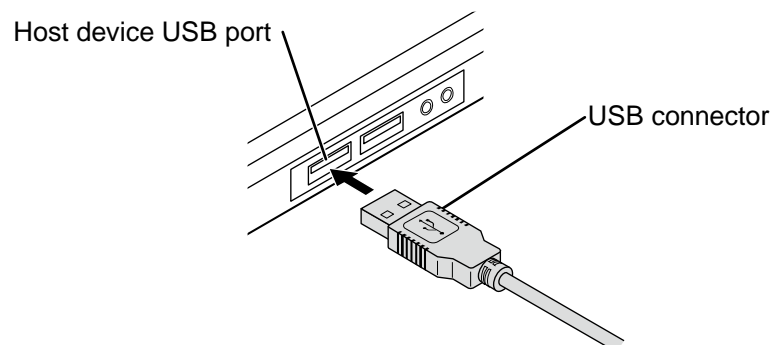
If the computer is not equipped with a RS-232 port, please use a RS-232-to-USB conversion cable.



*** CAUTION: Do not reverse the power supply connections under any circumstances. Doing so may result in damage. Read the WB1F user's manual before wiring the scanner and computer.**

■ WB1F-100S1S

Firmly insert the USB connector straight into the USB port on the computer in the correct orientation.



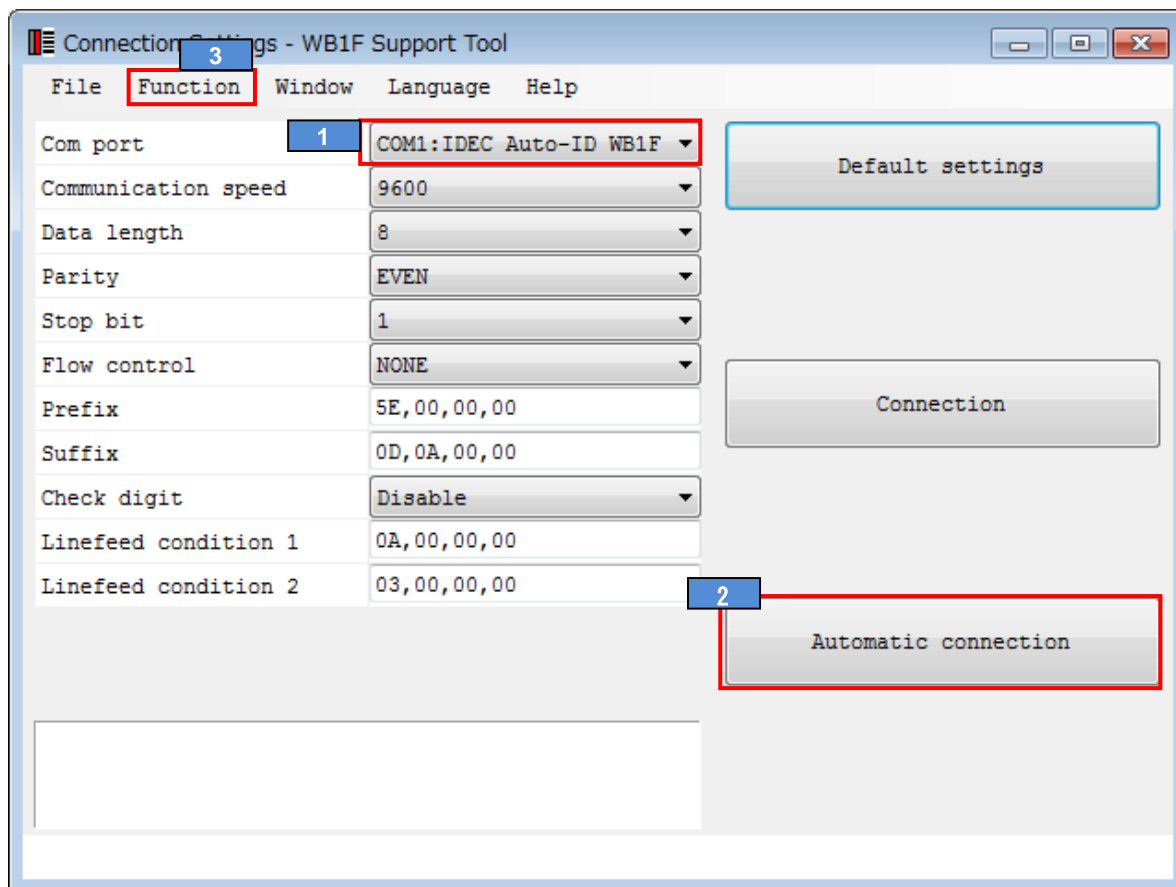
*** CAUTION: Do not extend the cable. Doing so may result in malfunction or damage.**

(4) Running the WB1F support tool

Double-click "wb1f_support_tool.exe".

When you double-click the file, the **Connection Settings** screen is displayed.

(5) Reading a barcode



1. Select the communication port that the WB1F is connected to.

1-1. How to check the communication port

For Windows 7

- (1) Click **Start**, right-click **Computer**, and click **Properties** on the displayed menu.
- (2) The **System** screen is displayed. Click **Device Manager** on the screen.
- (3) The **Device Manager** screen is displayed. Double-click **Ports (COM & LPT)**.
- (4) For the USB type, check the port number for the port that is displayed as "IDEC Auto-ID WB1F USB CDC (COM**)". For the RS-232 type, check the port number for the port that the RS-232-to-USB conversion cable is connected to. ** indicates the port number.

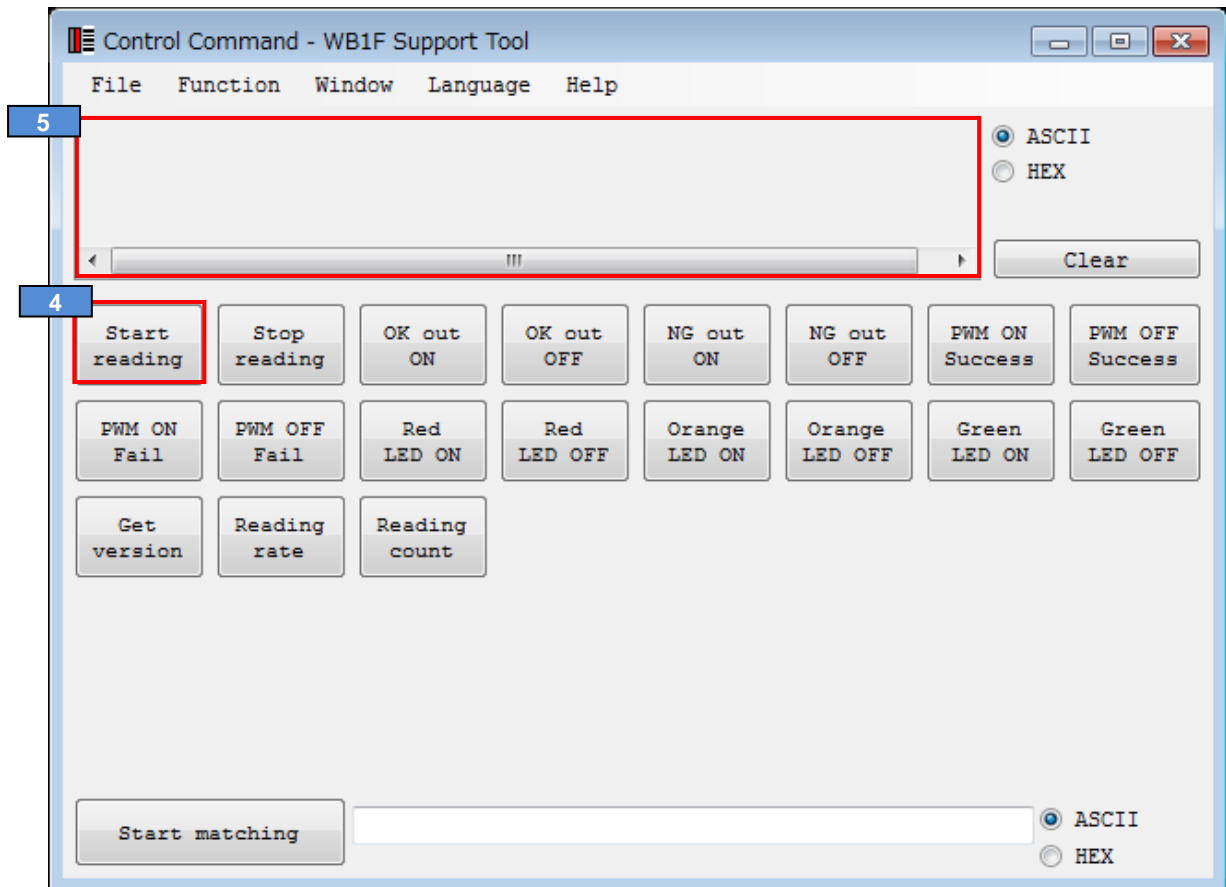
For Windows 8, 8.1

- (1) Press the **Windows** key and the **X** key.
- (2) Click **Device Manager** on the displayed menu.
- (3) The **Device Manager** screen is displayed. Double-click **Ports (COM & LPT)**.
- (4) For the USB type, check the port number for the port that is displayed as "IDEC Auto-ID WB1F USB CDC (COM**)". For the RS-232 type, check the port number for the port that the RS-232-to-USB conversion cable is connected to. ** indicates the port number.

* If the port you checked in section 1-1 is not displayed in the communication port on the **Connection Settings** screen.

Close the WB1F support tool and cycle the power supply to the WB1F, then start the WB1F support tool again.

- After you select the communication port, click **Automatic connection**.
- After the connection is established, click **Function - Control command** on the menu bar. The **Control Command** screen is displayed.



- Click **Start reading** and the WB1F enters the reading operation state for two seconds (emitter LED turns on). Have the WB1F read an actual barcode at this time.
- The reading results are displayed. "Requests (computer → WB1F)" are displayed as blue text. "Responses (WB1F → computer)" are displayed as red text. When a barcode is successfully read, the reading results are returned as the response. When barcode reading fails, "?" is returned as the response. The following shows an example of reading a barcode.

Example: ASCII display example

```

^get·␣ Click Start reading
1234567890·␣ Barcode reading results "1234567890" (reading successful)
^get·␣ Click Start reading
?·␣ Barcode reading results "?" (reading failure)
  
```

·␣: Represents the ASCII code control characters "CR" and "LF". Since the control characters cannot be displayed as characters, they have been replaced with other characters. "LF" alone is displayed as "␣", and the other control characters are displayed as "·". Check the control characters by switching to the HEX display mode.

6. Menu items list

This table shows the WB1F support tool menu items.

Menu items		Details
File	Connection setting load	Loads the settings used for connecting to the WB1F from a file.
	Connection setting save	Saves the settings used for connecting to the WB1F to a file.
	Exit	Exits the WB1F support tool.
Function	Connection settings	Displays the configuration screen for connecting the WB1F and the computer.
	Control command	Displays the screen for sending control commands to the WB1F.
	Scanner settings	Displays the screen for checking and changing WB1F settings.
	Firmware version up	Displays the screen for updating the WB1F firmware.
Window	Console	Displays the console screen.
Language	日本語(Japanese)	Sets the WB1F support tool display language to Japanese.
	English	Sets the WB1F support tool display language to English.
Help	User's manual	Displays the user's manual (this manual).
	Version information	Displays the version information.

7. Menu item descriptions

7.1. File

7.1.1. Connection setting load

Loads a saved connection settings file.
Only XML is supported as the file extension.

7.1.2. Connection setting save

Saves the current connection settings to a file.
The file extension is XML.

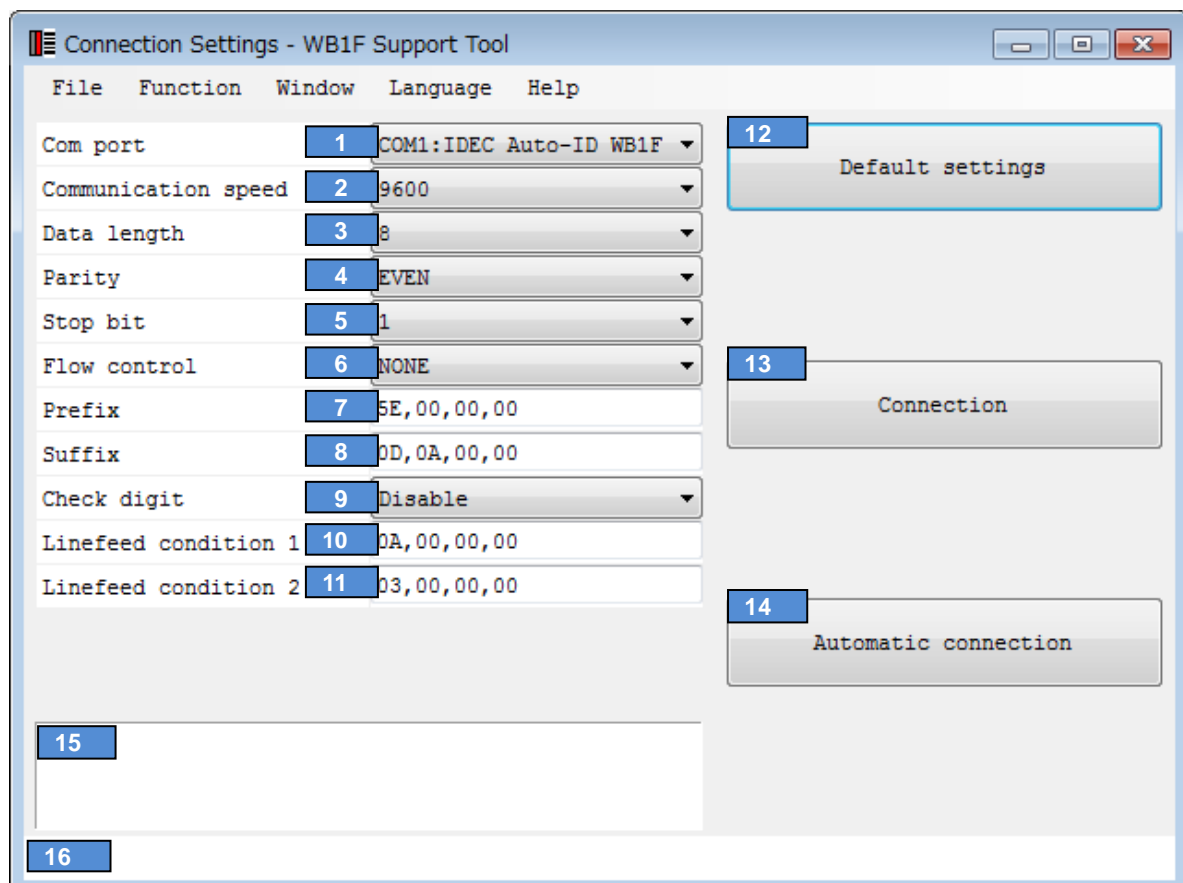
7.1.3. Exit

Exits the WB1F support tool.

7.2. Function

7.2.1. Connection settings

This configuration screen is for connecting the WB1F and the computer.
Here you can configure the computer settings.
When the WB1F support tool is started, the following connection settings screen is initially displayed.



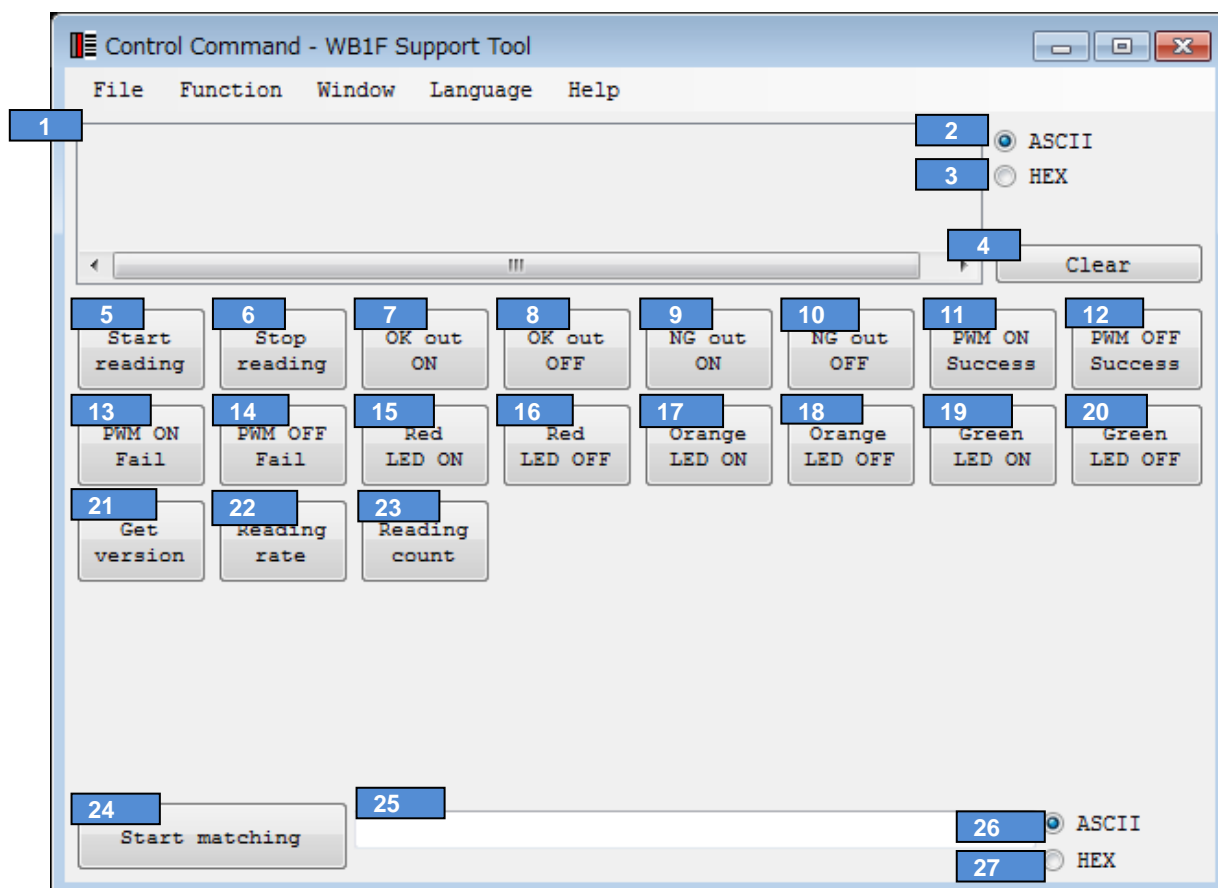
■ Screen description

No.	Name	Description
1	Com port	Selects the communication port. You can select a valid port.
2	Communication speed	Sets the communication speed.
3	Data length	Sets the data length.
4	Parity	Sets the parity bits.
5	Stop bit	Sets the stop bits.
6	Flow control	Sets flow control (handshake).
7	Prefix	Sets the string to add to the beginning of the communication command.
8	Suffix	Sets the string to add to the end of the communication command.
9	Check digit	Sets whether or not to add a check digit to the set command.
10	Linefeed condition 1	Sets the condition to perform a linefeed for the console screen. A linefeed is performed when either linefeed condition 1 or linefeed condition 2 is satisfied.
11	Linefeed condition 2	
12	Default settings	Resets the communication settings to the WB1F factory default settings.
13	Connection	Starts the connection between the WB1F and the computer.
14	Automatic connection	Automatically starts the connection between the WB1F and the computer.
15	Message output 1	Displays a description of the selected item.
16	Message output 2	Displays the communication results and communication settings when starting an automatic connection.

7.2.2. Control command

This screen is for sending control commands to the WB1F.

Here you can execute operations on the WB1F such as barcode reading and turning the indicator LEDs on and off.



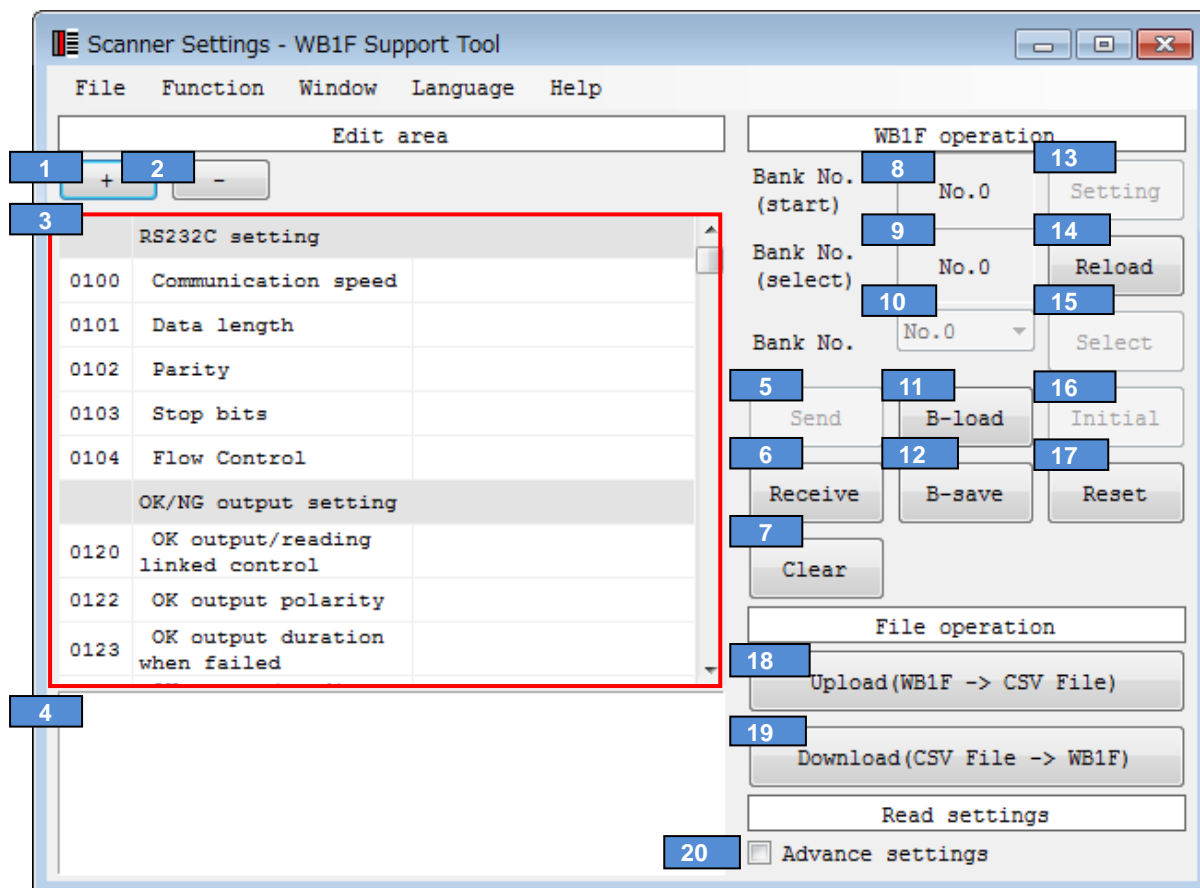
■ Screen description

No.	Name	Description
1	Communication monitor	Displays communication requests and responses. Blue text: request, Red text: response
2	ASCII	Sets the communication monitor to the ASCII display mode.
3	HEX	Sets the communication monitor to the hexadecimal display mode.
4	Clear	Clears the communication monitor.
5	Start reading	Starts reading barcodes.
6	Stop reading	Stops reading barcodes.
7	OK out ON	Turns on the OK output. (RS-232 type only)
8	OK out OFF	Turns off the OK output. (RS-232 type only)
9	NG out ON	Turns on the NG output. (RS-232 type only)
10	NG out OFF	Turns off the NG output. (RS-232 type only)
11	PWM ON Success	Turns on PWM output for when reading is successful. (RS-232 type only)
12	PWM OFF Success	Turns off PWM output for when reading is successful. (RS-232 type only)
13	PWM ON Fail	Turns on PWM output for when reading fails. (RS-232 type only)
14	PWM OFF Fail	Turns off PWM output for when reading fails. (RS-232 type only)
15	Red LED ON	Turns on the indicator LED (red). The illumination time follows the setting value.
16	Red LED OFF	Turns off the indicator LED (red).
17	Orange LED ON	Turns on the indicator LED (orange). The illumination time follows the setting value.
18	Orange LED OFF	Turns off the indicator LED (orange).
19	Green LED ON	Turns on the indicator LED (green). The illumination time follows the setting value.
20	Green LED OFF	Turns off the indicator LED (green).
21	Get version	Gets the WB1F firmware version.
22	Reading rate	WB1F outputs the reading success rate each time 100 barcodes are read.
23	Reading count	WB1F outputs the count of consecutively read barcodes.
24	Start matching	Starts reference data sequential input.
25	Reference data entry field	Enter the reference data.
26	ASCII	Displays the reference data as ASCII characters.
27	HEX	Displays the reference data as hexadecimal values.

7.2.3. Scanner settings

This screen is for checking and changing WB1F settings.

Here you can configure the operation of the WB1F in detail, such as the reading operation and the data output method.



■ Screen description

· Edit area

No.	Name	Description
1	+	Displays the major and minor items on the configuration items list.
2	-	Displays only the major items on the configuration items list.
3	Configuration items list	This list is for checking and changing WB1F settings. For details, check the configuration items table in the user's manual.
4	Message output 3	Displays a description of the configuration item.

• WB1F operation

No.	Name	Description
5	Send	Reflects the changed setting values in WB1F operation.
6	Receive	Displays the setting values set on the WB1F on the screen.
7	Clear	Clears the setting values displayed on the screen from the screen.
8	Bank number display 1	Displays the bank number selected at start.
9	Bank number display 2	Displays the currently selected bank number.
10	Bank number selection	Selects the bank number. (When advanced settings are enabled)
11	B-load	Loads the setting values for the bank that is selected in bank number display 2.
12	B-save	Saves the setting values to the bank that is selected in bank number display 2.
13	Setting	Sets the bank that is selected in bank number display 2 as the bank at start. (When advanced settings are enabled)
14	Reload	Reloads the selected bank. Use this when the currently selected bank becomes unknown due to resetting the WB1F.
15	Select	Confirms the bank selected by No. 10 "Bank number selection" for bank number display 2. (When advanced settings are enabled)
16	Initial	Resets the WB1F to the factory defaults.
17	Reset	Resets the WB1F power supply.

• File operation

No.	Name	Description
18	Upload	Uploads all WB1F setting values to a CSV file.
19	Download	Downloads a CSV file created by uploading to the WB1F.

• Read settings

No.	Name	Description
20	Advance settings	When this checkbox is selected, you can switch the bank number and initialize the WB1F.

A bank is a region where setting values are saved. The WB1F has eight banks.

You can configure setting values for bank number 0 to bank number 7, which allows you to switch between and use a maximum of eight patterns of settings.

The procedure to send and receive setting values and to switch the bank number (selected/start) is as follows.

■ Receiving setting values

- (1) Click **Receive** (No. 6). The setting values for the bank that is displayed in **bank number display 2** (No. 9) are displayed on the computer.

■ Sending setting values

- (1) After receiving the setting values, edit them in the edit area.
- (2) After you finish editing them, click **Send** (No. 5). The setting values are reflected in WB1F operation.
- (3) Click **B-save** (No. 12) to save the setting values to the currently selected bank number.

● **Attention: If you turn off the WB1F power supply without performing step (3), the changed settings will not be reflected WB1F operation. The RS-232C configuration items are reflected in WB1F operation by resetting the WB1F after B-save.**

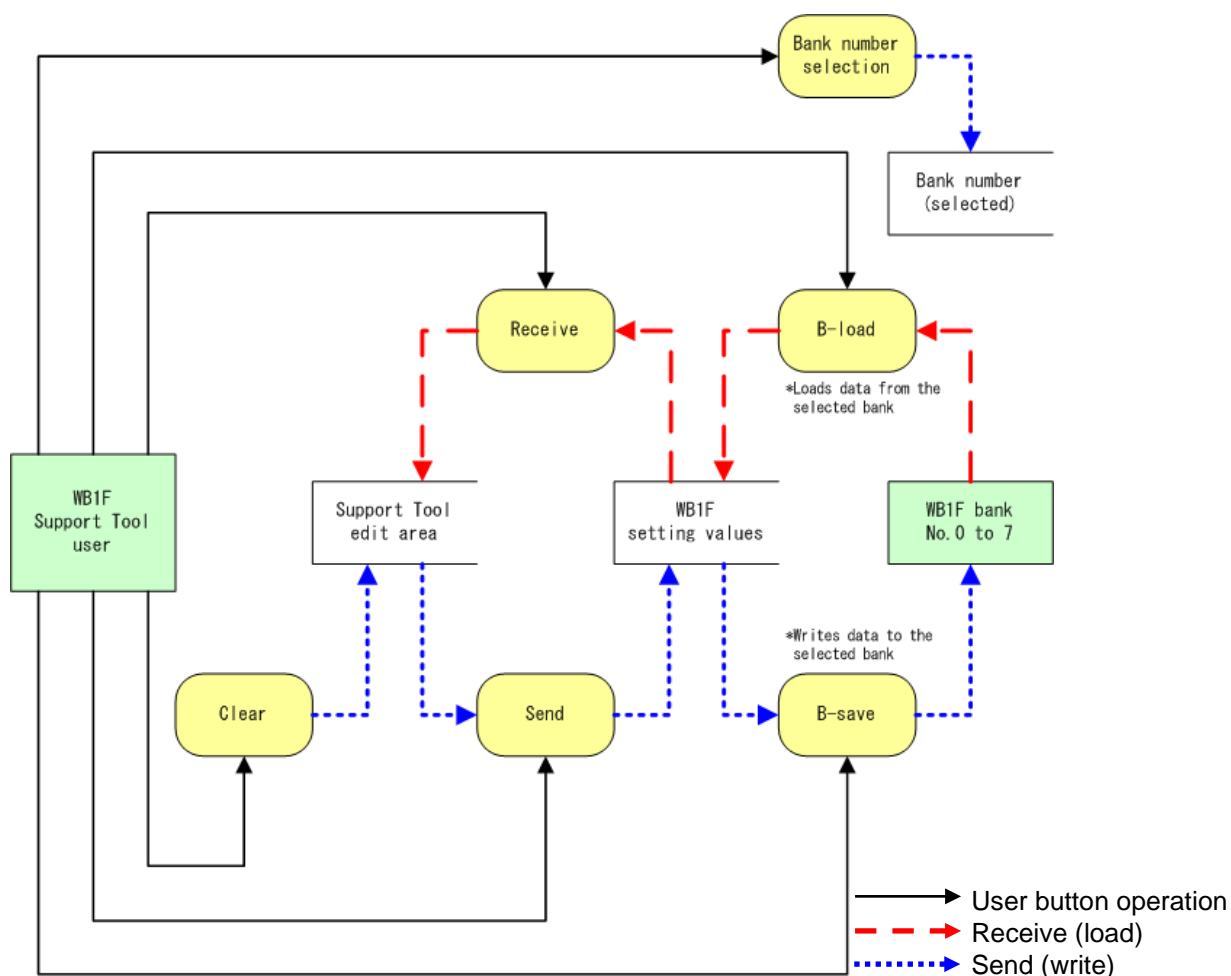
■ Switching the bank number (selected)

- (1) Select the **Advance settings** (No. 20) checkbox.
- (2) Select the bank you want to change to with the **bank number selection** (No. 10).
- (3) Click **Select** (No. 15). This confirms the bank number selected in step (2) for **bank number display 2** (No. 9).
- (4) Click **B-load** (No. 11). The setting values are switched to the selected bank.

■ Switching the bank number (start)

- (1) Select the **Advance settings** (No. 20) checkbox.
- (2) Select the bank you want to change to with the **bank number selection** (No. 10).
- (3) Click **Select** (No. 15). This confirms the bank number selected in step (2) for **bank number display 2** (No. 9).
- (4) Click **Setting** (No. 13). This confirms the bank number selected in step (2) for **bank number display 1** (No. 8).
- (5) The next time the WB1F starts, it does so with the bank number displayed in **bank number display 1** (No. 8).

A conceptual diagram of sending/receiving setting values and switching banks is shown next.



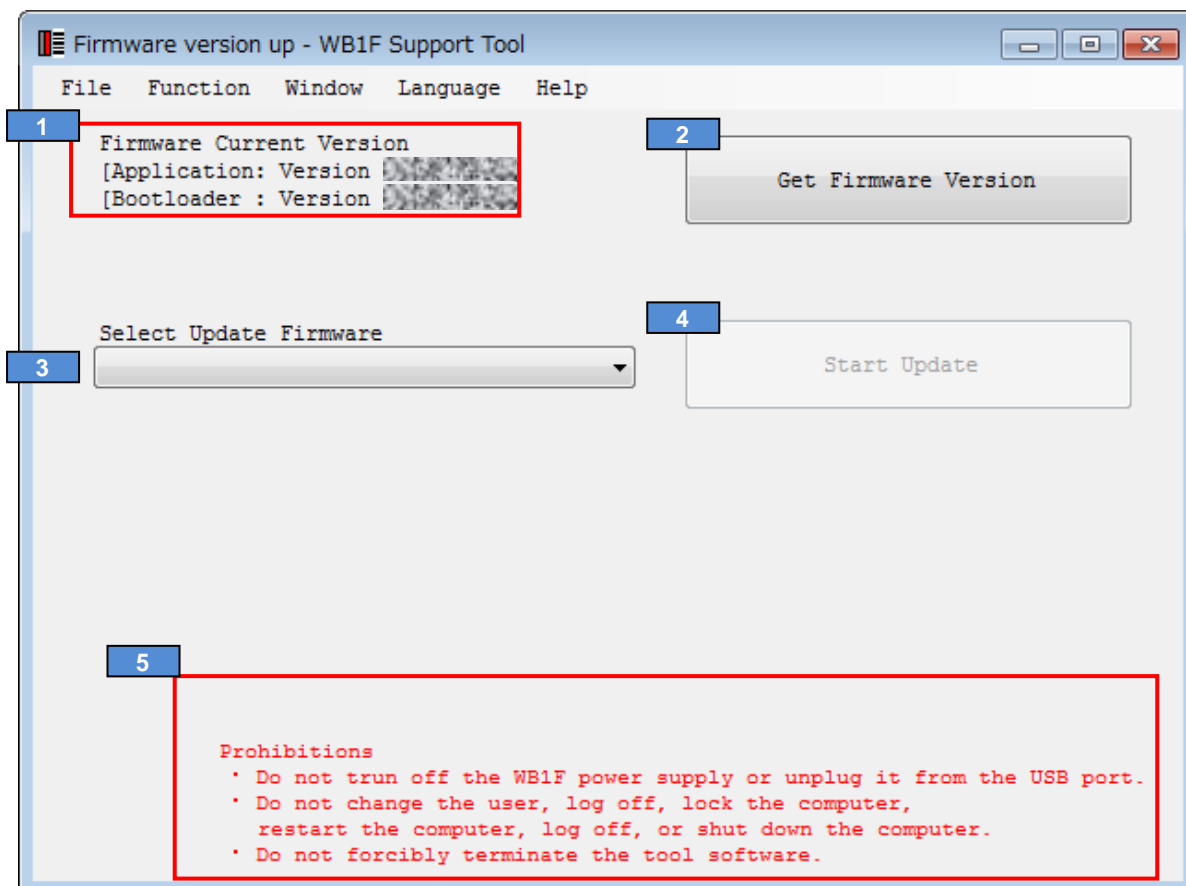
7.2.4. Firmware version up

This screen is the WB1F firmware update screen.

The WB1F can be made to support new functions and to increase performance and product reliability by updating the firmware.

IDEC recommends that you use the WB1F with the latest firmware.

The firmware is available on the IDEC website (<http://www.idec.com/>). Please check there for the latest version.



■ Screen description

No.	Name	Description
1	Check version	You can check the WB1F version.
2	Get Firmware Version	You can get the WB1F version.
3	Select Update Firmware	Select the firmware that you want to update with.
4	Start Update ^{*1}	Starts updating the firmware.
5	Prohibitions ^{*2}	Describes the prohibitions when using this function.

^{*1} **Start Update** (No. 4) is only available when the firmware that you want to update with is selected.

^{*2} Pay careful attention to the **prohibitions** (No. 5) before updating the firmware.

Updating the firmware

Attention : When firmware is update, all setting value of WB1F returns in the factory shipment state. Please upload the setting value from Scanner Setting Form as necessary.(Refer to P.16 7.2.3 Scanner settings.)

The firmware updating method is as follows.

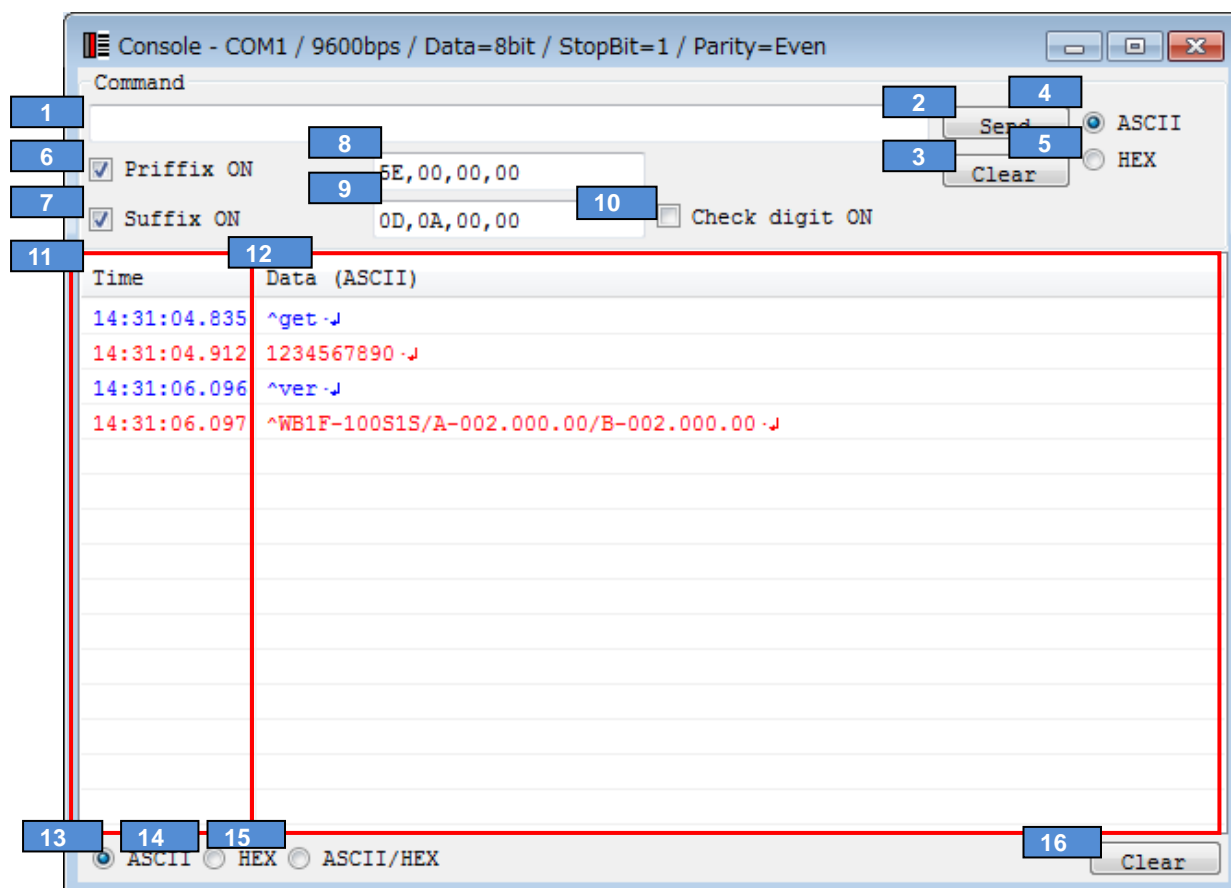
- (1) Select the firmware that you want to update with in **firmware selection** (No. 3).
- (2) Click **Start Update** (No. 4).
- (3) The firmware update will start. Follow the on-screen instructions.

7.3. Window

7.3.1. Console

Displays the console screen.

Use this screen when you want to enter commands yourself or when you want to check detailed communication information.



■ Screen description

No.	Name	Description
1	Command entry field	Enter the desired command.
2	Send	Sends the string in the command entry field.
3	Clear	Clears the string in the command entry field.
4	ASCII	The command entry field is entered in ASCII.
5	HEX	The command entry field is entered in hexadecimal values.
6	Prefix ON	Automatically adds the communication command prefix.
7	Suffix ON	Automatically adds the communication command suffix.
8	Prefix entry field	Enter the prefix to set.
9	Suffix entry field	Enter the suffix to set.
10	Check digit ON	Adds the check digit to the command.
11	Time	Displays the time of the communication requests and responses. Blue text: request, Red text: response
12	Communication monitor	Displays communication requests and responses. Blue text: request, Red text: response
13	ASCII	Displays the communication monitor as ASCII values.
14	HEX	Displays the communication monitor as hexadecimal values.
15	ASCII/HEX	Displays the communication monitor as ASCII and hexadecimal values.
16	Clear	Clears the communication monitor.

7.4. Language

7.4.1. 日本語(Japanese)

Sets the WB1F support tool display language to Japanese.

7.4.2. English

Sets the WB1F support tool display language to English.

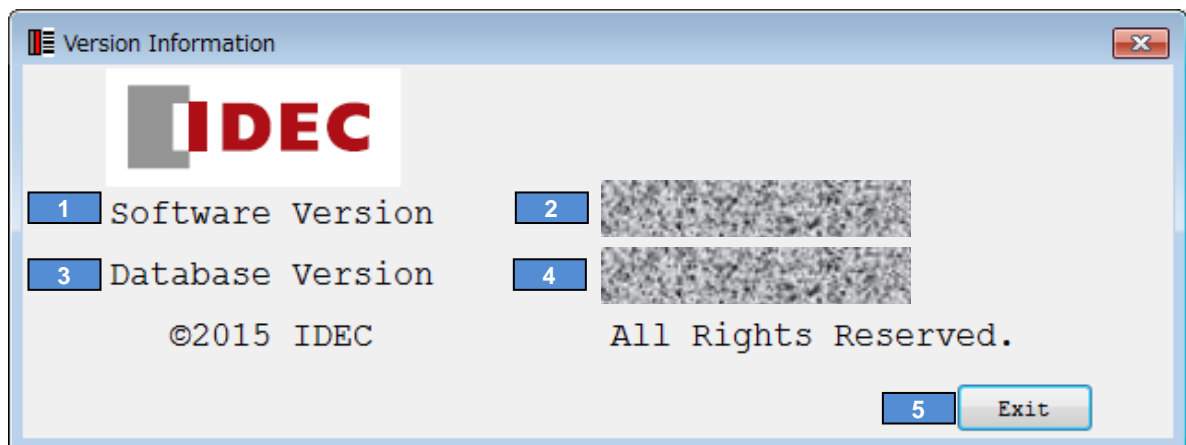
7.5. Help

7.5.1. User's manual

Displays the WB1F support tool user's manual (this manual).

7.5.2. Version information

Displays the version information.
The version information screen is as follows.



■ Screen description

No.	Name	Description
1	Software Version	The version name.
2	Version display 1	Displays the software version.
3	Database Version	The version name.
4	Version display 2	Displays the database version.
5	Exit	Closes the version information screen.

8. Troubleshooting

If a problem occurs while using the WB1F support tool, please check the following items.
If you cannot resolve the problem, contact our technical support.

Cannot send or receive with the WB1F support tool

- Are the WB1F and WB1F support tool communication conditions the same?

Open the WB1F support tool connection settings screen and check the communication conditions.

The communication port that the WB1F is connected to is not displayed

- Is the WB1F correctly connected?

Check if the computer and the WB1F are correctly connected.

- Has the communication port been recognized in Device Manager?

Check the communication port that the WB1F is connected to in Device Manager.

- When using the USB type, has the device driver been installed?

Check that the device driver has been correctly installed.

- When the RS-232 type is connected using a RS-232-to-USB conversion cable, has the device driver for the RS-232-to-USB conversion cable been installed?

Check that the device driver has been correctly installed.

- If the problem is not resolved by trying the above

Try the following procedure.

1. Exit the WB1F support tool.
2. Turn on the power supply for the WB1F again. (Turn off the power supply, then turn it back on again.)
3. Run the WB1F support tool.

The tool software cannot connect to the WB1F because the communication settings were forgotten (communication speed, data length, etc.)

- On the connection settings screen, select the communication port that the WB1F is connected to, and then click **Automatic connection**.

The support tool automatically searches for the communication settings that the WB1F is set to. This may take some time. (The maximum time: About 1min 30sec.)

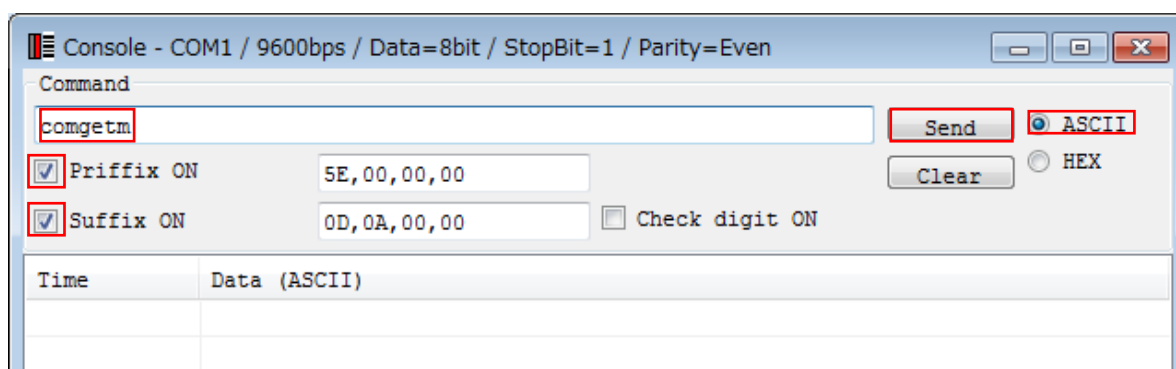
- Check the communication settings from maintenance mode.

1. Switch to maintenance mode. (Refer to the WB1F user's manual.)
2. Start the tool software and click a **Connection** with the default settings.

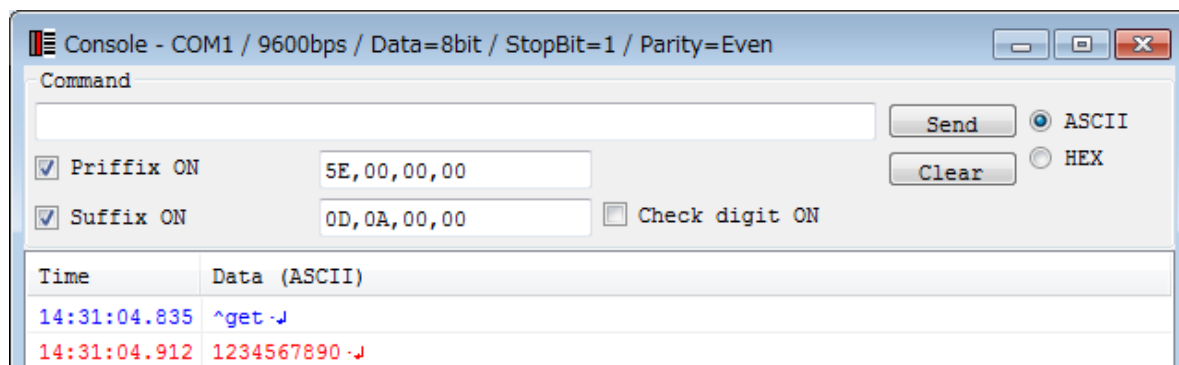
• Default settings

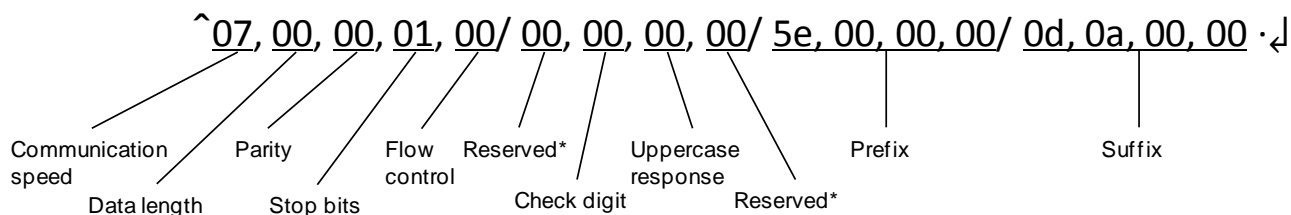
Communication connection	9600 bps	Flow control	None
Data length	8	Prefix	5E,00,00,00
Parity	EVEN	Suffix	0D,0A,00,00
Stop bits	1	Check digit	None

3. From the menu, select **Window - Console** to display the console screen.
4. Enter the command "comgetm" and send it.
(At this time, only select the checkboxes **Prifix ON** and **Suffix ON**.)



5. Check the communication settings that are set on the WB1F from the response results (red).



Response results format

* Reserved indicates unused areas which are always "00".

When the setting values for each item from the response results format are compared, they will be as shown in the following table.

Item	Setting value	Detailed setting value	Item	Setting value	Detailed setting value
Communication speed	07	115200 bps	Check digit	00	Disabled
Data length	00	7 bits	Uppercase response	00	Disabled (lowercase)
Parity	00	NONE	Prefix	5e,00,00,00	^
Stop bits	01	2 bits	Suffix	0d,0a,00,00	[CR][LF]
Flow control	00	None			

* Check each of the detailed setting values from the setting values by referring to the WB1F user's manual.

6. Exit the WB1F support tool and then turn off the power supply for the WB1F.
 7. Turn on the power supply, and then run the WB1F support tool.
 8. On the connection settings screen, click a **Connection** to the WB1F with the detailed setting values determined in step 5.
- * At this time, the uppercase response is not used.

9. Appendix

9.1. ASCII code table

Character	Hexadecimal	Character	Hexadecimal	Character	Hexadecimal	Character	Hexadecimal
NUL	00	SP	20	@	40	`	60
SOH	01	!	21	A	41	a	61
STX	02	"	22	B	42	b	62
ETX	03	#	23	C	43	c	63
EOT	04	\$	24	D	44	d	64
ENQ	05	%	25	E	45	e	65
ACK	06	&	26	F	46	f	66
BEL	07	'	27	G	47	g	67
BS	08	(	28	H	48	h	68
HT	09	)	29	I	49	i	69
LF/NL	0A	*	2A	J	4A	j	6A
VT	0B	+	2B	K	4B	k	6B
FF/NP	0C	,	2C	L	4C	l	6C
CR	0D	-	2D	M	4D	m	6D
SO	0E	.	2E	N	4E	n	6E
SI	0F	/	2F	O	4F	o	6F
DLE	10	0	30	P	50	p	70
DC1	11	1	31	Q	51	q	71
DC2	12	2	32	R	52	r	72
DC3	13	3	33	S	53	s	73
DC4	14	4	34	T	54	t	74
NAK	15	5	35	U	55	u	75
SYN	16	6	36	V	56	v	76
ETB	17	7	37	W	57	w	77
CAN	18	8	38	X	58	x	78
EM	19	9	39	Y	59	y	79
SUB	1A	:	3A	Z	5A	z	7A
ESC	1B	;	3B	[	5B	{	7B
FS	1C	<	3C	\	5C	|	7C
GS	1D	=	3D	]	5D	}	7D
RS	1E	>	3E	^	5E	~	7E
US	1F	?	3F	_	5F	DEL	7F

Control
character

Space
character

Revision history

Edition	Published	Revised content	
		Page	Points
1st	2015. 04	–	–
2nd	2016. 03	5	Addition of Version up information
		14, 15	7.2.2. Control command Addition of the explanation of a screen
		19	Addition of a notice of Updating the firmware
3rd	2016. 12	5	Addition of Version up information
4th	2017. 07	5	Addition of Version up information
5th	2018. 03	5	Addition of Version up information

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