

Mitsubishi Servo Amplifier
MELSERVO-J4 Series
MR-J4-A-RJ

Sample Screen Manual

Mitsubishi Electric Corporation

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REVISIONS

Sample Screen Manual

Date	Control No.*	Description	
2017/03	BCN-P5999-0871	First edition	-
2017/06	BCN-P5999-0871-1a	Version A	A1: [5.3.1 Menu (B-30001)] Corrected the description in the remarks [the one-touch tuning initial selection is initialized] → [the project script is used to initialize the one-touch tuning initial selection] A2: [5.4.2 GOT internal device] Added the description for GS650 to GS652 A3: [5.6 Script List] Corrected the number of screen that uses the screen script [B-30022, B-30023] → [B-30022 to 30024] Added [B-30531] A4: [5.6.2 Screen script] Added script No. 30150 A5: [5.6.2 Screen script] Corrected the number of screen corresponding the script [Base Screen 30016] → [Base Screen 30016, 30511] [Base Screen 30022] → [Base Screen 30022, 30521]

* The Control No. is noted at the lower right of each page.

Project Data

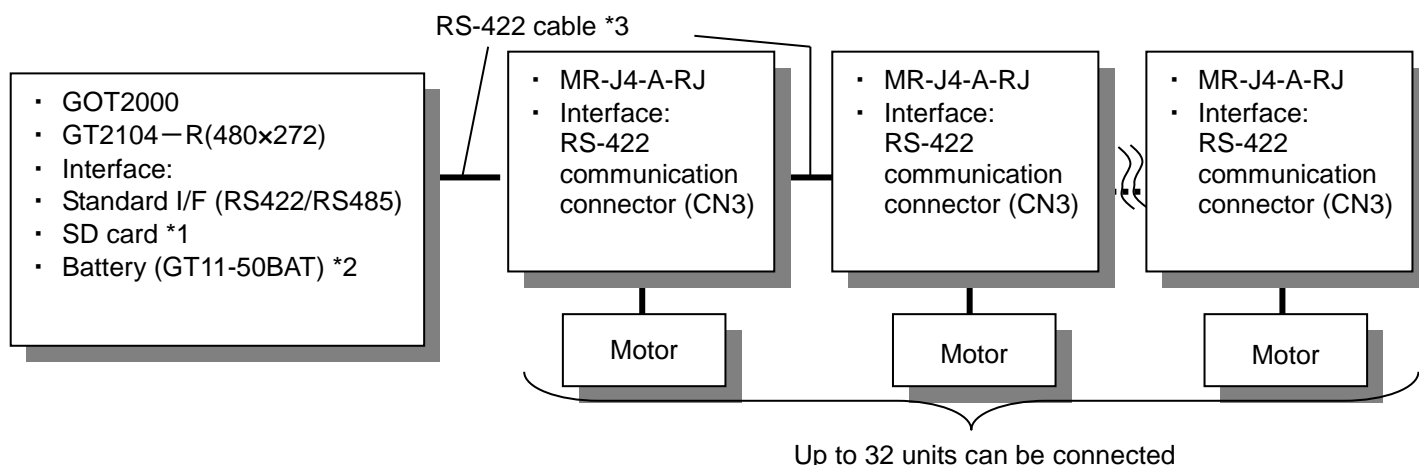
Date	Project data	GT Designer3*	Description	
2017/03	GT21_MITSUBISHI_MR-J4-A-RJ_R_Ver1_E.GTX	1.170C	First edition	-
2017/06	GT21_MITSUBISHI_MR-J4-A-RJ_R_Ver1a_E.GTX	1.170C	Version A	Check the [Include projects for the function of Utilize Data] box.

* The version number of screen design software used to create the project data is listed. Please use the screen design software with the listed version or later.

1. OUTLINE

This manual explains the sample screens of GOT2000 connected to a MELSERVO-J4 Series (MR-J4-A-RJ) servo amplifier in serial (RS-422) connection. The sample screens can be used for changing parameters, monitoring, and performing test operations.

2. SYSTEM CONFIGURATION



*1: The SD card is used for the logging function.

*2: The battery is used for backup of the clock data and logging data in the SRAM user area. (The battery is provided with the GOT as standard.)

*3: For more details about the cable, please refer to the "GOT2000 Series Connection Manual (Mitsubishi Products)".

3. GOT

3.1 System Applications Required to be Written into GOT

Type	System application name	
Standard Function	Standard System Application	
	Standard Font	Japanese
Communication Driver	MELSERVO-J4,J3,J2S/M,JE	
Extended Function	Standard Font	Chinese (Simplified) *1

*1: For writing the system application into the GOT, Chinese (Simplified) should be manually selected. For the details, please refer to "6.1 How to Manually Select System Applications".

3.2 Controller Setting of Screen Design Software

Detail Setting

Item	Set value	Remarks
Transmission Speed (BPS)	115200	
Data Bit	8 bit	
Stop Bit	1 bit	
Parity	Even	
Retry (Times)	3	
Timeout Time (Sec)	3	
Host Address	0	Station No. of servo amplifier configured in the system
Delay Time (ms)	0	
Station No. Selection	Yes	

3.3 Overlap Window/Superimpose Window Setting of Screen Design Software

To close window screens when switching base screens, we have enabled [Close the window when switching base screens] in [Detail Setting] for the overlap window and superimpose window in [Screen Switching/Window Setting].

4. Servo Amplifier

4.1 Servo Amplifier Communication Setting

Item	Set value	Remarks
Station No. setting	0	Station No. of servo amplifier
Communication function selection	0040	115200 bps, RS-422 communication response delay time invalid

4.2 Servo Amplifier Parameter Setting

The following set values were used to check the operation at Mitsubishi.

Item	Set value	Remarks
Operation mode	1006	Positioning control (Point table method)
Parameter write inhibit	00AB	Reading/Writing of all parameters enabled
Input signal auto ON selection 1	1C00	Sets LSP and LSN, EM2 to automatic ON
Function selection D-5	0001	Sets alarm code output
Others	Initial value	

5. SCREEN SPECIFICATIONS

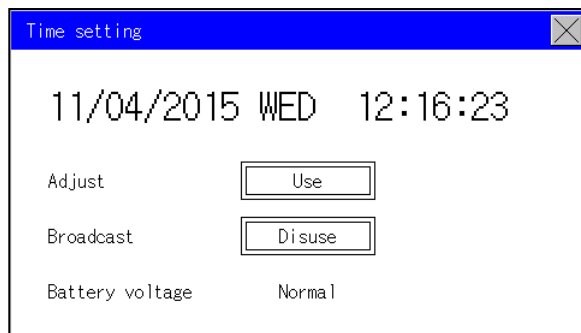
5.1 Display Language

The language of the text displayed on the screen can be switched between Japanese, English and Chinese (Simplified). The text strings in each language are registered in the columns No. 1 to No. 3 in the comment groups No. 499 and No. 500 as shown below. When the column No. is set in the language switching device, the language corresponding to the column No. will appear.

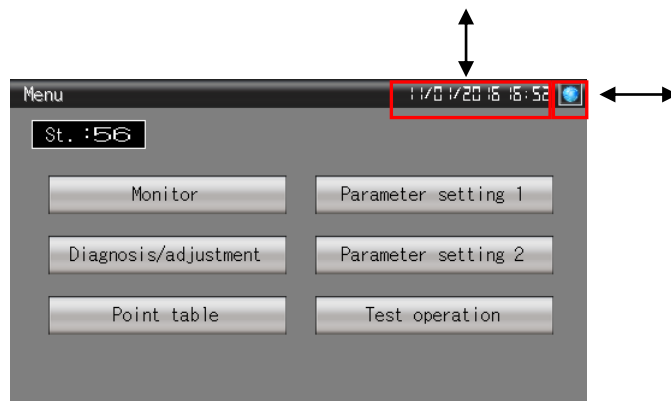
Column No.	Language
1	English
2	Japanese
3	Chinese (Simplified)

5.2 Screen List/Transition

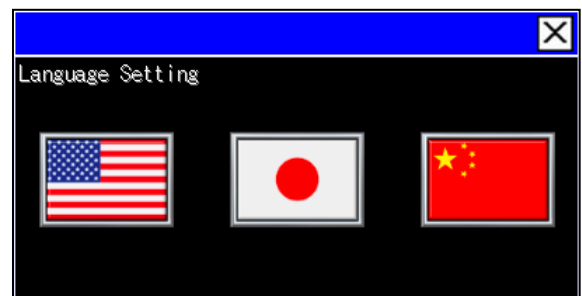
5.2.1 Screen list/transition (common)



Utility: Time setting

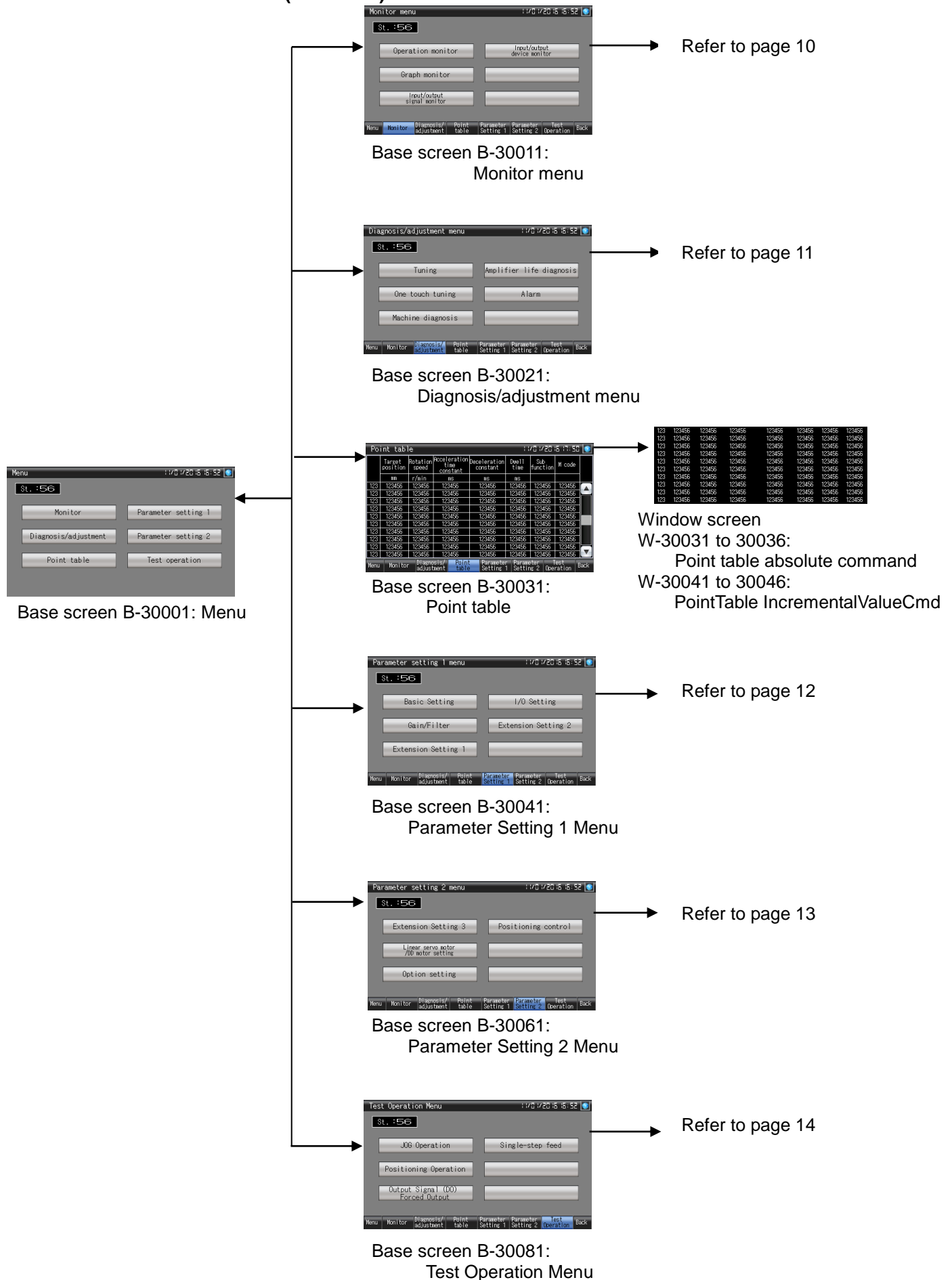


Base screen
(B-30001 Menu and other base screens)



Window screen W-30002:
Language Setting

5.2.2 Screen list/transition (individual)

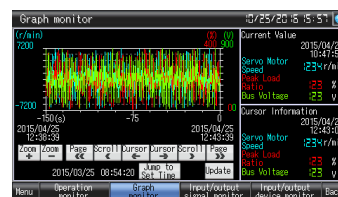




Base screen B-30011: Monitor

Item	Current Value	Unit
Cumulative Feedback Pulses	1234567890	pulse
Servo Motor Speed	123456	r/min
Drop Pulses	1234567890	pulse
Cumulative Command Pulses	1234567890	pulse
Command Pulse Frequency	1234567890	kpulse/s
Analog Speed Command Voltage	123.00	v
Analog Speed Limit Voltage	123.00	v
Analog Torque Command Voltage	123.00	v
Analog Torque Limit Voltage	123.00	v
Regenerative Load Ratio	123456	%
Effective Load Ratio	123456	%

Base screen B-30012 to 30013, 30501 to 30502:
Operation monitor



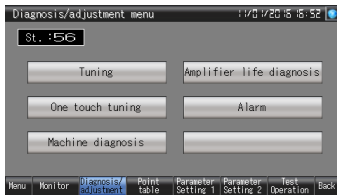
Base screen B-30014:
Graph monitor

Input Signal		Output Signal
<input type="radio"/> DI1-43	<input type="radio"/> DI1-18	<input type="radio"/> DI1-49
<input type="radio"/> DI1-44	<input type="radio"/> DI1-45	<input type="radio"/> DI1-24
<input type="radio"/> DI1-42	<input type="radio"/> DI1-10	<input type="radio"/> DI1-23
<input type="radio"/> DI1-15	<input type="radio"/> DI1-35	<input type="radio"/> DI1-25
<input type="radio"/> DI1-19		<input type="radio"/> DI1-22
<input type="radio"/> DI1-41		<input type="radio"/> DI1-48
<input type="radio"/> DI1-16		<input type="radio"/> DI1-33
<input type="radio"/> DI1-17		<input type="radio"/> DI1-13

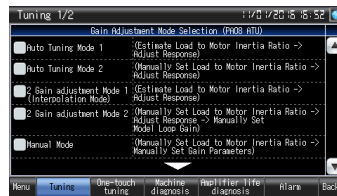
Base screen B-30015:
Input/output signal monitor

Input Device Status		Output Device Status
<input type="radio"/> S0N	<input type="radio"/> SP2	<input type="radio"/> T0TP
<input type="radio"/> LSP	<input type="radio"/> SP3	<input type="radio"/> P13
<input type="radio"/> LSN	<input type="radio"/> ST1/RS3	<input type="radio"/> M00
<input type="radio"/> TL	<input type="radio"/> ST2/RS2	<input type="radio"/> RT
<input type="radio"/> T12	<input type="radio"/> DI11	<input type="radio"/> HD1
<input type="radio"/> PC	<input type="radio"/> DI12	<input type="radio"/> TCH
<input type="radio"/> RES	<input type="radio"/> LOP	<input type="radio"/> TPA
<input type="radio"/> OR	<input type="radio"/> EHG/EH2	<input type="radio"/> RESR
<input type="radio"/> SP1	<input type="radio"/> STR63	<input type="radio"/> TP1
		<input type="radio"/> DWR
		<input type="radio"/> OVS
		<input type="radio"/> STAB
		<input type="radio"/> D10
		<input type="radio"/> D00/S16
		<input type="radio"/> D11

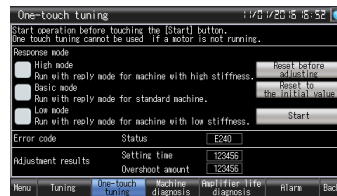
Base screen B-30016, 30511:
Input/output device monitor



Base screen B-30021:
Diagnosis/adjustment menu



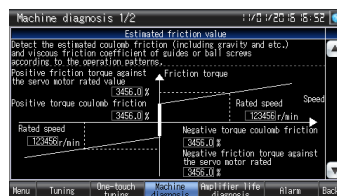
Base screen B-30022, 30521:
Tuning



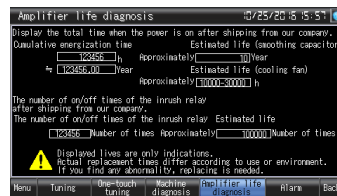
Base screen B-30023:
One-touch tuning



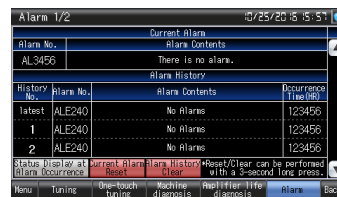
Window screen W-30011:
Disp progress of One-touchTuning



Base screen B-30024, 30531:
Machine diagnosis



Base screen B-30025:
Amplifier life diagnosis



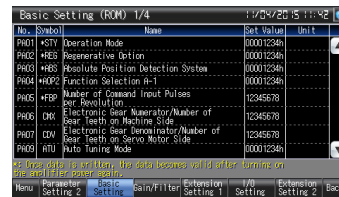
Base screen B-30026, 30541:
Alarm

Item	Current Value	Unit
Cumulative Feedback Pulses	1234567890	pulse
Servo Motor Speed	123456	r/min
Group Pulses	1234567890	pulse
Cumulative Command Pulses	1234567890	pulse
Command Pulse Frequency	1234567890	kpulse/s
Analog Speed Command Voltage/		
Analog Speed Limit Voltage	123.00	v
Analog Torque Command Voltage/		
Analog Torque Limit Voltage	123.00	v
Regenerative Load Ratio	123456	%
Effective Load Ratio	123456	%
Peak Load Ratio	123456	%

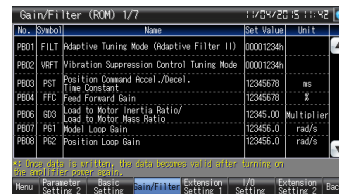
Window screen W-30021 to 30022,
30501 to 30502:
Alarm occurrence status



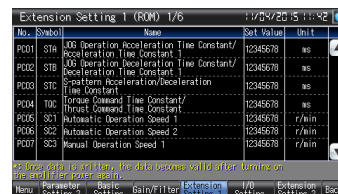
Base screen B-30041:
Parameter Setting 1 Menu



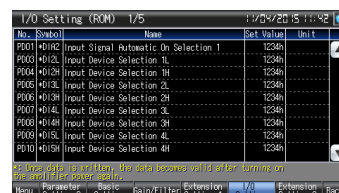
Base screen B-30042 to 30043, 30551 to 30552:
Basic Setting Parameters (ROM)



Base screen B-30045 to 30047, 30561 to 30564:
Gain/Filter Parameters (ROM)



Base screen B-30049 to 30051, 30571 to 30573:
Extension Setting 1 Parameters (ROM)



Base screen B-30053 to 30055, 30581 to 30582:
I/O Setting Parameters (ROM)



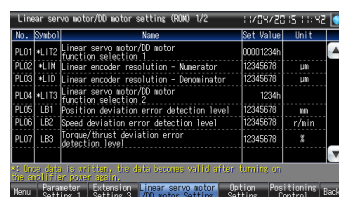
Base screen B-30057, 30591:
Extension Setting 2 Parameters (ROM)



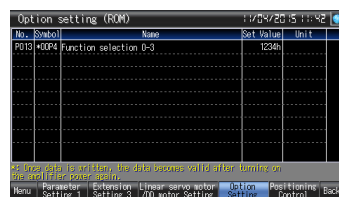
Base screen B-30061:
Parameter Setting 2 Menu



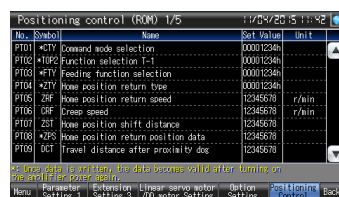
Base screen B-30063:
Extension Setting 3 Parameters (ROM)



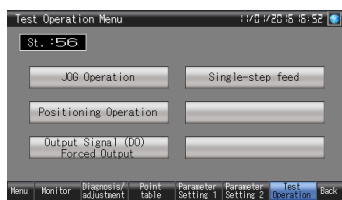
Base screen B-30065, 30601:
LinearServo/DDMotorSetParam (ROM)



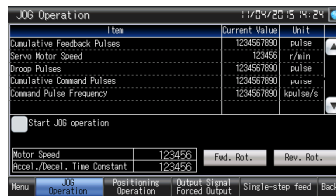
Base screen B-30067:
Option Setting Parameters (ROM)



Base screen B-30069 to 30071, 30611 to 30612:
PositioningCtrlParameter(ROM)



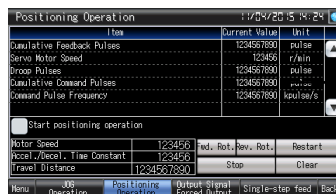
Base screen B-30081:
Test Operation Menu



Base screen B-30083:
JOG operation

Cumulative Feedback Pulses	1234567890	pulse
Servo Motor Speed	123456	r/min
Droop Pulses	1234567890	pulse
Cumulative Command Pulses	1234567890	pulse
Command Pulse Frequency	1234567890	kpulse/s

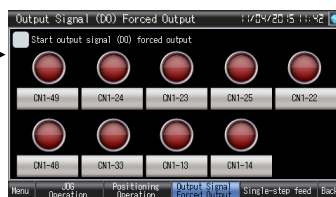
Window screen W-30101 to 30107:
Status Display



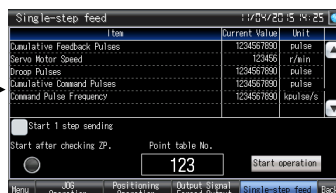
Base screen B-30085:
Positioning Operation

Cumulative Feedback Pulses	1234567890	pulse
Servo Motor Speed	123456	r/min
Droop Pulses	1234567890	pulse
Cumulative Command Pulses	1234567890	pulse
Command Pulse Frequency	1234567890	kpulse/s

Window screen W-30101 to 30107:
Status Display



Base screen B-30089:
Output Signal (DO) Forced Output



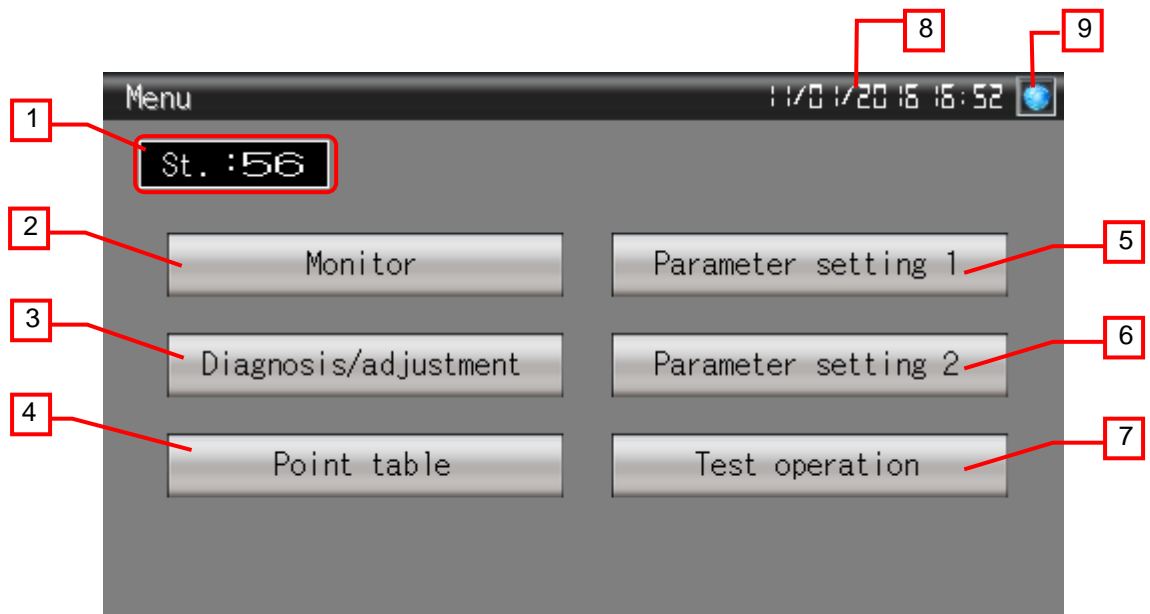
Base screen B-30091:
Single-step feed

Cumulative Feedback Pulses	1234567890	pulse
Servo Motor Speed	123456	r/min
Droop Pulses	1234567890	pulse
Cumulative Command Pulses	1234567890	pulse
Command Pulse Frequency	1234567890	kpulse/s

Window screen W-30101 to 30107:
Status Display

5.3 Explanation of Screens

5.3.1 Menu (B-30001)



Outline

This is the Menu screen.

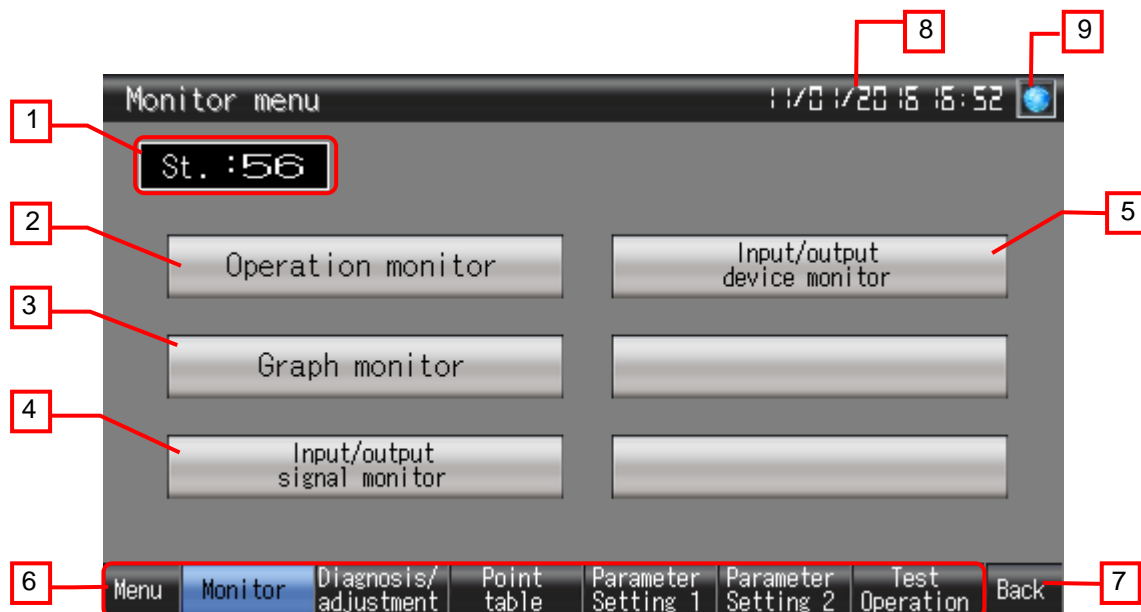
Description

1. Shows the station number of the servo amplifier. Touch the value to change the station number.
2. Switches to the [Monitor menu] screen.
3. Switches to the [Diagnosis/adjustment menu] screen.
4. Switches to the [Point table] screen.
5. Switches to the [Parameter Setting 1 Menu] screen.
6. Switches to the [Parameter Setting 2 Menu] screen.
7. Switches to the [Test Operation Menu] screen.
8. Displays the current date and time. Touching the date and time displays [Time Setting] of the utility.
9. Opens the [Language Setting] window.

Remarks

- At the GOT startup, the project script works to set the station number to "0". Also, the project script is used to initialize the point table No. for single-step feed and the one-touch tuning initial selection. For the details on the script, please refer to "5.6 Script List".

5.3.2 Monitor menu (B-30011)



Outline

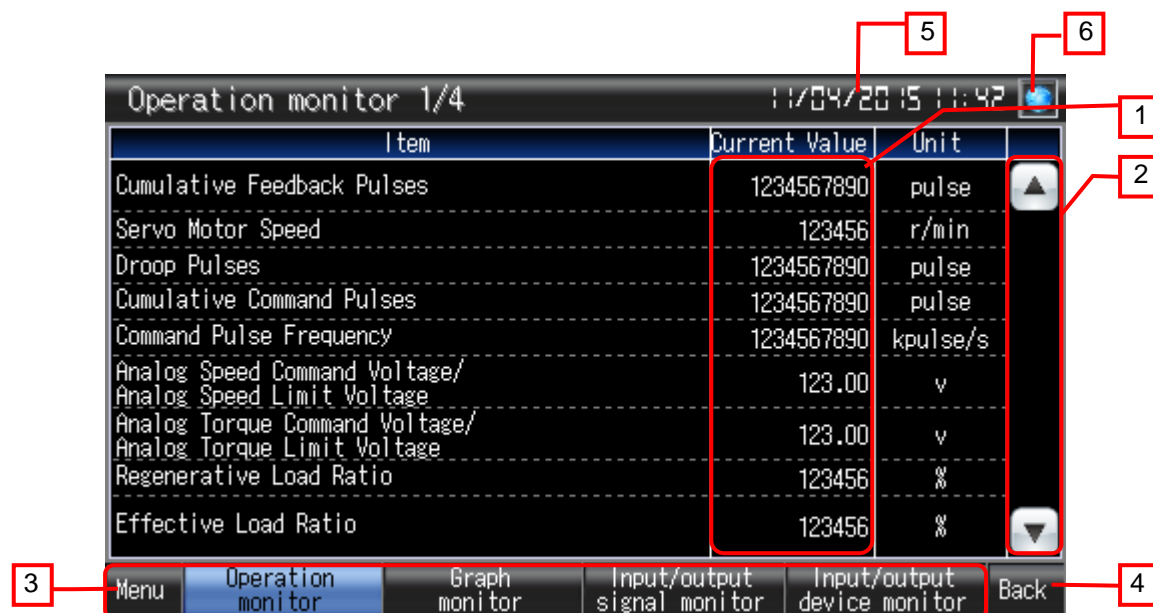
This is the menu screen for monitor.

Description

1. Shows the station number of the servo amplifier. Touch the value to change the station number.
2. Switches to the [Operation monitor] screen.
3. Switches to the [Graph monitor] screen.
4. Switches to the [Input/output signal monitor] screen.
5. Switches to the [Input/output device monitor] screen.
6. Switches to each screen. The blue switch indicates the currently displayed screen, thus selecting this switch will not switch the screen.
7. Switches to the previously opened screen.
8. Displays the current date and time. Touching the date and time displays [Time Setting] of the utility.
9. Opens the [Language Setting] window.

Remarks

5.3.3 Operational monitor (B-30012 to 30013, 30501 to 30502)



Outline

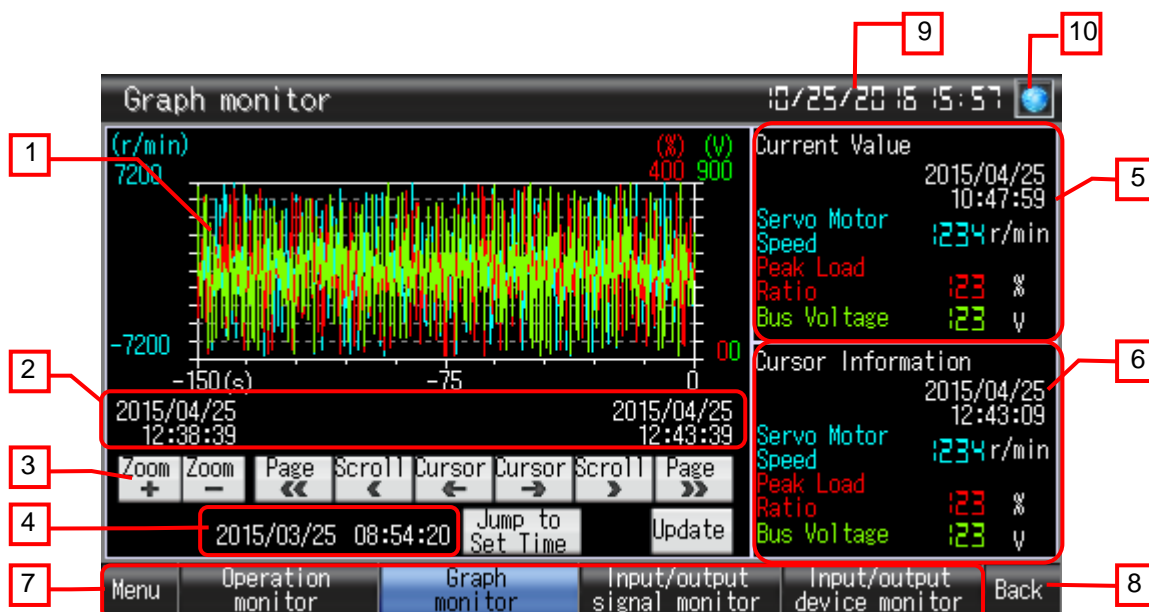
This screen displays the status of the servo amplifier in operation.

Description

1. Displays the current values of each item.
2. Switches the displayed item of operational monitor.
3. Switches to each screen. The blue switch indicates the currently displayed screen, thus selecting this switch will not switch the screen.
4. Switches to the previously opened screen.
5. Displays the current date and time. Touching the date and time displays [Time Setting] of the utility.
6. Opens the [Language Setting] window.

Remarks

5.3.4 Graph monitor (B-30014)



Outline

This screen displays the servo motor speed, peak load ratio, and bus voltage data collected using the logging function in numerical values and a historical trend graph.

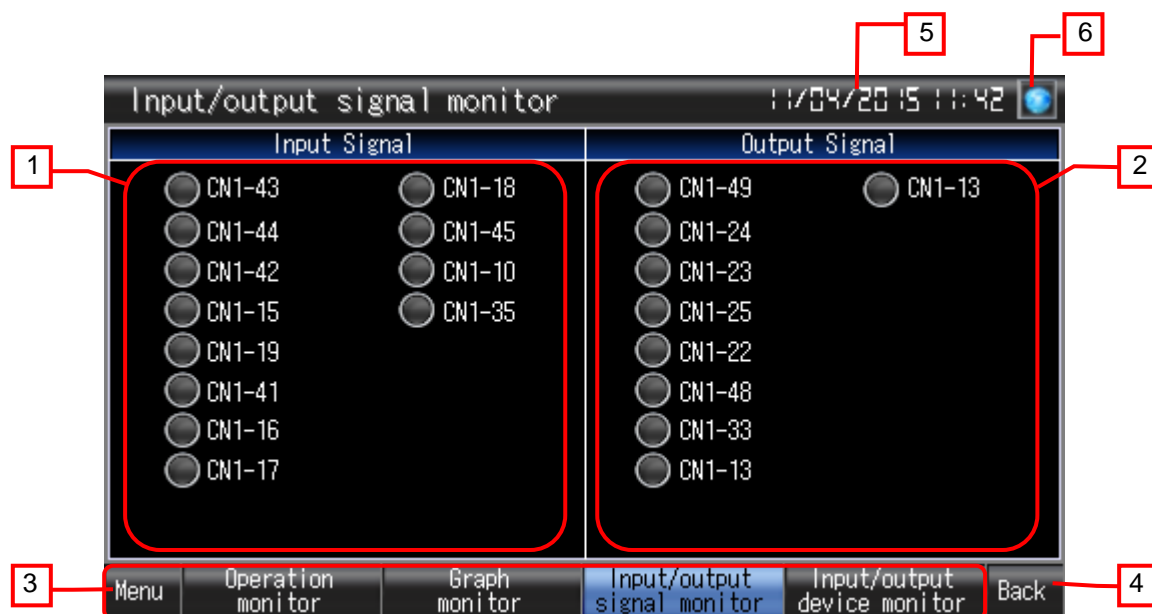
Description

- Displays the data such as the servo motor speed, peak load ratio, and bus voltage in the historical trend graph. In the graph, the servo motor speed, peak load ratio, and bus voltage are shown in light blue, red, and green, respectively. Touch the graph to show the cursor.
- Displays the historical trend graph's beginning position time and end position time.
- Operates the historical trend graph.
 - Zoom +: Enlarges (x2) the graph's time axis based on the new data axis.
 - Zoom -: Reduces (x1/2) the graph's time axis based on the new data axis.
 - Page <<: Scrolls the page to the left.
 - Scroll <: Scrolls the graph to the left.
 - Cursor <: Displays a cursor, and scrolls the cursor in the direction of the older data.
 - Cursor >: Displays a cursor, and scrolls the cursor in the direction of the newer data.
 - Scroll >: Scrolls the graph to the right.
 - Page >>: Scrolls the page to the right.
 - Update: Clears the cursor, and displays the latest data.
- Shows the specified date and time in the center of the graph when the date and time are entered and the [Jump to Set Time] switch is touched. The current date and time are stored when the screen is initially displayed.
- Displays the current date and time, and the current values of the servo motor speed, peak load ratio, and bus voltage.
- Displays the date and time and the values of the servo motor speed, peak load ratio, and bus voltage of the cursor position.
- Switches to each screen. The blue switch indicates the currently displayed screen, thus selecting this switch will not switch the screen.
- Switches to the previously opened screen.
- Displays the current date and time. Touching the date and time displays [Time Setting] of the utility.
- Opens the [Language Setting] window.

Remarks

- The project script is used to perform the display control by switching the operation mode of the motor speed. Also, the screen script is used for the [Jump to Set Time] switch in the historical trend graph. For the details on the script, please refer to "5.6 Script List".

5.3.5 Input/output signal monitor (B-30015)



Outline

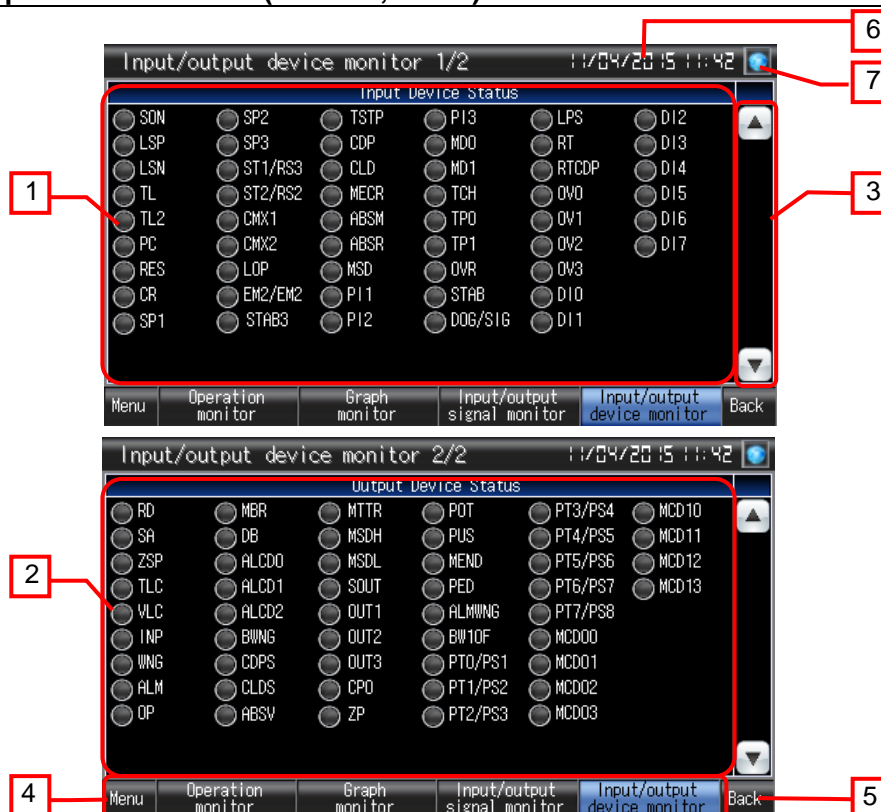
Displays the status of Input/output signal.

Description

1. Displays the status of input signal.
2. Displays the status of output signal.
3. Switches to each screen. The blue switch indicates the currently displayed screen, thus selecting this switch will not switch the screen.
4. Switches to the previously opened screen.
5. Displays the current date and time. Touching the date and time displays [Time Setting] of the utility.
6. Opens the [Language Setting] window.

Remarks

5.3.6 Input/output device monitor (B-30016, 30511)



Outline

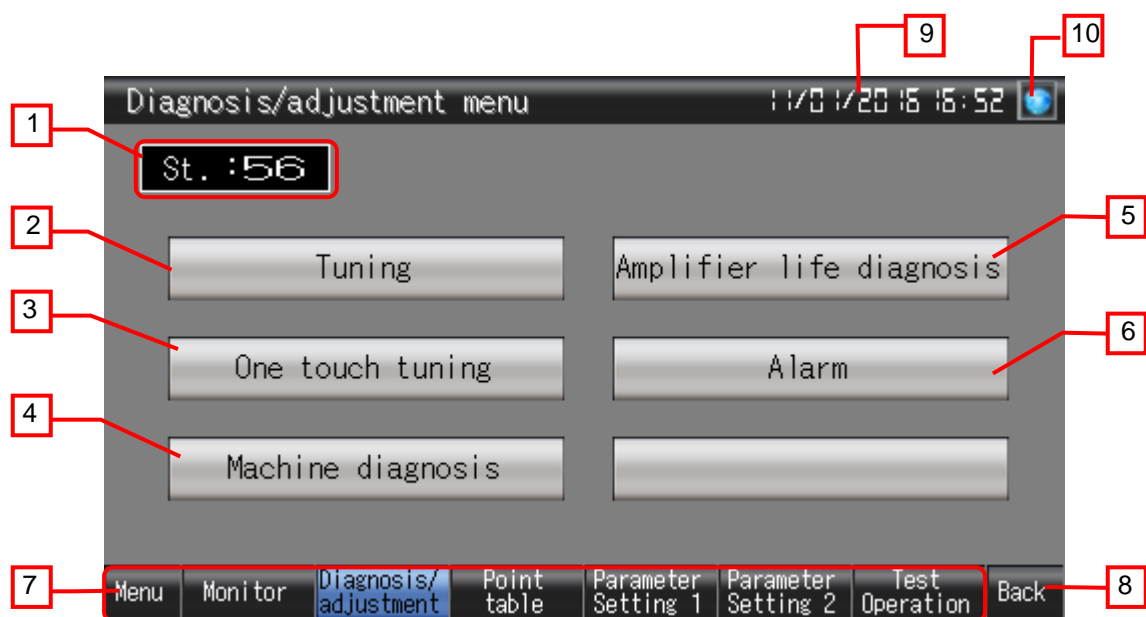
Displays the status of input/output device.

Description

1. Displays the status of input signal.
2. Displays the status of output signal.
3. Scrolls the screen to view all the displayed items of the input/output device.
4. Switches to each screen. The blue switch indicates the currently displayed screen, thus selecting this switch will not switch the screen.
5. Switches to the previously opened screen.
6. Displays the current date and time. Touching the date and time displays [Time Setting] of the utility.
7. Opens the [Language Setting] window.

Remarks

5.3.7 Diagnosis/adjustment Menu (B-30021)



Outline

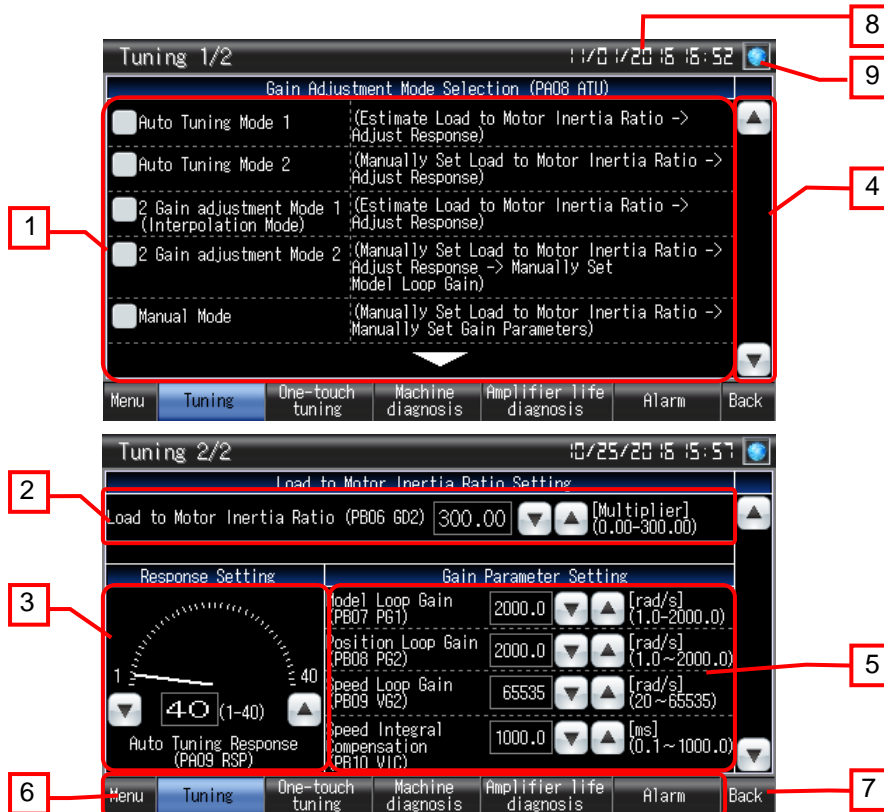
This is the menu screen for diagnosis/adjustment.

Description

1. Shows the station number of the servo amplifier. Touch the value to change the station number.
2. Switches to the [Tuning] screen.
3. Switches to the [One-touch tuning] screen.
4. Switches to the [Machine diagnosis] screen.
5. Switches to the [Amplifier life diagnosis] screen.
6. Switches to the [Alarm] screen.
7. Switches to each screen. The blue switch indicates the currently displayed screen, thus selecting this switch will not switch the screen.
8. Switches to the previously opened screen.
9. Displays the current date and time. Touching the date and time displays [Time Setting] of the utility.
10. Opens the [Language Setting] window.

Remarks

5.3.8 Tuning(B-30022, 30521)



Outline

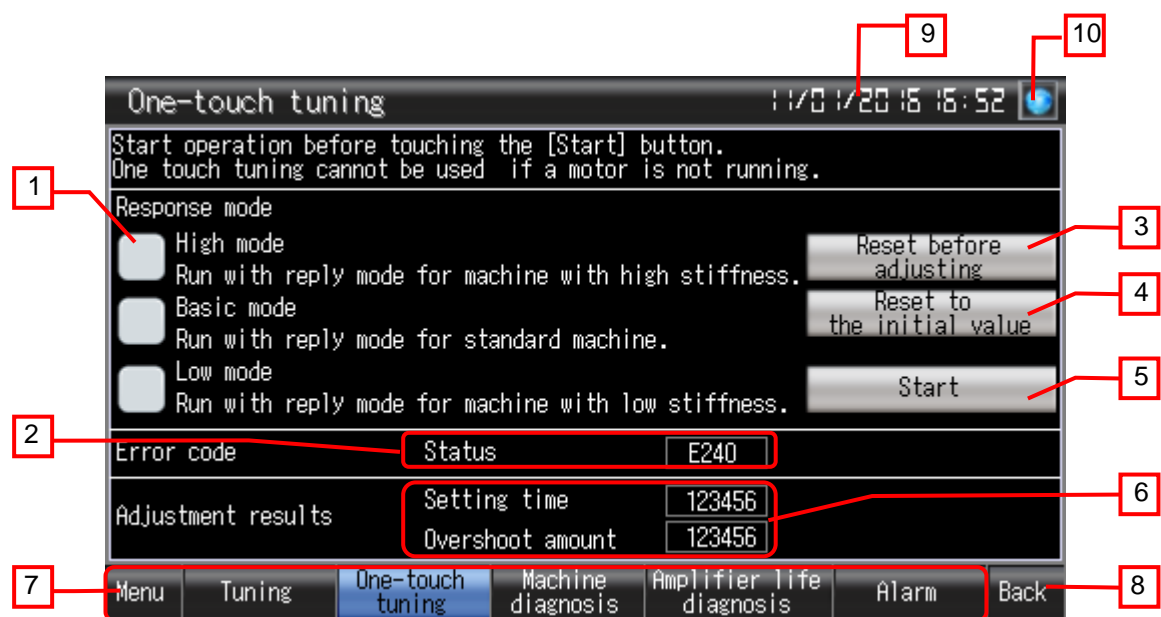
Set the necessary parameters for gain adjustment.

Description

1. Select the Gain adjust mode. Items differ according to the selected mode.
2. Sets the Load to Motor Inertia Ratio.
3. Sets the Auto Tuning Response.
4. Scrolls the screen to view all the displayed items of tuning.
5. Sets the gain parameter.
6. Switches to each screen. The blue switch indicates the currently displayed screen, thus selecting this switch will not switch the screen.
7. Switches to the previously opened screen.
8. Displays the current date and time. Touching the date and time displays [Time Setting] of the utility.
9. Opens the [Language Setting] window.

Remarks

5.3.9 One-touch tuning (B-30023)



Outline

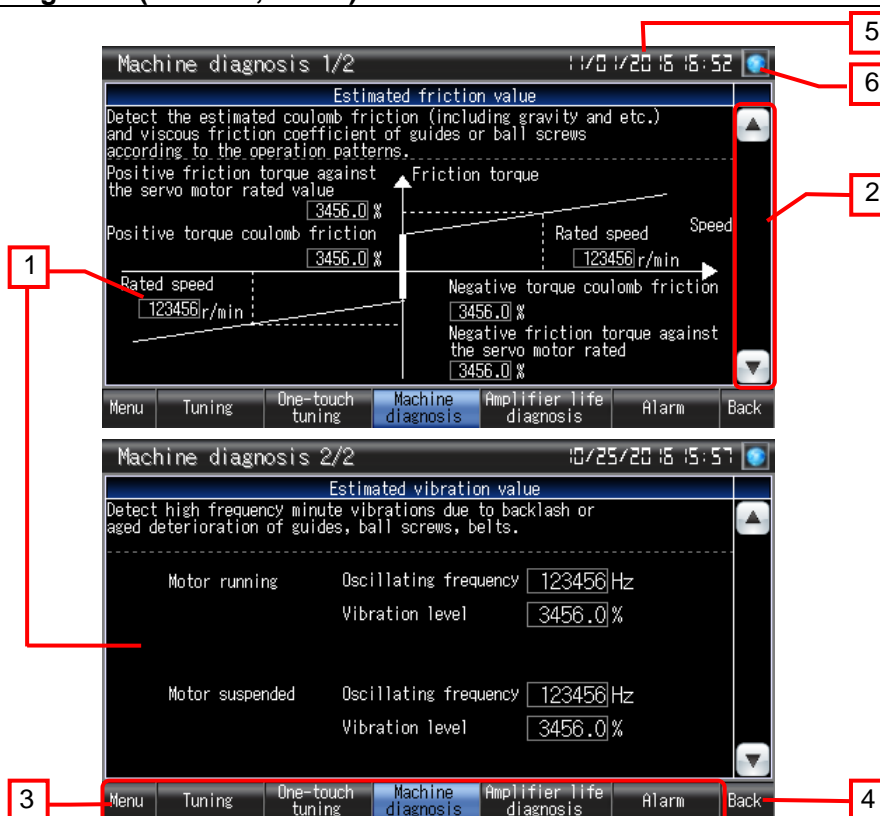
Perform one-touch tuning.

Description

1. Selects reply mode.
2. Displays the error code.
3. Back to the previous state before one touch tuning.
4. Back to the initial state.
5. Perform one touch tuning according to the selected reply mode.
6. Displays the result of tuning.
7. Switches to each screen. The blue switch indicates the currently displayed screen, thus selecting this switch will not switch the screen.
8. Switches to the previously opened screen.
9. Displays the current date and time. Touching the date and time displays [Time Setting] of the utility.
10. Opens the [Language Setting] window.

Remarks

5.3.10 Machine diagnosis (B-30024, 30531)



Outline

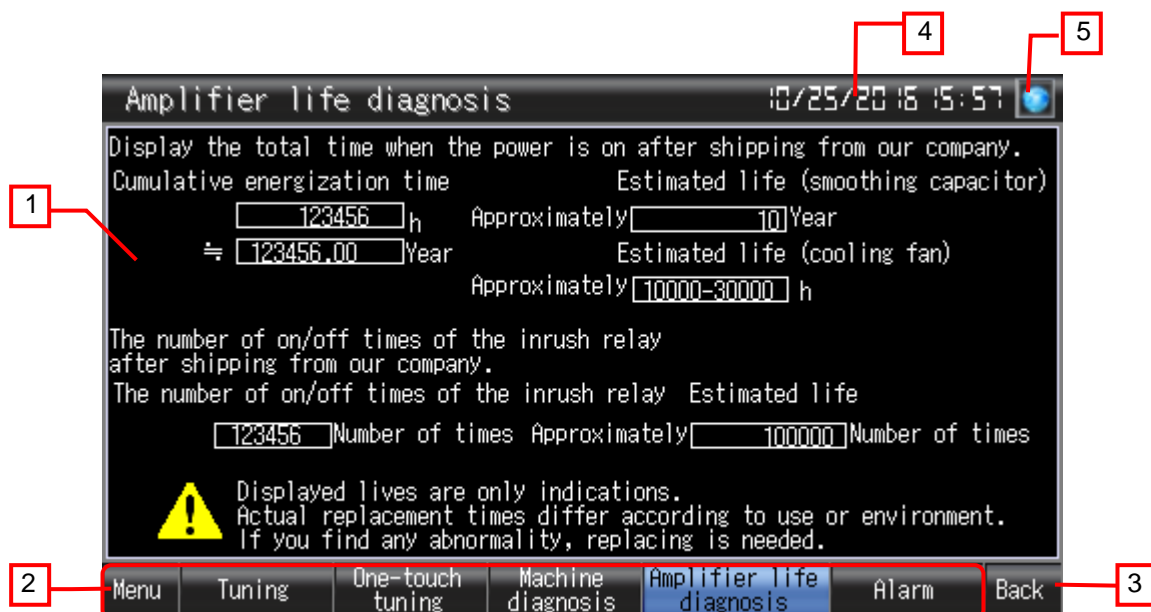
Display the machine diagnosis

Description

1. Display the result of machine diagnosis.
2. Scrolls the screen to view all the displayed items of machine diagnosis.
3. Switches to each screen. The blue switch indicates the currently displayed screen, thus selecting this switch will not switch the screen.
4. Switches to the previously opened screen.
5. Displays the current date and time. Touching the date and time displays [Time Setting] of the utility.
6. Opens the [Language Setting] window.

Remarks

5.3.11 Amplifier life diagnosis (B-30025)



Outline

Display the amplifier life diagnosis

Description

1. Displays the result of amplifier life diagnosis.
2. Switches to each screen. The blue switch indicates the currently displayed screen, thus selecting this switch will not switch the screen.
3. Switches to the previously opened screen.
4. Displays the current date and time. Touching the date and time displays [Time Setting] of the utility.
5. Opens the [Language Setting] window.

Remarks

5.3.12 Alarm (B-30026, 30541)



Outline

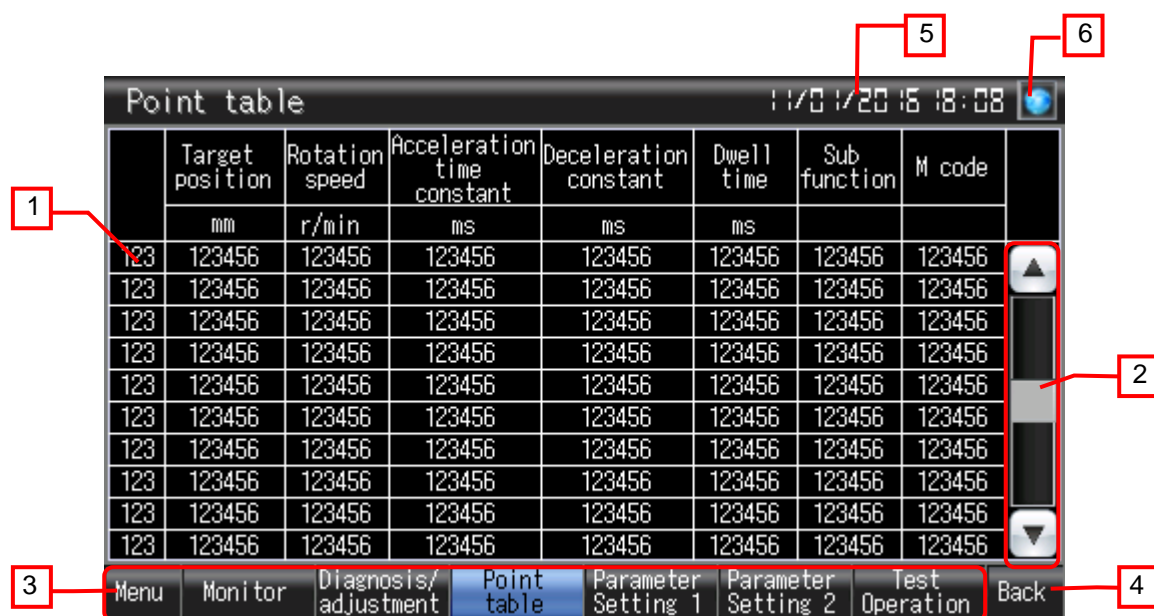
This screen displays alarms, and allows their history to be checked.

Description

1. Displays the current alarm number and message.
2. Displays the previous alarms.
Displays the latest alarm (that occurred last) and the next eight most recent alarms (i.e., nine previous alarms in total).
3. Resets the current alarm with a 3-second long press.
4. Displays the [Alarm occurrence status] window.
5. Scrolls the screen to view all the displayed items of alarm.
6. Clears the alarm history with a 3-second long press.
7. Switches to each screen. The blue switch indicates the currently displayed screen, thus selecting this switch will not switch the screen.
8. Switches to the previously opened screen.
9. Displays the current date and time. Touching the date and time displays [Time Setting] of the utility.
10. Opens the [Language Setting] window.

Remarks

5.3.13 Point table (B-30031)



Outline

Display/set EEPROM point table of servo amplifier.

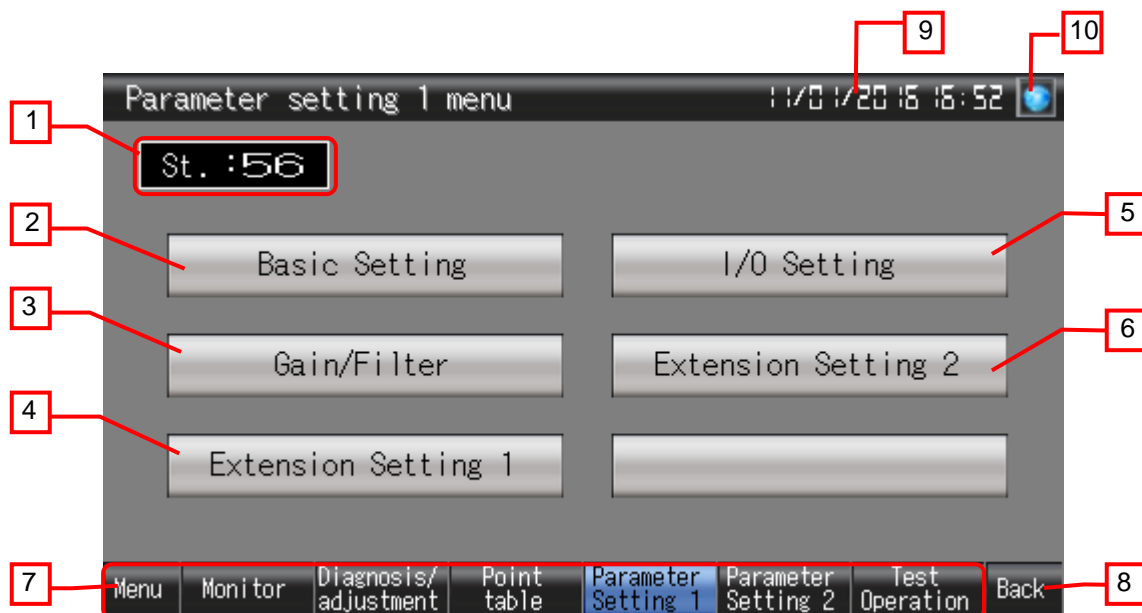
Description

1. Displays and sets point table.
2. Scrolls point table.
 : Scrolls up and down 1 rows.
3. Switches to each screen. The blue switch indicates the currently displayed screen, thus selecting this switch will not switch the screen.
4. Switches to the previously opened screen.
5. Displays the current date and time. Touching the date and time displays [Time Setting] of the utility.
6. Opens the [Language Setting] window.

Remarks

- The superimpose window is used to display the point table.
- The screen script is used to display the superimpose window. For the details on the script, please refer to "5.6 Script List".

5.3.14 Parameter setting 1 menu (B-30041)



Outline

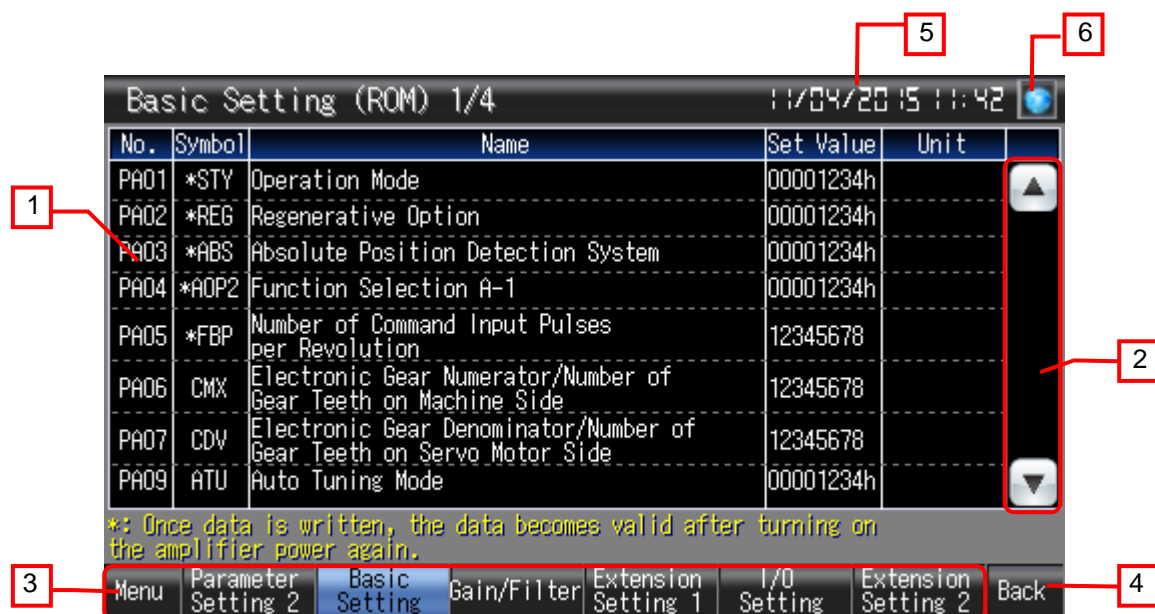
This is the menu screen for parameter setting 1.

Description

1. Shows the station number of the servo amplifier. Touch the value to change the station number.
2. Switches to the [Basic Setting Parameters (ROM)] screen.
3. Switches to the [Gain/Filter Parameters (ROM)] screen.
4. Switches to the [Ext.Setting1 Parameters (ROM)] screen.
5. Switches to the [I/O Setting Parameters (ROM)] screen.
6. Switches to the [Ext.Setting2 Parameters (ROM)] screen.
7. Switches to each screen. The blue switch indicates the currently displayed screen, thus selecting this switch will not switch the screen.
8. Switches to the previously opened screen.
9. Displays the current date and time. Touching the date and time displays [Time Setting] of the utility.
10. Opens the [Language Setting] window.

Remarks

5.3.15 Basic Setting (ROM) (B-30042 to 30043, 30551 to 30552)



Outline

This screen allows displaying and setting the basic setting parameters of EEPROM in the servo amplifier.

Description

1. Displays and sets the parameter set values.
(The set values without an "h" are in decimal and those with an "h" are in hexadecimal.)
2. Switches displayed item of Basic Setting.
3. Switches to each screen. The blue switch indicates the currently displayed screen, thus selecting this switch will not switch the screen.
4. Switches to the previously opened screen.
5. Displays the current date and time. Touching the date and time displays [Time Setting] of the utility.
6. Opens the [Language Setting] window.

Remarks

5.3.16 Gain/Filter (ROM) (B-30045 to 30047, 30561 to 30564)



Outline

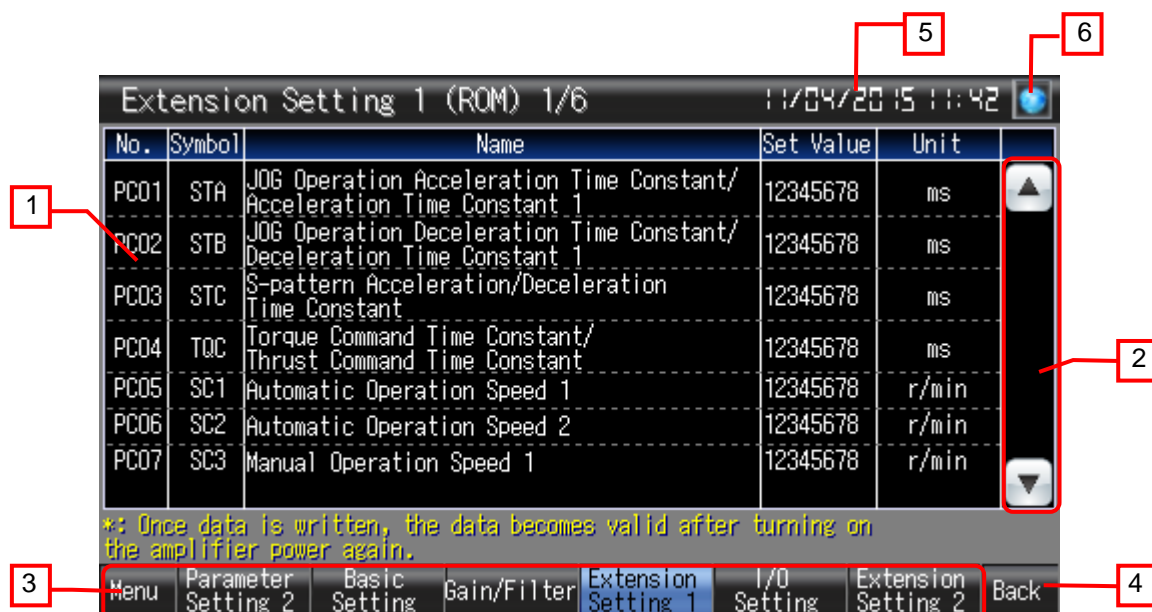
This screen shows and allows setting of the gain/filter parameters of EEPROM in the servo amplifier.

Description

1. Displays and sets the parameter set values.
(The set values without an "h" are in decimal and those with an "h" are in hexadecimal.)
2. Switches the displayed item of gain/filter parameter.
3. Switches to each screen. The blue switch indicates the currently displayed screen, thus selecting this switch will not switch the screen.
4. Switches to the previously opened screen.
5. Displays the current date and time. Touching the date and time displays [Time Setting] of the utility.
6. Opens the [Language Setting] window.

Remarks

5.3.17 Extension Setting 1 (ROM) (B-30049 to 30051, 30571 to 30573)



Outline

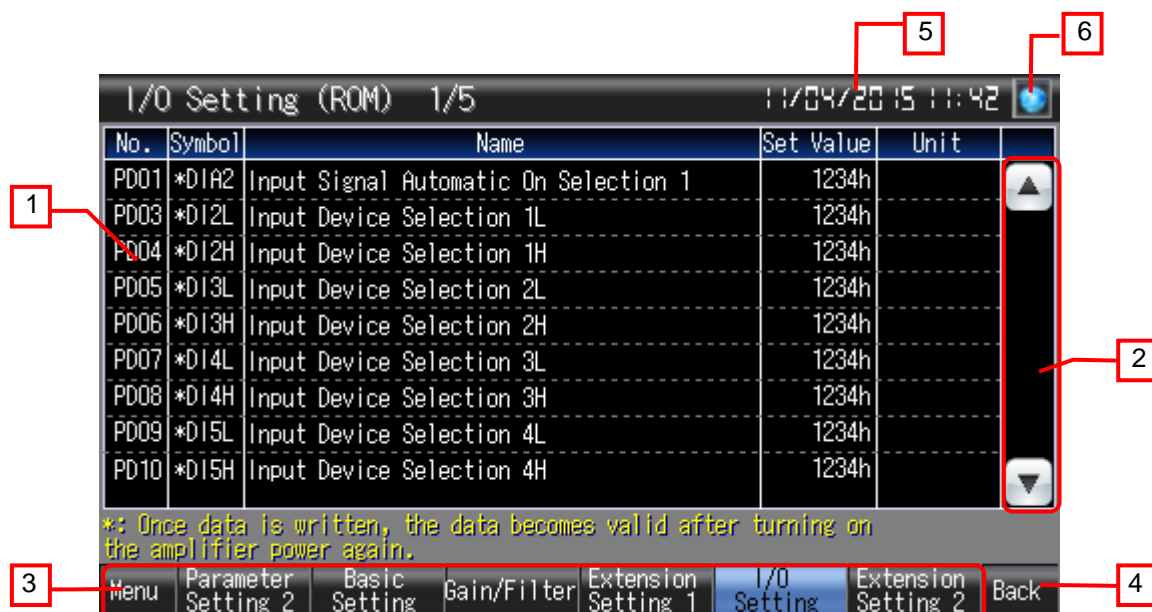
This screen allows displaying and setting the extension setting 1 parameters of EEP-ROM in the servo amplifier.

Description

1. Displays and sets the parameter set values.
(The set values without an "h" are in decimal and those with an "h" are in hexadecimal.)
2. Switches displayed item of Ext.Setting1 Parameters (ROM).
3. Switches to each screen. The blue switch indicates the currently displayed screen, thus selecting this switch will not switch the screen.
4. Switches to the previously opened screen.
5. Displays the current date and time. Touching the date and time displays [Time Setting] of the utility.
6. Opens the [Language Setting] window.

Remarks

5.3.18 I/O Setting (ROM) (B-30053 to 30055, 30581 to 30582)



Outline

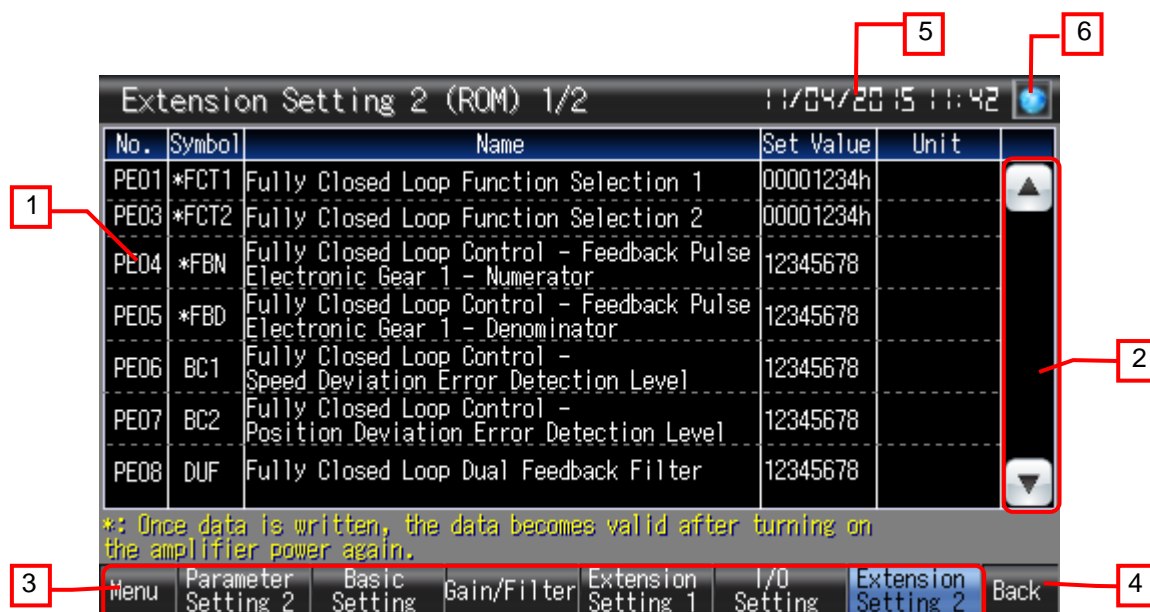
This screen allows displaying and setting the I/O setting parameters of EEPROM in the servo amplifier.

Description

1. Displays and sets the parameter set values.
(The set values without an "h" are in decimal and those with an "h" are in hexadecimal.)
2. Switches to displayed item of input/output setting parameter.
3. Switches to each screen. The blue switch indicates the currently displayed screen, thus selecting this switch will not switch the screen.
4. Switches to the previously opened screen.
5. Displays the current date and time. Touching the date and time displays [Time Setting] of the utility.
6. Opens the [Language Setting] window.

Remarks

5.3.19 Extension Setting 2 (ROM) (B-30057, 30591)



Outline

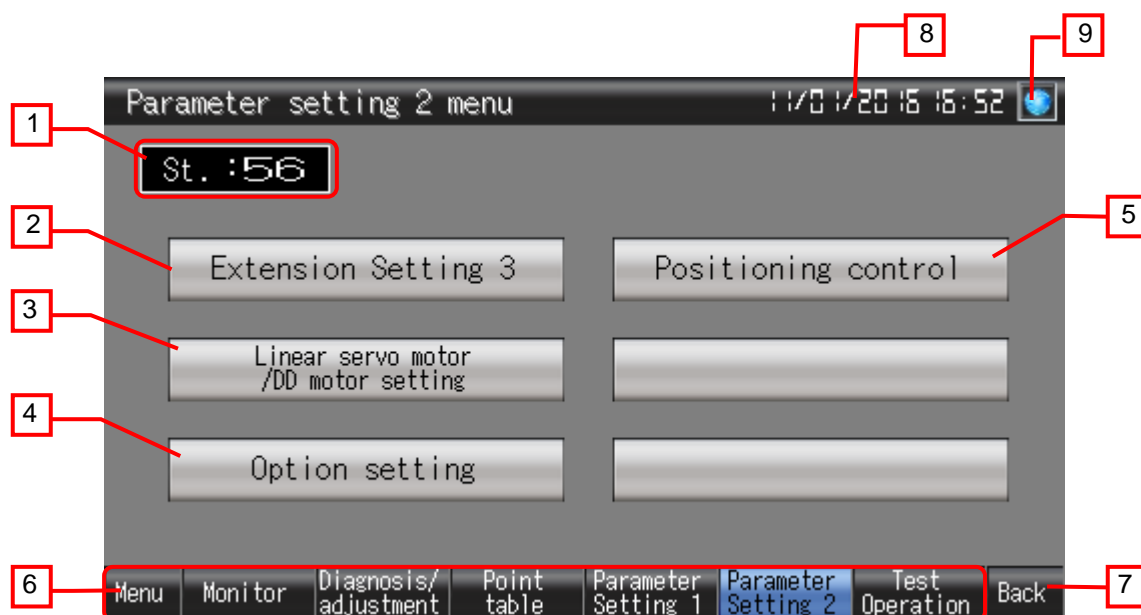
This screen allows displaying and setting the extension setting 2 parameters of EEP-ROM in the servo amplifier.

Description

1. Displays and sets the parameter set values.
(The set values without an "h" are in decimal and those with an "h" are in hexadecimal.)
2. Scrolls the screen to view all the displayed items of the extension setting 1 parameter.
3. Switches to each screen. The blue switch indicates the currently displayed screen, thus selecting this switch will not switch the screen.
4. Switches to the previously opened screen.
5. Displays the current date and time. Touching the date and time displays [Time Setting] of the utility.
6. Opens the [Language Setting] window.

Remarks

5.3.20 Parameter setting 2 menu (B-30061)



Outline

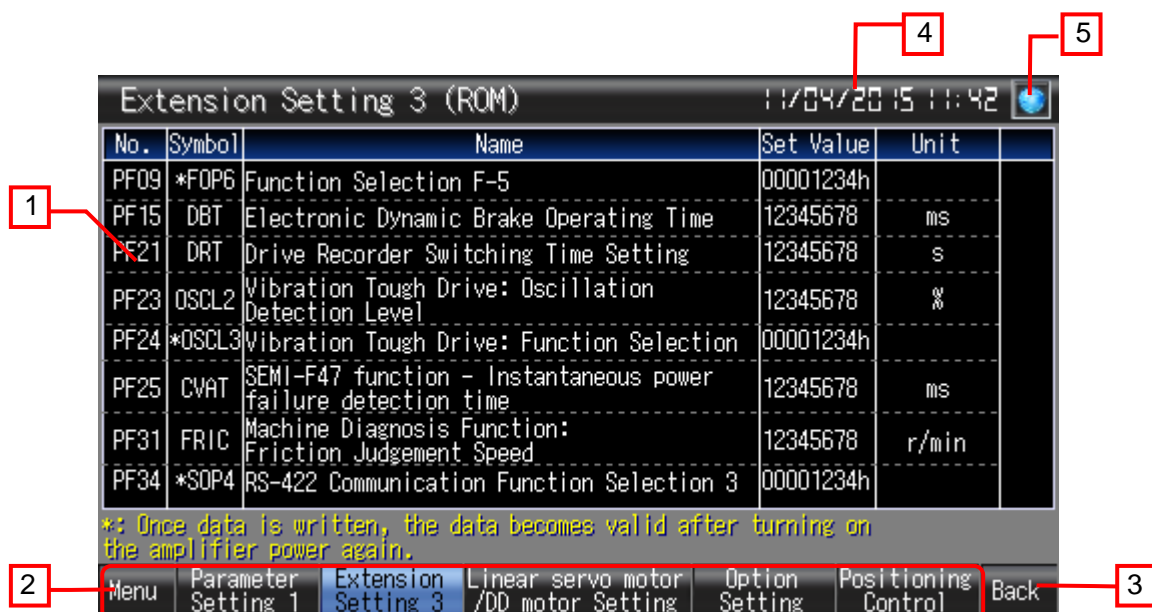
This is the menu screen for parameter setting 2.

Description

1. Shows the station number of the servo amplifier. Touch the value to change the station number.
2. Switches to the [Ext.Setting3 Parameters (ROM)] screen.
3. Switches to the [LinearServo/DDMotorSetParam (ROM)] screen.
4. Switches to the [Option Setting Parameters (ROM)] screen.
5. Switches to the [PositioningCtrlParameter (ROM)] screen.
6. Switches to each screen. The blue switch indicates the currently displayed screen, thus selecting this switch will not switch the screen.
7. Switches to the previously opened screen.
8. Displays the current date and time. Touching the date and time displays [Time Setting] of the utility.
9. Opens the [Language Setting] window.

Remarks

5.3.21 Extension Setting 3 (ROM) (B-30063)



Outline

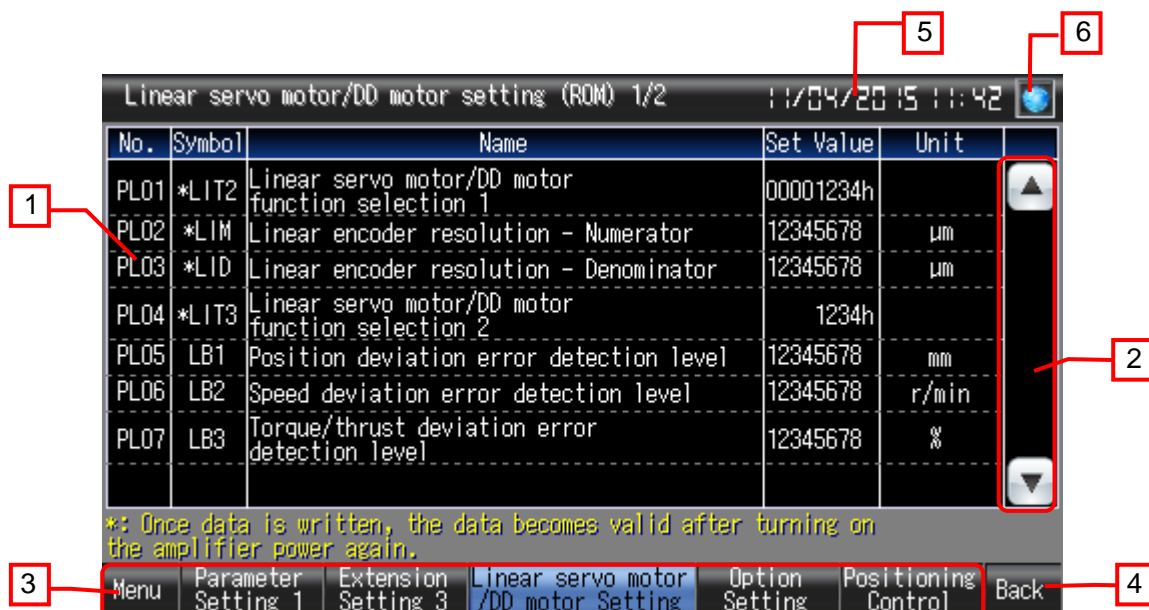
This screen allows displaying and setting the extension setting 3 parameters of EEP-ROM in the servo amplifier.

Description

- Displays and sets the parameter set values.
(The set values without an "h" are in decimal and those with an "h" are in hexadecimal.)
- Switches to each screen. The blue switch indicates the currently displayed screen, thus selecting this switch will not switch the screen.
- Switches to the previously opened screen.
- Displays the current date and time. Touching the date and time displays [Time Setting] of the utility.
- Opens the [Language Setting] window.

Remarks

5.3.22 Linear servo motor /DD motor setting (ROM) (B-30065, 30601)



Outline

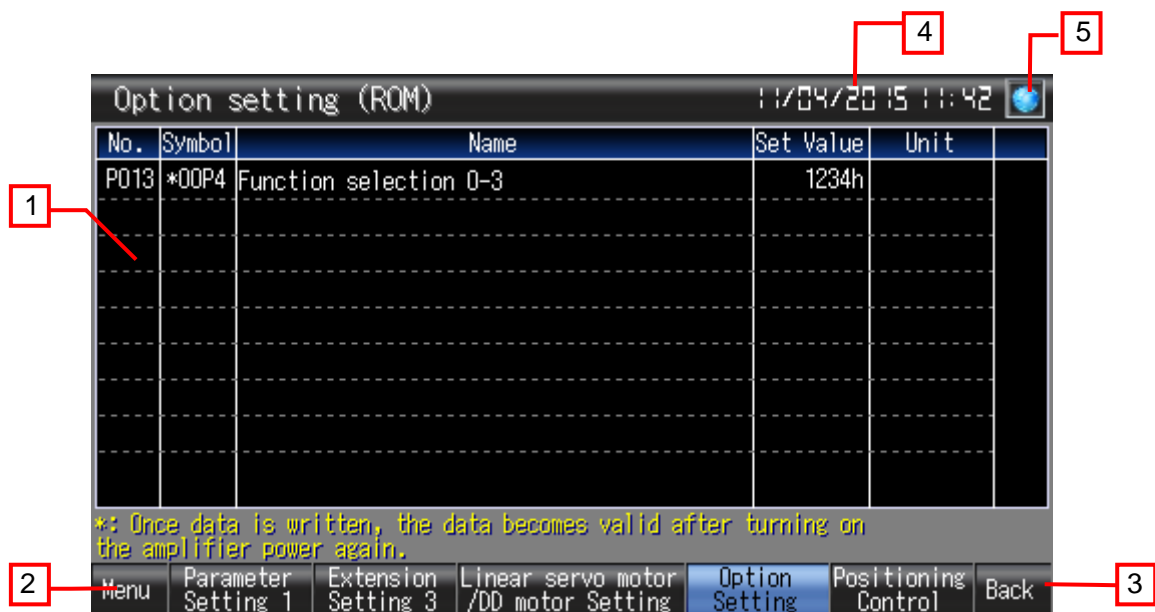
This screen allows displaying and setting the linear servo motor /DD motor setting parameters of EEP-ROM in the servo amplifier.

Description

1. Displays and sets the parameter set values.
(The set values without an "h" are in decimal and those with an "h" are in hexadecimal.)
2. Scrolls the screen to view all the displayed items of the linear servo motor/DDO motor setting parameter.
3. Switches to each screen. The blue switch indicates the currently displayed screen, thus selecting this switch will not switch the screen.
4. Switches to the previously opened screen.
5. Displays the current date and time. Touching the date and time displays [Time Setting] of the utility.
6. Opens the [Language Setting] window.

Remarks

5.3.23 Option setting (ROM) (B-30067)



Outline

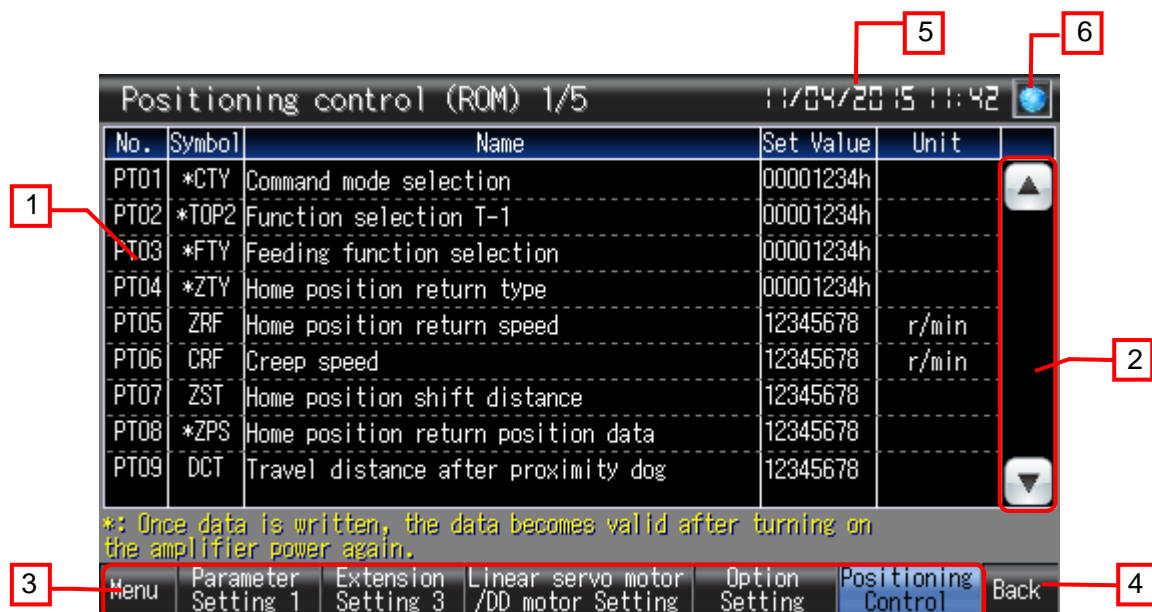
This screen allows displaying and setting the option setting parameters of EEPROM in the servo amplifier.

Description

1. Displays and sets the parameter set values.
(The set values without an "h" are in decimal and those with an "h" are in hexadecimal.)
2. Switches to each screen. The blue switch indicates the currently displayed screen, thus selecting this switch will not switch the screen.
3. Switches to the previously opened screen.
4. Displays the current date and time. Touching the date and time displays [Time Setting] of the utility.
5. Opens the [Language Setting] window.

Remarks

5.3.24 Positioning control (ROM) (B-30069 to 30071, 30611 to 30612)



Outline

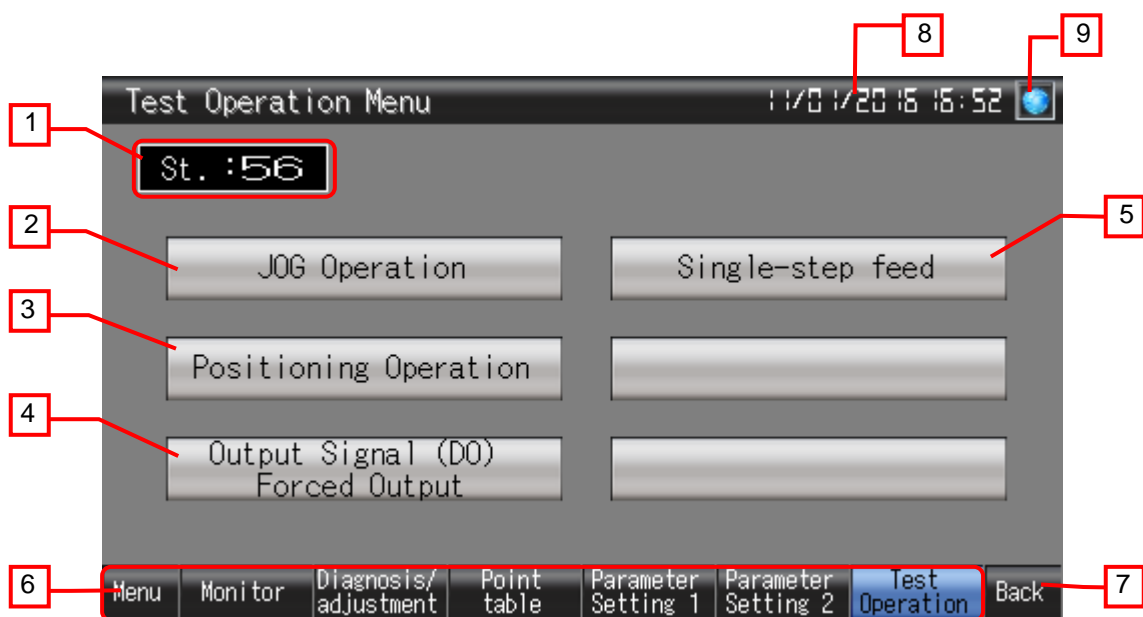
This screen allows displaying and setting the position control parameters of EEPROM in the servo amplifier.

Description

- Displays and sets the parameter set values.
(The set values without an "h" are in decimal and those with an "h" are in hexadecimal.)
- Switches the displayed item of positioning control parameter.
- Switches to each screen. The blue switch indicates the currently displayed screen, thus selecting this switch will not switch the screen.
- Switches to the previously opened screen.
- Displays the current date and time. Touching the date and time displays [Time Setting] of the utility.
- Opens the [Language Setting] window.

Remarks

5.3.25 Test Operation menu (B-30081)



Outline

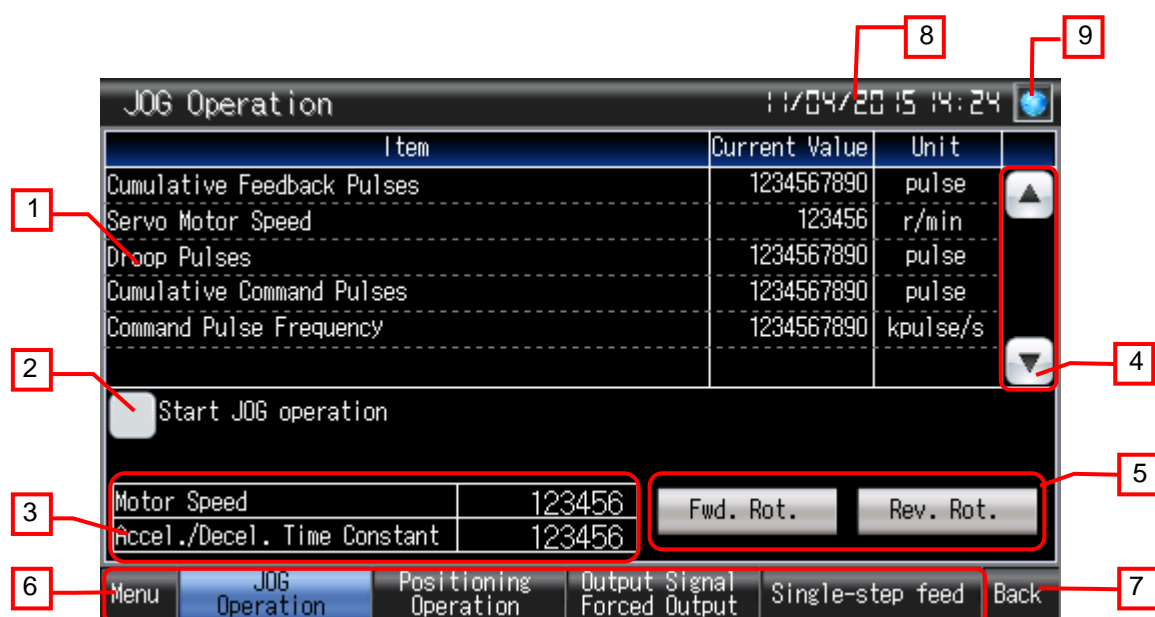
This is the test operation menu screen.

Description

1. Shows the station number of the servo amplifier. Touch the value to change the station number.
2. Switches to the [JOG Operation] screen.
3. Switches to the [positioning operation] screen.
4. Switches to the [Output Signal (DO) Forced Output] screen.
5. Switches to the [Single-step feed] screen.
6. Switches to each screen. The blue switch indicates the currently displayed screen, thus selecting this switch will not switch the screen.
7. Switches to the previously opened screen.
8. Displays the current date and time. Touching the date and time displays [Time Setting] of the utility.
9. Opens the [Language Setting] window.

Remarks

5.3.26 JOG Operation (B-30083)



Outline

This screen allows a JOG operation test to be conducted.

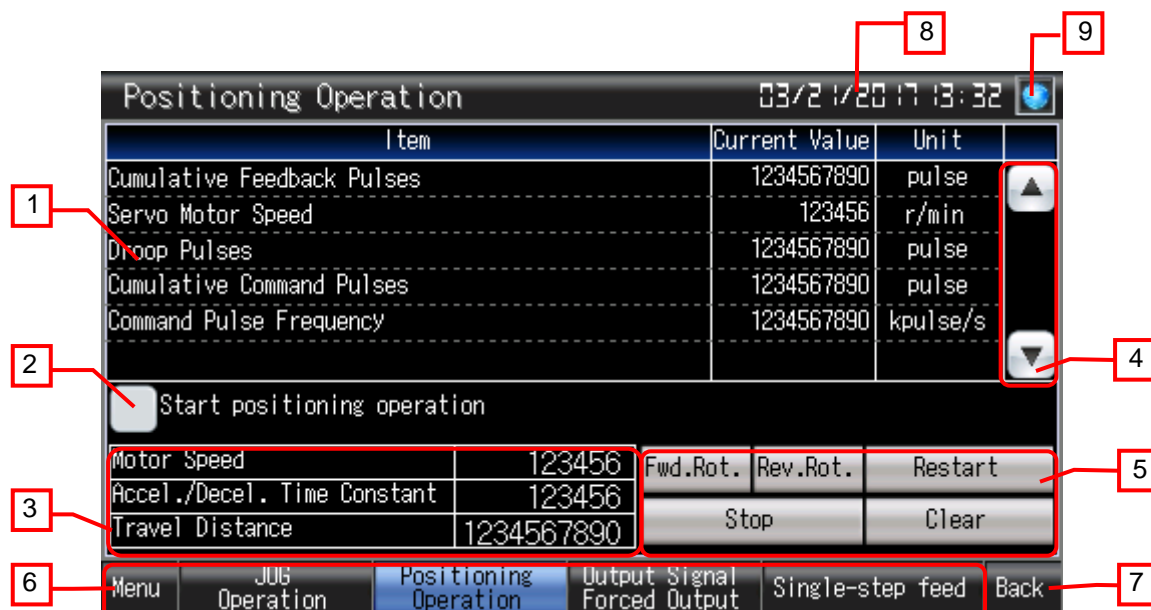
Description

1. Displays the servo motor status.
2. Switches to JOG operation mode. Touch again during JOG operation to end test operation mode.
3. Sets the motor speed, Acceleration/Deceleration Time Constant.
4. Scrolls the screen to view all the displayed items.
5. Perform JOG Operation.
 - Fwd. Rot.: Performs JOG operation in forward rotation while being touched.
 - Rev. Rot.: Performs JOG operation in reverse rotation while being touched.
6. Switches to each screen. The blue switch indicates the currently displayed screen, thus selecting this switch will not switch the screen.
7. Switches to the previously opened screen.
8. Displays the current date and time. Touching the date and time displays [Time Setting] of the utility.
9. Opens the [Language Setting] window.

Remarks

- The superimpose window is used to display the status of the servo motor.
- The screen script is used to display the superimpose window, to switch to the JOG operation mode, to set the motor speed and acceleration/deceleration time constant, and to perform the JOG operation in the forward/reverse rotations. For the details on the script, please refer to "5.6 Script List".
- During test operation, screen switching, station switching cannot be used.

5.3.27 Positioning Operation (B-30085)



Outline

This screen allows a positioning operation test to be conducted.

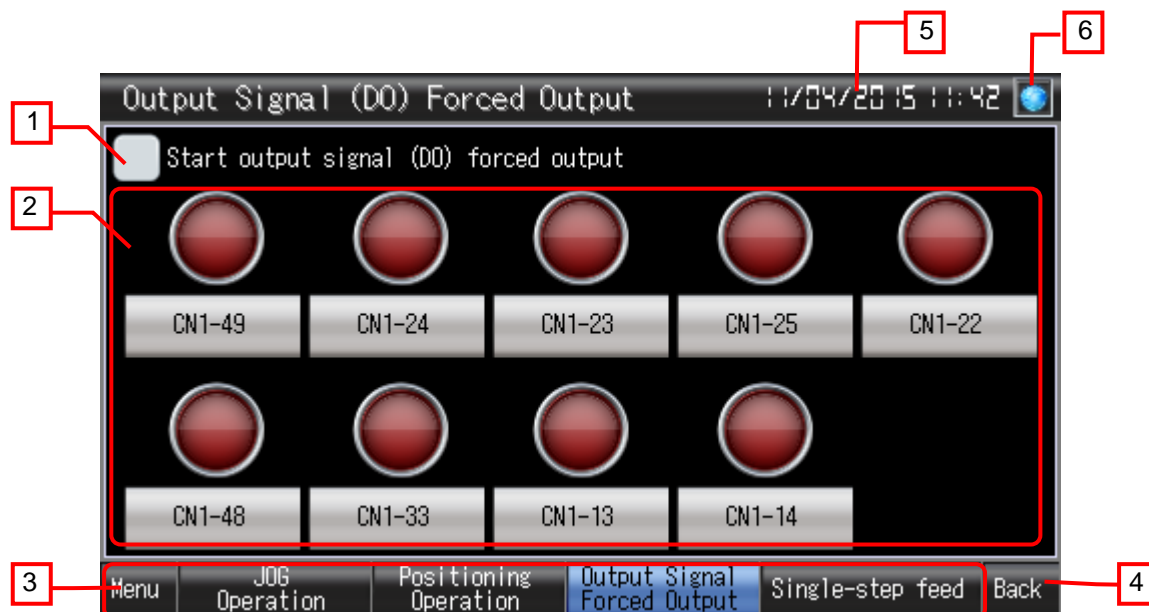
Description

- Displays the servo motor status.
- Switches to positioning operation mode. Touch again during positioning operation mode to end test operation mode.
- Sets the motor speed, Acceleration/Deceleration Time Constant, Travel Distance.
- Scrolls the screen to view all the displayed items.
- Operates positioning operation.
 - Fwd. Rot. : Performs the positioning operation in forward rotation.
 - Rev. Rot. : Performs the positioning operation in reverse rotation.
 - Stop : Temporarily stops the ongoing positioning operation.
 - Restart : Restarts the stopped positioning operation.
 - Clear : Clears the stopped positioning operation.
- Switches to each screen. The blue switch indicates the currently displayed screen, thus selecting this switch will not switch the screen.
- Switches to the previously opened screen.
- Displays the current date and time. Touching the date and time displays [Time Setting] of the utility.
- Opens the [Language Setting] window.

Remarks

- The superimpose window is used to display the status of the servo motor.
- The screen script is used to display the superimpose window, to switch to the positioning operation mode and to set the motor speed, acceleration/deceleration time constant, and travel distance. For the details on the script, refer to "5.6 Script List".
- During test operation, screen switching, station switching cannot be used.

5.3.28 Output Signal (DO) Forced Output (B-30089)



Outline

This screen allows forced output of output signals.

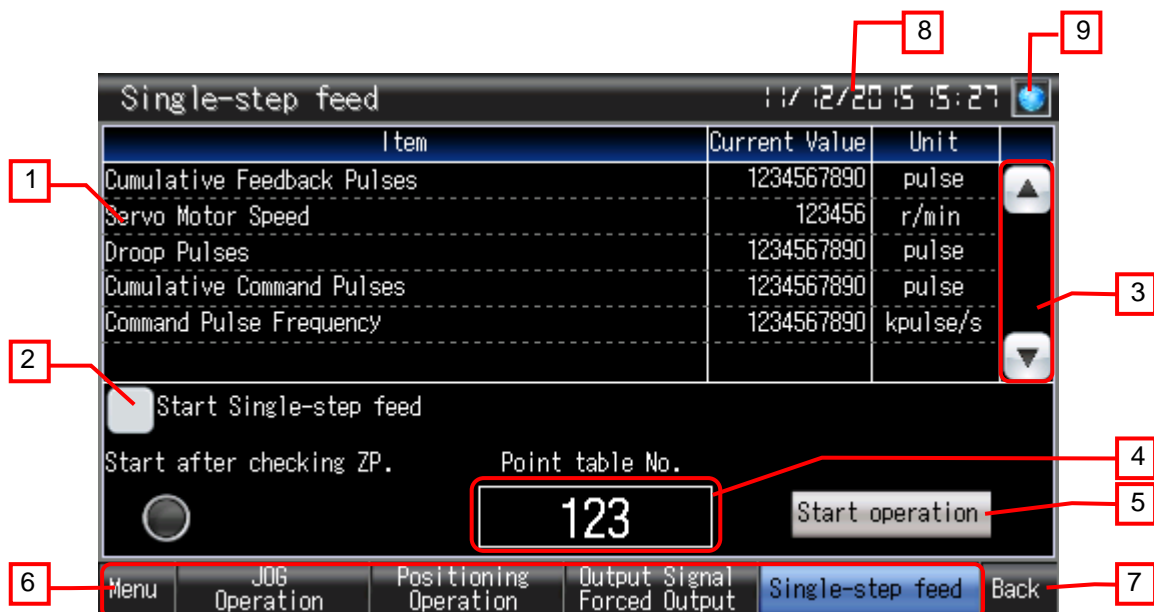
Description

1. Switch to output signal (DO) forced output mode. Touch again during output signal (DO) forced output mode to end test operation mode.
2. Touch each switch for output signal (DO) forced output. Lamps light according to the output signals.
3. Switches to each screen. The blue switch indicates the currently displayed screen, thus selecting this switch will not switch the screen.
4. Switches to the previously opened screen.
5. Displays the current date and time. Touching the date and time displays [Time Setting] of the utility.
6. Opens the [Language Setting] window.

Remarks

- The screen script is used to switch to the output signal (DO) forced output mode and to set the output signal. For the details on the script, please refer to "5.6 Script List".
- During test operation, screen switching, station switching cannot be used.

5.3.29 Single-step feed (B-30091)



Outline

Execute single-step feed

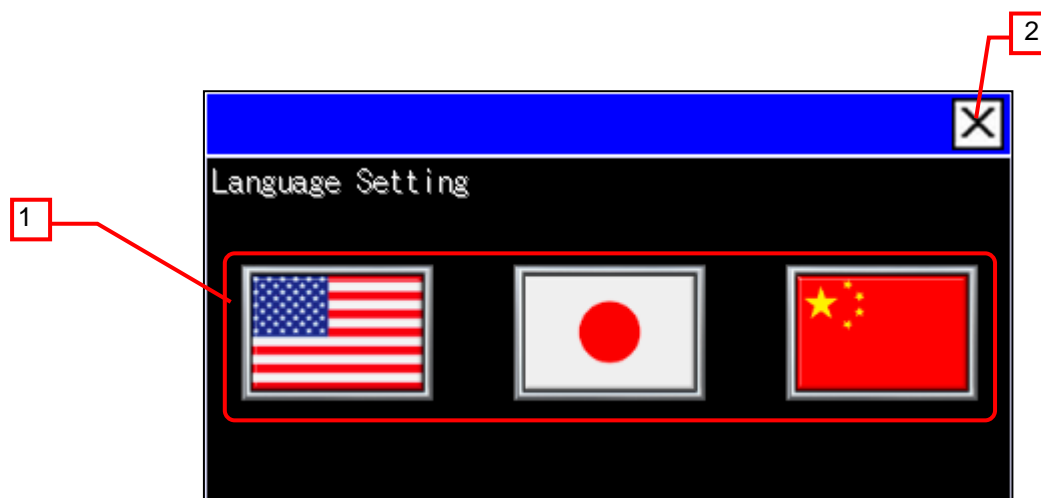
Description

1. Displays the status of servo motor.
2. Switches to single-step feed mode. Touch again during single-step feed mode to end test operation mode.
3. Scrolls the screen to view all the displayed items.
4. Set the point table No.
5. Perform single-step feed according to the point table No.
6. Switches to each screen. The blue switch indicates the currently displayed screen, thus selecting this switch will not switch the screen.
7. Switches to the previously opened screen.
8. Displays the current date and time. Touching the date and time displays [Time Setting] of the utility.
9. Opens the [Language Setting] window.

Remarks

- The superimpose window is used to display the status of the servo motor.
- The screen script is used to display the superimpose window, to switch to the single-step feed mode, to set the point table No., and to perform the operation. For the details on the script, please refer to "5.6 Script List".
- During test operation, screen switching, station switching cannot be used.

5.3.30 Language Setting (W-30002)



Outline

This window screen allows selecting the GOT language.

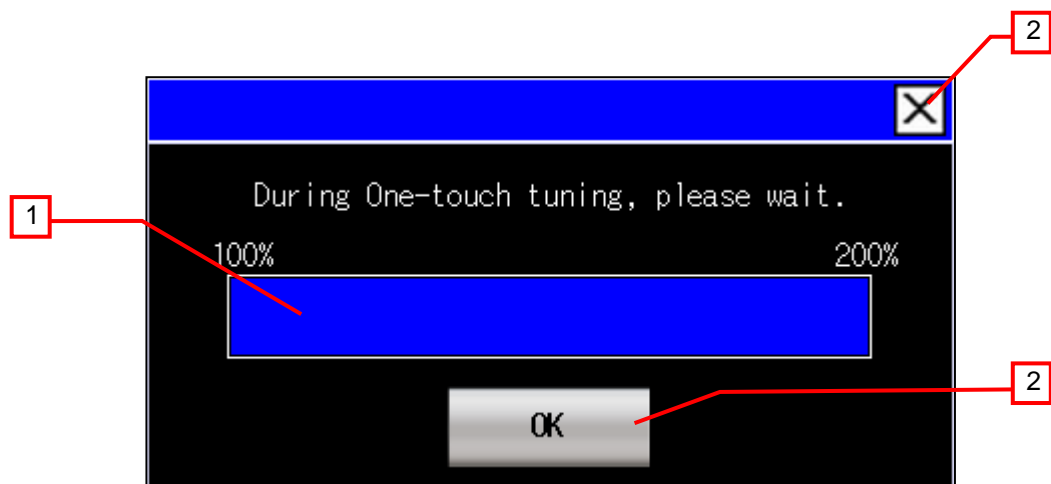
Description

1. Switches the language, and closes the window.
2. Closes the window.

Remarks

- The system language and Document ID for manual display also switched corresponding to the display language.

5.3.31 Disp progress of One-touch Tuning (W-30011)



Outline

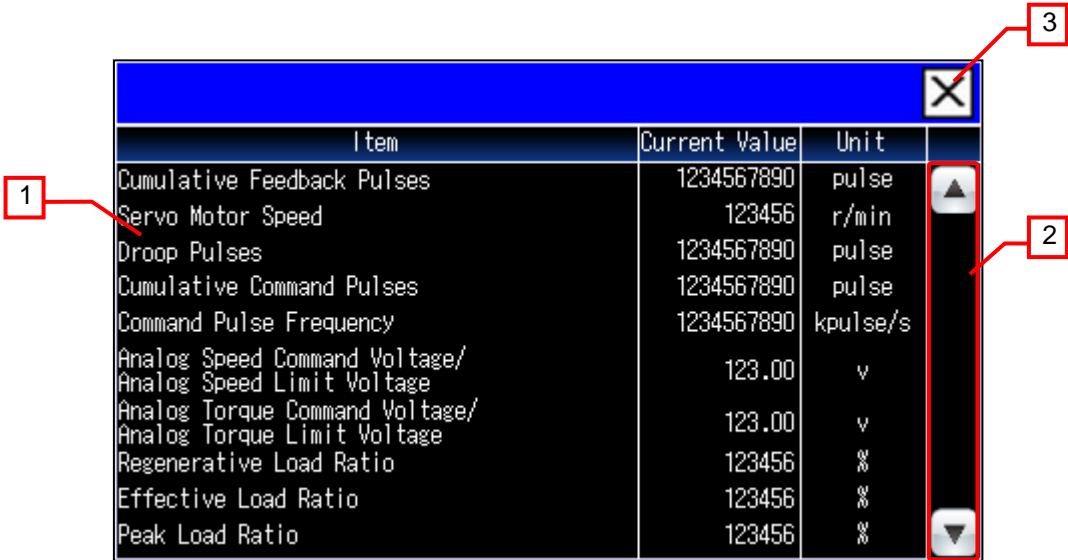
Display the progress of one-touch tuning.

Description

1. Display the progress of one-touch tuning.
2. Closes the window.

Remarks

5.3.32 Alarm occurrence status (W-30021 to 30022, 30501 to 30502)



Outline

This window displays the status at alarm occurrence.


Description

1. This window displays the status at alarm occurrence.
2. Switches displayed item.
3. Closes the window.

Remarks

5.3.33 Point table absolute command (W-30031 to 30036)

1



123	123456	123456	123456	123456	123456	123456	123456
123	123456	123456	123456	123456	123456	123456	123456
123	123456	123456	123456	123456	123456	123456	123456
123	123456	123456	123456	123456	123456	123456	123456
123	123456	123456	123456	123456	123456	123456	123456
123	123456	123456	123456	123456	123456	123456	123456
123	123456	123456	123456	123456	123456	123456	123456
123	123456	123456	123456	123456	123456	123456	123456
123	123456	123456	123456	123456	123456	123456	123456
123	123456	123456	123456	123456	123456	123456	123456

Outline

Display/set point table for absolute value command.

Description

- 1. Display/set point table for absolute value command.

Remarks

- This is the screen to use for point table (B-30031).

5.3.34 PointTable IncrementalValueCmd (W-30041 to 30046)

1

123	123456	123456	123456	123456	123456	123456	123456
123	123456	123456	123456	123456	123456	123456	123456
123	123456	123456	123456	123456	123456	123456	123456
123	123456	123456	123456	123456	123456	123456	123456
123	123456	123456	123456	123456	123456	123456	123456
123	123456	123456	123456	123456	123456	123456	123456
123	123456	123456	123456	123456	123456	123456	123456
123	123456	123456	123456	123456	123456	123456	123456
123	123456	123456	123456	123456	123456	123456	123456
123	123456	123456	123456	123456	123456	123456	123456

Outline

Display/set point table for incremental value command.

Description

- 1. Display/set point table for incremental value command.

Remarks

- This is the screen to use for point table (B-30031).

5.3.35 Status Display (W-30101 to 30107)

1

Cumulative Feedback Pulses	1234567890	pulse
Servo Motor Speed	123456	r/min
Droop Pulses	1234567890	pulse
Cumulative Command Pulses	1234567890	pulse
Command Pulse Frequency	1234567890	kpulse/s

Outline

Displays the servo amplifier status.

Description

1. Displays the servo amplifier status.

Remarks

- This is the screen to use for JOG operation (B-30083), positioning operation (B-30085), and single-step feed (B-30091).

5.4 Device List

Some of the devices specified to the on-screen switches and lamps, etc., are also used for common settings of functions such as scripts. Using [Batch Edit] is recommended to change these devices in a batch. For more details about using [Batch Edit], please refer to the "GT Designer3 (GOT2000) Help".

5.4.1 Devices of the controller

Type	Device No.	Application
Bit	0-100:SP1	Clear current alarm
	0-100:SP2	Clear alarm history
	0-100:OM0	Normal Mode (Test Operation Mode Clear)
	0-100:OM1	JOG Operation
	0-100:OM2	Positioning Operation
	0-100:OM4	Output Signal (DO) Forced Output
	0-100:OM5	Single-step feed
	0-100:TMB1	Stop Command
	0-100:TMB2	Start Command
	0-100:TMB3	Positioning Direction Selection (Fwd. Rot.)
	0-100:TMB4	Positioning Direction Selection (Rev. Rot.)
	0-100:TMB5	Restart
	0-100:TMB6	Clear
	0-100:OTI0	One-touch tuning (Basic mode)
	0-100:OTI1	One-touch tuning (High mode)
	0-100:OTI2	One-touch tuning (Low mode)
	0-100:OTI4	One-touch tuning (Reset to the initial value)
	0-100:OTI5	One-touch tuning (Reset before adjusting)
Word	0-100:PA1001	Operation Mode
	0-100:PA1002	Regenerative Option
	0-100:PA1003	Absolute Position Detection System
	0-100:PA1004	Function Selection A-1
	0-100:PA1005	Number of Command Input Pulses per Revolution
	0-100:PA1006	Electronic Gear Numerator / Number of Gear Teeth on Machine Side
	0-100:PA1007	Electronic Gear Denominator / Number of Gear Teeth on Servo Motor Side
	0-100:PA1008	Auto Tuning Mode
	0-100:PA1009	Auto Tuning Response
	0-100:PA1010	In-position Range
	0-100:PA1011	Forward Rotation Torque Limit / Positive Direction Thrust Limit
	0-100:PA1012	Reverse Rotation Torque Limit / Negative Direction Thrust Limit
	0-100:PA1013	Command Pulse Input Form
	0-100:PA1014	Rotation Direction Selection / Travel Direction Selection
	0-100:PA1015	Encoder Output Pulses
	0-100:PA1016	Encoder Output Pulses 2
	0-100:PA1017	Servo Motor Series Setting
	0-100:PA1018	Servo Motor Type Setting
	0-100:PA1019	Tough Drive Setting
	0-100:PA1020	Tough Drive Setting
	0-100:PA1021	Function Selection A- 3
	0-100:PA1023	Drive Recorder Arbitrary Alarm Trigger Setting
	0-100:PA1024	Function Selection A-4
	0-100:PA1025	One-touch Tuning: Overshoot Permissible Level
	0-100:PA1026	Function Selection A- 5
	0-100:PB1001	Adaptive Tuning Mode (Adaptive Filter II)
	0-100:PB1002	Vibration Suppression Control Tuning Mode
	0-100:PB1003	Position Command Accel./Decel. Time Constant
	0-100:PB1004	Feed Forward Gain
	0-100:PB1006	Load to Motor Inertia Ratio / Load to Motor Mass Ratio
	0-100:PB1007	Model Control Gain
	0-100:PB1008	Position Control Gain
	0-100:PB1009	Speed Control Gain
	0-100:PB1010	Speed Integral Compensation
	0-100:PB1011	Speed Differential Compensation

Type	Device No.	Application
Word	0-100:PB1012	Overshoot Amount Compensation
	0-100:PB1013	Machine Resonance Suppression Filter 1
	0-100:PB1014	Notch Shape Selection 1
	0-100:PB1015	Machine Resonance Suppression Filter 2
	0-100:PB1016	Notch Shape Selection 2
	0-100:PB1017	Shaft Resonance Suppression Filter
	0-100:PB1018	Low-pass Filter Setting
	0-100:PB1019	Vibration suppression control 1 - Vibration frequency
	0-100:PB1020	Vibration suppression control 1 - Resonance frequency
	0-100:PB1021	Vibration suppression control 1 - Vibration frequency damping
	0-100:PB1022	Vibration suppression control 1 - Resonance frequency damping
	0-100:PB1023	Low-pass filter selection
	0-100:PB1024	Slight vibration suppression control
	0-100:PB1025	Function Selection B-1
	0-100:PB1026	Gain switching function
	0-100:PB1027	Gain switching condition
	0-100:PB1028	Gain switching time constant
	0-100:PB1029	Load to motor inertia ratio/load to motor mass ratio after gain switching
	0-100:PB1030	Position loop gain after gain switching
	0-100:PB1031	Speed loop gain after gain switching
	0-100:PB1032	Speed integral compensation after gain switching
	0-100:PB1033	Vibration suppression control 1 - Vibration frequency after gain switching
	0-100:PB1034	Vibration suppression control 1 - Resonance frequency after gain switching
	0-100:PB1035	Vibration suppression control 1 - Vibration frequency damping after gain switching
	0-100:PB1036	Vibration suppression control 1 - Resonance frequency damping after gain switching
	0-100:PB1045	Command notch filter
	0-100:PB1046	Machine resonance suppression filter 3
	0-100:PB1047	Notch shape selection 3
	0-100:PB1048	Machine resonance suppression filter 4
	0-100:PB1049	Notch shape selection 4
	0-100:PB1050	Machine resonance suppression filter 5
	0-100:PB1051	Notch shape selection 5
	0-100:PB1052	Vibration suppression control 2 - Vibration frequency
	0-100:PB1053	Vibration suppression control 2 - Resonance frequency
	0-100:PB1054	Vibration suppression control 2 - Vibration frequency damping
	0-100:PB1055	Vibration suppression control 2 - Resonance frequency damping
	0-100:PB1056	Vibration suppression control 2 - Vibration frequency after gain switching
	0-100:PB1057	Vibration suppression control 2 - Resonance frequency after gain switching
	0-100:PB1058	Vibration suppression control 2 - Vibration frequency damping after gain switching
	0-100:PB1059	Vibration suppression control 2 - Resonance frequency damping after gain switching
	0-100:PB1060	Model loop gain after gain switching
	0-100:PC1001	JOG operation acceleration time constant / Acceleration time constant 1
	0-100:PC1002	JOG operation deceleration time constant / Deceleration time constant 1
	0-100:PC1003	S-pattern acceleration/deceleration time constant
	0-100:PC1004	Torque command time constant/thrust command time constant
	0-100:PC1005	Auto Operation Speed 1
	0-100:PC1006	Auto Operation Speed 2
	0-100:PC1007	Manual Operation Speed 1
	0-100:PC1008	Internal speed command 4/limit 4
	0-100:PC1009	Internal speed command 5/limit 5
	0-100:PC1010	Internal speed command 6/limit 6
	0-100:PC1011	Internal speed command 7/limit 7
	0-100:PC1012	Analog speed command - Maximum speed/Analog speed limit - Maximum speed

Type	Device No.	Application
Word	0-100:PC1013	Analog torque/thrust command maximum output
	0-100:PC1014	Analog Monitor 1 Output
	0-100:PC1015	Analog Monitor 2 Output
	0-100:PC1016	Electromagnetic brake sequence output
	0-100:PC1017	Zero speed
	0-100:PC1018	Alarm History Clear
	0-100:PC1019	Encoder output pulse selection
	0-100:PC1020	Station No. Setting
	0-100:PC1021	RS-422 Communication Function Selection
	0-100:PC1022	Function Selection C-1
	0-100:PC1023	Function Selection C-2
	0-100:PC1024	Function Selection C-3
	0-100:PC1026	Function Selection C-5
	0-100:PC1027	Function Selection C-6
	0-100:PC1030	Home position return acceleration time constant/ Acceleration time constant 2
	0-100:PC1031	Home position return deceleration time constant/ Deceleration time constant 2
	0-100:PC1032	Command input pulse multiplication numerator 2
	0-100:PC1033	Command input pulse multiplication numerator 3
	0-100:PC1034	Command input pulse multiplication numerator 4
	0-100:PC1035	Internal torque limit 2/Internal thrust limit 2
	0-100:PC1036	Status Display Selection
	0-100:PC1037	Analog Override Offset
	0-100:PC1038	Analog torque limit offset
	0-100:PC1039	Analog Monitor 1 Offset
	0-100:PC1040	Analog Monitor 2 Offset
	0-100:PC1043	Error excessive alarm detection level
	0-100:PC1044	Function Selection C-9
	0-100:PC1045	Function Selection C-A
	0-100:PC1051	Forced stop deceleration time constant
	0-100:PC1054	Vertical axis freefall prevention compensation amount
	0-100:PC1060	Function Selection C-D
	0-100:PD1001	Input signal automatic on selection 1
	0-100:PD1003	Input Device Selection 1L
	0-100:PD1004	Input Device Selection 1H
	0-100:PD1005	Input Device Selection 2L
	0-100:PD1006	Input Device Selection 2H
	0-100:PD1007	Input Device Selection 3L
	0-100:PD1008	Input Device Selection 3H
	0-100:PD1009	Input Device Selection 4L
	0-100:PD1010	Input Device Selection 4H
	0-100:PD1011	Input Device Selection 5L
	0-100:PD1012	Input Device Selection 5H
	0-100:PD1013	Input Device Selection 6L
	0-100:PD1014	Input Device Selection 6H
	0-100:PD1017	Input Device Selection 8L
	0-100:PD1018	Input Device Selection 8H
	0-100:PD1019	Input Device Selection 9L
	0-100:PD1020	Input Device Selection 9H
	0-100:PD1021	Input Device Selection 10L
	0-100:PD1022	Input Device Selection 10H
	0-100:PD1023	Output Device Selection 1
	0-100:PD1024	Output Device Selection 2
	0-100:PD1025	Output Device Selection 3
	0-100:PD1026	Output Device Selection 4
	0-100:PD1028	Output Device Selection 6
	0-100:PD1029	Input Filter Setting
	0-100:PD1030	Function Selection D-1
	0-100:PD1031	Function Selection D-2

Type	Device No.	Application
Word	0-100:PD1032	Function Selection D-3
	0-100:PD1033	Function Selection D-4
	0-100:PD1034	Function Selection D-5
	0-100:PD1041	Input signal automatic on selection 3
	0-100:PD1042	Input signal automatic on selection 4
	0-100:PD1043	Input Device Selection 11L
	0-100:PD1044	Input Device Selection 11H
	0-100:PD1045	Input Device Selection 12L
	0-100:PD1046	Input Device Selection 12H
	0-100:PD1047	Output Device Selection 7
	0-100:PE1001	Fully Closed Loop Function Selection 1
	0-100:PE1003	Fully Closed Loop Function Selection 2
	0-100:PE1004	Fully Closed Loop control Feedback pulse electronic gear 1 Numerator
	0-100:PE1005	Fully Closed Loop control Feedback pulse electronic gear 1 Denominator
	0-100:PE1006	Fully Closed Loop control Speed deviation error detection
	0-100:PE1007	Fully Closed Loop control Position deviation error detection level
	0-100:PE1008	Fully Closed Loop dual feedback filter
	0-100:PE1010	Fully Closed Loop Function Selection 3
	0-100:PE1034	Fully Closed Loop control Feedback pulse electronic gear 2 Numerator
	0-100:PE1035	Fully Closed Loop control Feedback pulse electronic gear 2 Denominator
	0-100:PE1041	Function Selection E-3
	0-100:PF1009	Function Selection F-5
	0-100:PF1015	Electronic dynamic brake operating time
	0-100:PF1021	Drive recorder switching time setting
	0-100:PF1023	Vibration tough drive - Oscillation detection level
	0-100:PF1024	Vibration tough drive function selection
	0-100:PF1025	SEMI-F47 function - Instantaneous power failure detection time
	0-100:PF1031	Machine diagnosis function - Friction judgement speed
	0-100:PF1034	RS-422 communication function selection 3
	0-100:PL1001	Linear servo motor/DD motor function selection 1
	0-100:PL1002	Linear encoder resolution - Numerator
	0-100:PL1003	Linear encoder resolution - Denominator
	0-100:PL1004	Linear servo motor/DD motor function selection 2
	0-100:PL1005	Position deviation error detection level
	0-100:PL1006	Speed deviation error detection level
	0-100:PL1007	Torque/thrust deviation error detection level
	0-100:PL1008	Linear servo motor/DD motor function selection 3
	0-100:PL1009	Magnetic pole detection voltage level
	0-100:PL1017	Magnetic pole detection - Minute position detection method - Function selection
	0-100:PL1018	Magnetic pole detection - Minute position detection method - Identification signal amplitude
	0-100:PO1012	Function Selection O-3
	0-100:PT1001	Command Mode Selection
	0-100:PT1002	Function Selection T-1
	0-100:PT1003	Feeding Function Selection
	0-100:PT1004	Home Position Return Type
	0-100:PT1005	Home Position Return Speed
	0-100:PT1006	Creep Speed
	0-100:PT1007	Home position shift distance
	0-100:PT1008	Home position return position data
	0-100:PT1009	Travel distance after proximity dog
	0-100:PT1010	Stopper type home position return stopper time
	0-100:PT1011	Stopper type home position return torque limit value
	0-100:PT1012	Rough match output range
	0-100:PT1013	JOG Operation
	0-100:PT1014	Backlash compensation
	0-100:PT1015, 0-100:PT1016	Software Limit+

Type	Device No.	Application
Word	0-100:PT1017, 0-100:PT1018	Software Limit
	0-100:PT1019, 0-100:PT1020	Position range output address +
	0-100:PT1021, 0-100:PT1022	Position range output address -
	0-100:PT1023	OUT1 output setting time
	0-100:PT1024	OUT2 output setting time
	0-100:PT1025	OUT3 output setting time
	0-100:PT1026	Function Selection T-2
	0-100:PT1027	Operation Mode Selection
	0-100:PT1028	Number of stations per rotation
	0-100:PT1029	Function Selection T-3
	0-100:PT1034	Point table/Program default
	0-100:PT1038	Function Selection T-7
	0-100:PT1039	Torque limit delay time
	0-100:PT1040	Station home position shift distance
	0-100:PT1041	Home position return inhibit selection
	0-100:PT1042	Digital override minimum multiplication
	0-100:PT1043	Digital override pitch width
	0-0, 0-1, 0-100: ST0	Cumulative feedback pulses/Servo motor-side cumulative feedback pulses (after gear)
	0-100:ST1	Servo motor speed/linear servo motor speed
	0-100:ST2	Droop Pulses
	0-100:ST3	Cumulative Command Pulses
	0-100:ST4	Command Pulse Frequency
	0-100:ST5	Analog Speed Command Voltage/Analog Speed Limit Voltage
	0-100:ST6	Analog Torque Command Voltage/Analog Torque Limit Voltage
	0-100:ST7	Regenerative Load Ratio
	0-100:ST8	Effective Load Ratio
	0-0, 0-1, 0-100: ST9	Peak Load Ratio
	0-100:ST10	Instantaneous Torque/Instantaneous generation thrust
	0-100:ST11	Within One-revolution Position/Servo motor encoder with one-revolution/Virtual position within one-revolution
	0-100:ST12	ABS Counter/Servo motor encoder ABS counter/Virtual ABS counter
	0-100:ST13	Load to Motor Inertia Ratio
	0-0, 0-1, 0-100: ST14	Bus Voltage
	0-100:ST15	Load-side encoder cumulative feedback pulses
	0-100:ST16	Load-side encoder droop pulses
	0-100:ST17	Machine edge encoder information 1/Z phase counter
	0-100:ST18	Machine edge encoder information 2
	0-100:ST22	Servo motor thermistor temperature
	0-100:ST23	Servo motor edge return pulse accumulation (after gear)
	0-100:ST24	Electric angle
	0-100:ST30	Servo motor edge/machine edge position deviation
	0-100:ST31	Servo motor edge/machine edge speed deviation
	0-100:ST32	Encoder Inside Temperature
	0-100:ST33	Settling Time
	0-100:ST34	Oscillation Detection Frequency
	0-100:ST35	Number of Tough Drive Operations
	0-100:ST40	Unit Power Consumption
	0-100:ST41	Unit Total Power Consumption
	0-100:ST42	Current position
	0-100:ST43	Command position
	0-100:ST44	Specified remaining distance
	0-100:ST45	Point table No./Program No./Station position No.
	0-100:ST46	Step No.
	0-100:ST47	Analog override voltage
	0-100:ST48	Override level
	0-100:ALMO	Current alarm No.

Type	Device No.	Application
Word	0-100:ALM11	Status at Alarm Occurrence (Cumulative Feedback Pulses)
	0-100:ALM12	Status at Alarm Occurrence (Servo Motor Speed)
	0-100:ALM13	Status at Alarm Occurrence (Droop Pulses)
	0-100:ALM14	Status at Alarm Occurrence (Cumulative Command Pulses)
	0-100:ALM15	Status at Alarm Occurrence (Command Pulse Frequency)
	0-100:ALM16	Status at Alarm Occurrence (Analog Speed Command Voltage/Analog Speed Limit Voltage)
	0-100:ALM17	Status at Alarm Occurrence (Analog Torque Command Voltage/Analog Torque Limit Voltage)
	0-100:ALM18	Status at Alarm Occurrence (Regenerative Load Ratio)
	0-100:ALM19	Status at Alarm Occurrence (Effective Load Ratio)
	0-100:ALM20	Status at Alarm Occurrence (Peak Load Ratio)
	0-100:ALM21	Status at Alarm Occurrence (Instantaneous Torque)
	0-100:ALM22	Status at Alarm Occurrence Position within one-revolution
	0-100:ALM23	Status at Alarm Occurrence ABS counter
	0-100:ALM24	Status at Alarm Occurrence Load to motor inertia ratio
	0-100:ALM25	Status at Alarm Occurrence Bus voltage
	0-100:ALM26	Status at Alarm Occurrence Load-side cumulative feedback pulses
	0-100:ALM27	Status at Alarm Occurrence Load-side droop pulses
	0-100:ALM28	Status at Alarm Occurrence Load-side encoder information 1
	0-100:ALM29	Status at Alarm Occurrence Load-side encoder information 2
	0-100:ALM33	Status at Alarm Occurrence Temperature of servo motor thermistor
	0-100:ALM34	Status at Alarm Occurrence Servo motor-side cumulative feedback pulses (before gear)
	0-100:ALM35	Status at Alarm Occurrence Electrical angle
	0-100:ALM41	Status at Alarm Occurrence Servo motor-side/load-side position deviation
	0-100:ALM42	Status at Alarm Occurrence Servo motor-side/load-side speed deviation
	0-100:ALM43	Status at Alarm Occurrence Encoder inside temperature
	0-100:ALM44	Status at Alarm Occurrence Settling time
	0-100:ALM45	Status at Alarm Occurrence Oscillation detection frequency
	0-100:ALM46	Status at Alarm Occurrence Number of tough drive operations
	0-100:ALM51	Status at Alarm Occurrence Unit power consumption
	0-100:ALM52	Status at Alarm Occurrence Unit total power consumption
	0-100:ALM53	Status at Alarm Occurrence Current position
	0-100:ALM54	Status at Alarm Occurrence Command position
	0-100:ALM55	Status at Alarm Occurrence Command remaining distance
	0-100:ALM56	Status at Alarm Occurrence Point table No./Program No./Station position No.
	0-100:ALM57	Status at Alarm Occurrence Step No.
	0-100:ALM58	Status at Alarm Occurrence Analog override voltage
	0-100:ALM59	Status at Alarm Occurrence Override level
	0-100:ALM200	Alarm No. Read from Alarm History (Latest Alarm)
	0-100:ALM201	Alarm No. Read from Alarm History (1st Previous Alarm)
	0-100:ALM202	Alarm No. Read from Alarm History (2nd Previous Alarm)
	0-100:ALM203	Alarm No. Read from Alarm History (3rd Previous Alarm)
	0-100:ALM204	Alarm No. Read from Alarm History (4th Previous Alarm)
	0-100:ALM205	Alarm No. Read from Alarm History (5th Previous Alarm)
	0-100:ALM206	Alarm No. Read from Alarm History (6th Previous Alarm)
	0-100:ALM207	Alarm No. Read from Alarm History (7th Previous Alarm)
	0-100:ALM208	Alarm No. Read from Alarm History (8th Previous Alarm)
	0-100:ALM220	Alarm Occurrence Time Read from Alarm History (Latest Alarm)
	0-100:ALM221	Alarm Occurrence Time Read from Alarm History (1st Previous Alarm)
	0-100:ALM222	Alarm Occurrence Time Read from Alarm History (2nd Previous Alarm)
	0-100:ALM223	Alarm Occurrence Time Read from Alarm History (3rd Previous Alarm)
	0-100:ALM224	Alarm Occurrence Time Read from Alarm History (4th Previous Alarm)
	0-100:ALM225	Alarm Occurrence Time Read from Alarm History (5th Previous Alarm)
	0-100:ALM226	Alarm Occurrence Time Read from Alarm History (6th Previous Alarm)
	0-100:ALM227	Alarm Occurrence Time Read from Alarm History (7th Previous Alarm)
	0-100:ALM228	Alarm Occurrence Time Read from Alarm History (8th Previous Alarm)

Type	Device No.	Application
Word	0-100:POS1001 to 0-100:POS1255	Point table positioning data No.1 to No.255
	0-100:SPD1001 to 0-100:SPD1255	Point table•speed data No.1 to No.255
	0-100:ACT1001 to 0-100:ACT1255	Point table•acceleration time constant No.1 to No.255
	0-100:DCT1001 to 0-100:DCT1255	Point table•deceleration time constant No.1 to No.255
	0-100:DWL1001 to 0-100:DWL1255	Point table•dwell No.1 to No.255
	0-100:AUX1001 to 0-100:AUX1255	Point table•sub functionNo.1 to No.255
	0-100:MCD1001 to 0-100:MCD1255	Point table•M code No.1 to No.255
	0-100:MD3	Machine diagnosis data Read static friction when Fwd. Rot.
	0-100:MD4	Machine diagnosis data Read dynamic friction when Fwd. Rot.
	0-100:MD5	Machine diagnosis data Read static friction when Rev. Rot.
	0-100:MD6	Machine diagnosis data Read dynamic friction when Rev. Rot. and rated speed
	0-100:MD7	Machine diagnosis data Read Vibration frequency when stop, servo lock
	0-100:MD8	Machine diagnosis data Read oscillation level when stop, servo lock
	0-100:MD9	Machine diagnosis data Read Vibration frequency during operation
	0-100:MD10	Machine diagnosis data Read oscillation level during operation
	0-100:MD11	Machine diagnosis data Read rated speed
	0-100:OTS1	One-touch tuning Read status check for one-touch tuning
	0-100:OTS1	One-touch tuning Read error code obtain
	0-100:OTS2	One-touch tuning Setting time
	0-100:OTS3	One-touch tuning Read overshoot amount
	0-100:DI0	Input device status 1
	0-100:DI1	Input device status 2
	0-100:DI2	Input device status 3
	0-100:DI3	External input pin status
	0-100:DO0	Output device status 1
	0-100:DO1	Output device status 2
	0-100:DO2	Output device status 3
	0-100:DO3	Output device status 4
	0-100:DO4	External output pin status
	0-100:ALD0	Servo amplifier life diagnosis cumulative energization time
	0-100:ALD1	Servo amplifier life diagnosis the number of on/off times of the inrush relay
	0-100:TMI0	Input signal for test operation 1
	0-100:TMI2	Input signal for test operation 3
	0-100:TMO0	Forced output of signal pin
	0-100:TMD0	Test operation mode data (motor speed)
	0-100:TMD1	Test operation mode data (acceleration/deceleration time constant)
	0-100:TMD3	Test operation mode data (travel distance)

5.4.2 GOT internal devices

Type	Device No.	Application
Bit	GB40	Script Trigger (Always ON)
	GB100	Response mode selection trigger
	GB110	Test operation start trigger (JOG operation)
	GB111	Data write completion bit (motor rotation speed)
	GB112	Data write completion bit (acceleration/deceleration constant)
	GB113	Forward rotation operation start trigger
	GB114	Reverse rotation operation start trigger
	GB115	Test operation start trigger (positioning operation)
	GB116	Data write completion bit (travel distance)
	GB117	Test operation start trigger (Output Signal (DO) Forced Output)
	GB118	Test operation start trigger(single step feed)
	GB119	Point table decision flag
	GB120	Check before operation start trigger
	GB121	Point table decision flag
	GB122	Operation start trigger
	GD310.b0 to GD310.b8	Dummy device for (DO) forced output
	GD340.b0 to GD340.b4	Gain adjustment input permission bit
Word	GD10	Station No. setting
	GD100	Base screen switching
	GD101	Overlap window 1 screen switching
	GD104	Overlap window 2 screen switching
	GD116	Super impose window 1 screen switching
	GD121	Language switching
	GD122	System language switching
	GD200 to GD224	For displaying input device
	GD225 to GD244	For displaying output device
	GD251 to GD253	Historical trend graph Graph information
	GD260 to GD263	Historical trend graph Cursor Position Time
	GD264 to GD267	Historical trend graph Beginning Position Time
	GD268 to GD271	Historical trend graph End Position Time
	GD275 to GD277	Historical trend graph Display Position Time Specification
	GD280	Motor type calculation value storage device
	GD300	Transfer motor speed
	GD302	Transfer acce/deceleration const
	GD304	Travel distance
	GD310	Device for forced output
	GD311	Forced output status comparison device
	GD320	Point table No.
	GD330	Response mode selection
	GD340	Gain Adjustment Mode Selection
	GD350	Obtain unit
	GD355	Point table data offset
	GS650 to GS652	Current time
	TMP100 to TMP144	For script operation: Obtain input/output device value
	TMP150	For script operation: Command mode
	TMP151	For script operation: Unit
	TMP152	For script operation: STM
	TMP155	For script operation: Operation Mode

5.5 Comment List

Comment Group No.	Comment No.	Where comments are used
499	No.1 to 250, 2184, 10000 to 10001	B-30026, B-30541
500	No.1	B-30001 to B-30612
	No.2	B-30011 to B-30612
	No.3	B-30001, B-30011, B-30021, B-30031, B-30041, B-30061, B-30081
	No.4 to 8	B-30001
	No.9 to 13	B-30011
	No.14 to 20	B-30021
	No.21 to 26	B-30041
	No.27 to 31	B-30061
	No.32 to 36	B-30081
	No.37, 38	B-30011, B-30021, B-30031, B-30041, B-30061, B-30081
	No.39	B-30011, B-30021, B-30031, B-30041, B-30061 to B-30071, B-30081, B-30601, B-30611, B-30612
	No.40	B-30011, B-30021, B-30031, B-30041 to 30057, B-30061, B-30081, B-30551, B-30552, B-30561 to B-30564, B-30571 to B-30573, B-30581 to B-30583
	No.41	B-30011, B-30021, B-30031, B-30041, B-30061, B-30081
	No.42 to 45	B-30012 to B-30016, B-30501, B-30502, B-30511
	No.46 to 50	B-30022 to B-30026, B-30521, B-30531, B-30541
	No.52 to 56	B-30042 to B-30057, B-30551, B-30552, B-30561 to B-30564, B-30571 to B-30573, B-30581, B-30582, B-30591
	No.57 to 60	B-30063 to 30071, B-30601, B-30611, B-30612
	No.61 to 64	B-30083 to 30091
	No.101	B-30001 to 30081
	No.151, 155 to 166	B-30012
	No.152 to 154	B-30012, B-30013, B-30501, B-30502
	No.167 to 205	B-30013
	No.206 to 215, 223	B-30501
	No.216 to 222	B-30502
	No.251 to 270	B-30014
	No.301 to 303	B-30015
	No.351 to 352	B-30016
	No.353	B-30511
	No.401 to 417	B-30023
	No.451 to 460	B-30024
	No.461 to 466	B-30531
	No.501 to 512	B-30025
	No.551 to 553	B-30026
	No.554 to 563	B-30026, B-50541
	No.601 to 609	B-30031
	No.651, 657 to 664	B-30042
	No.652 to 656	B-30042, B-50551, B-50552
	No.665 to 673	B-30042, B-50551
	No.674	B-30042, B-50551, B-30552
500	No.701 to 706, 715	B-30043
	No.707 to 713	B-30551
	No.714	B-30552
	No.751, 757 to 763, 774	B-30045
	No.752 to 756, 775	B-30045, B-50562 to B-50564

Comment Group No.	Comment No.	Where comments are used
	No.764 to 772, 801 to 806, 825	B-30046
	No.773, 807 to 812, 851 to 856, 874	B-30047
	No.813 to 820, 824	B-30561
	No.821 to 823, 857 to 860	B-30562
	No.861 to 867	B-30563
	No.868 to 873	B-30564
	No.901 to 913, 926	B-30049
	No.914 to 913, 924, 951 to 956, 975	B-30050
	No.923, 957 to 964, 974, 1001	B-30051
	No.965 to 971	B-30571
	No.972, 973, 1007 to 1013, 1016	B-30572
	No.1002 to 1006, 1020	B-30051, B-571 to B-573
	No.1014 to 1015, 1018	B-30573
	No.1051, 1057 to 1065	B-30053
	No.1052 to 1056, 1074	B-30053, B-581, B-582
	No.1066 to 1073, 1101 to 1107, 1124	B-30054
	No.1108~1116、1151~1156、1160	B-30055
	No.1117 to 1123, 1157, 1158	B-30581
	No.1159	B-30582
	No.1201, 1207 to 1213	B-30057
	No.1202 to 1206, 1218	B-30057, B-30591
	No.1214 to 1217	B-30591
	No.1251 to 1267	B-30063
	No.1301, 1307 to 1313, 1318 to 1322	B-30065
	No.1302 to 1306	B-30065, B-30601
	No.1314 to 1317, 1322	B-30601
	No.1351 to 1358	B-30067
	No.1401, 1407 to 1415, 1416 to 1422	B-30069
	No.1402 to 1406, 1425	B-30069, B-30611, B-30612
	No.1423, 1451 to 1456, 1475	B-30070
	No.1457 to 1463, 1501 to 1506, 1509	B-30071
	No.1464 to 1474, 1507	B-30611
	No.1508	B-30612
	No.1551 to 1559	B-30083
	No.1601 to 1613	B-30085
500	No.1651 to 1652	B-30089
	No.1701 to 1708	B-30091
	No.1751 to 1762	B-30022
	No.1763 to 1772	B-30521
	No.1826	W-30002
	No.1926 to 1928	W-30021, W-30501, W-30502
	No.1929 to 1936, 1958	W-30021, W-30101
	No.1937 to 1941	W-30021, W-30102
	No.1942 to 1953, 1960	W-30022, W-30103

Comment Group No.	Comment No.	Where comments are used
	No.1954 to 1957, 1976 to 1979	W-30022, W-30104
	No.1980	W-30104, W-30501
	No.1981 to 1986	W-30105, W-30501
	No.1987 to1988, 1997	W-30106, W-30501
	No.1989 to 1996	W-30106, W-30502
	No.2001	W-30011
	No.2011	B-30501
	No.2012	B-30502
	No.2013	B-30511
	No.2014	B-30521
	No.2015	B-30531
	No.2016	B-30541
	No.2017	B-30551
	No.2018	B-30552
	No.2019	B-30561
	No.2020	B-30562
	No.2021	B-30563
	No.2022	B-30564
	No.2023	B-30571
	No.2024	B-30572
	No.2025	B-30573
	No.2026	B-30581
	No.2027	B-30582
	No.2028	B-30591
	No.2029	B-30601
	No.2030	B-30611
	No.2031	B-30612

5.6 Script List

Item	Settings
Project script	Specified
Screen script	B-30014, B-30016, B-30022 to 30024, B-30031, B-30083 to 30091 B-30511, B-30521, B-30531

5.6.1 Project script

Script No.	30001	Script name	Script30001
Comment	Initial setting		
Data Type	Signed BIN16	Trigger type	Rise GB40
[w:GD10] = 0; //Station No. initial value			
[w:GD320] = 1; //Point table initial value for single-step feed			
[w:GD330] = 2; //One-touch tuning initial selection (basic mode)			
Script No.	30100	Script name	Script30100
Comment	Graph display processing		
Data Type	Signed BIN16	Trigger type	Ordinary
<pre>//Change the value required for the graph processing according to the operation mode [w:TMP155] = ([0-100:w:PA1001] >> 4) && 0x000F; switch([w:TMP155]){ case 0: //Normal control mode [w:GD280] = 36; break; case 1: //Full closed control mode [w:GD280] = 36; break; case 4: //Linear servo motor control mode [w:GD280] = 18; break; case 6: //DD motor control mode [w:GD280] = 3; break; }</pre>			

5.6.2 Screen Script

Base Screen 30014

Script No.	30101	Script name	Script30101
Comment	Obtain Present Time		
Data Type	Signed BIN16	Trigger type	Rise GB40
<pre>//Store Year, Month, Day, Hour, Minute, Second When Screen Is Displayed [w:GD275]=[w:GS650]; [w:GD276]=[w:GS651]; [w:GD277]=[w:GS652];</pre>			

Base Screen 30016, 30511

Script No.	30105	Script name	Script30105
Comment	In/output DeviceMonitorProcess		
Data Type	Unsigned BIN16	Trigger type	Ordinary
<pre>//Input device //EM2/EM1 [u32:TMP100] = [0-100:u32:DIO] & 0x00040000; //Calculate bit18 of DIO with logical conjunction and store it in TMP [w:GD200] = [u32:TMP100] >> 18; //Shift TMP right by 18 and store it in GD200</pre>			

```

//STAB
[u32:TMP101] = [0-100:u32:DI0] & 0x00100000; //Calculate bit20 of DI0 with logical conjunction and store it in
TMP
[w:GD201] = [u32:TMP101] >> 20; //Shift TMP right by 20 and store it in GD201

//TSTP
[u32:TMP102] = [0-100:u32:DI0] & 0x01000000; //Calculate bit24 of DI0 with logical conjunction and store it in
TMP
[w:GD202] = [u32:TMP102] >> 24; //Shift TMP right by 24 and store it in GD202

//CDP
[u32:TMP103] = [0-100:u32:DI0] & 0x08000000; //Calculate bit27 of DI0 with logical conjunction and store it in
TMP
[w:GD203] = [u32:TMP103] >> 27; //Shift TMP right by 27 and store it in GD203

//CLD
[u32:TMP104] = [0-100:u32:DI0] & 0x10000000; //Calculate bit28 of DI0 with logical conjunction and store it in
TMP
[w:GD204] = [u32:TMP104] >> 28; //Shift TMP right by 28 and store it in GD204

//MECR
[u32:TMP105] = [0-100:u32:DI0] & 0x20000000; //Calculate bit29 of DI0 with logical conjunction and store it in
TMP
[w:GD205] = [u32:TMP105] >> 29; //Shift TMP right by 29 and store it in GD205

//MSD
[u32:TMP106] = [0-100:u32:DI1] & 0x00010000; //Calculate bit16 of DI1 with logical conjunction and store it in
TMP
[w:GD206] = [u32:TMP106] >> 16; //Shift TMP right by 16 and store it in GD206

//PI1
[u32:TMP107] = [0-100:u32:DI1] & 0x00020000; //Calculate bit17 of DI1 with logical conjunction and store it in
TMP
[w:GD207] = [u32:TMP107] >> 17; //Shift TMP right by 17 and store it in GD207

//PI2
[u32:TMP108] = [0-100:u32:DI1] & 0x00040000; //Calculate bit18 of DI1 with logical conjunction and store it in
TMP
[w:GD208] = [u32:TMP108] >> 18; //Shift TMP right by 18 and store it in GD208

//PI3
[u32:TMP109] = [0-100:u32:DI1] & 0x00080000; //Calculate bit19 of DI1 with logical conjunction and store it in
TMP
[w:GD209] = [u32:TMP109] >> 19; //Shift TMP right by 19 and store it in GD209

//LPS
[u32:TMP110] = [0-100:u32:DI2] & 0x00010000; //Calculate bit16 of DI2 with logical conjunction and store it in
TMP
[w:GD210] = [u32:TMP110] >> 16; //Shift TMP right by 16 and store it in GD210

//RT
[u32:TMP111] = [0-100:u32:DI2] & 0x00020000; //Calculate bit17 of DI2 with logical conjunction and store it in
TMP
[w:GD211] = [u32:TMP111] >> 17; //Shift TMP right by 17 and store it in GD211

//RTCDP
[u32:TMP112] = [0-100:u32:DI2] & 0x00040000; //Calculate bit18 of DI2 with logical conjunction and store it in
TMP
[w:GD212] = [u32:TMP112] >> 18; //Shift TMP right by 18 and store it in GD212

//OV0
[u32:TMP113] = [0-100:u32:DI2] & 0x00100000; //Calculate bit20 of DI2 with logical conjunction and store it in
TMP
[w:GD213] = [u32:TMP113] >> 20; //Shift TMP right by 20 and store it in GD213

```

```

//OV1
[u32:TMP114] = [0-100:u32:DI2] & 0x00200000; //Calculate bit21 of DI2 with logical conjunction and store it in
TMP
[w:GD214] = [u32:TMP114] >> 21; //Shift TMP right by 21 and store it in GD214

//OV2
[u32:TMP115] = [0-100:u32:DI2] & 0x00400000; //Calculate bit22 of DI2 with logical conjunction and store it in
TMP
[w:GD215] = [u32:TMP115] >> 22; //Shift TMP right by 22 and store it in GD215

//OV3
[u32:TMP116] = [0-100:u32:DI2] & 0x00800000; //Calculate bit23 of DI2 with logical conjunction and store it in
TMP
[w:GD216] = [u32:TMP116] >> 23; //Shift TMP right by 23 and store it in GD216

//DI0
[u32:TMP117] = [0-100:u32:DI2] & 0x01000000; //Calculate bit24 of DI2 with logical conjunction and store it in
TMP
[w:GD217] = [u32:TMP117] >> 24; //Shift TMP right by 24 and store it in GD217

//DI1
[u32:TMP118] = [0-100:u32:DI2] & 0x02000000; //Calculate bit25 of DI2 with logical conjunction and store it in
TMP
[w:GD218] = [u32:TMP118] >> 25; //Shift TMP right by 25 and store it in GD218

//DI2
[u32:TMP119] = [0-100:u32:DI2] & 0x04000000; //Calculate bit26 of DI2 with logical conjunction and store it in
TMP
[w:GD219] = [u32:TMP119] >> 26; //Shift TMP right by 26 and store it in GD219

//DI3
[u32:TMP120] = [0-100:u32:DI2] & 0x08000000; //Calculate bit27 of DI2 with logical conjunction and store it in
TMP
[w:GD220] = [u32:TMP120] >> 27; //Shift TMP right by 27 and store it in GD220

//DI4
[u32:TMP121] = [0-100:u32:DI2] & 0x10000000; //Calculate bit28 of DI2 with logical conjunction and store it in
TMP
[w:GD221] = [u32:TMP121] >> 28; //Shift TMP right by 28 and store it in GD221

//DI5
[u32:TMP122] = [0-100:u32:DI2] & 0x20000000; //Calculate bit29 of DI2 with logical conjunction and store it in
TMP
[w:GD222] = [u32:TMP122] >> 29; //Shift TMP right by 29 and store it in GD222

//DI6
[u32:TMP123] = [0-100:u32:DI2] & 0x40000000; //Calculate bit30 of DI2 with logical conjunction and store it in
TMP
[w:GD223] = [u32:TMP123] >> 30; //Shift TMP right by 30 and store it in GD223

//DI7
[u32:TMP124] = [0-100:u32:DI2] & 0x40000000; //Calculate bit31 of DI2 with logical conjunction and store it in
TMP
[w:GD224] = [u32:TMP124] >> 31; //Shift TMP right by 31 and store it in GD224


//Output device

//CDPS
[u32:TMP125] = [0-100:u32:DO0] & 0x02000000; //Calculate bit25 of DO0 with logical conjunction and store it in
TMP
[w:GD225] = [u32:TMP125] >> 25; //Shift TMP right by 25 and store it in GD225

```



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//CLDS
[u32:TMP126] = [0-100:u32:DO0] & 0x04000000; //Calculate bit26 of DO0 with logical conjunction and store it in
TMP
[w:GD226] = [u32:TMP126] >> 26; //Shift TMP right by 26 and store it in GD226

//ABSV
[u32:TMP127] = [0-100:u32:DO0] & 0x08000000; //Calculate bit27 of DO0 with logical conjunction and store it in
TMP
[w:GD227] = [u32:TMP127] >> 27; //Shift TMP right by 27 and store it in GD227

//MTTR
[u32:TMP128] = [0-100:u32:DO0] & 0x80000000; //Calculate bit31 of DO0 with logical conjunction and store it in
TMP
[w:GD228] = [u32:TMP128] >> 31; //Shift TMP right by 31 and store it in GD228

//MSDH
[u32:TMP129] = [0-100:u32:DO1] & 0x00080000; //Calculate bit19 of DO1 with logical conjunction and store it in
TMP
[w:GD229] = [u32:TMP129] >> 19; //Shift TMP right by 19 and store it in GD229

//MSDL
[u32:TMP130] = [0-100:u32:DO1] & 0x00100000; //Calculate bit20 of DO1 with logical conjunction and store it in
TMP
[w:GD230] = [u32:TMP130] >> 20; //Shift TMP right by 20 and store it in GD230

//SOUT
[u32:TMP131] = [0-100:u32:DO1] & 0x00200000; //Calculate bit21 of DO1 with logical conjunction and store it in
TMP
[w:GD231] = [u32:TMP131] >> 21; //Shift TMP right by 21 and store it in GD231

//OUT1
[u32:TMP132] = [0-100:u32:DO1] & 0x00400000; //Calculate bit22 of DO1 with logical conjunction and store it in
TMP
[w:GD232] = [u32:TMP132] >> 22; //Shift TMP right by 22 and store it in GD232

//OUT2
[u32:TMP133] = [0-100:u32:DO1] & 0x00800000; //Calculate bit23 of DO1 with logical conjunction and store it in
TMP
[w:GD233] = [u32:TMP133] >> 23; //Shift TMP right by 23 and store it in GD233

//OUT3
[u32:TMP134] = [0-100:u32:DO1] & 0x01000000; //Calculate bit24 of DO1 with logical conjunction and store it in
TMP
[w:GD234] = [u32:TMP134] >> 24; //Shift TMP right by 24 and store it in GD234

//ALMWNG
[u32:TMP135] = [0-100:u32:DO2] & 0x00020000; //Calculate bit17 of DO2 with logical conjunction and store it in
TMP
[w:GD235] = [u32:TMP135] >> 17; //Shift TMP right by 17 and store it in GD235

//BW9F
[u32:TMP136] = [0-100:u32:DO2] & 0x00040000; //Calculate bit18 of DO2 with logical conjunction and store it in
TMP
[w:GD236] = [u32:TMP136] >> 18; //Shift TMP right by 18 and store it in GD236

//PT0/PS0
[u32:TMP137] = [0-100:u32:DO2] & 0x01000000; //Calculate bit24 of DO2 with logical conjunction and store it in
TMP
[w:GD237] = [u32:TMP137] >> 24; //Shift TMP right by 24 and store it in GD237

//PT1/PS1
[u32:TMP138] = [0-100:u32:DO2] & 0x02000000; //Calculate bit25 of DO2 with logical conjunction and store it in
TMP

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[w:GD238] = [u32:TMP138] >> 25; //Shift TMP right by 25 and store it in GD238

//PT2/PS2
[u32:TMP139] = [0-100:u32:DO2] & 0x04000000; //Calculate bit26 of DO2 with logical conjunction and store it in TMP
[w:GD239] = [u32:TMP139] >> 26; //Shift TMP right by 26 and store it in GD239

//PT3/PS3
[u32:TMP140] = [0-100:u32:DO2] & 0x08000000; //Calculate bit27 of DO2 with logical conjunction and store it in TMP
[w:GD240] = [u32:TMP140] >> 27; //Shift TMP right by 27 and store it in GD240

//PT4/PS4
[u32:TMP141] = [0-100:u32:DO2] & 0x10000000; //Calculate bit28 of DO2 with logical conjunction and store it in TMP
[w:GD241] = [u32:TMP141] >> 28; //Shift TMP right by 28 and store it in GD241

//PT5/PS5
[u32:TMP142] = [0-100:u32:DO2] & 0x20000000; //Calculate bit29 of DO2 with logical conjunction and store it in TMP
[w:GD242] = [u32:TMP142] >> 29; //Shift TMP right by 29 and store it in GD242

//PT6/PS6
[u32:TMP143] = [0-100:u32:DO2] & 0x40000000; //Calculate bit30 of DO2 with logical conjunction and store it in TMP
[w:GD243] = [u32:TMP143] >> 30; //Shift TMP right by 30 and store it in GD243

//PT7/PS7
[u32:TMP144] = [0-100:u32:DO2] & 0x80000000; //Calculate bit31 of DO2 with logical conjunction and store it in TMP
[w:GD244] = [u32:TMP144] >> 31; //Shift TMP right by 31 and store it in GD244

```

Base Screen 30022, 30521

Script No.	30110	Script name	Script30110
Comment	Gain adjustment selection mode.		
Data Type	unsigned BIN16	Trigger type	Ordinary
<pre> //Change the trigger in accordance with selected gain adjustment mode. switch([0-100:w:PA1008]){ case 0x0000: //2 gain adjustment mode 1 [w:GD340] = 1; break; case 0x0001: //Auto tuning mode 1 [w:GD340] = 2; break; case 0x0002: //Auto tuning mode 2 [w:GD340] = 4; break; case 0x0003: //Manual mode [w:GD340] = 8; break; case 0x0004: //2 gain adjustment mode 2 [w:GD340] = 16; break; } </pre>			

Base Screen 30023

Script No.	30115	Script name	Script30115
Comment	Response mode selection		
Data Type	unsigned BIN16	Trigger type	Rise GB100
<pre> rst([b:GB100]); //Start tuning in accordance with selected reply mode. switch([w:GD330]){ </pre>			

```

case 1:
    set([0-100:b:OT11]); //High mode
    break;
case 2:
    set([0-100:b:OT10]); //Basic mode
    break;
case 3:
    set([0-100:b:OT12]); //Low mode
    break;
}

```

Base Screen 30024, 30531

Script No.	30150	Script name	Script30150
Comment	Machine Diagnosis Setting		
Data Type	Signed BIN16	Trigger type	Ordinary
<pre> //Display the estimated value [w:TMP160] = [0-100:w:MD2]&0x000F; if ([w:TMP160] == 1) { //When 1 is stored set([b:GB130]); } //Display the estimated value else{ rst([b:GB130]); } [w:TMP161] = [0-100:w:MD2]&0x00F0; [w:TMP162] = [w:TMP161] >> 4; //Shift by 4 to right and store in TMP162 if ([w:TMP162] == 1) { //When 1 is stored set([b:GB131]); } //Display the estimated value else{ rst([b:GB131]); } [w:TMP163] = [0-100:w:MD2]&0x0F00; [w:TMP164] = [w:TMP163] >> 8; //Shift by 8 to right and store in TMP164 if ([w:TMP164] == 1) { //When 1 is stored set([b:GB132]); } //Display the estimated value else{ rst([b:GB132]); } </pre>			

Base Screen 30031

Script No.	30120	Script name	Script30120
Comment	Switch target position display.		
Data Type	Unsigned BIN16	Trigger type	Ordinary
<pre> [w:TMP150] = [0-100:w:PT1001] & 0x000F ; //Store the set value of command mode in TMP. [w:TMP151] = ([0-100:w:PT1001] >> 8) & 0x000F; //Store the set value of the unit in TMP. [w:TMP152] = [0-100:w:PT1003] & 0x000F; //Store the set value of STM in TMP. [w:GD350] = [w:TMP151]; //Store the unit in GD350. if([w:TMP150] == 0){ //During absolute value command order if([w:TMP151] == 0){ //Unit: [mm] switch([w:TMP152]){ //Decision case 0: //Decimal point in the third digit if([w:GD116] != 30034){ [w:GD116] = 30034; } break; case 1: //Decimal point in the second digit if([w:GD116] != 30033){ [w:GD116] = 30033; } break; </pre>			

```

        case 2: //Decimal point in the first digit
            if([w:GD116] != 30032){
                [w:GD116] = 30032;
            }
            break;
        case 3: //Decimal point in the zeroth digit
            if([w:GD116] != 30031){
                [w:GD116] = 30031;
            }
            break;
    }
}
if([w:TMP151] == 1){ //Unit: [inch]
    switch([w:TMP152]){ //Decision
        case 0: //Decimal point in the third digit
            if([w:GD116] != 30035){
                [w:GD116] = 30035;
            }
            break;
        case 1: //Decimal point in the second digit
            if([w:GD116] != 30034){
                [w:GD116] = 30034;
            }
            break;
        case 2: //Decimal point in the first digit
            if([w:GD116] != 30033){
                [w:GD116] = 30033;
            }
            break;
        case 3: //Decimal point in the zeroth digit
            if([w:GD116] != 30032){
                [w:GD116] = 30032;
            }
            break;
    }
}
}
if([w:TMP151] == 2){ //Unit: [degree]
    if([w:GD116] != 30036){
        [w:GD116] = 30036;
    }
}
}
if([w:TMP151] == 3){ //Unit: [pulse]
    if([w:GD116] != 30031){
        [w:GD116] = 30031;
    }
}
}
}

if([w:TMP150] == 1){ //During incremental value command mode

    if([w:TMP151] == 0){ //Unit: [mm]
        switch([w:TMP152]){ //Decision
            case 0: //Decimal point in the third digit
                if([w:GD116] != 30044){
                    [w:GD116] = 30044;
                }
                break;
            case 1: //Decimal point in the second digit
                if([w:GD116] != 30043){
                    [w:GD116] = 30043;
                }
                break;
            case 2: //Decimal point in the first digit
                if([w:GD116] != 30042){

```

```

        [w:GD116] = 30042;
    }
    break;
case 3: //Decimal point in the zeroth digit
    if([w:GD116] != 30041){
        [w:GD116] = 30041;
    }
    break;
}
}
if([w:TMP151] == 1){ //Unit: [inch]
    switch([w:TMP152]){ //Decision
        case 0: //Decimal point in the third digit
            if([w:GD116] != 30045){
                [w:GD116] = 30045;
            }
            break;
        case 1: //Decimal point in the second digit
            if([w:GD116] != 30044){
                [w:GD116] = 30044;
            }
            break;
        case 2: //Decimal point in the first digit
            if([w:GD116] != 30043){
                [w:GD116] = 30043;
            }
            break;
        case 3: //Decimal point in the zeroth digit
            if([w:GD116] != 30042){
                [w:GD116] = 30042;
            }
            break;
    }
}
}
if([w:TMP151] == 2){ //Unit: [degree]
    if([w:GD116] != 30046){
        [w:GD116] = 30046;
    }
}
}
if([w:TMP151] == 3){ //Unit: [pulse]
    if([w:GD116] != 30041){
        [w:GD116] = 30041;
    }
}
}
}

```

Script No.	30010	Script name	Script30010
Comment	Superimpose window control		
Data Type	Signed BIN16	Trigger type	Rise GB40
//Display the status display screen [w:GD116] = 30101;			

Base Screen 30083

Script No.	30125	Script name	Script30125
Comment	Start/end JOG operation		
Data Type	Signed BIN16	Trigger type	Rise/Fall GB110
<pre>//Start operation if([b:GB110] == ON){ set([0-100:b:OM1]); //Switch to JOG operation mode set([b:GB111]); //Turn ON the trigger to transfer motor speed set([b:GB112]); //Turn ON the trigger to transfer acceleration/deceleration constant }else{ set([0-100:b:OM0]); //End test operation mode }</pre>			
Script No.	30126	Script name	Script30126
Comment	Transfer motor speed		
Data Type	Unsigned BIN32	Trigger type	Rise GB111
<pre>[0-100:u32:TMD0] = [w:GD300]; //Substitute GD300 Value in TMD0 Device rst([b:GB111]); //Switch Trigger OFF</pre>			
Script No.	30127	Script name	Script30127
Comment	Transfer acce/deceleration const		
Data Type	Unsigned BIN32	Trigger type	Rise GB112
<pre>[0-100:u32:TMD1] = [w:GD302]; //Substitute GD302 Value in TMD1 Device rst([b:GB112]); //Switch Trigger OFF</pre>			
Script No.	30128	Script name	Script30128
Comment	Forward rotation operation		
Data Type	Signed BIN16	Trigger type	Rise/Fall GB113
<pre>if([b:GB113] == ON){ //When Trigger Signal Rises [0-100:u32:TMI0] = 0x00000801; //Input 2049(0x0801) to TMI0 Device }else{ //When Trigger Signal Falls [0-100:u32:TMI0] = 0x00000001; //Input 1(0x0001) to TMI0 Device }</pre>			
Script No.	30129	Script name	Script30129
Comment	Reverse rotation operation		
Data Type	[Signed BIN16]	Trigger type	Rise/Fall GB114
<pre>if([b:GB114] == ON){ //When Trigger Signal Rises [0-100:u32:TMI0] = 4097; //Input 4097(0x1001) to TMI0 Device }else{ //When Trigger Signal Falls [0-100:u32:TMI0] = 1; //Input 1(0x0001) to TMI0 Device }</pre>			
Script No.	30010	Script name	Script30010
Comment	Clear super impose window.		
Data Type	Signed BIN16	Trigger type	When closing a screen
<pre>//The super impose window is NOT cleared while specified screens are displayed //The super impose window is cleared while screens other than specified screens are displayed [w:GD116] = 0;</pre>			

Base Screen 30085

Script No.	30130	Script name	Script30130
Comment	Start/endPositioningOperation		
Data Type	Signed BIN16	Trigger type	Rise/Fall GB115
<pre>//Start operation if([b:GB115] == ON){ set([0-100:b:OM2]); //Switch to positioning operation mode set([b:GB111]); //Turn ON the trigger to transfer motor speed set([b:GB112]); //Turn ON the trigger to transfer acceleration/deceleration constant set([b:GB116]); //Turn travel distance transfer trigger ON. }else{ set([0-100:b:OM0]); //End test operation mode }</pre>			
Script No.	30126	Script name	Script30126
Comment	Transfer motor speed		
Data Type	Unsigned BIN32	Trigger type	Rise GB111
<pre>[0-100:u32:TMD0] = [w:GD300]; //Substitute GD300 Value in TMD0 Device rst([b:GB111]); //Switch Trigger OFF</pre>			
Script No.	30127	Script name	Script30127
Comment	Transfer acce/deceleration const		
Data Type	Unsigned BIN32	Trigger type	Rise GB112
<pre>[0-100:u32:TMD1] = [w:GD302]; //Substitute GD302 Value in TMD1 Device rst([b:GB112]); //Switch Trigger OFF</pre>			
Script No.	30131	Script name	Script30131
Comment	Travel distance transfer		
Data Type	Unsigned BIN32	Trigger type	Rise GB116
<pre>[0-100:u32:TMD3] = [w:GD304]; //Substitute GD304 Value in TMD3 Device [b:GB116] = OFF; //Switch Trigger OFF</pre>			
Script No.	30010	Script name	Script30010
Comment	Clear super impose window.		
Data Type	Signed BIN16	Trigger type	When closing a screen
<pre>//The super impose window is NOT cleared while specified screens are displayed //The super impose window is cleared while screens other than specified screens are displayed [w:GD116] = 0;</pre>			

Base Screen 30089

Script No.	30135	Script name	Script30135
Comment	Start/end (DO) forced output		
Data Type	Signed BIN16	Trigger type	Rise/Fall GB117
<pre>//Start operation if([b:GB117] == ON){ [w:GD310] = 0; //Clear dummy device [w:GD311] = 0; //Clear dummy device set([0-100:b:OM4]); //Switch to output signal (DO) forced output mode. }else{ [w:GD310] = 0; //Clear dummy device [w:GD311] = 0; //Clear dummy device set([0-100:b:OM0]); //End test operation mode }</pre>			
Script No.	30136	Script name	Script30136
Comment	Transfer motor speed		
Data Type	Unsigned BIN16	Trigger type	ON GB117
<pre>if([w:GD311] != [w:GD310]){ //In case signal changes [0-100:u32:TMO0] = [w:GD310]; //Store the value in TMO0 [w:GD311] = [w:GD310]; //Store the value for comparison }</pre>			

Base Screen 30091

Script No.	30140	Script name	Script30140
Comment	Start/end Single-step feed		
Data Type	Signed BIN16	Trigger type	Rise/Fall GB118
<pre>//Start operation if([b:GB118] == ON){ set([0-100:b:OM5]); //Switch to Single-step feed mode set([b:GB119]); //Turn ON the point table decision trigger }else{ set([0-100:b:OM0]); //End test operation mode rst([b:GB119]); //Switch Trigger OFF rst([b:GB120]); //Switch Trigger OFF rst([b:GB121]); //Switch Trigger OFF rst([b:GB122]); //Switch Trigger OFF }</pre>			
Script No.	30141	Script name	Script30141
Comment	Point table decision		
Data Type	Unsigned BIN32	Trigger type	Rise GB119
<pre>rst([b:GB119]); [0-100:u32:TMI0] = 0x00000001; //Store 1 (0x0001) in TMI0 device. [0-100:u32:TMI2] = ([w:GD320] << 24) + 1; //Set the point table No. in the 24th bit and after in TMI2 device. set([b:GB121]); //Point table decision flag</pre>			
Script No.	30142	Script name	Script30142
Comment	Check before starting operation		
Data Type	Signed BIN16	Trigger type	Rise GB120
<pre>rst([b:GB120]); //If point table decision flag is ON. if([b:GB121]){ set([b:GB122]); //Switch Trigger ON }else{ [0-100:u32:TMI0] = 0x00000001; //Store 1 (0x0001) in TMI0 device. [0-100:u32:TMI2] = ([w:GD320] << 24) + 1; //Set the point table No. in the 24th bit and after in TMI2 device. set([b:GB122]); //Switch Trigger ON }</pre>			
Script No.	30143	Script name	Script30143
Comment	Start operation		
Data Type	Signed BIN16	Trigger type	Rise GB122
<pre>rst([b:GB121]); rst([b:GB122]); [0-100:u32:TMI0] = 0x00000801; //Input 2049(0x0801) to TMI0 Device</pre>			
Script No.	30010	Script name	Script30010
Comment	Clear super impose window.		
Data Type	Signed BIN16	Trigger type	When closing a screen
<pre>//The super impose window is NOT cleared while specified screens are displayed //The super impose window is cleared while screens other than specified screens are displayed [w:GD116] = 0;</pre>			

6. OTHER

6.1 How to Manually Select System Applications

To manually select system applications that are not automatically selected when the package data is written into the GOT, follow the steps below.

Example: When selecting Chinese (Simplified)

