

Mitsubishi Servo Amplifier  
MELSERVO-J3 Series  
MR-J3-A

Sample Screen Manual

## Using the Samples

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## REVISIONS

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### Sample Screen Manual

Date	Control No.*	Description
2013/9	BCN-P5999-0113	First edition
2015/6	BCN-P5999-0113-2	Device Specification for Document ID

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

### Project data

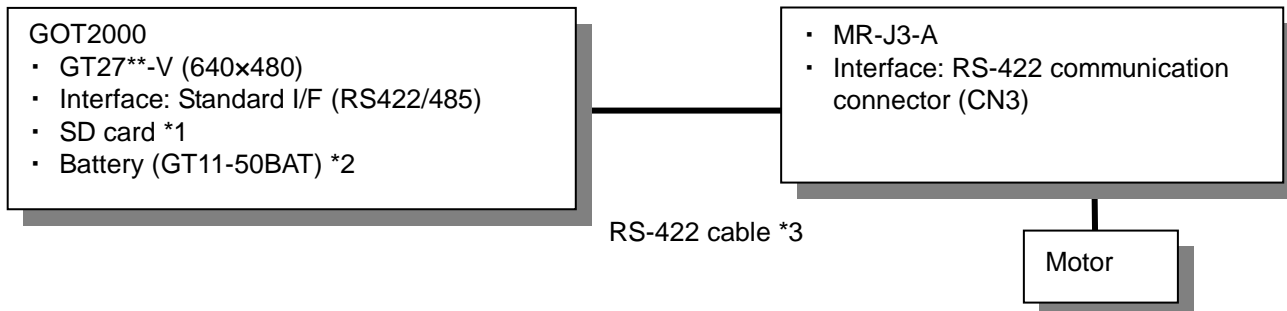
Date	Project data	GT Designer3*	Description
2013/10	MITSUBISHI_MR-J3-A_V_Ver1_E.GTX	1.100E	First edition
2015/6	MITSUBISHI_MR-J3-A_V_Ver2_E.GTX	1.128J	Device Specification for Document ID

\* 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-J3 Series (MR-J3-A) servo amplifier in serial (RS-422) connection. The sample screens can be used for changing parameters, monitoring, and conducting test operations.

## 2. SYSTEM CONFIGURATION



\*1: The SD card is used for the logging and document display functions.

\*2: The battery is used for the backup of the clock data and the 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 That Are Automatically Selected

Type	System application name		
Standard Function	Standard System Application		
	Standard Font		Japanese
Communication Driver	MELSERVO-J4, J3, J2S/M		
Extended Function	Standard Font		Chinese (Simplified)
	Outline Font	Gothic	Alphanumeric/Kana
			Japanese (Kanji)
			Chinese (Simplified)
	Document Display		

### 3.2 Controller Setting of Screen Design Software

Item	Set value	Remarks
Transmission Speed (BPS)	115200 bps	
Data Bit	8 bit	Fixed
Stop Bit	1 bit	Fixed
Parity	Even	Fixed
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 Setting of Screen Design Software

[Close the window when switching base screens] of [Detail Setting] for overlap window in the [Screen Switching/Window] setting is enabled to close the window when switching base screens.

## 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
Parameter writing inhibit	000C	Viewing and writing remains possible in basic setting, gain & filter, extension setting, and I/O setting.
Input signal automatic on selection 1	0C00	Sets LSP and LSN to automatic ON.
Function selection D-5	0001	Outputs alarm code.
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 group 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 Transition

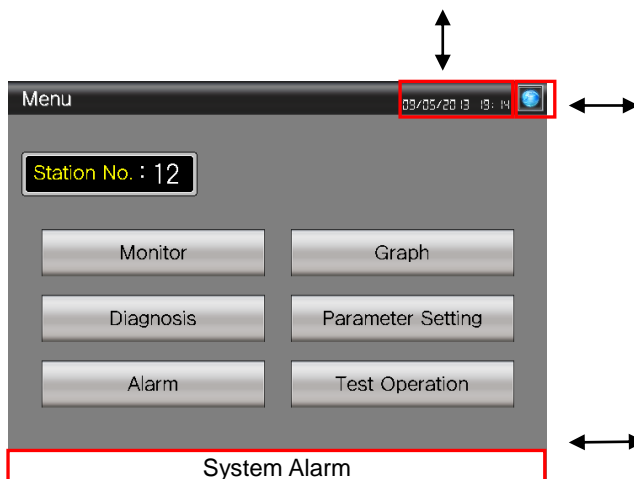
#### 5.2.1 Screen list/transition(common)



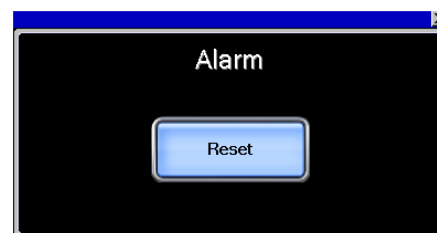
Window screen W-30003:  
Clock Setting



Window screen W-30002:  
Language Setting



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



Window screen W-30001: Alarm Reset

## 5.2.2 Screen list/transition(individual)



Base screen B-30030: Monitor





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page



Base screen B-30010:  
Parameter Setting Menu

The screen displays 'Basic Setting Parameters(ROM)' with a date/time indicator '25/05/20 0 0 0'. It shows a table of parameters with columns: No., Symbol, Name, Set value, and Unit. The parameters listed include: PA00 (PA00) Control Mode, PA01 (PA01) Regenerative Option, PA02 (PA02) Regenerative Position Detection System, PA03 (PA03) Function Selection Act, PA04 (PA04) Number of Command Input Pulses per Rev, PA05 (PA05) Filter, PA06 (PA06) Gain, PA07 (PA07) Electronic Gear Numerator (Command), PA08 (PA08) Input Pulse Magnification Numerator, PA09 (PA09) Electronic Gear Denominator (Command), PA10 (PA10) Input Pulse Magnification Denominator, PA11 (PA11) Auto Tuning Mode, PA12 (PA12) Auto Tuning Range, PA13 (PA13) Auto Tuning Step, PA14 (PA14) Forward Rotation Torque Limit, PA15 (PA15) Reverse Rotation Torque Limit, PA16 (PA16) Command Pulse Input Form, PA17 (PA17) Position Direction Selection, PA18 (PA18) Encoder Output Pulse, and PA19 (PA19) Parameter Writing Mode. The bottom navigation bar is the same as the previous screen.

Base screen  
B-30011: Basic Setting Parameters (ROM)  
B-30019: Basic Setting Parameters (RAM)

The screen displays 'Gain/Filter Parameters (ROM) 1/3' with a date/time indicator '25/05/20 0 0 0'. It shows a table of parameters with columns: No., Symbol, Name, Set value, and Unit. The parameters listed include: PG00 (PG00) Adaptive Tuning Mode (Adaptive Filter), PG01 (PG01) Vibration Suppression Control Tuning Mode, PG02 (PG02) Advanced Vibration Suppression Control, PG03 (PG03) Position Command Acceleration/Deceleration Time Constant, PG04 (PG04) Feed Forward Gain, PG05 (PG05) Ratio of Load Inertia Moment to Servo Motor, PG06 (PG06) Inertia Motor, PG07 (PG07) Motor Loop Gain, PG08 (PG08) Position Loop Gain, PG09 (PG09) Speed Loop Gain, PG10 (PG10) Speed Integral Compensation, PG11 (PG11) VSC, PG12 (PG12) Machine Resonance Suppression Filter 1, PG13 (PG13) Notch Shape Selection, PG14 (PG14) Machine Resonance Suppression Filter 2, PG15 (PG15) Notch Shape Selection 2, PG16 (PG16) LRS, and PG17 (PG17) LRS Settings. The bottom navigation bar is the same as the previous screen.

Base screen  
B-30012 to 14: Gain/Filter Parameters (ROM)  
B-30020 to 22: Gain/Filter Parameters (RAM)

The screen displays 'Extension Setting Parameters (ROM) 1/3' with a date/time indicator '25/05/20 0 0 0'. It shows a table of parameters with columns: No., Symbol, Name, Set value, and Unit. The parameters listed include: EC00 (EC00) Acceleration Time Constant, EC01 (EC01) Deceleration Time Constant, EC02 (EC02) Position Resonance Compensation Time Constant, EC03 (EC03) Torque Command Time Constant, EC04 (EC04) Internal Speed Command 1, EC05 (EC05) Internal Speed Command 2, EC06 (EC06) Internal Speed Command 3, EC07 (EC07) Internal Speed Command 4, EC08 (EC08) Internal Speed Command 5, EC09 (EC09) Internal Speed Command 6, EC10 (EC10) Internal Speed Command 7, EC11 (EC11) Internal Speed Command 8, EC12 (EC12) Internal Speed Command 9, EC13 (EC13) Internal Speed Command 10, EC14 (EC14) Internal Speed Command 11, EC15 (EC15) Internal Speed Command 12, EC16 (EC16) Internal Speed Command 13, EC17 (EC17) Internal Speed Command 14, EC18 (EC18) Internal Speed Command 15, EC19 (EC19) Internal Speed Command 16, EC20 (EC20) Internal Speed Command 17, EC21 (EC21) Internal Speed Command 18, EC22 (EC22) Internal Speed Command 19, EC23 (EC23) Internal Speed Command 20, EC24 (EC24) Internal Speed Command 21, EC25 (EC25) Internal Speed Command 22, EC26 (EC26) Internal Speed Command 23, EC27 (EC27) Internal Speed Command 24, EC28 (EC28) Internal Speed Command 25, EC29 (EC29) Internal Speed Command 26, EC30 (EC30) Internal Speed Command 27, EC31 (EC31) Internal Speed Command 28, EC32 (EC32) Internal Speed Command 29, EC33 (EC33) Internal Speed Command 30, EC34 (EC34) Internal Speed Command 31, EC35 (EC35) Internal Speed Command 32, EC36 (EC36) Internal Speed Command 33, EC37 (EC37) Internal Speed Command 34, EC38 (EC38) Internal Speed Command 35, EC39 (EC39) Internal Speed Command 36, EC40 (EC40) Internal Speed Command 37, EC41 (EC41) Internal Speed Command 38, EC42 (EC42) Internal Speed Command 39, EC43 (EC43) Internal Speed Command 40, EC44 (EC44) Internal Speed Command 41, EC45 (EC45) Internal Speed Command 42, EC46 (EC46) Internal Speed Command 43, EC47 (EC47) Internal Speed Command 44, EC48 (EC48) Internal Speed Command 45, EC49 (EC49) Internal Speed Command 46, EC50 (EC50) Internal Speed Command 47, EC51 (EC51) Internal Speed Command 48, EC52 (EC52) Internal Speed Command 49, EC53 (EC53) Internal Speed Command 50, EC54 (EC54) Internal Speed Command 51, EC55 (EC55) Internal Speed Command 52, EC56 (EC56) Internal Speed Command 53, EC57 (EC57) Internal Speed Command 54, EC58 (EC58) Internal Speed Command 55, EC59 (EC59) Internal Speed Command 56, EC60 (EC60) Internal Speed Command 57, EC61 (EC61) Internal Speed Command 58, EC62 (EC62) Internal Speed Command 59, EC63 (EC63) Internal Speed Command 60, EC64 (EC64) Internal Speed Command 61, EC65 (EC65) Internal Speed Command 62, EC66 (EC66) Internal Speed Command 63, EC67 (EC67) Internal Speed Command 64, EC68 (EC68) Internal Speed Command 65, EC69 (EC69) Internal Speed Command 66, EC70 (EC70) Internal Speed Command 67, EC71 (EC71) Internal Speed Command 68, EC72 (EC72) Internal Speed Command 69, EC73 (EC73) Internal Speed Command 70, EC74 (EC74) Internal Speed Command 71, EC75 (EC75) Internal Speed Command 72, EC76 (EC76) Internal Speed Command 73, EC77 (EC77) Internal Speed Command 74, EC78 (EC78) Internal Speed Command 75, EC79 (EC79) Internal Speed Command 76, EC80 (EC80) Internal Speed Command 77, EC81 (EC81) Internal Speed Command 78, EC82 (EC82) Internal Speed Command 79, EC83 (EC83) Internal Speed Command 80, EC84 (EC84) Internal Speed Command 81, EC85 (EC85) Internal Speed Command 82, EC86 (EC86) Internal Speed Command 83, EC87 (EC87) Internal Speed Command 84, EC88 (EC88) Internal Speed Command 85, EC89 (EC89) Internal Speed Command 86, EC90 (EC90) Internal Speed Command 87, EC91 (EC91) Internal Speed Command 88, EC92 (EC92) Internal Speed Command 89, EC93 (EC93) Internal Speed Command 90, EC94 (EC94) Internal Speed Command 91, EC95 (EC95) Internal Speed Command 92, EC96 (EC96) Internal Speed Command 93, EC97 (EC97) Internal Speed Command 94, EC98 (EC98) Internal Speed Command 95, EC99 (EC99) Internal Speed Command 96. The bottom navigation bar is the same as the previous screen.

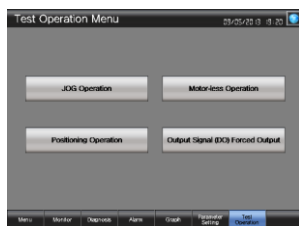
Base screen  
B-30015 to 17: Extension Setting Parameters (ROM)  
B-30023 to 25: Extension Setting Parameters (RAM)

The screen displays 'I/O Setting Parameters (ROM)' with a date/time indicator '25/05/20 0 0 0'. It shows a table of parameters with columns: No., Symbol, Name, Set value, and Unit. The parameters listed include: IO00 (IO00) Input Signal Automatic On Selection 1, IO01 (IO01) Input Signal Device Selection 1 (CN1-1-1), IO02 (IO02) Input Signal Device Selection 2 (CN1-1-2), IO03 (IO03) Input Signal Device Selection 3 (CN1-1-3), IO04 (IO04) Input Signal Device Selection 4 (CN1-1-4), IO05 (IO05) Input Signal Device Selection 5 (CN1-1-5), IO06 (IO06) Input Signal Device Selection 6 (CN1-1-6), IO07 (IO07) Input Signal Device Selection 7 (CN1-1-7), IO08 (IO08) Input Signal Device Selection 8 (CN1-1-8), IO09 (IO09) Input Signal Device Selection 9 (CN1-1-9), IO10 (IO10) Input Signal Device Selection 10 (CN1-1-10), IO11 (IO11) Input Signal Device Selection 11 (CN1-1-11), IO12 (IO12) Input Signal Device Selection 12 (CN1-1-12), IO13 (IO13) Input Signal Device Selection 13 (CN1-1-13), IO14 (IO14) Input Signal Device Selection 14 (CN1-1-14), IO15 (IO15) Input Signal Device Selection 15 (CN1-1-15), IO16 (IO16) Input Signal Device Selection 16 (CN1-1-16), IO17 (IO17) Input Signal Device Selection 17 (CN1-1-17), IO18 (IO18) Input Signal Device Selection 18 (CN1-1-18), IO19 (IO19) Input Signal Device Selection 19 (CN1-1-19), IO20 (IO20) Input Signal Device Selection 20 (CN1-1-20), IO21 (IO21) Input Signal Device Selection 21 (CN1-1-21), IO22 (IO22) Input Signal Device Selection 22 (CN1-1-22), IO23 (IO23) Input Signal Device Selection 23 (CN1-1-23), IO24 (IO24) Input Signal Device Selection 24 (CN1-1-24), IO25 (IO25) Input Signal Device Selection 25 (CN1-1-25), IO26 (IO26) Input Signal Device Selection 26 (CN1-1-26), IO27 (IO27) Input Signal Device Selection 27 (CN1-1-27), IO28 (IO28) Input Signal Device Selection 28 (CN1-1-28), IO29 (IO29) Input Signal Device Selection 29 (CN1-1-29), IO30 (IO30) Input Signal Device Selection 30 (CN1-1-30), IO31 (IO31) Input Signal Device Selection 31 (CN1-1-31), IO32 (IO32) Input Signal Device Selection 32 (CN1-1-32), IO33 (IO33) Input Signal Device Selection 33 (CN1-1-33), IO34 (IO34) Input Signal Device Selection 34 (CN1-1-34), IO35 (IO35) Input Signal Device Selection 35 (CN1-1-35), IO36 (IO36) Input Signal Device Selection 36 (CN1-1-36), IO37 (IO37) Input Signal Device Selection 37 (CN1-1-37), IO38 (IO38) Input Signal Device Selection 38 (CN1-1-38), IO39 (IO39) Input Signal Device Selection 39 (CN1-1-39), IO40 (IO40) Input Signal Device Selection 40 (CN1-1-40), IO41 (IO41) Input Signal Device Selection 41 (CN1-1-41), IO42 (IO42) Input Signal Device Selection 42 (CN1-1-42), IO43 (IO43) Input Signal Device Selection 43 (CN1-1-43), IO44 (IO44) Input Signal Device Selection 44 (CN1-1-44), IO45 (IO45) Input Signal Device Selection 45 (CN1-1-45), IO46 (IO46) Input Signal Device Selection 46 (CN1-1-46), IO47 (IO47) Input Signal Device Selection 47 (CN1-1-47), IO48 (IO48) Input Signal Device Selection 48 (CN1-1-48), IO49 (IO49) Input Signal Device Selection 49 (CN1-1-49), IO50 (IO50) Input Signal Device Selection 50 (CN1-1-50), IO51 (IO51) Input Signal Device Selection 51 (CN1-1-51), IO52 (IO52) Input Signal Device Selection 52 (CN1-1-52), IO53 (IO53) Input Signal Device Selection 53 (CN1-1-53), IO54 (IO54) Input Signal Device Selection 54 (CN1-1-54), IO55 (IO55) Input Signal Device Selection 55 (CN1-1-55), IO56 (IO56) Input Signal Device Selection 56 (CN1-1-56), IO57 (IO57) Input Signal Device Selection 57 (CN1-1-57), IO58 (IO58) Input Signal Device Selection 58 (CN1-1-58), IO59 (IO59) Input Signal Device Selection 59 (CN1-1-59), IO60 (IO60) Input Signal Device Selection 60 (CN1-1-60), IO61 (IO61) Input Signal Device Selection 61 (CN1-1-61), IO62 (IO62) Input Signal Device Selection 62 (CN1-1-62), IO63 (IO63) Input Signal Device Selection 63 (CN1-1-63), IO64 (IO64) Input Signal Device Selection 64 (CN1-1-64), IO65 (IO65) Input Signal Device Selection 65 (CN1-1-65), IO66 (IO66) Input Signal Device Selection 66 (CN1-1-66), IO67 (IO67) Input Signal Device Selection 67 (CN1-1-67), IO68 (IO68) Input Signal Device Selection 68 (CN1-1-68), IO69 (IO69) Input Signal Device Selection 69 (CN1-1-69), IO70 (IO70) Input Signal Device Selection 70 (CN1-1-70), IO71 (IO71) Input Signal Device Selection 71 (CN1-1-71), IO72 (IO72) Input Signal Device Selection 72 (CN1-1-72), IO73 (IO73) Input Signal Device Selection 73 (CN1-1-73), IO74 (IO74) Input Signal Device Selection 74 (CN1-1-74), IO75 (IO75) Input Signal Device Selection 75 (CN1-1-75), IO76 (IO76) Input Signal Device Selection 76 (CN1-1-76), IO77 (IO77) Input Signal Device Selection 77 (CN1-1-77), IO78 (IO78) Input Signal Device Selection 78 (CN1-1-78), IO79 (IO79) Input Signal Device Selection 79 (CN1-1-79), IO80 (IO80) Input Signal Device Selection 80 (CN1-1-80), IO81 (IO81) Input Signal Device Selection 81 (CN1-1-81), IO82 (IO82) Input Signal Device Selection 82 (CN1-1-82), IO83 (IO83) Input Signal Device Selection 83 (CN1-1-83), IO84 (IO84) Input Signal Device Selection 84 (CN1-1-84), IO85 (IO85) Input Signal Device Selection 85 (CN1-1-85), IO86 (IO86) Input Signal Device Selection 86 (CN1-1-86), IO87 (IO87) Input Signal Device Selection 87 (CN1-1-87), IO88 (IO88) Input Signal Device Selection 88 (CN1-1-88), IO89 (IO89) Input Signal Device Selection 89 (CN1-1-89), IO90 (IO90) Input Signal Device Selection 90 (CN1-1-90), IO91 (IO91) Input Signal Device Selection 91 (CN1-1-91), IO92 (IO92) Input Signal Device Selection 92 (CN1-1-92), IO93 (IO93) Input Signal Device Selection 93 (CN1-1-93), IO94 (IO94) Input Signal Device Selection 94 (CN1-1-94), IO95 (IO95) Input Signal Device Selection 95 (CN1-1-95), IO96 (IO96) Input Signal Device Selection 96 (CN1-1-96), IO97 (IO97) Input Signal Device Selection 97 (CN1-1-97), IO98 (IO98) Input Signal Device Selection 98 (CN1-1-98), IO99 (IO99) Input Signal Device Selection 99 (CN1-1-99). The bottom navigation bar is the same as the previous screen.

Base screen  
B-30018: I/O Setting Parameters (ROM)  
B-30026: I/O Setting Parameters (RAM)

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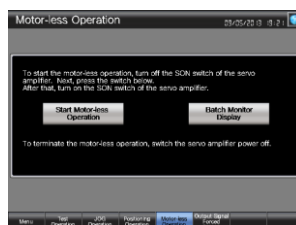
Base screen B-30070:  
Test Operation Menu



Base screen B-30071: JOG Operation



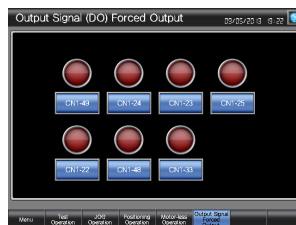
Base screen B-30072:  
Positioning Operation



Base screen B-30073:  
Motor-less Operation

Item	Current Value	Unit
Cumulative Feedback Pulses	123456.000	pulse
Servo Motor Speed	123456	r/min
Drive Pulses	123456.000	pulse
Cumulative Command Pulses	123456.000	pulse
Command Pulse Frequency	123456	Hz
Analog Speed Command Voltage	123.00	V
Analog Torque Command Voltage	123.00	V
Regenerative Load Ratio	123456	%
Effective Load Ratio	123456	%
Peak Load Ratio	123456	%
Instantaneous Torque	123456	%
Within One-revolution Position (1 pulse unit)	123456.000	pulse
ABS Counter	123456	rev
Load to Rotor Moment Ratio	1234.6	Multiplier
Bus Voltage	123456	V

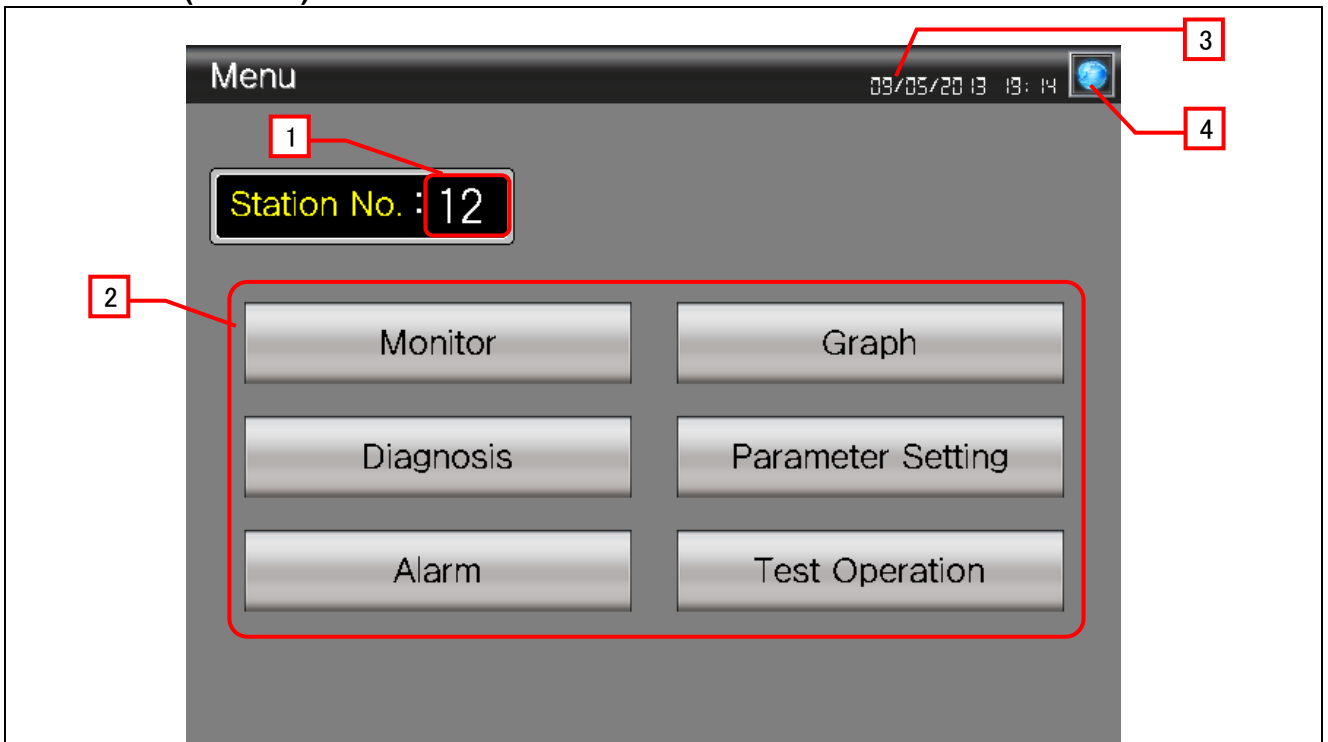
Window screen W-30018:  
Batch Monitor Display



Base screen B-30074:  
Output Signal (DO) Forced Output

## 5.3 Explanation of Screens

### 5.3.1 Menu (B-30001)



#### Outline

This is the Menu screen. This screen allows setting of the station No. of the servo amplifier to be operated and switching to other screens.

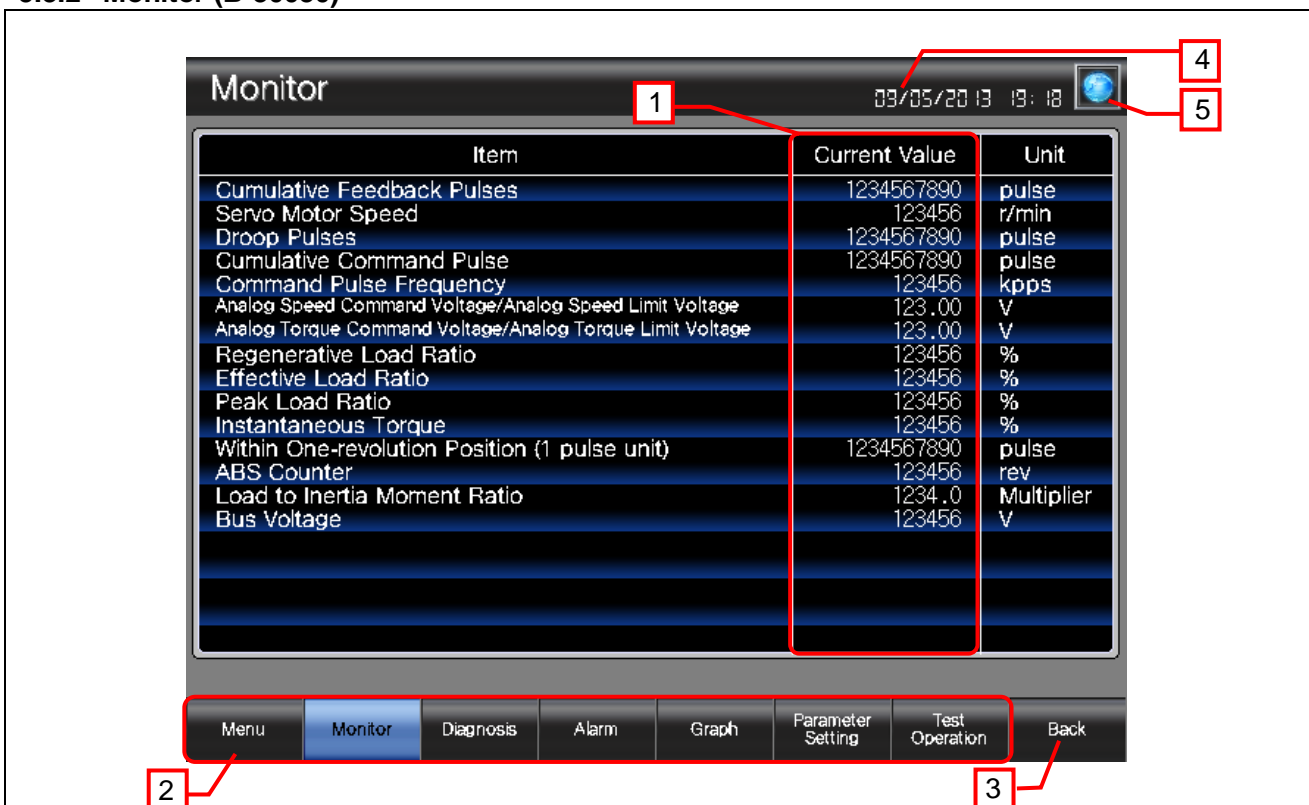
#### Description

1. Displays the station No. of the servo amplifier to be operated. Touch the value to change the station No.
2. Switches to each screen.
3. Displays the current date and time. Touch the area to open the [Clock Setting] window.
4. Opens the [Language Setting] window.

#### Remarks

- To monitor multiple servo amplifiers, make sure to include the servo amplifier with the station No. which is specified in the host address of the controller settings. In this sample, 0 is specified. For details on host address settings, please refer to the "GOT2000 Series Connection Manual (Mitsubishi Products)".
- If a system alarm occurs, the alarm message will appear at the bottom of the screen. When touching the left end of the message, the display position of the message changes in the order of upper, center, and lower. When touching the other part of the message, the [Alarm Reset] window appears.

### 5.3.2 Monitor (B-30030)



#### Outline

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

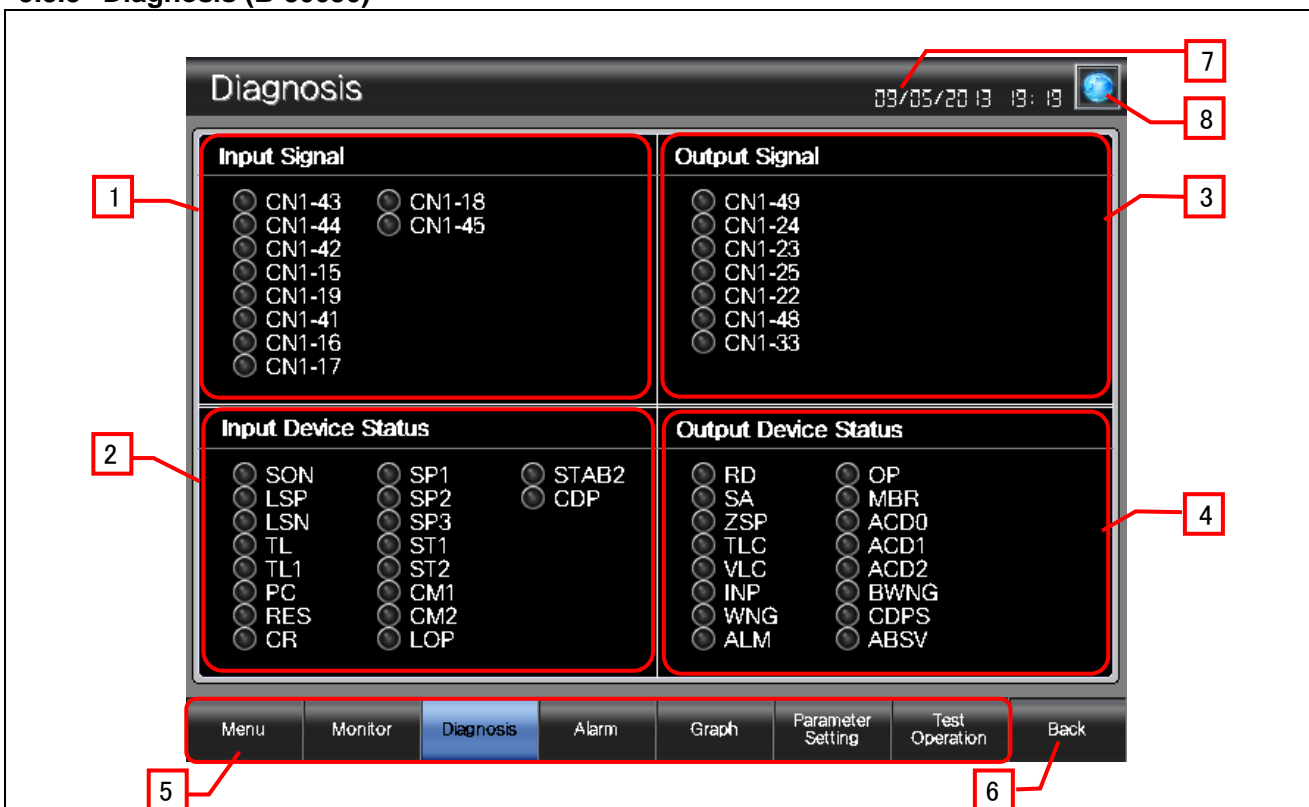
#### Description

1. Displays the current values of the items.
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. Touch the area to open the [Clock Setting] window.
5. Opens the [Language Setting] window.

#### Remarks

- If a system alarm occurs, the alarm message will appear at the bottom of the screen. When touching the left end of the message, the display position of the message changes in the order of upper, center, and lower. When touching the other part of the message, the [Alarm Reset] window appears.

### 5.3.3 Diagnosis (B-30050)



#### Outline

This screen displays the status of the input/output signals.

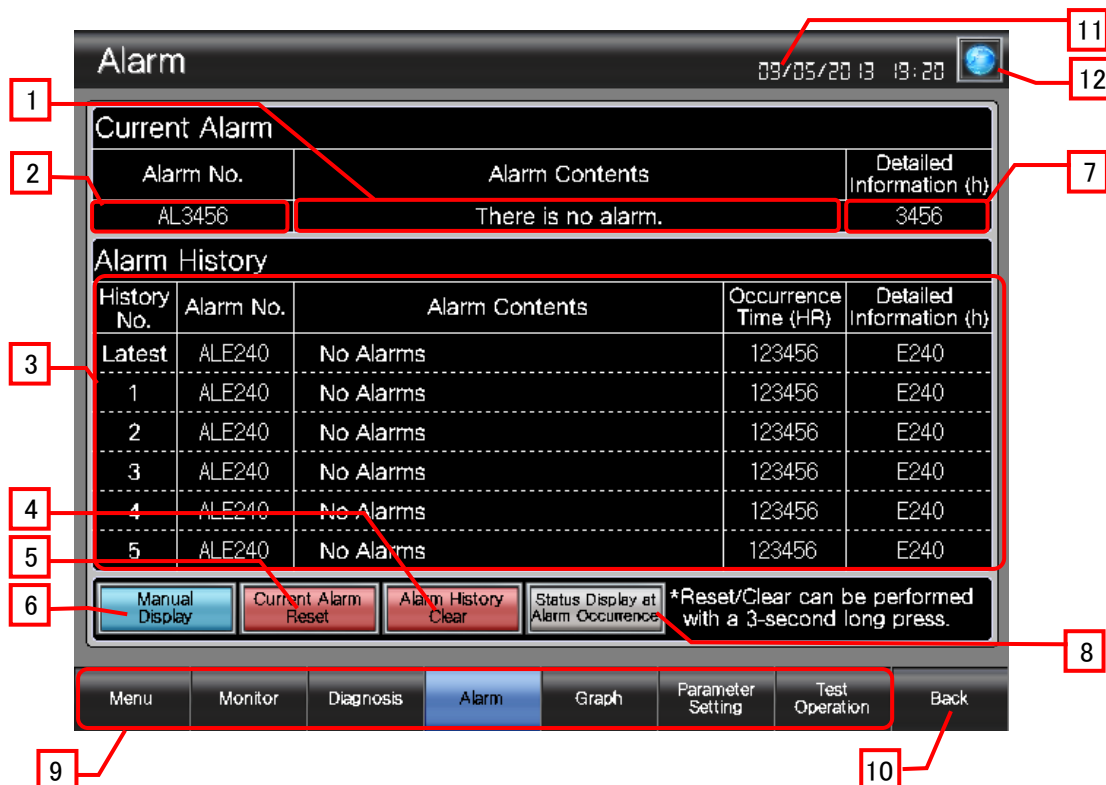
#### Description

1. Displays the input signal status.
2. Displays the input device status.
3. Displays the output signal status.
4. Displays the output device status.
5. Switches to each screen. The blue switch indicates the currently displayed screen, thus selecting this switch will not switch the screen.
6. Switches to the previously opened screen.
7. Displays the current date and time. Touch the area to open the [Clock Setting] window.
8. Opens the [Language Setting] window.

#### Remarks

- Object scripts are set for the STAB2, CDP, CDPS, and ABSV word lamps. For more details about scripts, please refer to "5.6 Script List".
- If a system alarm occurs, the alarm message will appear at the bottom of the screen. When touching the left end of the message, the display position of the message changes in the order of upper, center, and lower. When touching the other part of the message, the [Alarm Reset] window appears.

### 5.3.4 Alarm (B-30060)



#### Outline

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

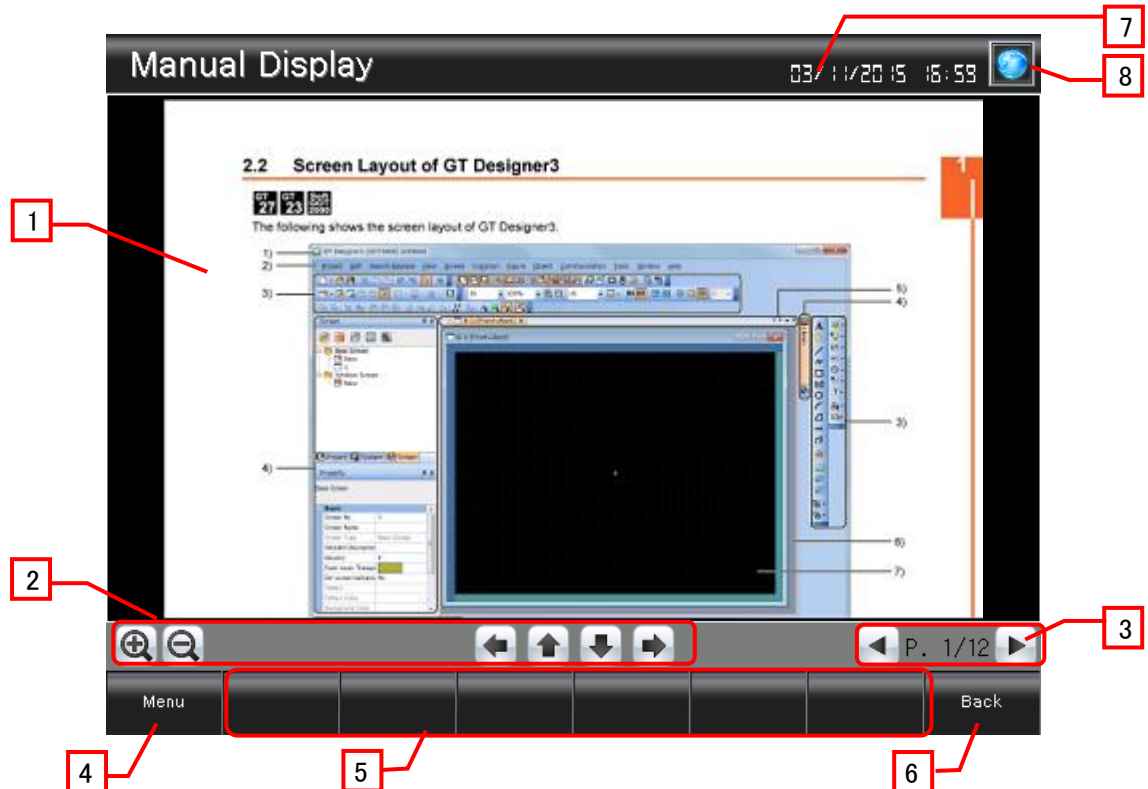
#### Description

- Displays the message of the current alarm.
- Displays the number of current alarm.
- Displays the previous alarms.  
Displays the latest alarm (that occurred last) and the next five most recent alarms (i.e., six previous alarms in total).
- Clears the alarm history with a 3-second long press.
- Resets the current alarm with a 3-second long press.
- Switches to the [Manual Display] screen.
- Displays detailed data of the current alarm.
- Displays the status data at alarm occurrence in the window.
- 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. Touch the area to open the [Clock Setting] window.
- Opens the [Language Setting] window.

#### Remarks

- If a system alarm occurs, the alarm message will appear at the bottom of the screen. When touching the left end of the message, the display position of the message changes in the order of upper, center, and lower. When touching the other part of the message, the [Alarm Reset] window appears.






### 5.3.5 Manual Display(B-30500)



#### Outline

This screen displays the manual of the currently displayed language.

#### Description

1. Manual Display displays a document with document ID (201 to 203) according to the language. The page 1 is displayed when the screen is displayed initially. While touching the document, flicking to 8 directions will scroll the document to 8 directions. While displaying the edge of the document, flicking the document will switch pages. Pinching out and in will zoom in and out the document in 3 steps (large, middle, and small)..
2. Operates the displayed document.  
 : Enlarges or reduces the displayed document.  
 : Scrolls the displayed document to the left or right.  
 : Scrolls the displayed document up and down.
3. Operates the displayed document page.  
 : Displays the page number of the displayed document. Touch the value to change the page number.  
 : Switches to the previous or next page of the displayed document.
4. Switches to the menu screen.
5. Shows unused switches for base screen switching.
6. Switches to the previously opened screen.
7. Displays the current date and time. Touch the area to open the [Clock Setting] window.
8. Opens the [Language Setting] window.

## Remarks

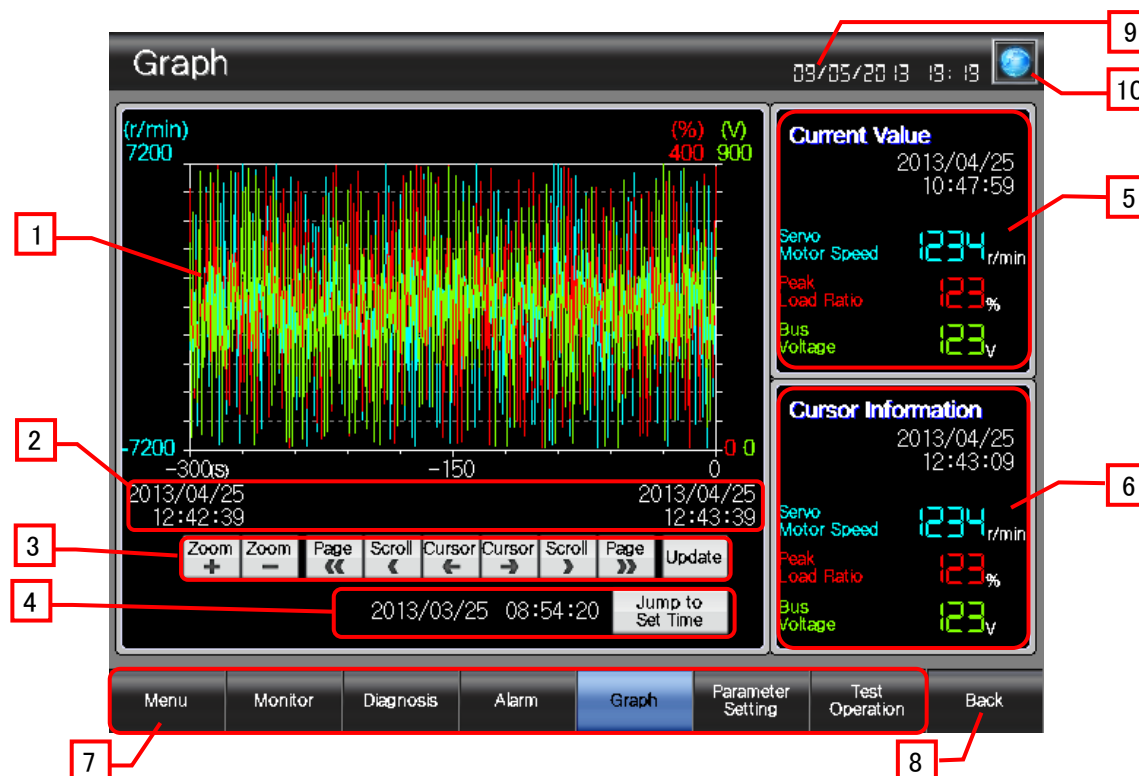
- The language setting reflect documents for Manual display. The relation of the column No. of the comment group No., languages and document (Document ID) is shown below.

Column No. of the comment group No	Language	Document ID
1	English	201
2	Japanese	202
3	Chinese (Simplified)	203

- When GOT is started, the document page is set to No. "1" and the Document ID is set to "201" with the project script. For more details about scripts, please refer to "5.6 Script List".
- The page feed switches are set not to exceed the total number of document pages by object script. For more details about scripts, please refer to "5.6 Script List".
- The document data for the manual display should be prepared by the customers. For more details, please refer to "6. MANUAL DISPLAY".
- If a system alarm occurs, the alarm message will appear at the bottom of the screen. When touching the left end of the message, the display position of the message changes in the order of upper, center, and lower. When touching the other part of the message, the [Alarm Reset] window appears.



### 5.3.6 Graph (B-30040)



#### Outline

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

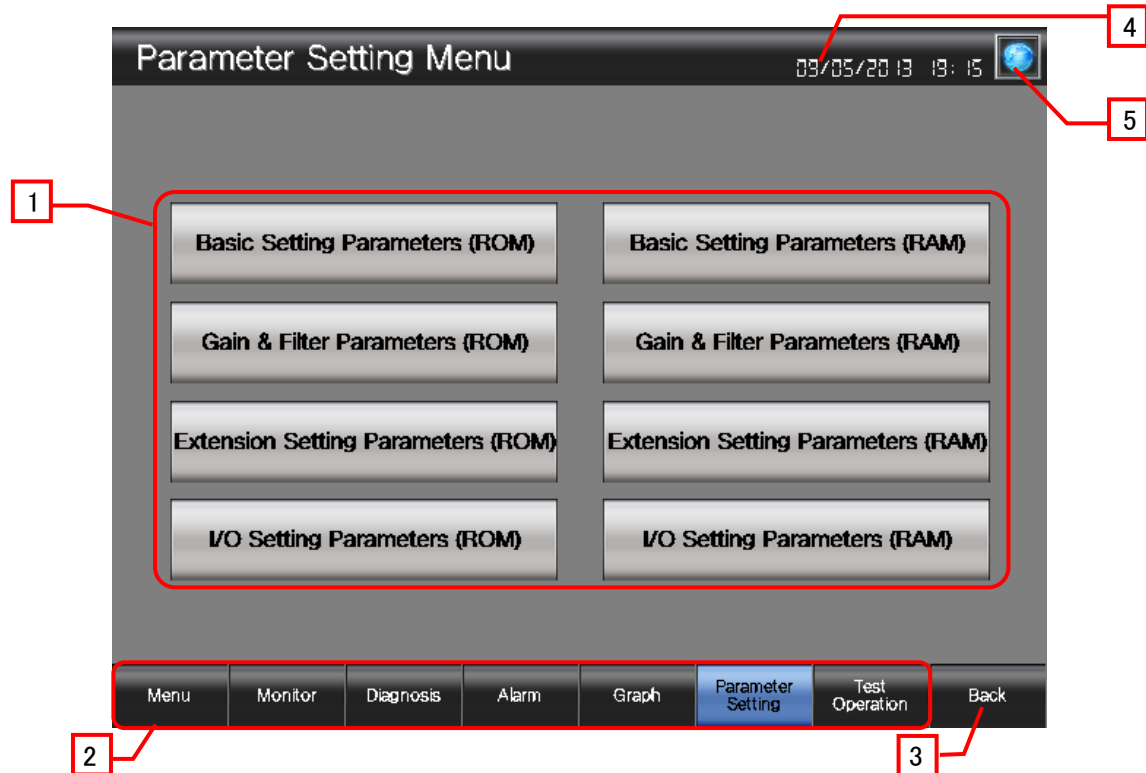
#### Description

- Displays the servo motor speed, peak load ratio, and bus voltage in the historical trend graph. In the graph, the servo motor speed is shown in light blue, the peak load ratio in red, and the bus voltage in green. Touch the graph to show the cursor. While touching the graph area, flicking the area will scroll the graph left and right. Pinching out and in will zoom in and out the graph based on the time axis.
- Displays the historical trend graph's beginning position time and end position time.
- Operates the historical trend graph.
  - Zoom In: Enlarges ( $\times 2$ ) the graph's time axis based on the new data axis.
  - Zoom Out: Reduces ( $\times 1/2$ ) 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. Touch the area to open the [Clock Setting] window.
- Opens the [Language Setting] window.

#### Remarks

- A screen script is set for the Jump to Set Time of the historical trend graph. For more details about scripts, please refer to "5.6 Script List".
- If a system alarm occurs, the alarm message will appear at the bottom of the screen. When touching the left end of the message, the display position of the message changes in the order of upper, center, and lower. When touching the other part of the message, the [Alarm Reset] window appears.

### 5.3.7 Parameter Setting Menu (B-30010)



#### Outline

This is the parameter setting menu screen.

#### Description

1. Switches to each screen.
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. Touch the area to open the [Clock Setting] window.
5. Opens the [Language Setting] window.

#### Remarks

- If a system alarm occurs, the alarm message will appear at the bottom of the screen. When touching the left end of the message, the display position of the message changes in the order of upper, center, and lower. When touching the other part of the message, the [Alarm Reset] window appears.

### 5.3.8 Basic Setting Parameters (ROM) (B-30011)

The screenshot shows the 'Basic Setting Parameters(ROM)' screen. At the top, the title 'Basic Setting Parameters(ROM)' is on the left, and the date/time '09/05/2013 19:15' and a globe icon are on the right. Below the title is a table with columns: No, Symbol, Name, Set value, and Unit. The table lists parameters PA01 through PA19. A red box labeled '1' highlights the first column (No). A red box labeled '2' highlights the 'Set value' and 'Unit' columns. A red box labeled '3' highlights the bottom navigation bar with buttons: Menu, Parameter Setting, Basic Setting (highlighted in blue), Gain/Filter, Extension Setting, I/O Setting, ROM<->RAM, and Back. A red box labeled '4' highlights the 'ROM<->RAM' button. A red box labeled '5' highlights the 'Back' button. A red box labeled '6' highlights the date/time display. A red box labeled '7' highlights the globe icon.

No	Symbol	Name	Set value	Unit
PA01	*STY	Control Mode	1234 h	
PA02	*REG	Regenerative Option	1234 h	
PA03	*ABS	Absolute Position Detection System	1234 h	
PA04	*AOP1	Function Selection A-1	1234 h	
PA05	*FBP	Number of Command Input Pulses per Revolution	12345678	
PA06	CMX	Electronic Gear Numerator (Command Input Pulse Magnification Numerator)	12345678	
PA07	CDV	Electronic Gear Denominator (Command Input Pulse Magnification Denominator)	12345678	
PA08	ATU	Auto Tuning Mode	1234 h	
PA09	RSP	Auto Tuning Response	12345678	
PA10	INP	In-position Range	12345678	pulse
PA11	TLP	Forward Rotation Torque Limit	123456.0	%
PA12	TLN	Reverse Rotation Torque Limit	123456.0	%
PA13	*PLSS	Command Pulse Input Form	1234 h	
PA14	*POL	Rotation Direction Selection	12345678	
PA15	*ENR	Encoder Output Pulses	12345678	pulse/rev
PA19	*BLK	Parameter Writing Inhibit	1234 h	

\*: Once data is written, the data becomes valid after turning on the amplifier power again.

#### Outline

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

#### Description

1. Displays the parameter No., abbreviation, and name.
2. Displays the parameter set values and units. The set values can be changed. (The set values without an "h" are in decimal and those with an "h" are in hexadecimal.)
3. Switches to each screen. The blue switch indicates the currently displayed screen, thus selecting this switch will not switch the screen.
4. Switches the displayed screen between ROM and RAM.
5. Switches to the previously opened screen.
6. Displays the current date and time. Touch the area to open the [Clock Setting] window.
7. Opens the [Language Setting] window.

#### Remarks

- If a system alarm occurs, the alarm message will appear at the bottom of the screen. When touching the left end of the message, the display position of the message changes in the order of upper, center, and lower. When touching the other part of the message, the [Alarm Reset] window appears.

### 5.3.9 Gain/Filter Parameters (ROM) (B-30012 to 30014)



#### Outline

This screen allows displaying and setting the gain/filter parameters of EEP-ROM in the servo amplifier.

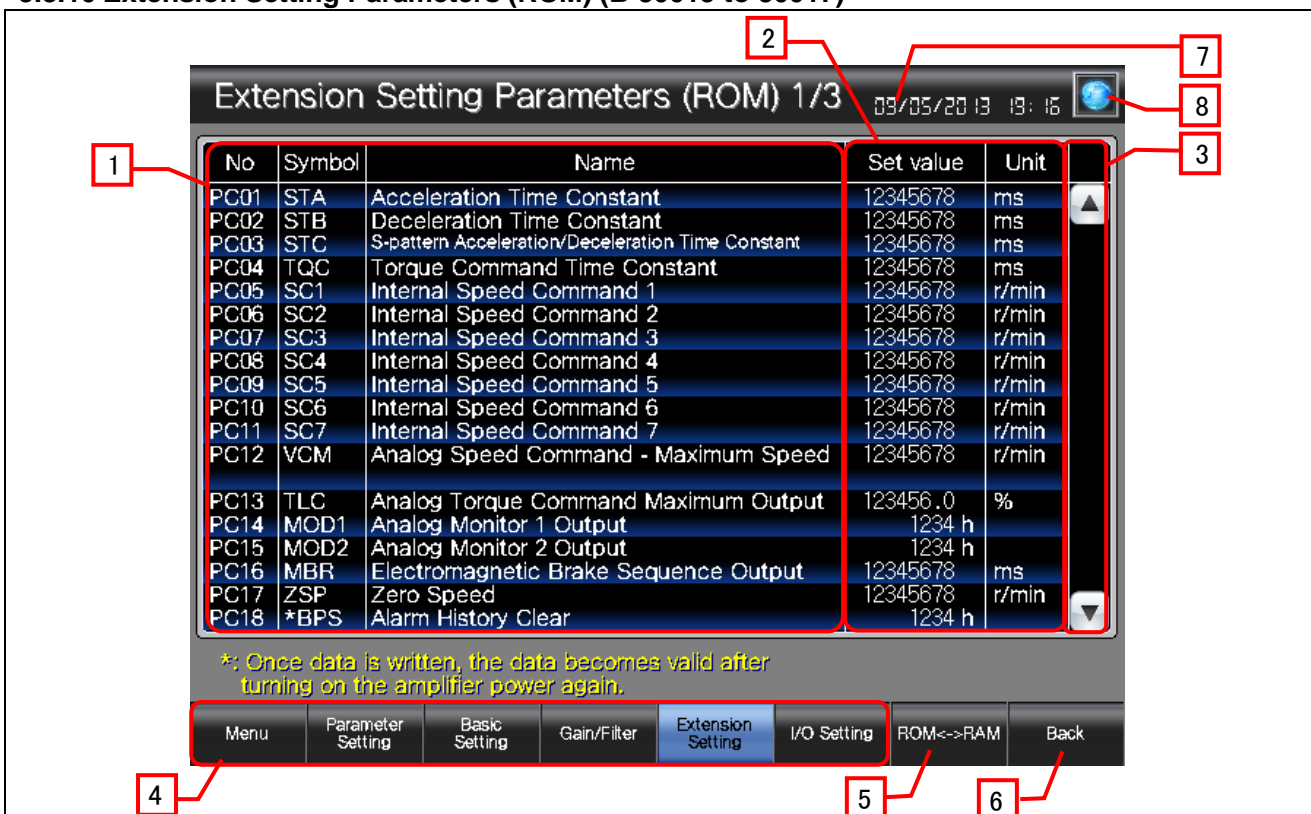
#### Description

1. Displays the parameter No., abbreviation, and name.
2. Displays the parameter set values and units. The set values can be changed. (The set values without an "h" are in decimal and those with an "h" are in hexadecimal.)
3. Switches the displayed gain & filter parameter items.
4. Switches to each screen. The blue switch indicates the currently displayed screen, thus selecting this switch will not switch the screen.
5. Switches the displayed screen between ROM and RAM.
6. Switches to the previously opened screen.
7. Displays the current date and time. Touch the area to open the [Clock Setting] window.
8. Opens the [Language Setting] window.

#### Remarks

- If a system alarm occurs, the alarm message will appear at the bottom of the screen. When touching the left end of the message, the display position of the message changes in the order of upper, center, and lower. When touching the other part of the message, the [Alarm Reset] window appears.

### 5.3.10 Extension Setting Parameters (ROM) (B-30015 to 30017)



#### Outline

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

#### Description

1. Displays the parameter No., abbreviation, and name.
2. Displays the parameter set values and units. The set values can be changed.  
(The set values without an "h" are in decimal and those with an "h" are in hexadecimal.)
3. Switches the displayed extension setting parameter items.
4. Switches to each screen. The blue switch indicates the currently displayed screen, thus selecting this switch will not switch the screen.
5. Switches the displayed screen between ROM and RAM.
6. Switches to the previously opened screen.
7. Displays the current date and time. Touch the area to open the [Clock Setting] window.
8. Opens the [Language Setting] window.

#### Remarks

- If a system alarm occurs, the alarm message will appear at the bottom of the screen. When touching the left end of the message, the display position of the message changes in the order of upper, center, and lower. When touching the other part of the message, the [Alarm Reset] window appears.

### 5.3.11 I/O Setting Parameters (ROM) (B-30018)

The screenshot shows the 'I/O Setting Parameters (ROM)' screen. At the top, the title 'I/O Setting Parameters (ROM)' is on the left, and the date '03/05/2013' and time '13:16' are on the right, next to a globe icon. Below the title bar is a table with five columns: 'No', 'Symbol', 'Name', 'Set value', and 'Unit'. The table lists parameters from PD01 to PD24. Callout 1 points to the 'No' column. Callout 2 points to the 'Set value' column. Callout 3 points to the 'Menu' button at the bottom. Callout 4 points to the 'ROM<->RAM' button. Callout 5 points to the 'Back' button. Callout 6 points to the date and time display. Callout 7 points to the globe icon.

No	Symbol	Name	Set value	Unit
PD01	*DIA1	Input Signal Automatic On Selection 1	1234 h	
PD03	*DI1	Input Signal Device Selection 1 (CN 1-15)	12345678 h	
PD04	*DI2	Input Signal Device Selection 2 (CN 1-16)	12345678 h	
PD05	*DI3	Input Signal Device Selection 3 (CN 1-17)	12345678 h	
PD06	*DI4	Input Signal Device Selection 4 (CN 1-18)	12345678 h	
PD07	*DI5	Input Signal Device Selection 5 (CN 1-19)	12345678 h	
PD08	*DI6	Input Signal Device Selection 6 (CN 1-41)	12345678 h	
PD10	*DI8	Input Signal Device Selection 8 (CN 1-43)	12345678 h	
PD11	*DI9	Input Signal Device Selection 9 (CN 1-44)	12345678 h	
PD12	*DI10	Input Signal Device Selection 10 (CN 1-45)	12345678 h	
PD13	*DO1	Output Signal Device Selection 1 (CN1-22)	1234 h	
PD14	*DO2	Output Signal Device Selection 2 (CN1-23)	1234 h	
PD15	*DO3	Output Signal Device Selection 3 (CN1-24)	1234 h	
PD16	*DO4	Output Signal Device Selection 4 (CN1-25)	1234 h	
PD18	*DO6	Output Signal Device Selection 6 (CN1-49)	1234 h	
PD19	*DIF	Input Filter Setting	1234 h	
PD20	*DOP1	Function Selection D-1	1234 h	
PD22	*DOP3	Function Selection D-3	1234 h	
PD24	*DOP5	Function Selection D-5	1234 h	

\*: Once data is written, the data becomes valid after turning on the amplifier power again.

Buttons at the bottom: Menu, Parameter Setting, Basic Setting, Gain/Filter, Extension Setting, I/O Setting (highlighted), ROM<->RAM, Back.

#### Outline

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

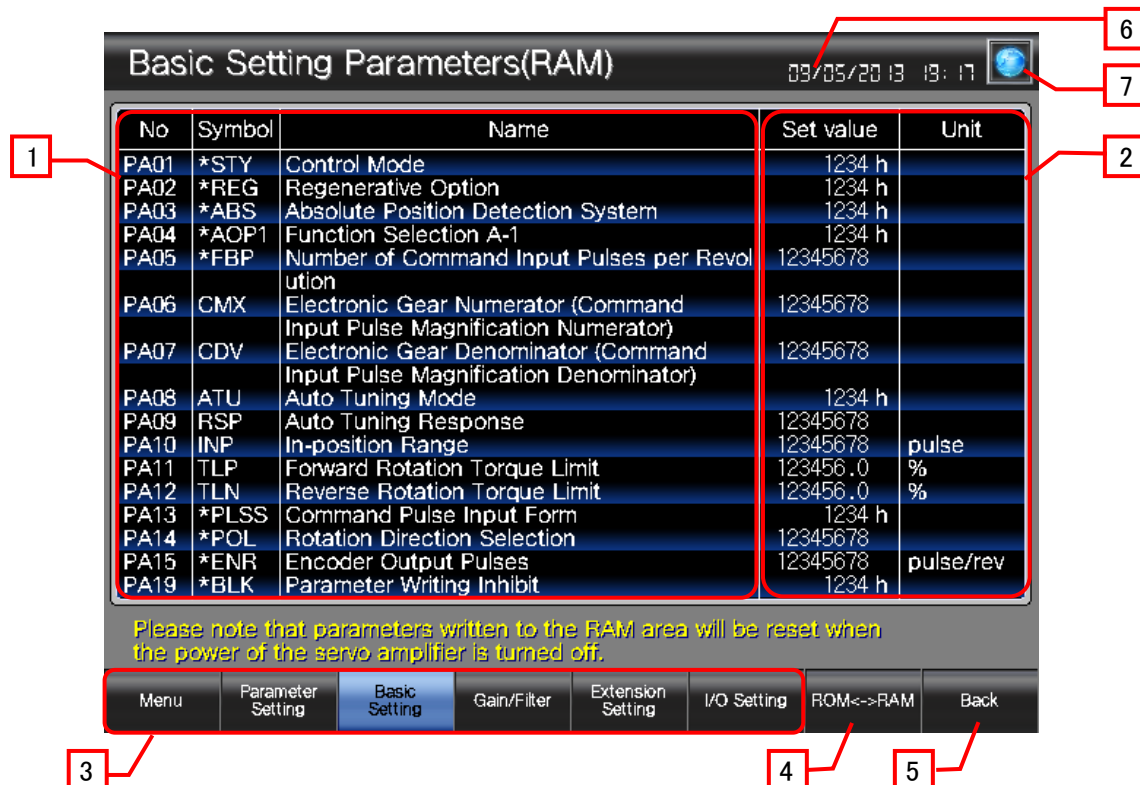
#### Description

1. Displays the parameter No., abbreviation, and name.
2. Displays the parameter set values and units. The set values can be changed. (The set values without an "h" are in decimal and those with an "h" are in hexadecimal.)
3. Switches to each screen. The blue switch indicates the currently displayed screen, thus selecting this switch will not switch the screen.
4. Switches the displayed screen between ROM and RAM.
5. Switches to the previously opened screen.
6. Displays the current date and time. Touch the area to open the [Clock Setting] window.
7. Opens the [Language Setting] window.

#### Remarks

- If a system alarm occurs, the alarm message will appear at the bottom of the screen. When touching the left end of the message, the display position of the message changes in the order of upper, center, and lower. When touching the other part of the message, the [Alarm Reset] window appears.

### 5.3.12 Basic Setting Parameters (RAM) (B-30019)



#### Outline

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

#### Description

1. Displays the parameter No., abbreviation, and name.
2. Displays the parameter set values and units. The set values can be changed. (The set values without an "h" are in decimal and those with an "h" are in hexadecimal.)
3. Switches to each screen. The blue switch indicates the currently displayed screen, thus selecting this switch will not switch the screen.
4. Switches the displayed screen between ROM and RAM.
5. Switches to the previously opened screen.
6. Displays the current date and time. Touch the area to open the [Clock Setting] window.
7. Opens the [Language Setting] window.

#### Remarks

- If a system alarm occurs, the alarm message will appear at the bottom of the screen. When touching the left end of the message, the display position of the message changes in the order of upper, center, and lower. When touching the other part of the message, the [Alarm Reset] window appears.



### 5.3.13 Gain/Filter Parameters (RAM) (B-30020 to 30022)



#### Outline

This screen allows displaying and setting the gain/filter parameters of RAM in the servo amplifier.

#### Description

1. Displays the parameter No., abbreviation, and name.
2. Displays the parameter set values and units. The set values can be changed. (The set values without an "h" are in decimal and those with an "h" are in hexadecimal.)
3. Switches the displayed gain & filter parameter items.
4. Switches to each screen. The blue switch indicates the currently displayed screen, thus selecting this switch will not switch the screen.
5. Switches the displayed screen between ROM and RAM.
6. Switches to the previously opened screen.
7. Displays the current date and time. Touch the area to open the [Clock Setting] window.
8. Opens the [Language Setting] window.

#### Remarks

- If a system alarm occurs, the alarm message will appear at the bottom of the screen. When touching the left end of the message, the display position of the message changes in the order of upper, center, and lower. When touching the other part of the message, the [Alarm Reset] window appears.

### 5.3.14 Extension Setting Parameters (RAM) (B-30023 to 30025)



#### Outline

This screen allows displaying and setting the extension setting parameters of RAM in the servo amplifier.

#### Description

1. Displays the parameter No., abbreviation, and name.
2. Displays the parameter set values and units. The set values can be changed.  
(The set values without an "h" are in decimal and those with an "h" are in hexadecimal.)
3. Switches the displayed extension setting parameter items.
4. Switches to each screen. The blue switch indicates the currently displayed screen, thus selecting this switch will not switch the screen.
5. Switches the displayed screen between ROM and RAM.
6. Switches to the previously opened screen.
7. Displays the current date and time. Touch the area to open the [Clock Setting] window.
8. Opens the [Language Setting] window.

#### Remarks

- If a system alarm occurs, the alarm message will appear at the bottom of the screen. When touching the left end of the message, the display position of the message changes in the order of upper, center, and lower. When touching the other part of the message, the [Alarm Reset] window appears.

### 5.3.15 I/O Setting Parameters (RAM) (B-30026)

The screenshot shows the 'I/O Setting Parameters (RAM)' screen. At the top, the title 'I/O Setting Parameters (RAM)' is on the left, and the date '03/05/2013' and time '13:18' are on the right, next to a globe icon. Below the title bar is a table with 5 columns: No, Symbol, Name, Set value, and Unit. The table lists 24 parameters (PD01 to PD24) with their respective symbols and names. The 'Set value' column shows values like '1234 h' or '12345678 h'. Below the table is a yellow warning message: 'Please note that parameters written to the RAM area will be reset when the power of the servo amplifier is turned off.' At the bottom is a navigation bar with buttons: Menu, Parameter Setting, Basic Setting, Gain/Filter, Extension Setting, I/O Setting (highlighted in blue), ROM<->RAM, and Back. Red callout boxes with numbers 1 through 7 point to specific elements: 1 points to the table, 2 points to the 'Set value' column, 3 points to the 'Menu' button, 4 points to the 'I/O Setting' button, 5 points to the 'ROM<->RAM' button, 6 points to the date/time display, and 7 points to the globe icon.

No	Symbol	Name	Set value	Unit
PD01	*DIA1	Input Signal Automatic On Selection 1	1234 h	
PD03	*DI1	Input Signal Device Selection 1 (CN 1-15)	12345678 h	
PD04	*DI2	Input Signal Device Selection 2 (CN 1-16)	12345678 h	
PD05	*DI3	Input Signal Device Selection 3 (CN 1-17)	12345678 h	
PD06	*DI4	Input Signal Device Selection 4 (CN 1-18)	12345678 h	
PD07	*DI5	Input Signal Device Selection 5 (CN 1-19)	12345678 h	
PD08	*DI6	Input Signal Device Selection 6 (CN 1-41)	12345678 h	
PD10	*DI8	Input Signal Device Selection 8 (CN 1-43)	12345678 h	
PD11	*DI9	Input Signal Device Selection 9 (CN 1-44)	12345678 h	
PD12	*DI10	Input Signal Device Selection 10 (CN 1-45)	12345678 h	
PD13	*DO1	Output Signal Device Selection 1 (CN1-22)	1234 h	
PD14	*DO2	Output Signal Device Selection 2 (CN1-23)	1234 h	
PD15	*DO3	Output Signal Device Selection 3 (CN1-24)	1234 h	
PD16	*DO4	Output Signal Device Selection 4 (CN1-25)	1234 h	
PD18	*DO6	Output Signal Device Selection 6 (CN1-49)	1234 h	
PD19	*DIF	Input Filter Setting	1234 h	
PD20	*DOP1	Function Selection D-1	1234 h	
PD22	*DOP3	Function Selection D-3	1234 h	
PD24	*DOP5	Function Selection D-5	1234 h	

Please note that parameters written to the RAM area will be reset when the power of the servo amplifier is turned off.

Menu Parameter Setting Basic Setting Gain/Filter Extension Setting I/O Setting ROM<->RAM Back

#### Outline

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

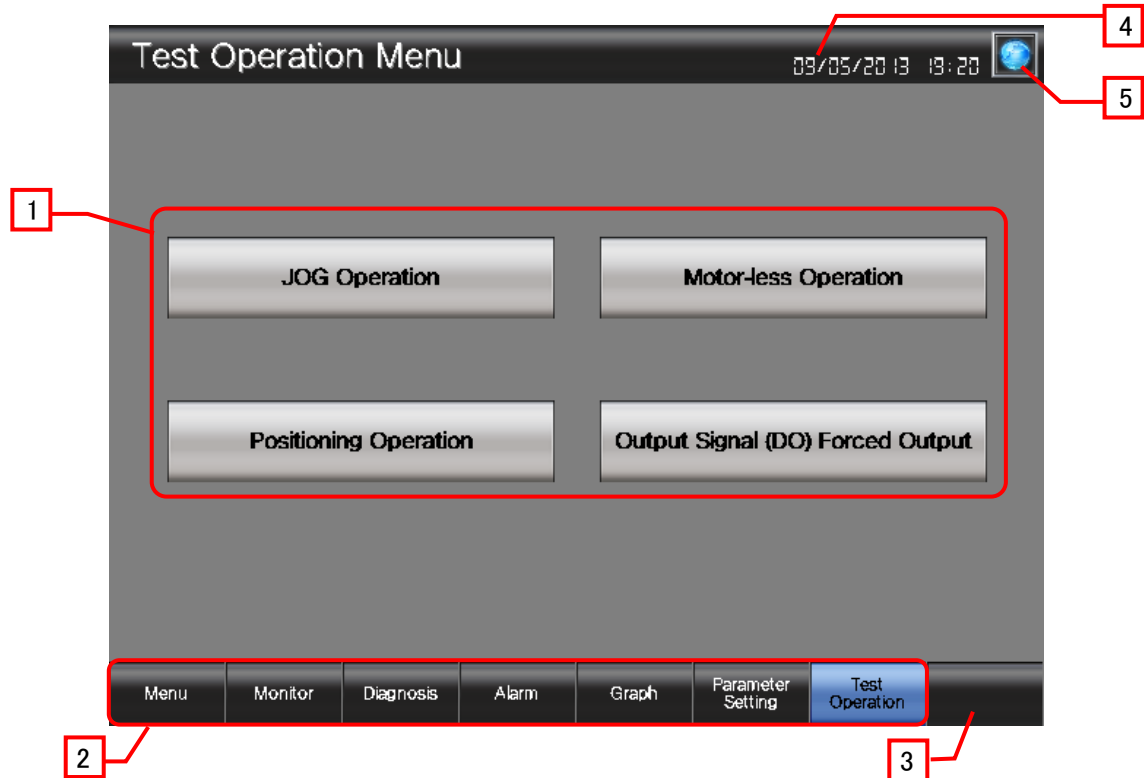
#### Description

1. Displays the parameter No., abbreviation, and name.
2. Displays the parameter set values and units. The set values can be changed. (The set values without an "h" are in decimal and those with an "h" are in hexadecimal.)
3. Switches to each screen. The blue switch indicates the currently displayed screen, thus selecting this switch will not switch the screen.
4. Switches the displayed screen between ROM and RAM.
5. Switches to the previously opened screen.
6. Displays the current date and time. Touch the area to open the [Clock Setting] window.
7. Opens the [Language Setting] window.

#### Remarks

- If a system alarm occurs, the alarm message will appear at the bottom of the screen. When touching the left end of the message, the display position of the message changes in the order of upper, center, and lower. When touching the other part of the message, the [Alarm Reset] window appears.

### 5.3.16 Test Operation Menu (B-30070)



#### Outline

This is the test operation menu screen.

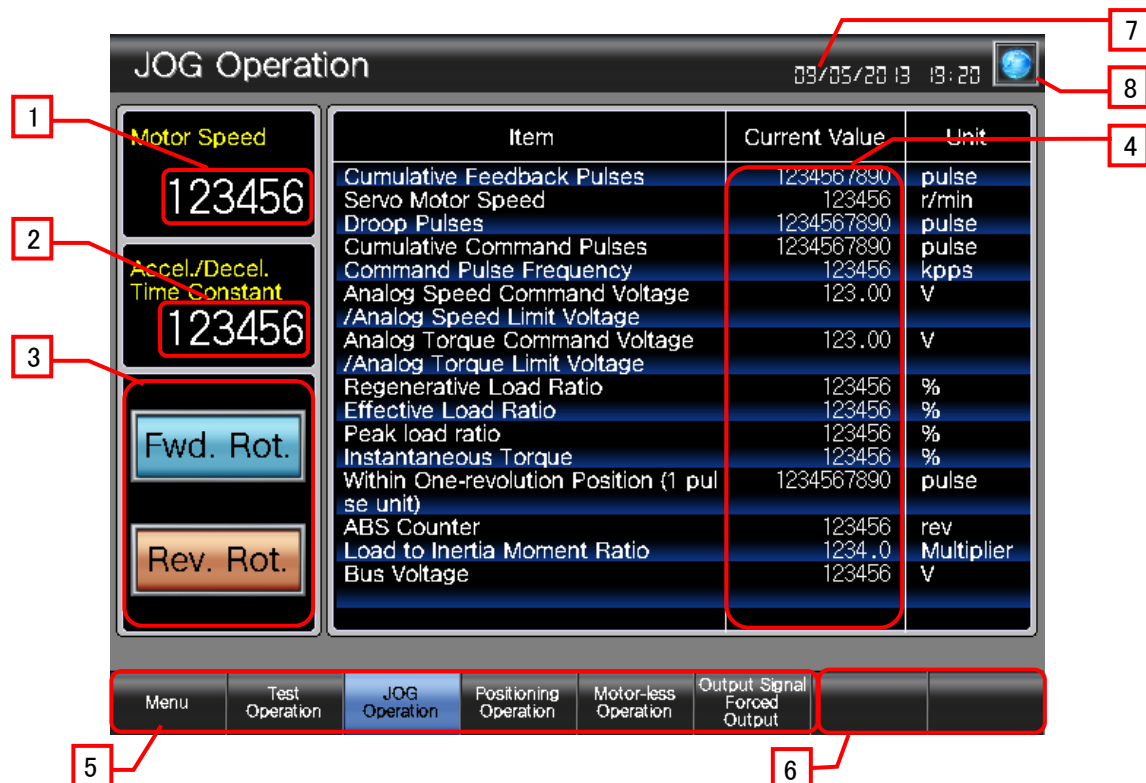
#### Description

1. Switches to each screen.
2. Switches to each screen. The green switch indicates the currently displayed screen, thus selecting this switch will not switch the screen.
3. Shows unused switches for base screen switching.
4. Displays the current date and time. Touch the area to open the [Clock Setting] window.
5. Opens the [Language Setting] window.

#### Remarks

- If a system alarm occurs, the alarm message will appear at the bottom of the screen. When touching the left end of the message, the display position of the message changes in the order of upper, center, and lower. When touching the other part of the message, the [Alarm Reset] window appears.

### 5.3.17 JOG Operation (B-30071)



#### Outline

This screen allows a JOG operation test to be conducted.

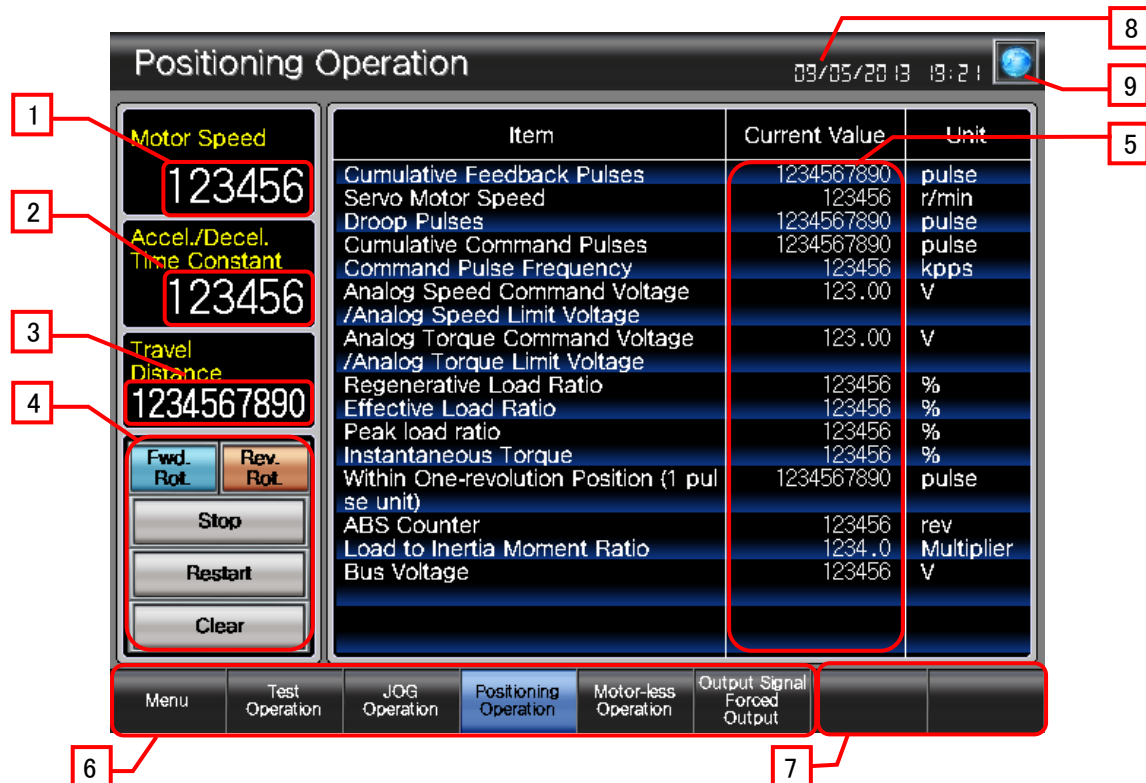
#### Description

1. Sets the motor speed.
2. Sets the accel./decel. time constant.
3. Sets forward/reverse rotation of the JOG operation.  
Fwd. Rot.: Performs JOG operation in forward rotation while being touched.  
Rev. Rot.: Performs JOG operation in reverse rotation while being touched.
4. Displays the current values of each item.
5. Switches to each screen. The blue switch indicates the currently displayed screen, thus selecting this switch will not switch the screen.
6. Shows unused switches for base screen switching.
7. Displays the current date and time. Touch the area to open the [Clock Setting] window.
8. Opens the [Language Setting] window.

#### Remarks

- A screen script is set to transfer the motor speed and accel./decel. time constant values to the servo amplifier. Object scripts are set for the [Fwd. Rot.] and [Rev. Rot.] switches. For more details about scripts, please refer to "5.6 Script List".
- If a system alarm occurs, the alarm message will appear at the bottom of the screen. When touching the left end of the message, the display position of the message changes in the order of upper, center, and lower. When touching the other part of the message, the [Alarm Reset] window appears.

### 5.3.18 Positioning Operation (B-30072)



#### Outline

This screen allows a positioning operation test to be conducted.

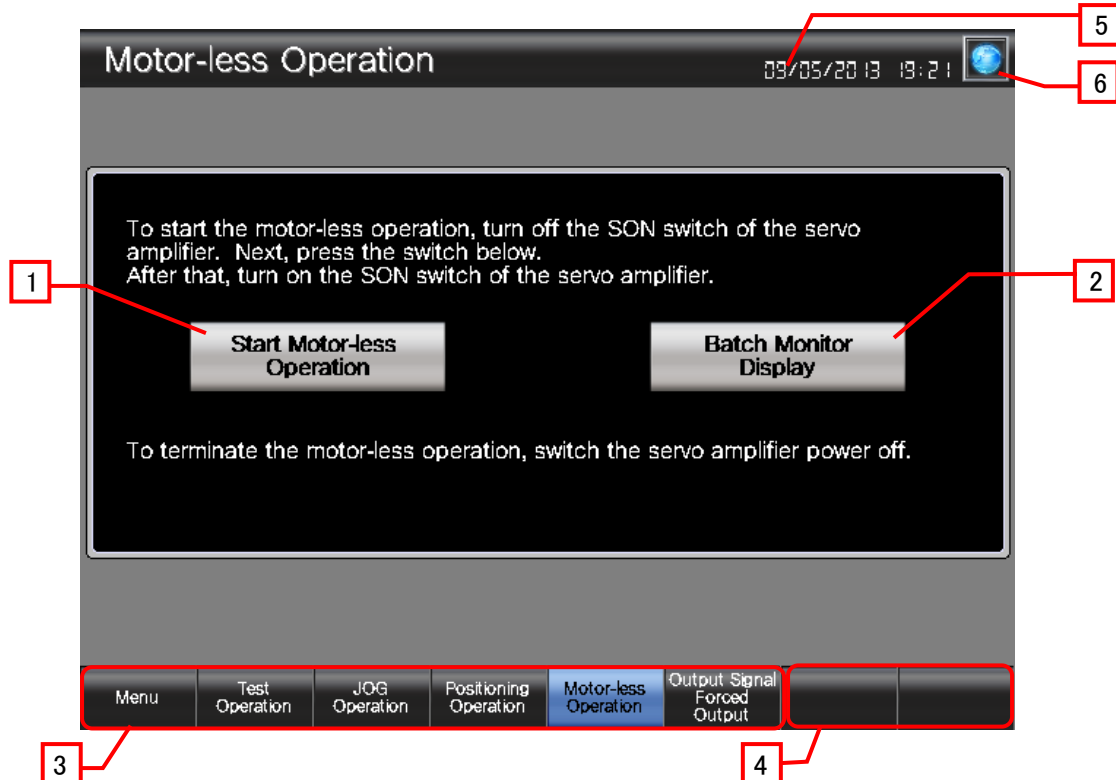
#### Description

1. Sets the motor speed.
2. Sets the accel./decel. time constant.
3. Sets the move distance.
4. Sets forward/reverse rotation of the JOG operation.  
 Fwd. Rot.: Starts positioning operation in forward rotation.  
 Rev. Rot.: Starts positioning operation in reverse rotation.  
 Stop: Temporarily stops the ongoing positioning operation.  
 Restart: Restarts the stopped positioning operation.  
 Clear: Clears the stopped positioning operation.
5. Displays the current values of each item.
6. Switches to each screen. The blue switch indicates the currently displayed screen, thus selecting this switch will not switch the screen.
7. Shows unused switches for base screen switching.
8. Displays the current date and time. Touch the area to open the [Clock Setting] window.
9. Opens the [Language Setting] window.

#### Remarks

- A screen script is set to transfer the motor speed, accel./decel. time constant, and move distance values to the servo amplifier. For more details about scripts, please refer to "5.6 Script List".
- If a system alarm occurs, the alarm message will appear at the bottom of the screen. When touching the left end of the message, the display position of the message changes in the order of upper, center, and lower. When touching the other part of the message, the [Alarm Reset] window appears.

### 5.3.19 Motor-less Operation (B-30073)



#### Outline

This screen allows a motor-less operation test to be conducted.

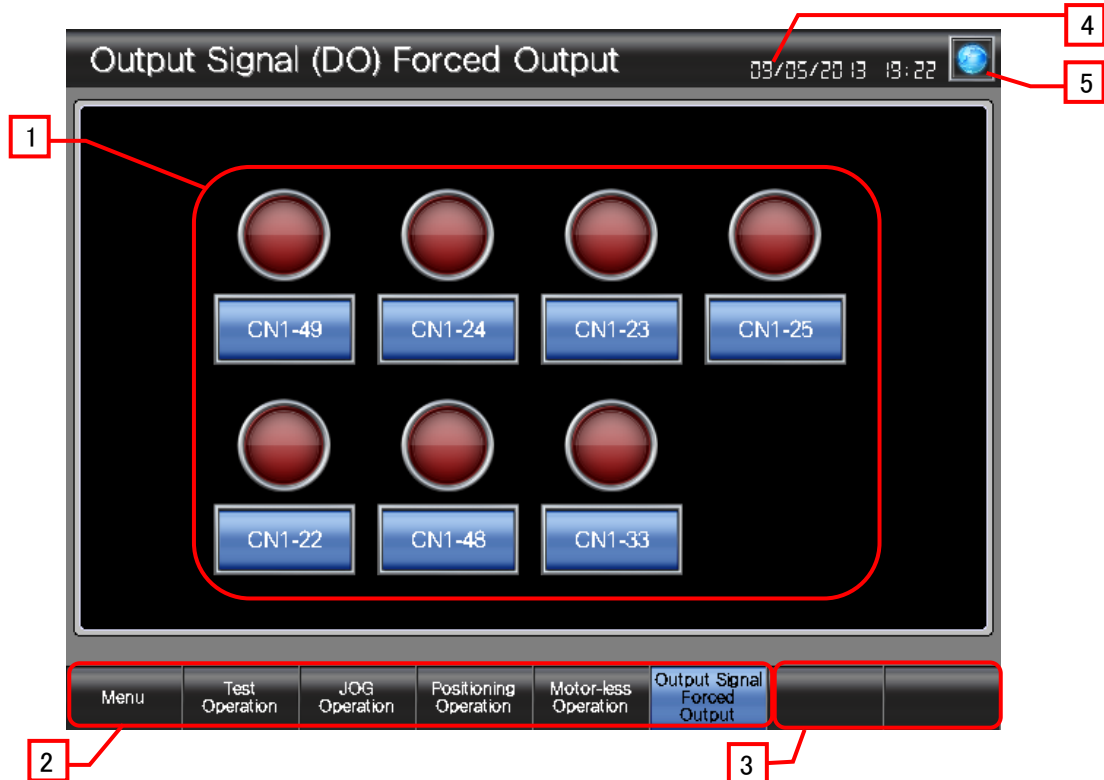
#### Description

1. Starts the motor-less operation.
2. Displays the batch monitor display data in a window.
3. Switches to each screen. The blue switch indicates the currently displayed screen, thus selecting this switch will not switch the screen.
4. Shows unused switches for base screen switching.
5. Displays the current date and time. Touch the area to open the [Clock Setting] window.
6. Opens the [Language Setting] window.

#### Remarks

- If a system alarm occurs, the alarm message will appear at the bottom of the screen. When touching the left end of the message, the display position of the message changes in the order of upper, center, and lower. When touching the other part of the message, the [Alarm Reset] window appears.

### 5.3.20 Output Signal (DO) Forced Output (B-30074)



#### Outline

This screen allows forced output of output signals.

#### Description

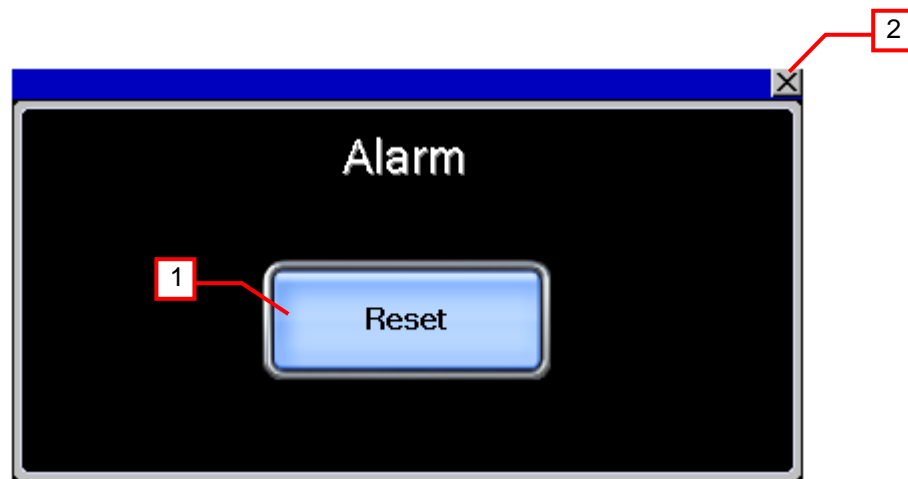
1. Allows forced output of output signals by touching a switch. The lamp of the signal being output blinks.
2. Switches to each screen. The blue switch indicates the currently displayed screen, thus selecting this switch will not switch the screen.
3. Shows unused switches for base screen switching.
4. Displays the current date and time. Touch the area to open the [Clock Setting] window.
5. Opens the [Language Setting] window.

#### Remarks

- Object scripts are set for the output signal switches. For more details about scripts, please refer to "5.6 Script List".
- If a system alarm occurs, the alarm message will appear at the bottom of the screen. When touching the left end of the message, the display position of the message changes in the order of upper, center, and lower. When touching the other part of the message, the [Alarm Reset] window appears.



### 5.3.21 Alarm Reset (W-30001)



#### Outline

This window screen allows resetting the system alarm.

#### Description

1. Resets the system alarm, and closes the window screen after 1 second.
2. Closes the window screen.

#### Remarks

### 5.3.22 Language Setting (W-30002)



#### Outline

This window screen allows selecting the GOT language.

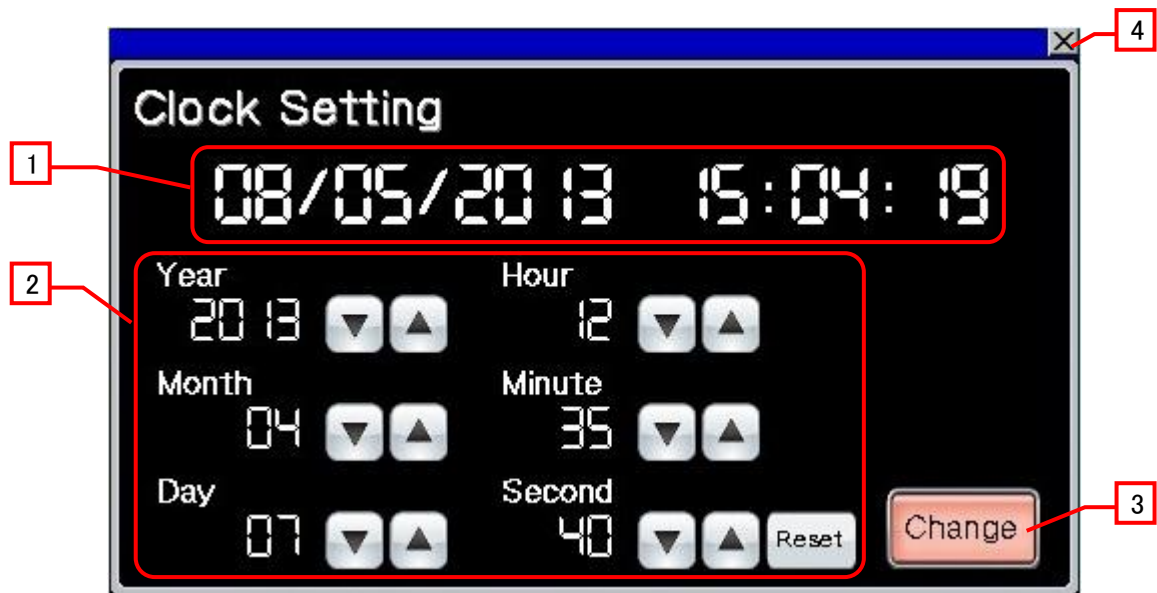
#### Description

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

#### Remarks

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



### 5.3.23 Clock Setting (W-30003)



#### Outline

This window screen allows changing the GOT clock data.

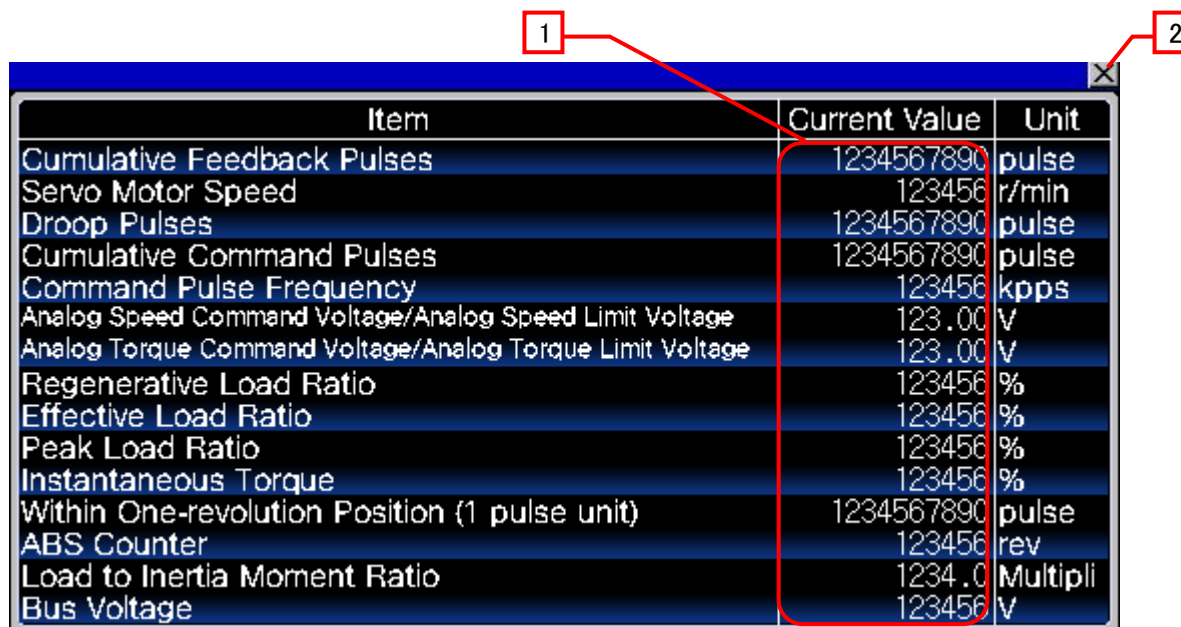
#### Description

1. Displays the current date and time.
2. Use   switches to change the date and time. Hold down the switches to increment or decrement the value continuously. The [Reset] switch resets the seconds.
3. Applies the set date and time to the GOT clock data, and closes the window after 1 second.
4. Closes the window.

#### Remarks

- The date and time at window opening are initially set as the clock data to be newly set.
- Object scripts are set for the numerical display of the year, month, date, hour, minute and second in the clock data to be newly set. For more details about scripts, please refer to "5.6 Script List".

### 5.3.24 Status Display at Alarm Occurrence (W-30016)



Item	Current Value	Unit
Cumulative Feedback Pulses	1234567890	pulse
Servo Motor Speed	123456	r/min
Droop Pulses	1234567890	pulse
Cumulative Command Pulses	1234567890	pulse
Command Pulse Frequency	123456	kpps
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	%
Instantaneous Torque	123456	%
Within One-revolution Position (1 pulse unit)	1234567890	pulse
ABS Counter	123456	rev
Load to Inertia Moment Ratio	1234.0	Multipli
Bus Voltage	123456	V

#### Outline

This window screen displays the status at alarm occurrence.

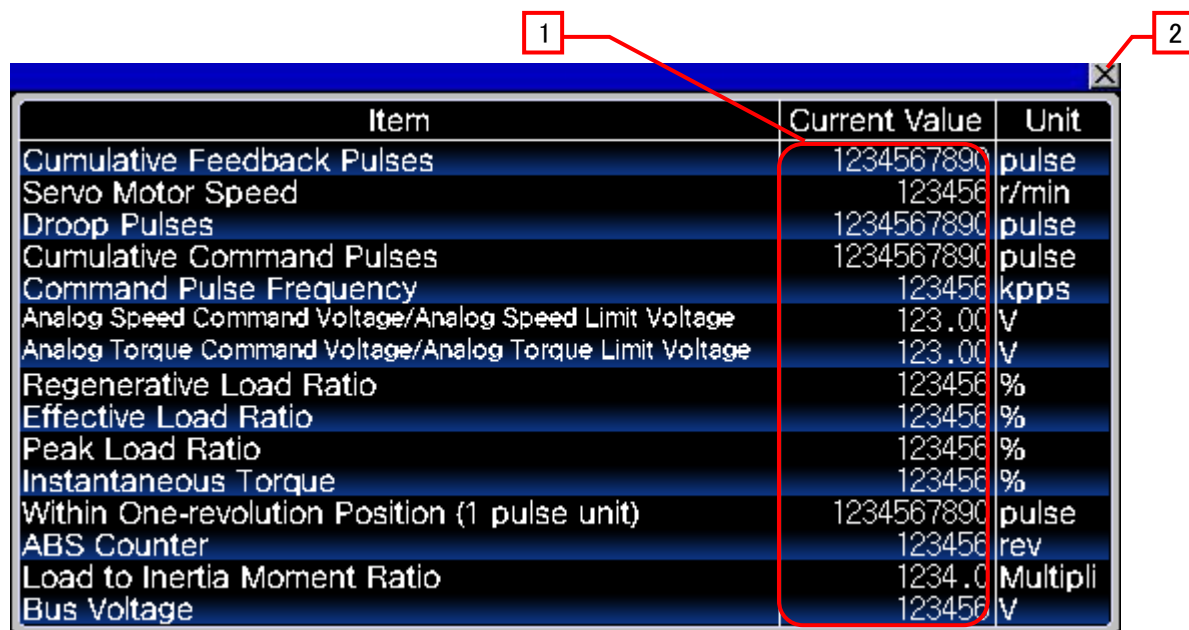
#### Description

1. Displays the current values of each item at alarm occurrence.
2. Closes the window screen.

#### Remarks

- This window is displayed when the [Status Display at Alarm Occurrence] switch is touched on the [Alarm] screen (B-30060).

### 5.3.25 Batch Monitor Display (W-30018)



Item	Current Value	Unit
Cumulative Feedback Pulses	1234567890	pulse
Servo Motor Speed	123456	r/min
Droop Pulses	1234567890	pulse
Cumulative Command Pulses	1234567890	pulse
Command Pulse Frequency	123456	kpps
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	%
Instantaneous Torque	123456	%
Within One-revolution Position (1 pulse unit)	1234567890	pulse
ABS Counter	123456	rev
Load to Inertia Moment Ratio	1234.0	Multipli
Bus Voltage	123456	V

#### Outline

This window screen displays the current values.

#### Description

1. Displays the current values.
2. Closes the window screen.

#### Remarks

- This window is displayed when the [Batch Monitor Display] switch is touched on the [Motor-less Operation] screen (B-30073).

## 5.4 Device List

Some of the devices specified for the on-screen switches, lamps, or others 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	Abbreviation *1
Bit	SP1	Current Alarm Clearing	-
	SP2	Alarm History Clearing	-
	OM0	Normal Mode (Cancel test operation mode)	-
	OM1	JOG Operation	-
	OM2	Positioning Operation	-
	OM3	Motor-less Operation	-
	OM4	Output Signal (DO) Forced Output	-
	TMB1	Stop Command	-
	TMB2	Start Command	-
	TMB3	Positioning Direction Selection (Fwd. Rot.)	-
	TMB4	Positioning Direction Selection (Rev. Rot.)	-
	TMB5	Restart	-
	TMB6	Clear	-
Word	PA1, PA1001	Control Mode	*STY
	PA2, PA1002	Regenerative Option	*REG
	PA3, PA1003	Absolute Position Detection System	*ABS
	PA4, PA1004	Function Selection A-1	*AOP1
	PA5, PA1005	Number of Command Input Pulses per Revolution	*FBP
	PA6, PA1006	Electronic Gear Numerator (Command Input Pulse Magnification Numerator)	CMX
	PA7, PA1007	Electronic Gear Denominator (Command Input Pulse Magnification Denominator)	CDV
	PA8, PA1008	Auto Tuning Mode	ATU
	PA9, PA1009	Auto Tuning Response	RSP
	PA10, PA1010	In-position Range	INP
	PA11, PA1011	Forward Rotation Torque Limit	TLP
	PA12, PA1012	Reverse Rotation Torque Limit	TLN
	PA13, PA1013	Command Pulse Input Form	*PLSS
	PA14, PA1014	Rotation Direction Selection	*POL
	PA15, PA1015	Encoder Output Pulses	*ENR
	PA19, PA1019	Parameter Writing Inhibit	*BLK
	PB1, PB1001	Adaptive Tuning Mode (Adaptive Filter II)	FILT
	PB2, PB1002	Vibration Suppression Control Tuning Mode (Advanced Vibration Suppression Control)	VRFT
	PB3, PB1003	Position Command Accel./Decel. Time Constant (Position Smoothing)	PST
	PB4, PB1004	Feed Forward Gain	FFC
	PB6, PB1006	Ratio of Load Inertia Moment to Servo Motor Inertia Moment	GD2
	PB7, PB1007	Model Loop Gain	PG1
	PB8, PB1008	Position Loop Gain	PG2
	PB9, PB1009	Speed Loop Gain	VG2
	PB10, PB1010	Speed Integral Compensation	VIC
	PB11, PB1011	Speed Differential Compensation	VDC
	PB13, PB1013	Machine Resonance Suppression Filter 1	NH1
	PB14, PB1014	Notch Shape Selection 1	NHQ1
	PB15, PB1015	Machine Resonance Suppression Filter 2	NH2
	PB16, PB1016	Notch Shape Selection 2	NHQ2
	PB18, PB1018	Low-pass Filter Setting	LPF

Type	Device No.	Application	Abbreviation *1
Word	PB19, PB1019	Vib. Suppr. Control Vib. Freq. Setting	VRF1
	PB20, PB1020	Vib. Suppr. Control Resonance Freq. Setting	VRF2
	PB23, PB1023	Low-pass Filter Selection	VFBF
	PB24, PB1024	Slight Vibration Suppression Control Selection	*MVS
	PB25, PB1025	Function Selection B-1	*BOP1
	PB26, PB1026	Gain Changing Selection	*CDP
	PB27, PB1027	Gain Changing Condition	CDL
	PB28, PB1028	Gain Changing Time Constant	CDT
	PB29, PB1029	Gain Changing Ratio of Load Inertia Moment to Servo Motor Inertia Moment	GD2B
	PB30, PB1030	Gain Changing Position Loop Gain	PG2B
	PB31, PB1031	Gain Changing Speed Loop Gain	VG2B
	PB32, PB1032	Gain Changing Speed Integral Compensation	VICB
	PB33, PB1033	Gain Changing Vib. Suppr. Control Vib. Freq. Setting	VRF1B
	PB34, PB1034	Gain Changing Vib. Suppr. Ctrl Resonance Freq. Setting	VRF2B
	PC1, PC1001	Acceleration Time Constant	STA
	PC2, PC1002	Deceleration Time Constant	STB
	PC3, PC1003	S-pattern Acceleration/Deceleration Time Constant	STC
	PC4, PC1004	Torque Command Time Constant	IQC
	PC5, PC1005	Internal Speed Command 1/Limit 1	SC1
	PC6, PC1006	Internal Speed Command 2/Limit 2	SC2
	PC7, PC1007	Internal Speed Command 3/Limit 3	SC3
	PC8, PC1008	Internal Speed Command 4/Limit 4	SC4
	PC9, PC1009	Internal Speed Command 5/Limit 5	SC5
	PC10, PC1010	Internal Speed Command 6/Limit 6	SC6
	PC11, PC1011	Internal Speed Command 7/Limit 7	SC7
	PC12, PC1012	Analog Speed Command - Maximum Speed/Limit - Maximum Speed	VCM
	PC13, PC1013	Analog Torque Command Maximum Output	TLC
	PC14, PC1014	Analog Monitor 1 Output	MOD1
	PC15, PC1015	Analog Monitor 2 Output	MOD2
	PC16, PC1016	Electromagnetic Brake Sequence Output	MBR
	PC17, PC1017	Zero Speed	ZSP
	PC18, PC1018	Alarm History Clear	*BPS
	PC19, PC1019	Encoder Output Pulses Selection	*ENRS
	PC20, PC1020	Station Number Setting	*SNO
	PC21, PC1021	Communication Function Selection	*SOP
	PC22, PC1022	Function Selection C-1	*COP1
	PC23, PC1023	Function Selection C-2	*COP2
	PC24, PC1024	Function Selection C-3	*COP3
	PC26, PC1026	Function Selection C-5	*COP5
	PC30, PC1030	Acceleration Time Constant 2	STA2
	PC31, PC1031	Deceleration Time Constant 2	STB2
	PC32, PC1032	Command Pulse Multiplying Factor Numerator 2	CMX2
	PC33, PC1033	Command Pulse Multiplying Factor Numerator 3	CMX3
	PC34, PC1034	Command Pulse Multiplying Factor Numerator 4	CMX4
	PC35, PC1035	Internal Torque Limit 2	TL2
	PC36, PC1036	Status Display Selection	*DMD
	PC37, PC1037	Analog Speed Command Offset/Limit Offset	VCO
	PC38, PC1038	Analog Torque Command Offset/Limit Offset	TPO
	PC39, PC1039	Analog Monitor 1 Offset	MO1
	PC40, PC1040	Analog Monitor 2 Offset	MO2
	PD1, PD1001	Input Signal Automatic On Selection 1	*DIA1
	PD3, PD1003	Input Signal Device Selection 1 (CN1-15)	*DI1
	PD4, PD1004	Input Signal Device Selection 2 (CN1-16)	*DI2

Type	Device No.	Application	Abbreviation *1
Word	PD5, PD1005	Input Signal Device Selection 3 (CN1-17)	*DI3
	PD6, PD1006	Input Signal Device Selection 4 (CN1-18)	*DI4
	PD7, PD1007	Input Signal Device Selection 5 (CN1-19)	*DI5
	PD8, PD1008	Input Signal Device Selection 6 (CN1-41)	*DI6
	PD10, PD1010	Input Signal Device Selection 8 (CN1-43)	*DI8
	PD11, PD1011	Input Signal Device Selection 9 (CN1-44)	*DI9
	PD12, PD1012	Input Signal Device Selection 10 (CN1-45)	*DI10
	PD13, PD1013	Output Signal Device Selection 1 (CN1-22)	*DO1
	PD14, PD1014	Output Signal Device Selection 2 (CN1-23)	*DO2
	PD15, PD1015	Output Signal Device Selection 3 (CN1-24)	*DO3
	PD16, PD1016	Output Signal Device Selection 4 (CN1-25)	*DO4
	PD18, PD1018	Output Signal Device Selection 6 (CN1-49)	*DO6
	PD19, PD1019	Input Filter Setting	*DIF
	PD20, PD1020	Function Selection D-1	*DOP1
	PD22, PD1022	Function Selection D-3	*DOP3
	PD24, PD1024	Function Selection D-5	*DOP5
	ST0	Status Display (Cumulative Feedback Pulses)	-
	ST1	Status Display (Servo Motor Speed)	-
	ST2	Status Display (Droop Pulses)	-
	ST3	Status Display (Cumulative Command Pulses)	-
	ST4	Status Display (Command Pulse Frequency)	-
	ST5	Status Display (Analog Speed Command Voltage/Analog Speed Limit Voltage)	-
	ST6	Status Display (Analog Torque Command Voltage/Analog Torque Limit Voltage)	-
	ST7	Status Display (Regenerative Load Ratio)	-
	ST8	Status Display (Effective Load Ratio)	-
	ST9	Status Display (Peak Load Ratio)	-
	ST10	Status Display (Instantaneous Torque)	-
	ST11	Status Display (Within One-revolution Position)	-
	ST12	Status Display (ABS Counter)	-
	ST13	Status Display (Load to Inertia Moment Ratio)	-
	ST14	Status Display (Bus Voltage)	-
	AL0	Current Alarm No. Read	-
	AL11	Status at Alarm Occurrence (Cumulative Feedback Pulses)	-
	AL12	Status at Alarm Occurrence (Servo Motor Speed)	-
	AL13	Status at Alarm Occurrence (Droop Pulses)	-
	AL14	Status at Alarm Occurrence (Cumulative Command Pulses)	-
	AL15	Status at Alarm Occurrence (Command Pulse Frequency)	-
	AL16	Status at Alarm Occurrence (Analog Speed Command Voltage/Analog Speed Limit Voltage)	-
	AL17	Status at Alarm Occurrence (Analog Torque Command Voltage/Analog Torque Limit Voltage)	-
	AL18	Status at Alarm Occurrence (Regenerative Load Ratio)	-
	AL19	Status at Alarm Occurrence (Effective Load Ratio)	-
	AL20	Status at Alarm Occurrence (Peak Load Ratio)	-
	AL21	Status at Alarm Occurrence (Instantaneous Torque)	-
	AL22	Status at Alarm Occurrence (Within One-revolution Position)	-
	AL23	Status at Alarm Occurrence (ABS Counter)	-
	AL24	Status at Alarm Occurrence (Load to Inertia Moment Ratio)	-
	AL25	Status at Alarm Occurrence (Bus Voltage)	-



Type	Device No.	Application	Abbreviation *1
Word	AL200	Alarm No. Read from Alarm History (Latest Alarm)	-
	AL201	Alarm No. Read from Alarm History (1st Previous Alarm)	-
	AL202	Alarm No. Read from Alarm History (2nd Previous Alarm)	-
	AL203	Alarm No. Read from Alarm History (3rd Previous Alarm)	-
	AL204	Alarm No. Read from Alarm History (4th Previous Alarm)	-
	AL205	Alarm No. Read from Alarm History (5th Previous Alarm)	-
	AL210	Alarm Occurrence Time Read from Alarm History (Latest Alarm)	-
	AL211	Alarm Occurrence Time Read from Alarm History (1st Previous Alarm)	-
	AL212	Alarm Occurrence Time Read from Alarm History (2nd Previous Alarm)	-
	AL213	Alarm Occurrence Time Reading from Alarm History (3rd Previous Alarm)	-
	AL214	Alarm Occurrence Time Read from Alarm History (4th Previous Alarm)	-
	AL215	Alarm Occurrence Time Read from Alarm History (5th Previous Alarm)	-
	AL230	Alarm Detail Data in Alarm History (Latest Alarm)	-
	AL231	Alarm Detail Data in Alarm History (1st Previous Alarm)	-
	AL232	Alarm Detail Data in Alarm History (2nd Previous Alarm)	-
	AL233	Alarm Detail Data in Alarm History (3rd Previous Alarm)	-
	AL234	Alarm Detail Data in Alarm History (4th Previous Alarm)	-
	AL235	Alarm Detail Data in Alarm History (5th Previous Alarm)	-
	DI0	Input Device Status	-
	DI1	External Input Pin Status	-
	DO0	Output Device Status	-
	DO1	External Output Pin Status	-
	TMI0	Input Signal During Test Operation	-
	TMO0	Signal Pin Forced Output	-
	TMD0	Test Operation Mode Data (Rotation Speed)	-
	TMD1	Test Operation Mode Data (Accel./Decel. Time Constant)	-
	TMD3	Test Operation Mode Data (Move Distance)	-

\*1 The parameters with \* at the beginning of their abbreviations become effective by turning the servo amplifier off and on again after they are set.

#### 5.4.2 GOT internal devices

Type	Device No.	Application
Bit	GB40	Script Trigger (Always ON)
	GD60031.b13	GOT Error Reset Signal
	GD61407.b0	Fwd. Rot. Switch Script Trigger (JOG Operation)
	GD61409.b0	Rev. Rot. Switch Script Trigger (JOG Operation)
	GD61411.b0 to GD61411.b6	Output Signal (DO) Forced Output Touch Switch & Script Trigger
	GS512.b0	Time Change Signal
Word	GD10	Station Number Setting
	GD60000	Base Screen Switching
	GD60001	Overlap Window 1 Screen Switching
	GD60004	Overlap Window 2 Screen Switching
	GD60007	Overlap Window 3 Screen Switching
	GD60021	Language Switching
	GD60022	System Language Switching
	GD60031, GD60041	System Information
	GD60080 to GD60082	Document Display
	GD61201 to GD61203	Graph Information in Historical Trend Graph
	GD61221 to GD61224	Cursor Position Time in Historical Trend Graph
	GD61225 to GD61228	Beginning Position Time in Historical Trend Graph
	GD61229 to GD61232	End Position Time in Historical Trend Graph
	GD61233 to GD61235	Display Position Time Specification in Historical Trend Graph
	GD61401	Test Operation (Motor Speed) Writing
	GD61403	Test Operation (Accel./Decel. Time Constant) Writing
	GD61405	Test Operation (Move Distance) Writing
	GD61411	Output Signal Lamp Display
	GD61701 to GD61702	For STAB2 and CDP Object Scripts of Input Device Status
	GD61703 to GD61704	For CDPS and ABSV Object Scripts of Output Device Status
	GD63990 to GD63995	Clock Digital Switch
	GS513 to GS516	Changed Time
	GS650 to GS652	Current Time
	TMP800 to TMP996	For Script Operation

## 5.5 Comment List

Comment group No.	Comment No.	Where comments are used
500	No. 1	W-30002
	No. 2	All base screens
	No. 3	B-30001
	No. 4 to No.5	B-30001, B-30010, B-30030 to B-30070
	No. 6	B-30001, B-30010, B-30030 to B-30070, W-30001
	No. 7	B-30001, B-30010, B-30030 to B-30070
	No. 8	B-30070
	No. 11	B-30001
	No. 21 to No.29	B-30010
	No. 30	B-30010 to B-30070
	No. 31	B-30001
	No. 32	B-30010 to B-30060, B-30500
	No. 33 to No.37	B-30011 to B-30026
	No. 38 to No.41	B-30070
	No. 42	B-30071 to B-30074
	No. 44	B-30074, W-30001, W-30003
	No. 45	B-30011 to B-30018
	No. 46 to No.48	B-30011 to B-30026
	No. 49	B-30011 to B-30026, B-30030
	No. 50	B-30011 to B-30026
	No. 51	B-30011 to B-30013, B-30015 to B-30016, B-30018 to B-30021, B-30023 to B-30024, B-30026
	No. 52	B-30011, B-30019, B-30030, B-30071 to B-30072, W-30016, W-30018
	No. 53	B-30011 to B-30012, B-30015 to B-30016, B-30019 to B-30020, B-30023 to B-30024, B-30030 to B-30040, B-30071 to B-30072, W-30016, W-30018
	No. 54	B-30011, B-30019
	No. 55	B-30012 to B-30013, B-30015 to B-30016, B-30020 to B-30021, B-30023 to B-30024
	No. 56	B-30012 to B-30013, B-30020 to B-30021, B-30030, B-30071 to B-30072, W-30016, W-30018
	No. 57	B-30012 to B-30013, B-30020 to B-30021
	No. 58	B-30012 to B-30014, B-30020 to B-30022
	No. 59	B-30015, B-30023, B-30030 to B-30040, B-30071 to B-30072, W-30016, W-30018
	No. 60	B-30016, B-30024
	No. 61	B-30016 to B-30017, B-30024 to B-30025
	No. 62	B-30030, B-30071 to B-30072, W-30016, W-30018
	No. 63	B-30030 to B-30040, B-30071 to B-30072, W-30016, W-30018
	No. 64	B-30030, B-30071 to B-30072, W-30016, W-30018
	No. 66	B-30030 to B-30040
	No. 67	B-30010, B-30030 to B-30060, B-30070 to B-30074
	No. 68 to No.70	B-30071 to B-30074
	No. 71	B-30019 to B-30026
	No. 98	B-30011
	No. 99	B-30019
	No. 100 to No.147	B-30011, B-30019
	No. 198	B-30012
	No. 199	B-30020
	No. 200 to No.244	B-30012, B-30020
	No. 299	B-30013
	No. 300	B-30021

Comment group No.	Comment No.	Where comments are used
500	No. 301 to No.339	B-30013, B-30021
	No. 400	B-30014
	No. 401	B-30022
	No. 402 to No.404	B-30014, B-30022
	No. 501	B-30015
	No. 502	B-30023
	No. 503 to No.556	B-30015, B-30023
	No. 602	B-30016
	No. 603	B-30024
	No. 604 to No.651	B-30016, B-30024
	No. 703	B-30017
	No. 704	B-30025
	No. 705 to No.710	B-30017, B-30025
	No. 804	B-30018
	No. 805	B-30026
	No. 806 to No.862	B-30018, B-30026
	No. 905 to No.921	B-30030
	No. 998 to No.1022	B-30040
	No. 1098 to No.1153	B-30050
	No. 1198 to No.1258	B-30060
	No. 1298	B-30500
	No. 1398 to No.1402	B-30071
	No. 1404 to No.1421	B-30071 to B-30072
	No. 1498 to No.1506	B-30072
	No. 1598 to No.1602	B-30073
	No. 1698 to No.1705	B-30074
	No. 1798 to No.1805	W-30003
	No. 1898 to No.1915	W-30016, W-30018

## 5.6 Script List

Item	Setting
Project script	Specified
Screen script	B-30040、B-30071、B-30072、B-30500
Object script	B-30050、B-30071、B-30074、B-30500、W-30003

### 5.6.1 Project script

Script No.	30001	Script name	Script30001
Comment	Initial Setting		
Data type	Signed BIN16	Trigger type	Rise, GB40
[w:GD60080]=201; //Set Document ID to 201 [w:GD60081]=1; //Set Document page No. to 1			

### 5.6.2 Screen script

#### Base screen 30040

Script No.	30101	Script name	Script30101
Comment	Obtain Present Time		
Data type	Signed BIN16	Trigger type	Rise, GB40
//Store Year, Month, Day, Hour, Minute, Second When Screen Is Displayed [w:GD61233]=[w:GS650]; [w:GD61234]=[w:GS651]; [w:GD61235]=[w:GS652];			

#### Base screen 30071

Script No.	30102	Script name	Script30102
Comment	JOG Operation Parameter Transfer		
Data type	Signed BIN16	Trigger type	Ordinary
//Transfer Motor Speed and Accel./Decel. Time Constant to Servo Amplifier [0-100:u32:TMD0] = [u32:GD61401]; [0-100:u32:TMD1] = [u32:GD61403];			

#### Base screen 30072

Script No.	30103	Script name	Script30103
Comment	Positioning Op.Param.Transfer		
Data type	Signed BIN16	Trigger type	Ordinary
//Transfer Motor Speed, Accel./Decel. Time Constant, and Move Distance to Servo Amplifier [0-100:u32:TMD0] = [u32:GD61401]; [0-100:u32:TMD1] = [u32:GD61403]; [0-100:u32:TMD3] = [u32:GD61405];			

#### Base screen 30500

Script No.	30002	Script name	Script30002
Comment	DocumentDisplayProcessOfLastPage		
Data type	Unsigned BIN16	Trigger type	Ordinary
//Check the total number of document pages is not 0. if([w:GD60082]!=0){ //Compare the current page number to the total number of document pages to see if the current page number exceeds the total number. if([w:GD60081]>[w:GD60082]){ //Set the last page to display. [w:GD60081]=[w:GD60082]; } }			

### 5.6.3 Object script

#### Base screen 30050

Object (Name)	Lamp	Object ID *1	10057
Script user ID	1		
Data type	Unsigned BIN16	Trigger type	Ordinary
[u32:TMP0800] = [0-100:u32:DI0] & 0x00100000; //Calculate bit20 of DI0 with logical conjunction and store it in TMP [w:GD61701] = [u32:TMP0800] >> 20; //Shift TMP right by 20 and store it in GD61701			
Object (Name)	Lamp	Object ID *1	10058
Script user ID	2		
Data type	Unsigned BIN16	Trigger type	Ordinary
[u32:TMP0801] = [0-100:u32:DI0] & 0x08000000; //Calculate bit27 of DI0 with logical conjunction and store it in TMP [w:GD61702] = [u32:TMP0801] >> 27; //Shift TMP right by 27 and store it in GD61702			
Object (Name)	Lamp	Object ID *1	10055
Script user ID	3		
Data type	Unsigned BIN16	Trigger type	Ordinary
[u32:TMP0802] = [0-100:u32:DO0] & 0x02000000; //Calculate bit25 of DO0 with logical conjunction and store it in TMP [w:GD61703] = [u32:TMP0802] >> 25; //Shift TMP right by 25 and store it in GD61703			
Object (Name)	Lamp	Object ID *1	10056
Script user ID	4		
Data type	Unsigned BIN16	Trigger type	Ordinary
//Store Year, Month, Day, Hour, Minute, Second When Screen Is Displayed [u32:TMP0803] = [0-100:u32:DO0] & 0x08000000; //Calculate bit27 of DO0 with logical conjunction and store it in TMP [w:GD61704] = [u32:TMP0803] >> 25; //Shift TMP right by 27 and store it in GD61704			

#### Base screen 30071

Object (Name)	Switch	Object ID *1	10013
Script user ID	1		
Data type	Unsigned BIN16	Trigger type	Rise/Fall GD61407.b0
if([b:GD61407.b0] == ON){ //When Trigger Signal Rises [0-100:u32:TMI0] = 2055; //Input 2055(0x0807) to TMI0 Device }else{ //When Trigger Signal Falls [0-100:u32:TMI0] = 7; //Input 7(0x0007) to TMI0 Device }			
Object (Name)	Switch	Object ID *1	10012
Script user ID	2		
Data type	Unsigned BIN16	Trigger type	Rise/Fall GD61409.b0
if([b:GD61409.b0] == ON){ //When Trigger Signal Rises [0-100:u32:TMI0] = 4103; //Input 4103(0x1007) to TMI0 Device }else{ //When Trigger Signal Falls [0-100:u32:TMI0] = 7; //Input 7(0x0007) to TMI0 Device }			

#### Base screen 30074

Object (Name)	Switch	Object ID *1	10008
Script user ID	1		
Data type	Unsigned BIN16	Trigger type	Rise/Fall GD61411.b0
[0-100:u32:TMO0] = [w:GD61411]; //Store GD61411 Value in TMO0			
Object (Name)	Switch	Object ID *1	10009
Script user ID	2		
Data type	Unsigned BIN16	Trigger type	Rise/Fall GD61411.b1
[0-100:u32:TMO0] = [w:GD61411]; //Store GD61411 Value in TMO0			

Object (Name)	Switch	Object ID *1	10010
Script user ID	3		
Data type	Unsigned BIN16	Trigger type	Rise/Fall GD61411.b2
[0-100:u32:TMO0] = [w:GD61411]; //Store GD61411 Value in TMO0			
Object (Name)	Switch	Object ID *1	10011
Script user ID	4		
Data type	Unsigned BIN16	Trigger type	Rise/Fall GD61411.b3
[0-100:u32:TMO0] = [w:GD61411]; //Store GD61411 Value in TMO0			
Object (Name)	Switch	Object ID *1	10012
Script user ID	5		
Data type	Unsigned BIN16	Trigger type	Rise/Fall GD61411.b4
[0-100:u32:TMO0] = [w:GD61411]; //Store GD61411 Value in TMO0			
Object (Name)	Switch	Object ID *1	10013
Script user ID	6		
Data type	Unsigned BIN16	Trigger type	Rise/Fall GD61411.b5
[0-100:u32:TMO0] = [w:GD61411]; //Store GD61411 Value in TMO0			
Object (Name)	Switch	Object ID *1	10014
Script user ID	7		
Data type	Unsigned BIN16	Trigger type	Rise/Fall GD61411.b6
[0-100:u32:TMO0] = [w:GD61411]; //Store GD61411 Value in TMO0			

#### Base screen 30500

Object	Switch	Object ID *1	20027
Script user ID	1		
Data type	Unsigned BIN16	Trigger type	Device Writing
<pre>//Prevents exceeding the total number of the document pages. if([u16:GD60081] &gt;= [u16:GD60082]){     [u16:GD60081] = [u16:GD60082] - 1; }</pre>			

#### Window screen 30003

Object	Numerical display	Object ID *1	10018
Script user ID	1		
Data type	Unsigned BIN16	Trigger type	Rise, GB40
<pre>//Obtain Today's Year &amp; Month from Clock Data [w:TMP950] = [w:GS650] &amp; 0xF000; //Obtain Tenths Digit of "Last 2-Digits of Year" from Clock Data for Setting [w:TMP960] = [w:TMP950] &gt;&gt; 12; //Decimal Alignment [w:TMP968] = [w:TMP960] * 10; //BCD-&gt;BIN [w:TMP951] = [w:GS650] &amp; 0x0F00; //Obtain Ones Digit of "Last 2-Digits of Year" from Clock Data for Setting [w:TMP961] = [w:TMP951] &gt;&gt; 8; //BCD-&gt;BIN [w:TMP973] = 2000 + [w:TMP968] + [w:TMP961]; //Set Year to TMP973 as BIN [w:GD63990] = [w:TMP973]; //Set Year  [w:TMP952] = [w:GS650] &amp; 0x00F0; //Obtain Tenths Digit of Month from Clock Data for Setting [w:TMP962] = [w:TMP952] &gt;&gt; 4; //Decimal Alignment [w:TMP969] = [w:TMP962] * 10; //BCD-&gt;BIN [w:TMP953] = [w:GS650] &amp; 0x000F; //Obtain Ones Digit of Month from Clock Data for Setting [w:TMP974] = [w:TMP969] + [w:TMP953]; //Set Month to TMP974 as BIN [w:GD63991] = [w:TMP974]; //Set Month  [w:TMP954] = [w:GS651] &amp; 0xF000; //Obtain Tenths Digit of "Last 2-Digits of Day" from Clock Data for Setting [w:TMP963] = [w:TMP954] &gt;&gt; 12; //Decimal Alignment [w:TMP970] = [w:TMP963] * 10; //BCD-&gt;BIN [w:TMP955] = [w:GS651] &amp; 0x0F00; //Obtain Ones Digit of "Last 2-Digits of Day" from Clock Data for Setting [w:TMP964] = [w:TMP955] &gt;&gt; 8; //BCD-&gt;BIN [w:TMP975] = [w:TMP970] + [w:TMP964]; //Set Day to TMP975 as BIN [w:GD63992] = [w:TMP975]; //Set Day</pre>			

```

[w:TMP956] = [w:GS651] & 0x00F0; //Obtain Tenths Digit of Hour from Clock Data for Setting
[w:TMP965] = [w:TMP956] >> 4; //Decimal Alignment
[w:TMP971] = [w:TMP965] * 10; //BCD->BIN
[w:TMP957] = [w:GS651] & 0x000F; //Obtain Ones Digit of Hour from Clock Data for Setting
[w:TMP976] = [w:TMP971] + [w:TMP957]; //Set Hour to TMP976 as BIN
[w:GD63993] = [w:TMP976]; //Set Hour

[w:TMP958] = [w:GS652] & 0xF000; //Obtain Tenths Digit of "Last 2-Digits of Minute" from Clock Data for Setting
[w:TMP966] = [w:TMP958] >> 12; //Decimal Alignment
[w:TMP972] = [w:TMP966] * 10; //BCD->BIN
[w:TMP959] = [w:GS652] & 0x0F00; //Obtain Ones Digit of "Last 2-Digits of Minute" from Clock Data for Setting
[w:TMP967] = [w:TMP959] >> 8; //BCD->BIN
[w:TMP977] = [w:TMP972] + [w:TMP967]; //Set Minute to TMP977 as BIN
[w:GD63994] = [w:TMP977]; //Set Minute

[w:TMP993] = [w:GS652] & 0x00F0; //Obtain Tenths Digit of Second from Clock Data for Setting
[w:TMP995] = [w:TMP993] >> 4; //Decimal Alignment
[w:TMP996] = [w:TMP995] * 10; //BCD->BIN
[w:TMP994] = [w:GS652] & 0x000F; //Obtain Ones Digit of Second from Clock Data for Setting
[w:TMP978] = [w:TMP996] + [w:TMP994]; //Set Second to TMP978 as BIN
[w:GD63995] = [w:TMP978]; //Set Second

```

Object	Numerical display	Object ID *1	10019
Script user ID	2		
Data type	Unsigned BIN16	Trigger type	Ordinary

//BIN -> BCD Conversion

```

[w:TMP979] = [w:GD63990] - 2000; //Last 2-Digits of Year

```

```

[w:TMP980] = (([w:TMP979] / 10) << 4) + ([w:TMP979] % 10); //Year BIN -> BCD
[w:TMP981] = (([w:GD63991] / 10) << 4) + ([w:GD63991] % 10); //Month BIN -> BCD
[w:TMP982] = (([w:GD63992] / 10) << 4) + ([w:GD63992] % 10); //Day BIN -> BCD
[w:TMP983] = (([w:GD63993] / 10) << 4) + ([w:GD63993] % 10); //Hour BIN -> BCD
[w:TMP984] = (([w:GD63994] / 10) << 4) + ([w:GD63994] % 10); //Minute BIN -> BCD
[w:TMP985] = (([w:GD63995] / 10) << 4) + ([w:GD63995] % 10); //Second BIN -> BCD

```

Object	Numerical display	Object ID *1	10020
Script user ID	3		
Data type	Unsigned BIN16	Trigger type	Ordinary

//Year & Month Setting

```

[w:GS513] = ([w:TMP980] << 8) + [w:TMP981]; //Set Year & Month to Change Time Device

```

Object	Numerical display	Object ID *1	10021
Script user ID	4		
Data type	Unsigned BIN16	Trigger type	Ordinary

//Date & Time Setting

```

[w:GS514] = ([w:TMP982] << 8) + [w:TMP983]; //Set Date & Time to Change Time Device

```

Object	Numerical display	Object ID *1	10022
Script user ID	5		
Data type	Unsigned BIN16	Trigger type	Ordinary

//Minute & Second Setting

```

[w:GS515] = ([w:TMP984] << 8) + [w:TMP985]; //Set Minute & Second to Change Time Device

```



Object	Numerical display	Object ID *1	10023
Script user ID	6		
Data type	Unsigned BIN16	Trigger type	Ordinary
<pre>//Day of Week Setting  [w:TMP986] = [w:GD63990]; //Year (BIN) [w:TMP987] = [w:GD63991]; //Month (BIN) [w:TMP988] = [w:GD63992]; //Day (BIN)  if(([w:TMP987] == 1)    ([w:TMP987] == 2)){ //Correction Processing to Calculate January and February as 13th/14th Month     [w:TMP986] = [w:TMP986] - 1; //Subtract 1 from Year     [w:TMP987] = [w:TMP987] + 12; //Add 12 to Month }  [w:TMP989] = [w:TMP986]/4; //Create Items Required for Zeller's Congruence [w:TMP990] = [w:TMP986]/100; //Create Items Required for Zeller's Congruence [w:TMP991] = [w:TMP986]/400; //Create Items Required for Zeller's Congruence [w:TMP992] = (13*[w:TMP987]+8)/5; //Create Items Required for Zeller's Congruence  //Calculate Day of Week Using Zeller's Congruence and Set the Day to Change Time Device [w:GS516] = ([w:TMP986]+[w:TMP989]-[w:TMP990]+[w:TMP991]+[w:TMP992]+[w:TMP988])%7;</pre>			

\*1 The Object ID might be changed when a screen is utilized.

## 6. MANUAL DISPLAY

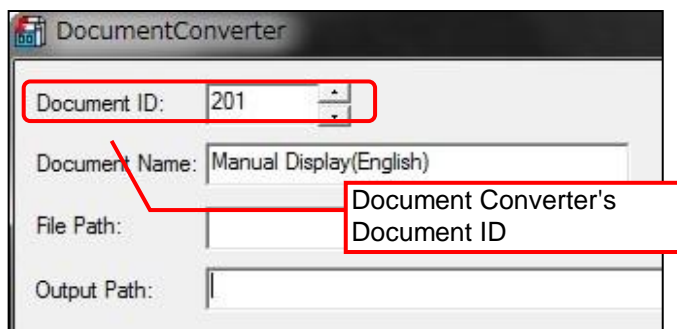
Manuals can be displayed using the document display function. For more details about the document display function, please refer to the "GT Designer3 (GOT2000) Help". Please note that the document display function does not support language switching. Therefore, in the sample screens, the language of document is switched by switching the document (Document ID) specified for a display language.

### 6.1 Preparing Document Data for Manual Display

Example Displaying a English manual (document) for Manual Display on the base screen B-30500

(1) Convert the manual (Word or Excel, etc.) to be displayed into the document data (JPEG file) that can be used with the document display function by using Document Converter. Set the Document Converter's [Document ID] to 201.

\*For details of the relation between Document ID and Display language, please refer to the table below.

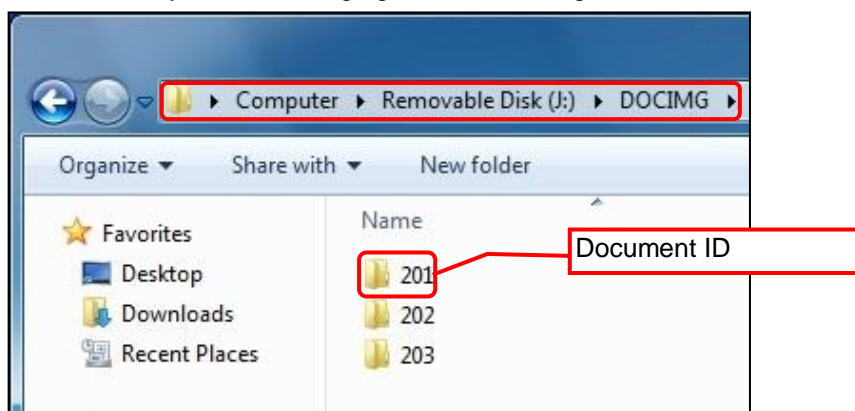


Column No. of the comment group No	Language	Document ID
1	English	201
2	Japanese	202
3	Chinese (Simplified)	203

\*Please use Document Converter 2.09k or later.

The total number pages and pages switches cannot work properly with 2.08 or older versions.

(2) The document data is generated in the 201 folder in the DOCIMG. Save the entire DOCIMG folder into the SD card root directory without changing the folder configuration inside the DOCIMG folder.



SD card folder configuration

Note: In case the total number of pages is 100 or more.

This sample is made with the assumption that the total number of pages is up to 99 pages. If it exceeds 99 pages, please modify the format of numerical input (the number of "#") that displays the total number of pages and the page number of the currently displayed page.