**Heating - side proportioning cycle setting screen**

Setting range: 1 to 100 second

Setting prior to factory shipment: 2

*Setting will be invalid in ON/OFF action.

**Cooling - side proportioning cycle setting screen**

Setting range: 1 to 100 second

Setting prior to factory shipment: 2

*Setting will be invalid in ON/OFF action or heating action.

**Heater Break Alarm setting screen**

Setting range: 0.0 to 100.0 A (CTL - 12 - S56 - 10L - N)

0.0 to 30.0 A (CTL - 6 - P - N)

Setting prior to factory shipment: 0.0

**PV bias setting screen**

Setting range: -5.00 to +5.00%

Setting prior to factory shipment: 0.00
Output monitoring time setting screen

Setting range: 0 to 1440 minute

Setting prior to factory shipment: 60

*No simultaneous setting is available.
4.4.4 Operation mode screen

The Operation mode screen is used to select or specify the operation mode (condition).
On the Operation mode screen, the screen display items can be selected for each parameter.
For the setting method, see "1.10 Display lock level setting screen" in the Supplementary Manual for OPL initialize/controller initialize.

■ Calling procedure

F2: Pressing the F2 switch
F3: Pressing the F3 switch
F4: Pressing the F4 switch
MENU: Pressing the MENU switch
PARA: Pressing the PARA switch
*: The simultaneous setting is enabled.
Display details

Operation mode menu screen

**F2 switch (≡), F3 switch (≡)**
Any item which is to be called up can be selected.

**F4 switch (Open)**
If this switch is pressed after selecting the item, a screen for setting the selected item is displayed.

**Item display**
Pressing the F2 or F3 switch selects the set item in this section.

Each operation mode screen

Each operation mode screen is shown below.

**Channel No. or name display**

**F1 switch (U1)**
Every time this switch is pressed, the unit (REX-B850) display is selected.

**F2 switch (CH)**
Every time this switch is pressed, the channel Nos. currently displayed change in steps of 1, 2, 4 or 8 channels.

**F4 switch (Set.)**
Pressing this switch changes to the following screen.

**PARA switch**
Every time this switch is pressed, each item changes.

**Setting display**

**F4 switch (ENT)**
Pressing this switch can save the set item. This switch can also move the set item between channels.

**F2 switch (≡), F3 switch (≡)**
Every time this switch is pressed, each item changes.
Setting procedure

Method of changing the mode (Example: PID/AT transfer screen)

1. Select any time which is to be set, then press the F4 switch (Open).
   A screen to set the selected item is displayed.

2. Select the desired unit by pressing the F1 switch (U1), also select the desired channel by pressing the F2 switch (CH), then press the F4 switch (Set) to display the setting change screen.

3. Press the F4 switch (ENT) to move the cursor to the channel line to be changed. Every time the F4 switch (ENT) is pressed once, the cursor moves.

4. Change the data by pressing the F2 (=) or F3 (→) switch, then save it by pressing the F4 (ENT) switch.
   After it is saved, press the MENU switch to return to the setting screen.
   * When "PID" is changed to "AT".
   After the auto-tuning (AT) function is activated, the mode display of each channel returns to "PID" automatically.

NOTES

- When "Computer mode" is selected in computer/local selection, switches other than screen selection related switches cannot be operated on the setting screen.

- If the number of REX-B850 used is 1, the unit No. select switch (F1 switch) is invalid.
Simultaneous setting procedures

(Example: Operation mode change screen)

1. Select any unit which is to be simultaneously set by pressing the F1 switch (U1), then press the F4 switch (Set.).

2. Pressing the hidden switch A once changes the CH display at the top left to ALL.

3. Select the mode in which simultaneous setting is to be made by pressing the F2(←) or F3(→) switch, then press the F4 switch (ENT). The selected mode is saved. As a result, all the channels of the selected unit are set to the mode thus set.

   - Save completed — The cursor moves to the next channel automatically.
   - Save suspended — The current display returns to the mode display before saving the mode.

   (The cursor position remains unchanged.)
NOTES

- When "Computer mode" is selected in computer/local selection, switches other than screen selection related switches cannot be operated on the setting screen.

- If the number of REX-B850 used is 1, the unit No. select switch (F1 switch) is invalid.

- The following setting items cannot be simultaneously set.
  - PID/AT transfer
  - Alarm interlock release
  - Control Run/Stop
  - Memory area transfer
  - Event function selection

- To suspend simultaneous setting, press the hidden switch A to change "ALL" to "CH".
Each operation mode screen

**PID/AT transfer screen**

This screen is used in executing AT (Auto-tuning) from PID (PID control) or in stopping AT and changing to PID.

![PID/AT transfer screen diagram](image)

- Setting: PID (PID control), AT (Auto-tuning)
- Setting prior to factory shipment: PID

* If the auto-tuning function is activated "AT" is displayed in the status display section of the operation monitoring screen (1CH display).

**<The conditions of auto-tuning>**

Auto-tuning (AT) is the function which automatically measures, calculates and sets the optimum PID constants according to the set temperature. Following are the conditions necessary to carry out auto-tuning and the conditions which will cause the auto-tuning to stop.

**Conditions necessary for auto-tuning:**

The auto-tuning should be executed after satisfying all of the following conditions:

- **Operation mode conditions:**
  - PID/AT transfer: PID mode
  - Control Run/Stop: Control RUN mode
- **The input value should not be abnormal. (According to the input error trigger point)**
- **When operation mode is set to "Normal".**

When the auto-tuning is finished, the mode display of each channel will automatically return to show "PID".
Conditions of suspending the auto-tuning:

**CAUTION**

If the following conditions of suspending the auto-tuning function are established, the function is immediately suspended and changed to PID (PID control) mode. The PID constants at that time become those before the auto-tuning function was activated.

- When the set-value (SV) is changed.
- When the memory area is changed.
- When the PV bias value is changed.
- When the input value becomes an underscale or overscale display.
- When the power is cut off.
- When a FAIL occurs in the module whose channel is under the auto-tuning.
  Otherwise, when a FAIL occurs in the PCP module.
- When transfer to the PID mode by the PID/AT transfer.
- When operation mode is set to "Normal".
- When the Control Run/Stop function is changed to the "Control Stop" function.
**Operation mode change screen (Temperature control function selection)**

This screen is used to select the operation conditions for each channel. (The simultaneous setting is enabled.)

<table>
<thead>
<tr>
<th>CH</th>
<th>Open Mode</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Moni</td>
</tr>
<tr>
<td>2</td>
<td>Moni</td>
</tr>
<tr>
<td>3</td>
<td>Moni</td>
</tr>
<tr>
<td>4</td>
<td>Moni</td>
</tr>
</tbody>
</table>

**Unused:**

If set to "Unused", both control and alarm outputs are turned off.
Use this mode when conducting module replacement or device maintenance or inspection.

**Monitoring (Moni.):**

If set to "Moni.", only the monitoring action is performed (measured-value (PV) capture).
No control or alarm monitoring is performed.
Use this mode when stopping equipment operation temporarily.

**Reverse action (Rev.):**

If set to "Rev.", monitoring or alarm monitoring is performed. No control is performed.
Use this mode when stopping equipment operation temporarily.

**Direct action (Dir.):**

Control, monitoring and alarm monitoring are performed.

Setting : Unused, Moni., Rev. or Dir.

Setting prior to factory shipment : Rev.
Control response designation parameter screen

This screen is used to specify the response to a temperature setting change in PID control. (The simultaneous setting is enabled.)

<table>
<thead>
<tr>
<th>CH</th>
<th>Response</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Fast</td>
</tr>
<tr>
<td>2</td>
<td>Fast</td>
</tr>
<tr>
<td>3</td>
<td>Fast</td>
</tr>
<tr>
<td>4</td>
<td>Fast</td>
</tr>
</tbody>
</table>

Setting: Slow, Medium or Fast
Setting prior to factory shipment: Fast

<Control response designation parameter>

This is the function of enabling the setting of response to set-value (SV) change in select any one of 3 steps (Slow, Medium, Fast) in PID control. In order to achieve faster controlled object response to set-value (SV) change, select Fast. However, slight overshoot is unavoidable when selecting Fast. Depending on the controlled object, specify Slow if overshoot should be avoided.

Fig. Example of control response designation parameter at set-value (SV) change
Control Run/Stop screen

This screen is used to change the Control Run/Stop.

Setting: Run (control run)  
Stop (control stop)

Setting prior to factory shipment: Run

* This item is set for each REX - B850.

NOTE

If control is turned to "Stop", both control and alarm outputs are turned off.
Memory area transfer screen

This screen is used to set the memory area No. used for control.

Setting: 1 to 8
Setting prior to factory shipment: 1

* This item is set for each REX-B850.

Message display showing that the area is selected.

NOTES

- In order to select the desired memory area No., it is necessary to store data corresponding to up to 8 memories, with the following data relating to temperature control set to one memory in advance.
  - Temperature set-value
  - Heating side proportional band
  - Cooling side proportional band
  - Integral time
  - Derivative time
  - Control response parameters
  - First alarm set-value
  - Second alarm set-value
  - Heating side proportioning cycle
  - Cooling side proportioning cycle
  - Heater Break Alarm
  - Overlap/Deadband
  - Operation mode change (Temperature control function selection)

* Differs depending on the REX-B850 specification.

- During a memory-area change, the operation panel reads all of the data stored in the changed area from the REX-B850. During this period, all switch operations are invalid and the message "Please wait." appears on the screen.
Alarm interlock release screen

This screen is used to release the alarm interlock.

Setting: OFF (Alarm interlock release)

* This item is set for each REX - B850.

<Alarm interlock function>

The alarm interlock function is used to hold the alarm state even if the measured value (PV) is out of the alarm area having entered it once.

**NOTE**

If the alarm interlock is released, the display is also automatically turned to 'Normal (ON)'.
### Event function selection

The event function is used to change the operation state of REX- B850 by the external contact output signal. This screen is used to set the desired type of operation item by the external contact output signal.

<table>
<thead>
<tr>
<th>Setting prior to factory shipment: Unused</th>
</tr>
</thead>
</table>

| Setting: Unused, Cont. Stop, Monitor, Mem. Area, AT Start, Run/Stop or Interlock |

| Unused: | Unused |
| Cont. Stop: | Control stop command |
| Monitor: | Event input monitor |
| Mem. Area: | Memory area change command |
| AT Start: | AT start command |
| Run/Stop: | Control run/stop command |
| Interlock: | Interlock release command |

* This item is set for each REX - B850.
4.4.5 Initialize setting screen

The initialize settings screen is used to set the time, scan the operation monitoring screens, and also display or set both data which is not frequently set such as data on the operation panel and commands.

■ Calling procedure

Operation menu screen → F4(Init.) → MENU

F4(Open) → Contrast Adjustment

Contrast Adjustment

Contrast Adj.

Contrast Adj.

F2(↑) or F3(↓)

Screen Scan Setting

Screen Scan Setting

F2(↑) or F3(↓)

Screen saver setting

Scn. Saver Set.

Screen saver setting

F2(↑) or F3(↓)

Para

Para

Computer/Local

Computer/Local

F2(↑) or F3(↓)

Para

Para

Unit/CH Name setting

Unit/CH Name setting

F2(↑) or F3(↓)

Para

Para

Alarm message setting

Alarm message setting

Para

Para

F2: Pressing the F2 switch
F3: Pressing the F3 switch
F4: Pressing the F4 switch
MENU: Pressing the MENU switch
PARA: Pressing the PARA switch

■ Initialize menu screen

This screen allows changing to each of the initialize setting screens.

Item display
Pressing the F2 or F3 switch selects the set item in this section.

F4 switch (Open)
If this switch is pressed after selecting the item, a screen for setting the selected item is displayed.

MENU switch
Returns to Operation menu screen

F2 switch (↑), F3 switch (↓)
Any item which is to be called up can be selected.
■ Contrast Adjustment screen

This screen is used to adjust the contrast of the operation panel display.

<Display details>

* The LCD (Liquid Crystal Display) may be difficult to see depending on the position from which the screen is viewed. In this case, adjust contrast of the screen to improve display clarity.

* The adjusted contrast is registered by pressing the MENU or PARA switch.

* The adjusted contrast is stored if once set even when the power is turned off.
Screen scan setting screen

This screen is used to for the setting of the items concerning the scanning of each screen during operation monitoring is carried out.

<Display details>

Scr.Scan: Setting the ON/OFF of the display screen scanning

No: Screen scanning invalid
Yes: Screen scanning valid

ScanType: Setting the type of screen scanning

Item transfer: Scans the items in the operation monitoring screen
Unit transfer: In using several REX-B850s joined together, the displayed item can be scanned for each REX-B850 separately.

ScanTime: Screen scanning time

1 to 9999 second
<Setting procedure>

1. Setting the ON/OFF of the display screen scanning

1. Press the F2(⫷) or F3(⫷) switch to change the set item.

2. Setting the type of screen scanning

1. Press the F2(⫷) or F3(⫷) switch to change the set item.

3. Screen scanning time

1. Press the F1 switch(⫷) to move the cursor to the digit to which the desired time to be set. Then, press the F2(⫷) or F3 switch(⫷) to set the desired time.

2. Press the F4 switch(ENT) to save the changed set item. After the item is saved, the cursor move to the next set item automatically.

2. Press the F4 switch(ENT) to save the changed set item. After the item is saved, the cursor move to the next set item automatically.

2. Press the F4 switch(ENT) to save the set time. After the time is set, the cursor moves to the first set item automatically.
<Scanning screen flow diagram>

When item changing is selected (Unit designation)

For the displayed REX - B850

(Example : 4 channel display type)

*With two or more REX-B850s connected, if REX-B850 is selected by pressing the F1 switch during screen scanning, the screen showing each item of REX-B850 on the selected side is scanned.

*If the scan function is set when the monitor screen to be displayed is specified, the screens that are set not to be displayed are skipped.
For the presence or absence of display, see "1.10 Display lock level setting screen" in the Supplementary Manual for OPL initialize/controller initialize.

*With two or more REX-B850s connected, each screen on REX-B850 set to Unused is skipped.
For Used/Unused, see "1.4 Unit (REX-B850) Used/Unused setting screen" in the Supplementary Manual for OPL initialize/controller initialize.

When unit changing is selected (Item designation)

For the displayed items

(Example : 4 channel display type)

* If the display item is selected by pressing the PARA switch during screen scanning, REX-B850 is scanned by the selected item. In addition, the monitor screen set to Non-display according to "1.10 Display lock level setting screen" in the Supplementary Manual for OPL initialize/controller initialize, is skipped.

*With two or more REX-B850s connected, each screen on REX-B850 set to Unused is skipped.
For Used/Unused, see "1.4 Unit (REX-B850) Used/Unused setting screen" in the Supplementary Manual for OPL initialize/controller initialize.
Screen saver setting screen

This screen is used to set the function of turning off the display automatically when no key operations are performed for a fixed time.

<Display details>

**Item display**
- Screen Saver Set
  - Screen Saver: No
  - Scr. Saver Time: 5 min

**Setting display**
- F4 switch (ENT)
  - Pressing this switch can save the set item. This switch can also move the set item.

**MENU switch**
- Returns to initialize menu screen.

**F1 switch (←)**
- Every time this switch is pressed once, the cursor moves to the left.

**F2 switch (↑), F3 switch (↓)**
- Every time this switch is pressed, each item changes or the set-value decrements/increments.

**PARA switch**
- Every time this switch is pressed, each item changes or the set-value decrements/increments.

Screen Saver: Setting the presence or absence of screen saver
- No: Screen saver invalid
- Yes: Screen saver valid

Screen saver time
- 1 to 99 minute (Setting prior to factory shipment: 5 min.)
<Setting procedure>

1. Setting the presence or absence of screen saver

1. Press the F2(cej) or F3(cej) switch to change the set item.

2. Press the F4 switch(ENT) to save the changed set item. After the item is saved, the cursor move to the next set item automatically.

2. Screen saver time

1. Press the F1 switch(cej) to move the cursor to the digit to which the desired time is to be set. Then, press the F2(cej) or F3 switch(cej) to set the desired time.

2. Press the F4 switch(ENT) to save the set time. After the time is set, the cursor moves to the first set item automatically.
Computer/Local screen

This screen is used to select whether the settings shall be carried out by a host computer (Computer mode) or by the operation panel (Local mode).

<Display details>

![Diagram showing the display details]

- **Item display**: Shows the current item.
- **Setting display**: Displays the setting options.
- **F4 switch(ENT)**: Pressing this switch can save the set item.
- **PARA switch**: Every time this switch is pressed, each item changes.
- **F2 switch(←), F3 switch(→)**: Every time this switch is pressed, each item changes.

<Setting procedure>

1. Press the F2(←) or F3(→) switch to change the set item.
2. Press the F4 switch(ENT) to save the change set item.

**NOTE**

In the Computer mode, the host computer has priority and none of the operation panel keys concerning the settings are effective. (Except for the setting of Computer/Local.)
Unit/CH (Channel) name setting screen

This screen is used to set the names of control unit and channel shown on the Operation monitoring screen, Setting screen and Operation mode screen.

**CAUTION**

The number of characters that can be set as the channel name is 5 characters.

<Flow diagram of the unit/channel name setting screen>

<Display details>

Unit/CH number setting screen

This screen is used to specify the unit (REX-B850) and the channel to be set or changed the name. It is also used to check what names are set.

- **Item display**
- **Unit No. and channel No. display**
- **MENU switch** Returns to Initialize menu screen.
- **F1 switch(≡). F2 switch(≡)** Used to change the unit and channel No.
- **F3 switch(ENT)** Used to save and change the unit and channel.
- **F4 switch(Set.)** If this switch is pressed, the current changes to the name setting screen.
- **PARA switch** Every time this switch is pressed, each item changes.
Details of Unit/channel No. setting screen

**Unit No.:**
Selects the desired Unit whose channel name needs to be registered from among 1 to 16 Units, max.

**Channel (CH) No.:**
Selects the desired channel No. whose CH name needs to be registered from among 1 to 8 CH.

**Unit No.:**
Each Unit No. corresponds to the device address set in the REX-B850 mainframe. For example, Unit No.U1 displayed on the screen corresponds to REX-B850 with device address No.00.
Select the desired Unit No. by referring to the following table.

<table>
<thead>
<tr>
<th>Display</th>
<th>Unit No.</th>
<th>Device address</th>
<th>Function switch 2 (SW102) setting</th>
</tr>
</thead>
<tbody>
<tr>
<td>U 1</td>
<td>Unit No. 1</td>
<td>Device address 00</td>
<td>0</td>
</tr>
<tr>
<td>U 2</td>
<td>Unit No. 2</td>
<td>Device address 01</td>
<td>1</td>
</tr>
<tr>
<td>U 3</td>
<td>Unit No. 3</td>
<td>Device address 02</td>
<td>2</td>
</tr>
<tr>
<td>U 4</td>
<td>Unit No. 4</td>
<td>Device address 03</td>
<td>3</td>
</tr>
<tr>
<td>U 5</td>
<td>Unit No. 5</td>
<td>Device address 04</td>
<td>4</td>
</tr>
<tr>
<td>U 6</td>
<td>Unit No. 6</td>
<td>Device address 05</td>
<td>5</td>
</tr>
<tr>
<td>U 7</td>
<td>Unit No. 7</td>
<td>Device address 06</td>
<td>6</td>
</tr>
<tr>
<td>U 8</td>
<td>Unit No. 8</td>
<td>Device address 07</td>
<td>7</td>
</tr>
<tr>
<td>U 9</td>
<td>Unit No. 9</td>
<td>Device address 08</td>
<td>8</td>
</tr>
<tr>
<td>U 1 0</td>
<td>Unit No. 10</td>
<td>Device address 09</td>
<td>9</td>
</tr>
<tr>
<td>U 1 1</td>
<td>Unit No. 11</td>
<td>Device address 10</td>
<td>A</td>
</tr>
<tr>
<td>U 1 2</td>
<td>Unit No. 12</td>
<td>Device address 11</td>
<td>B</td>
</tr>
<tr>
<td>U 1 3</td>
<td>Unit No. 13</td>
<td>Device address 12</td>
<td>C</td>
</tr>
<tr>
<td>U 1 4</td>
<td>Unit No. 14</td>
<td>Device address 13</td>
<td>D</td>
</tr>
<tr>
<td>U 1 5</td>
<td>Unit No. 15</td>
<td>Device address 14</td>
<td>E</td>
</tr>
<tr>
<td>U 1 6</td>
<td>Unit No. 16</td>
<td>Device address 15</td>
<td>F</td>
</tr>
</tbody>
</table>

**NOTE**
Numerals (1,2, ...) are set in the channel name column prior to factory shipment.
**CH name setting screen**

This screen is used to set or change the names of the channel.

- **Channel No.**
- **Channel name**
- **MENU switch**
  Used to save the channel name or to return the current screen to the unit/channel No. setting screen.
- **Hidden switch**
  Used to display the history of the name set before change.
- **F1 switch (←), F2 switch (→)**
  Selection of character.
- **F3 switch (BS)**
  Back space switch
- **Character select screen number**
- **Character select screen**
- **F4 switch (ENT)**
  Used to save the character and to move the cursor.
- **PARA switch**
  Used to select the character selection screen.

**Character select screen:**

- **C 1: Char. 1**
- **C 1: Char. 2**
- **C 1: Char. 3**
- **C 1: Char. 4**
<Setting procedure>

To set the 'T' character in setting the name of unit 1 as "Tmp02".

1. Press the F1 (⎉) or F2 switch (⎊) to select the unit No. whose channel No. is to be changed.

2. Press the F3 switch (ENT) to save the unit No. After the unit No. is saved, the cursor moves to the channel No. Set and save the channel No. in the same way as Step 1.

3. After the unit and channel Nos. are set, press the F4 switch (Set.) to display the channel name setting screen. If the above procedure is performed incorrectly, repeat again from Step 1.

4. Select the character selection screen to be set by pressing the PARA switch.

5. Press the F3 switch (BS) to move the cursor, then select the character by pressing the F1 or F2 switch.

6. After the character is selected, press the F4 switch (ENT) to save the character. If a wrong character is selected by mistake, press the F3 switch (BS) to delete it. Thereafter, select and save the desired character one by one in turn.
<For the history (Hidden switch A)>

When the settings of similar names continue, this switch is used to input the previously input name directly and used for the setting.

**CAUTION**

When the channel name is registered for the first time or the power for OPL-B is turned on again, the channel name is not stored as a past record. Therefore, if the Record Switch (hidden switch A) is pressed in this state, the displayed channel name is erased.

Channel 2 name setting screen

After setting channel 1 as "Tmp01", if channel 2 is to be set as "Tmp02", press the hidden switch A on the channel 2 name setting screen. The previously set "Tmp01" characters can be directly input into the name area. Then press the [F3] switch (BS) to delete just the character "1", and input and set the character "2".

When the settings are entered wrongly or when the entered values are to be changed:

[F3] switch (BS) : Each time this switch is pressed, the last character of the name will be deleted one by one.

**NOTES**

- When entering names, the use of "----" etc. for unused channel names is convenient to make the screen display clearer.
- The channel name whose history is stored is cleared when the power supply is turned off.
■ Alarm message setting screen

This screen is used to set alarm messages to inform the operator of alarms occurring during monitoring.

**CAUTION**

The number of characters that can be set as the alarm message is 16 characters.

*Flow diagram of the alarm message setting screen*

- Initialize menu screen
  - "ALM message Set." item

  - F4(Open)

- Alarm message selection screen

  - F4(Set.)

- Alarm message setting screen

  - MENU
<Display details>

Alarm message selection screen

On this screen, alarm message screen display/no-display can be selected while an alarm occurs. The message alarm to be changed can also be selected.

**ALM Jump:** Alarm message screen display/no-display selection
- **Enable:** Alarm message screen display while an alarm occurs.
- **Disable:** Alarm message screen no-display while an alarm occurs.

**ALM Sel.:** Alarm type selection
- **BO:** Burnout alarm
- **HBA:** Heater break alarm
- **ALM1:** First alarm
- **ALM2:** Second alarm
Alarm message setting screen

This screen is used to set and change the alarm message.

- **Type of alarm display**
- **Alarm message display**
- **MENU switch**
  Used to save the alarm message and to return the current screen to the alarm message selection screen.
- **Hidden switch A**
  Used to display the history of the alarm message set before change.
- **F1 switch(←), F2 switch(→)**
  Selection of character.
- **F3 switch(BS)**
  Back space switch
- **Character select screen number**
- **Character select screen**
- **F4 switch(ENT)**
  Used to save the character and to move the cursor.
- **PARA switch**
  Used to select the character selection screen.

### List of alarm display message (Default values)

<table>
<thead>
<tr>
<th>Type of alarm</th>
<th>Details of display</th>
<th>Details of alarm message</th>
</tr>
</thead>
<tbody>
<tr>
<td>BO</td>
<td>BO is &quot;ON&quot;</td>
<td>Burnout alarm occurs</td>
</tr>
<tr>
<td>HBA</td>
<td>HBA is &quot;ON&quot;</td>
<td>Heater break alarm occurs</td>
</tr>
<tr>
<td>ALM1</td>
<td>ALM1 is &quot;ON&quot;</td>
<td>First alarm occurs</td>
</tr>
<tr>
<td>ALM2</td>
<td>ALM2 is &quot;ON&quot;</td>
<td>Second alarm occurs</td>
</tr>
</tbody>
</table>

* The types of character selection screen are the same as those of the channel name setting screen.

**Setting procedure**

1. **Alarm message screen display/no--display selection**

   1. Press the F2(←) or F3(→) switch to change the set item.
   2. Press the F4 switch(ENT) to save the change set item. After the item is saved, the cursor move to the next set item automatically.
2. Alarm message setting

When characters "BO is ON" of burnout (BO) are set to "BO 1".

1. Press the F3 switch (ENT) to move the item. The cursor moves to the type of alarm.

2. Press the F1(=) or F2 switch (≡) to select the alarm message. Then, press the F3 switch (ENT).

3. After the alarm is selected, press the F4 switch (Set) to display the alarm message setting screen.

4. Select the character selection screen to be set by pressing the PARA switch.

5. Press the F3 switch (BS) to move the cursor, then select the character by pressing the F1 or F2 switch.

6. After the character is selected, press the F4 switch (ENT) to save the character. If a wrong character is selected by mistake, press the F3 switch (BS) to delete it. Thereafter, select and save the desired character one by one in turn.

* When the settings of similar alarm message continue, this switch is used to input the previously input alarm message directly and used for the setting.
For details on the history (hidden switch), see "For the history (Hidden switch)" (P. 4–58).
4.4.6 Alarm message screen

This screen is automatically displayed when an alarm occurs in any used channel during monitoring on the operation monitor screen.

<Display details>

![Diagram of alarm message screen]

**MENU switch**
Pressing this switch returns to the screen displayed just before the alarm message screen.

**Displayed messages**

<table>
<thead>
<tr>
<th>No.</th>
<th>Item</th>
<th>Message</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Burnout</td>
<td>BO is &quot;ON&quot;</td>
</tr>
<tr>
<td>2</td>
<td>Heater break alarm</td>
<td>HBA is &quot;ON&quot;</td>
</tr>
<tr>
<td>3</td>
<td>Alarm 1 (First alarm)</td>
<td>ALM 1 is &quot;ON&quot;</td>
</tr>
<tr>
<td>4</td>
<td>Alarm 2 (Second alarm)</td>
<td>ALM 2 is &quot;ON&quot;</td>
</tr>
</tbody>
</table>

*If two or more types of alarms occur simultaneously, the alarm message of higher priority is displayed. For example, if the burnout and 1st alarms occur simultaneously, the burnout alarm message is displayed.

*Alarm messages or alarm message screen display/non-display can be changed. For details, see "4.4.5 Initialize setting screen" (P. 4-46).
NOTES

- Pressing the F4 switch (Jump) changes to the monitor screen of the currently occurring alarm. Therefore, REX-B850 and the channel No. where the alarm is occurring can be checked.
  When the burnout or heater break alarm occurs
  BO/HBA of the operation monitoring screen is displayed.
  When the 1st or 2nd alarm occurs
  ALM1/ALM2 of the operation monitoring screen is displayed.
* If the operation monitoring screen when an alarm occurs is of the 8-channel display type, the alarm screen of the 1-channel display type is displayed. For the 1, 2 or 4-channel display type, the alarm screen of the same display type is shown.

- Upon recovery from the alarm state, the present screen is automatically returned to the screen displayed before the alarm occurred.
4.4.7 Error message screen

This screen is automatically displayed on the occurrence of an error in the REX-B850, operation panel main unit or communications.

<Display details>

![Error display diagram]

**MENU switch**
Pressing this switch returns to the screen displayed just before the error message screen. This switch is valid when FAIL lamp does not light.

### NOTES

- For the REX-B850 in which an error occurs, the unit No. which becomes error is also displayed.

- Using the MENU switch, the previous screen just before the error can be displayed.
  (If the error will occur when the power was turned on, the screen will return to the Operation monitoring screen.)
  However, when the FAIL lamp on the operation panel is lit, the resetting can not be called out.

- When the error state is eliminated, the current screen automatically returns to the screen displayed before the error was produced.
MEMO