

# **NEC**

**MultiSync XG85RP/XG85RPW  
MultiSync XG135RP**

**Large Screen MultiSync Rear Projection System  
Set-Up Manual**

**Model Number:  
XG-852C/XG-1352C**

The projector must be assembled by qualified installation technicians.



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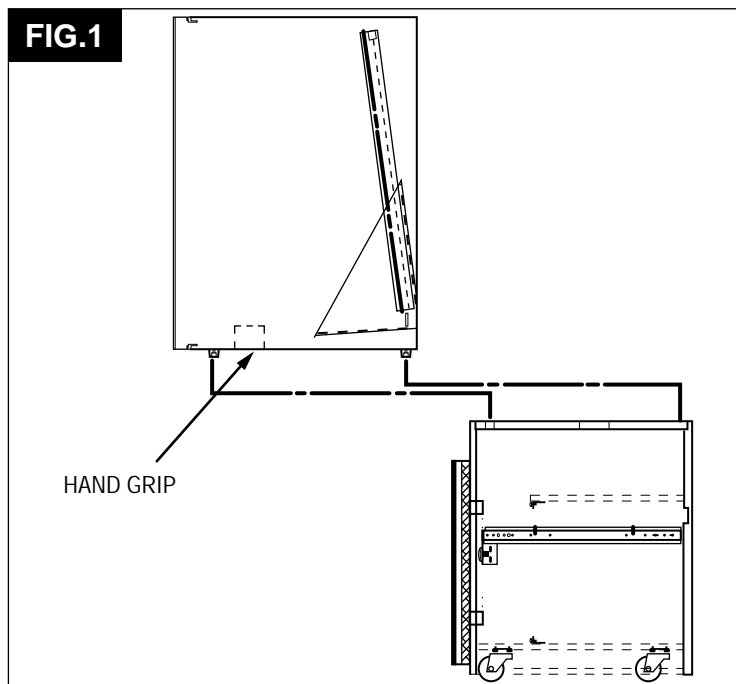
# INSTALLATION

## Assembly Instructions

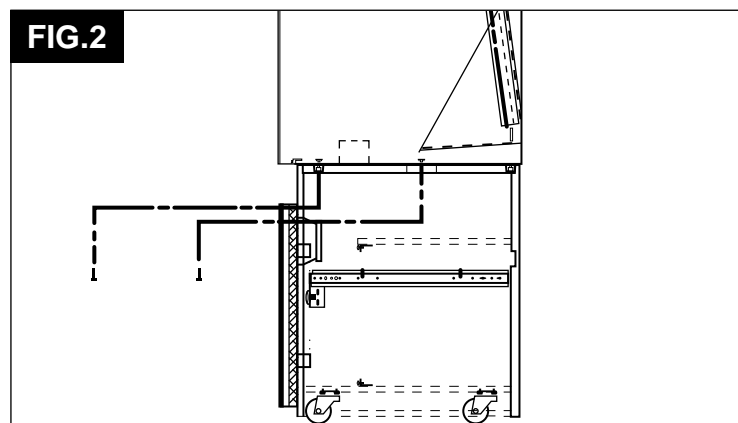
**NOTE:** Tools Needed for Installation: One 7/16 open end or box end wrench. Note: Ratchet and sockets can be substituted for the above wrenches.

**STEP 1.** After uncrating both upper and lower cabinets roll the Lower Cabinet into a position which allows ample working space around the cabinet.

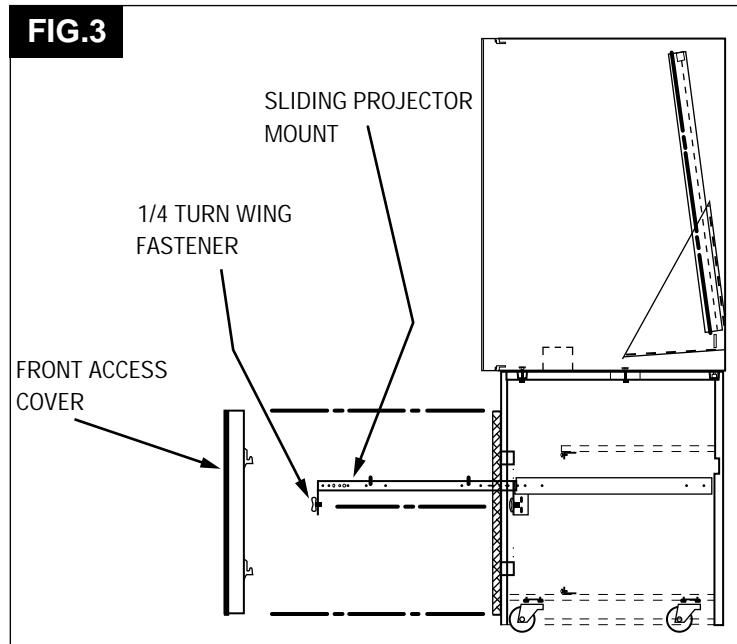
**STEP 2.** (Refer to Fig.1) Before lifting the Upper Cabinet test the weight by lifting one side slightly off the floor. With a minimum of two people (four may be required) and with one hand firmly in Hand Grip and the other under the rear side of cabinet lift and place upon lower cabinet. (NOTE: Align plastic feet with the two round holes in top of lower cabinet.)



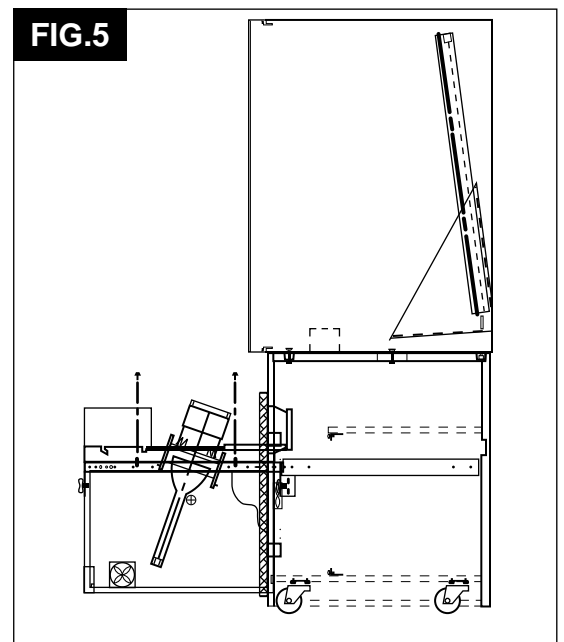
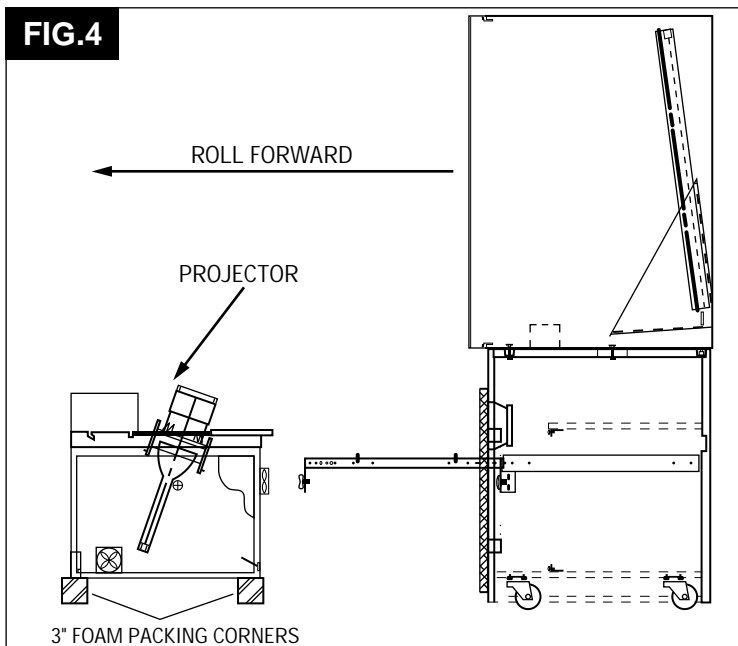
**STEP 3.** (Refer to Fig.2) For more structural security bolt the Upper Cabinet to the Lower Cabinet with 4 ea. 1/4 x 1 1/2 hex bolts and washers (provided). (NOTE: Access fastening locations through Front Access Cover and Hinged Side Grills in lower cabinet see Fig. 3&7)



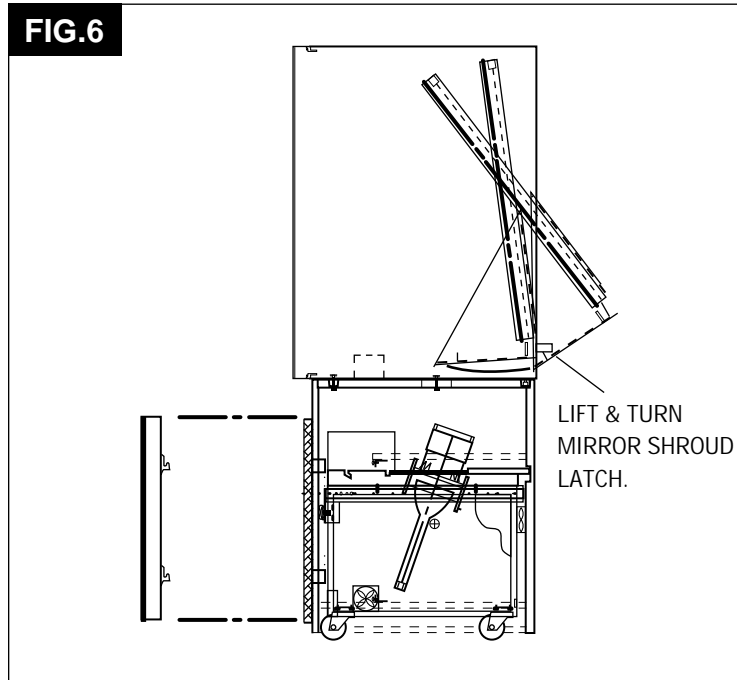
- STEP 4. (Refer to Fig.3) Remove Front Access Cover by grasping at top and bottom and pulling with quick firm pressure.
- Loosen the two 1/4 Turn Wing Fasteners and extend the two Sliding Projector Mounts.



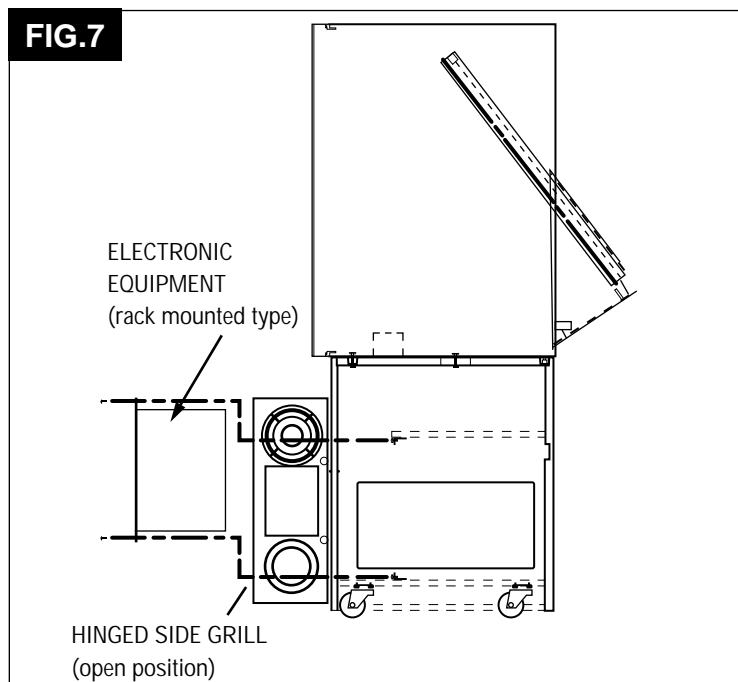
- STEP 5. (Refer to Fig.4) Set projector on four 3" foam packing corners or suitable blocks and roll cabinet forward until mounting holes on projector are in line with those of the Sliding Projector Mount.
- (Refer to Fig.5) Remove blocks so that projector rests on Sliding Projector Mount. Then bolt projector to mounts with 1/4 bolts and washers (provided).
  - Slide projector into cabinet and re-fasten 1/4 Turn Wing Fasteners.



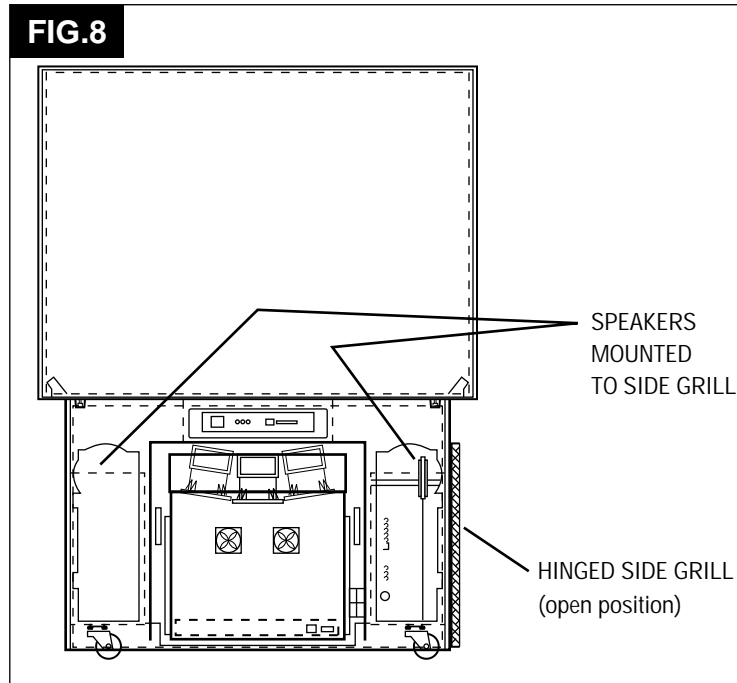
- STEP 6. (Refer to Fig.6) Unlatch the two Lift & Turn latches at the rear of the Upper Cabinet and pivot the Mirror Shroud all the way out.
- With the Mirror Shroud held at the maximum out position, re-latch the Lift & Turn latches.



- STEP 7. (Refer to Fig.7) Attach auxiliary Electronic Equipment (optional) to the Rack Mount Rails located behind the Hinged Side Grills.



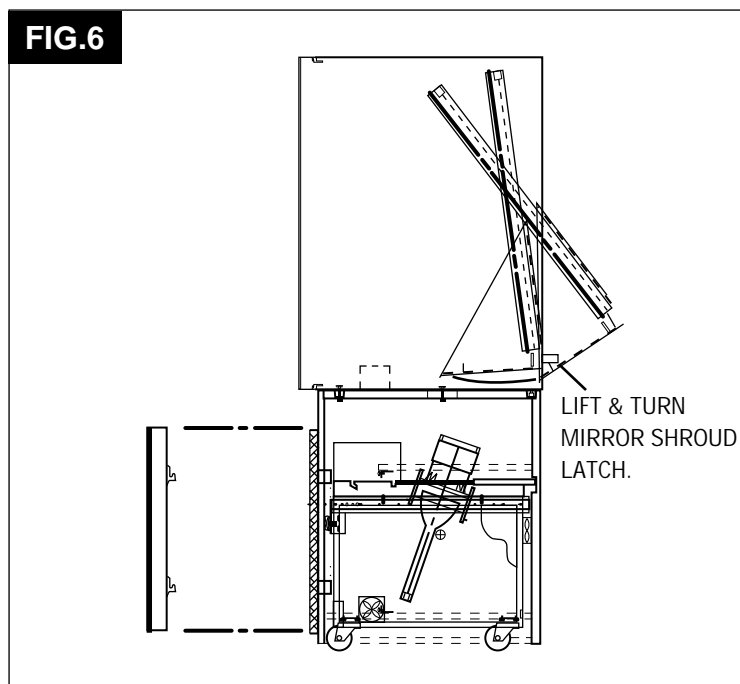
STEP 8. (Refer to Fig.8) Attach Speakers to the inside of the Hinged Side Grills with 8-32 x 3/4 pan head machine screws.



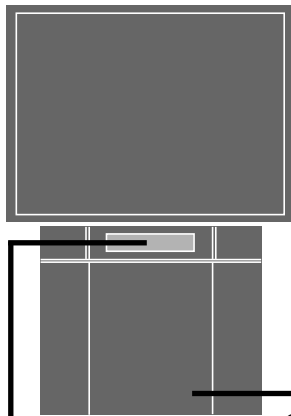
STEP 9. Plug Projector Power Cord directly into the Projector at lower rear of Projection Cabinet.

- Run system cables through cable Grommet located at the lower rear of the Projection Cabinet. Note: Computer cables can be connected directly to the front of the projector.

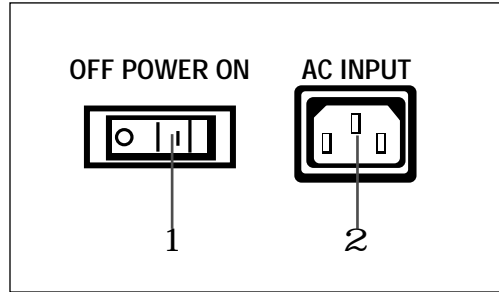
STEP10. (Refer to Fig.6) Replace Front Access Cover by aligning with the Slide Grills and pushing with gentle pressure until catches engage.



# ▨ PART NAMES AND FUNCTIONS

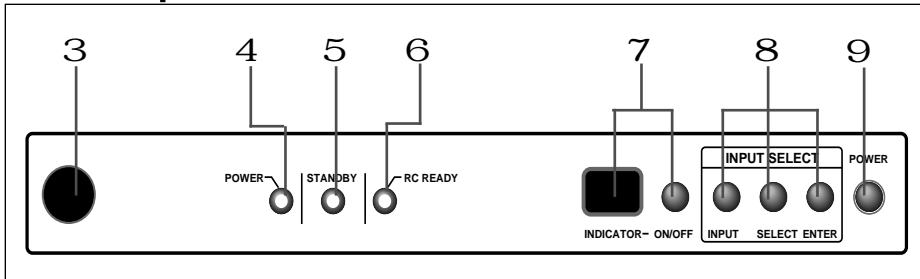


## Rear

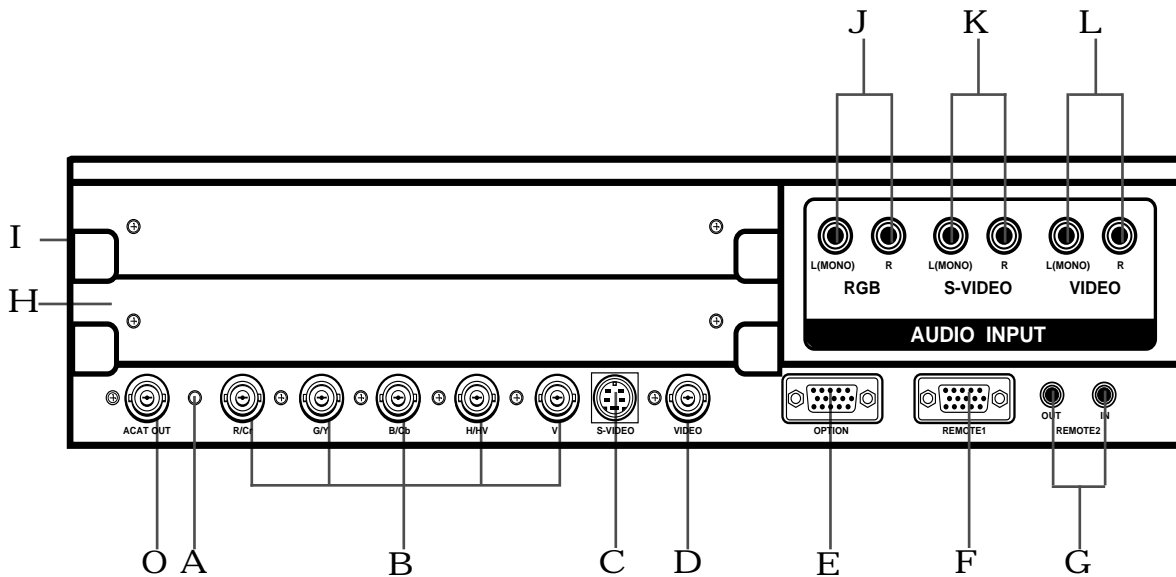


Open the front access cover to access the terminal panel. To remove the front access cover, grasp at top and bottom, and pull with quick firm pressure.

## Front



## Terminal Panel



## Rear Panel

**1 Power Switch (Main power)**

To turn on the main power to the projector press the switch to the ON position (I). The STANDBY and the RC READY indicator will light.

In this condition you can start up the projector by pressing the POWER ON button on the remote control or the POWER button on the rear panel.

Press to the OFF position (O) to turn the main power off.

**NOTE:** When turning off the main power, first return the projector to the standby condition by pressing the POWER OFF button on the remote control or the POWER button on the rear panel and then turn off the main POWER switch. These procedures are necessary to protect your projector and the connected equipment.

**2 AC INPUT**

Connect the supplied power cord here.

## Front Panel

**3 Remote Sensor**

Receives the signal from the supplied remote control when used in the wireless mode.

**4 POWER Indicator**

Lights up when the projector is turned on.

**5 STANDBY Indicator**

Lights up when the projector's main POWER switch is on. Flashes when the projector is not connected with the Switcher correctly or when the Switcher is turned off.

**6 RC READY Indicator**

Lights up when the projector's main POWER switch is on. Flashes when the projector receives a signal from the remote control.

**7 Two Digit Display INDICATOR:**

Displays projector error codes. ("00" in normal operation)

**ON/OFF Switch:**

Turns the INDICATOR on or off.

**8 INPUT SELECT Buttons**

**INPUT:** press to display the INPUT SELECT screen.

**SELECT:** press to select an input by highlighting the input terminal.

**ENTER:** press to execute selection and to switch input.

**9 POWER Button**

Turns the projector on or off when the projector is in the standby condition (Main Power switch must be on and the STANDBY and the RC READY indicator lit).

**0 ACAT OUT Terminal**

This is a video output connector for the optional built in CCD camera. The CCD camera is needed in order to perform automatic convergence with the optional ACAT software.

**A Active Indicator (green LED)**

Lights up when the INPUT A slot is selected.

**B R/Cr,G/Y, B/Cb, H H/V and V Input Terminals (INPUT A)**

Connect R,G,B,H (Horizontal sync) and V (Vertical sync) outputs of the external equipment (such as the Switcher). If using a component with a combined sync (SYNC) output, connect it to the H/V terminal. When using luminance and color-difference signals of HDTV and DVD, connect a Pr/Cr to the R, a Y to the G and a Pb/Cb to the B input of the projector.

**C S-VIDEO Input Terminal (INPUT A)**

Connect to the S-video output of the external equipment such as a VCR with an S-video output. This terminal allows switching between S2 and S1 VIDEO input modes.

**D VIDEO Input Terminal (INPUT A)**

Connect to the video output of the external equipment such as a VCR or laser disk player.

**E OPTION Terminal**

For system expansion such as PC-control.

**F REMOTE 1 Terminal**

This terminal allows external control of the projector from either the Switcher or from an external control. When the Switcher is used, connect to the REMOTE 1 terminal on the back of the Switcher.

**NOTE:** The ISS-6020/ISS-6020G Switcher is compatible with this projector.

**G REMOTE 2 Terminal**

IN: for the supplied service remote control.

OUT: connect to a second projector's IN terminal to relay the input at the IN terminal.

**NOTE:** The wireless control does not work when the plug of the supplied remote cable is inserted into the REMOTE 2 IN terminal.

**H INPUT B**

Slot for adding optional RGB or video input cards.

**I INPUT C**

Slot for adding optional RGB or video input cards.

**NOTE:** The optional RGB INPUT and VIDEO INPUT modules can be installed in the INPUT B and INPUT C slots.

**J RGB Audio Input Terminals (L/R)**

Connect to the audio outputs of the external equipment such as ISS-6020/6020G.

**K S-VIDEO Audio Input Terminals (L/R)**

Connect to the S-video audio outputs of the external equipment such as a VCR with S-video outputs.

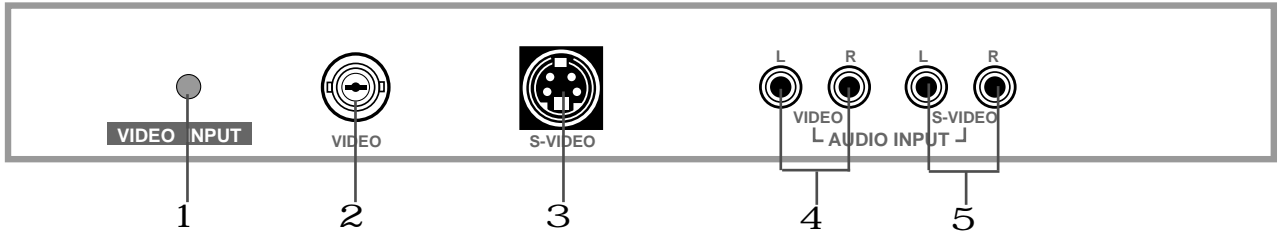
**L VIDEO Audio Input Terminals (L/R)**

Connect to the audio outputs of the external equipment such as a VCR.

**OPTIONAL Boards**

**VIDEO INPUT Board [XG VIDINA]**

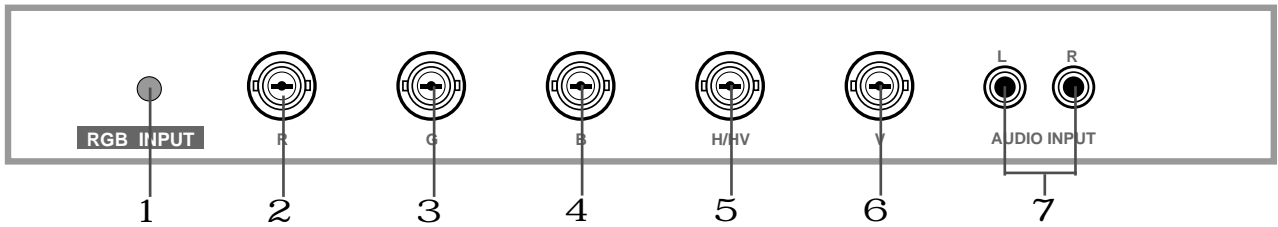
Front view



- 1 **Active Indicator (green LED)** ..... Lights up when this board is selected.
- 2 **VIDEO INPUT Terminal** ..... Connects composite video output signals.
- 3 **S-VIDEO INPUT Terminal** ..... Connects S-video output signals.
- 4 **VIDEO INPUT Terminal** ..... Connects the audio outputs of the external equipment such as a VCR.
- 5 **S-VIDEO INPUT Terminal** ..... Connects the S-video audio outputs of the external equipment such as a VCR with S-video outputs.

**RGB INPUT Board [XG RGBINA]**

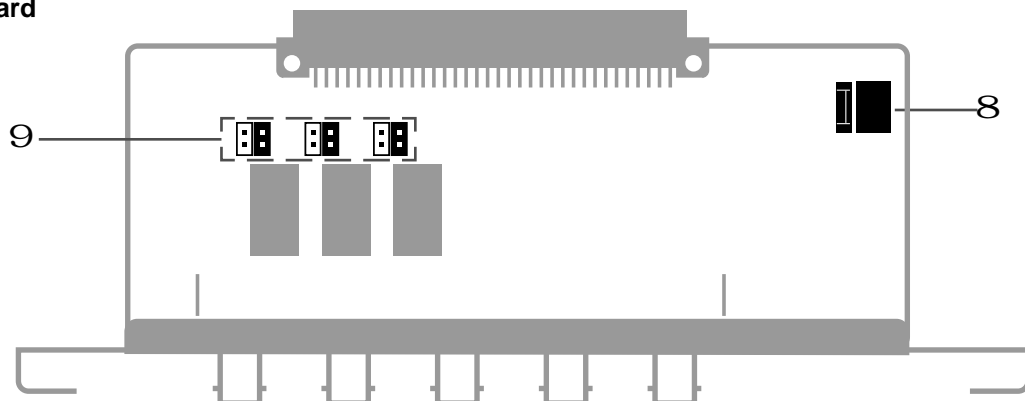
Front view



- 1 **Active Indicator (green LED)** ..... Lights up when this board is selected.
- 2 **R Input Terminal** ..... Connects a Red output signal.
- 3 **G Input Terminal** ..... Connects a Green output signal.
- 4 **B Input Terminal** ..... Connects a Blue output signal.
- 5 **H/HV Input Terminal** ..... Connects horizontal sync or horizontal/vertical sync output signals.
- 6 **V Input Terminal** ..... Connects a vertical sync output signal.
- 7 **AUDIO Input Terminals** ..... Connects the audio outputs of the external equipment such as the ISS-6020/6020G or a PC.

**RGB INPUT Board**

Top view

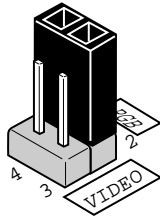
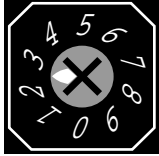


- 8 **Rotary Switch (S1001)**
- 9 **Jumper(S1002, S1003, S1004)**

The combination of the rotary switch and the jumper pins allows the projector to accept VIDEO or COMPONENT signals. Note that this board cannot accept RGB signals when board is set to VIDEO input.

Rotary switch (S1001)

Jumper (S1002, S1003, S1004)



Setting of Rotary switch

No.	Mark	Input
0	VIDEO	VIDEO input
1	OPTION	COMPONENT input
3	RGB	RGB input
2, 4-9		Not used

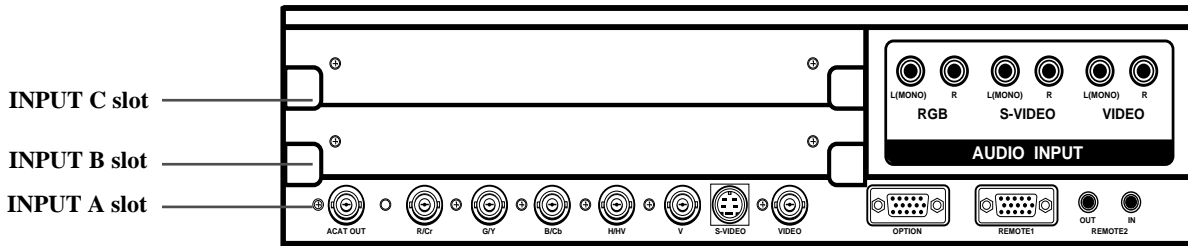
\* No.3 is factory preset.

Table for Setting Rotary Switch and Jumpers.

Setting of Rotary switch and Jumpers		Input Signal			Board Identification
Rotary Switch(S1001)	Jumpers	R terminal	G terminal	B terminal	
0	(2, 3) Short	VIDEO	Y	C	VIDEO
1	(2, 3) Short	Pr/Cr	Y	Pb/Cb	COMPONENT
* 3	(1, 2) Short	R	G	B	RGB

\* indicates factory preset.

SLOT FOR OPTIONAL MODULE



Corresponding slot number

You can also select the input signal directly by pressing the INPUT "1" through "10" button. In this case INPUT buttons function as follows:

	INPUT A slot	INPUT B slot	INPUT C slot
1 *1	RGB		
2	VIDEO		
3	S-VIDEO		
4 *2		RGB/COMPONENT/VIDEO	
5 *3		S-VIDEO	
6			
7 *2			RGB/COMPONENT/VIDEO
8 *3			S-VIDEO
9			
10	COMPONENT		

\*1 Some settings allow you to retrieve a COMPONENT signal automatically. See "RGB/COMPONENT Search Setting".

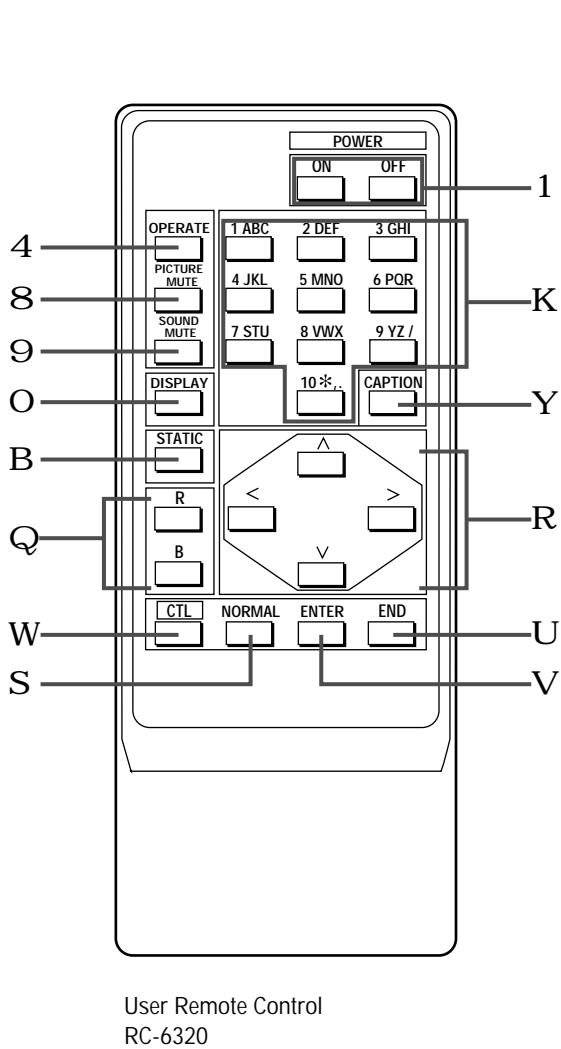
\*2 When the optional RGB input board is installed and the RGB input is set, an RGB signal will be selected; when the RGB input board is installed and the COMPONENT input is set, a COMPONENT signal will be selected; when the optional RGB input board is installed and the VIDEO input is set, a VIDEO signal will be selected.

When the optional VIDEO input board is installed, a VIDEO signal will be selected.

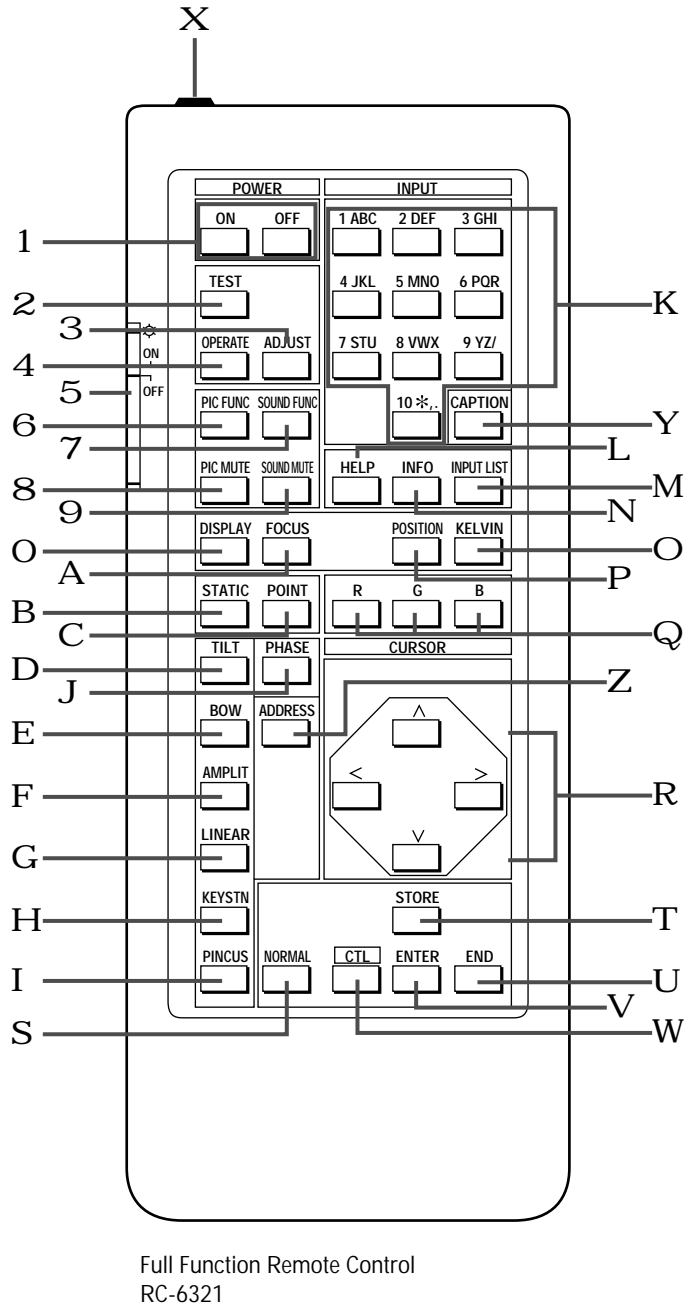
\*3 An S-VIDEO signal will be selected when :

1. the optional RGB input board is installed and the VIDEO input is set.
2. the optional VIDEO input board is installed.

Remote control unit



User Remote Control  
RC-6320



Full Function Remote Control  
RC-6321

**NOTE:** The full function remote control is designed for setup adjustment. Use the user remote control for normal operation.

**1 POWER Buttons (ON/OFF)**

Press the ON button to turn the projector on when the projector is in the standby condition (STANDBY and RC READY indicators lit). Press the OFF button to return the projector to the standby condition.

**2 TEST Button**

Press to display the “TEST PATTERN” menu from which you can select a test pattern.

**3 ADJUST Button**

Press to display the “ADJUST” menu.

**4 OPERATE Button**

Press to display the “OPERATE” menu.

**5 Backlight Switch**

Turns the backlight on and off.

If no button operation is made within 30 seconds with the Backlight ON, the Backlight will turn off to conserve battery life.

**6 PIC FUNC Button**

Press to display the picture adjustment screen.

**NOTE:** Some function items will not be available depending on the type of video signal.

**7 SOUND FUNC Button**

Press to display the VOLUME adjustment screen. You can adjust the volume of the ISS-6020/ISS-6020G Switcher.

**8 PICTURE (PIC) MUTE Button**

Press to mute the picture. Press again to display the picture. You can also mute the picture by holding down CTL and pressing PICTURE MUTE buttons. To restore the picture, holding down CTL and press PICTURE MUTE again. Or simply press END.

**NOTE:** When the picture is muted by using CTL and PICTURE MUTE buttons, even if input is switched to another or the power is turned off using the remote POWER OFF button, the mute cannot be canceled.

**9 SOUND MUTE Button**

Press to mute the sound. Press again to return the sound.

**O DISPLAY Button**

Press to turn on or off the on-screen display. Pressing with CTL eliminates the on-screen display; pressing with CTL will restore display.

**NOTE:** Even if the on-screen display may be turned off with pressing CTL and DISPLAY, any adjustment will still change the projector's memory settings. This mode is available even when an input is switched to another or the power is turned off using the POWER OFF button on the remote control. On-screen display mute function can be canceled by turning off the main power.

**A FOCUS Button**

Press to enter the FOCUS mode. Pressing with CTL will bring you to the ASTIG adjustment screen.

**B STATIC Button**

Press to enter the STATIC mode. You can adjust the static convergence.

**C POINT Button**

Press to enter the POINT mode. You can adjust the point convergence.

**D TILT Button**

Press to enter the TILT, SKEW mode. You can adjust the tilt and the skew of the projected image.

**E BOW Button**

Press to enter the BOW mode. You can adjust the horizontal and the vertical bow of the projected image. Pressing with CTL will bring you to the LINE DISTORTION adjustment screen.

**F AMPLIT Button**

Press to enter the AMPLITUDE mode. You can adjust the horizontal width and the vertical height of the projected image.

**G LINEAR Button**

Press to enter the LINEARITY mode. You can adjust the horizontal and the vertical linearity of the projected image. Pressing with CTL will bring you to the LINEARITY-BALANCE adjustment screen.

**H KEYSTN Button**

Press to enter the KEYSTONE mode. You can adjust the horizontal and the vertical keystone of the projected image. Pressing with CTL button will bring you to the KEY-BALANCE alignment screen.

### **I PINCUS Button**

Press to enter the PINCUSHION mode. You can adjust the horizontal and the vertical pincushion of the projected image. Pressing with the CTL button will bring you to the PIN-BALANCE alignment screen.

### **J PHASE Button**

For service personnel only.

### **K INPUT Button**

Selects menus and switches input signals.

### **L HELP Button**

Press to display the explanation of the current selected function and available functions.

### **M INPUT LIST Button**

Press to display the memory list of the recorded input signals.

### **N INFO Button**

Press to display the various parameters and settings of the currently displayed image. Pressing with the CTL button displays some of items available in SETTING MODE.

### **O KELVIN Button**

Press to enter the KELVIN mode. You can adjust the color temperature and, the white and the black level.

### **P POSITION Button**

Press to enter the position mode. You can adjust the horizontal, vertical position and horizontal, vertical blanking and image size.

### **Q R, G, and B Buttons**

Turn each CRT beam on and off separately. When using with the CTL button, you can select the CRT to be adjusted during convergence and focus adjustments. Note that the G button is only on the full function remote control.

### **R CURSOR Buttons**

Used for increasing and decreasing control levels, cursor movement and convergence adjustments.

### **S NORMAL Button**

Returns the standard level for each signal. When pressed once, the confirmation message will be displayed. When "YES" is selected and ENTER is pressed, the data will be returned to the standard level. While holding down the CTL button, press the NORMAL button to display the "LOAD/CANCEL" menu to select either LOAD (last stored level) or CANCEL (data cancelled).

### **T STORE Button**

Memorizes the adjustments setting of each signal separately.

When pressed once, the confirmation message "STORE?" will be displayed. When selecting "YES" and ENTER, the data will be stored in memory.

### **U END Button**

Ends the adjustment mode.

### **V ENTER Button**

Executes menu selection and switches to selected input.

### **W CTL Button**

Used in conjunction with other buttons, similar to a shift key on a computer.

### **X Remote Control Jack**

Insert the plug of the supplied remote cable here when the full function remote control is used in the wired condition.

### **Y CAPTION Button**

Press to display the CLOSED CAPTION menu.

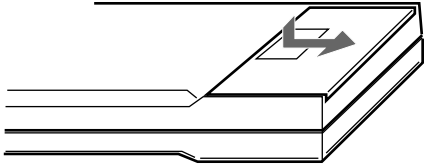
### **Z ADDRESS Button**



Press to display the ADDRESS menu. Pressing with CTL allows you to specify the address for the remote control.

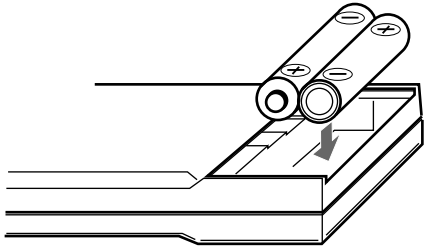
## Battery installation and replacement

### User remote control (RC-6320)

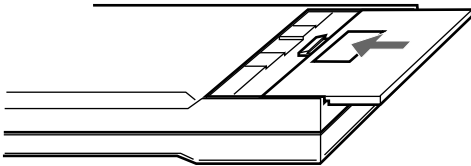
- 1 Press down on the battery compartment cover and slide the cover in the direction of the arrow.



- 2 Install the two new batteries, making sure that their polarity matches the   diagrams inside the battery compartment. Incorrect polarity could damage the unit.



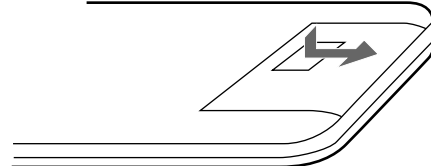
- 3 Close the battery compartment cover.





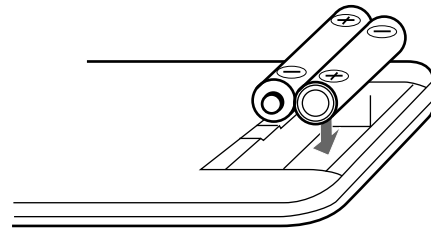
**NOTE:** The remote control is powered by two alkaline 1.5V AA batteries.

### Full function remote control (RC-6321)

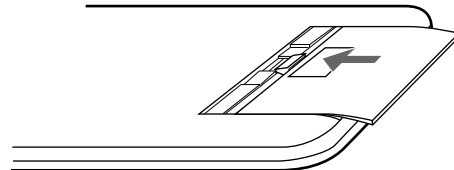
- 1 Press down on the battery compartment cover and slide the cover in the direction of the arrow.



- 2 Install the two new batteries, making sure that their polarity matches the   diagrams inside the battery compartment. Incorrect polarity could damage the unit.



- 3 Close the battery compartment cover.



## Remote control cautions

Use the remote control within a distance of about 7m (23 ft.) and at 30 degrees angle left and right.

## Handling remote control and batteries

- Do not drop or mishandle the remote.
- Do not get the remote wet. If the remote gets wet, wipe it dry immediately.
- Avoid heat and humidity.
- When not using the remote for a long period, remove the batteries.
- Do not use new and old batteries together, or use different types together.
- Do not take apart the batteries, heat them, or throw them into a fire.
- Avoid using the full function remote control as wireless with the backlight switch ON for an extended period of time. This can cause short battery life.



---

# *Set-Up* (for service personnel)

## **Set-Up**

The Signal Entry chapter explains how to register a new input signal and how to set various parameters of the currently selected signal.

The Adjustment chapter gives you the procedures for various adjustment such as focus, alignment, convergence. This chapter also explains the passcode. It is a convenient way to prevent any tampering of projector set-up information by unauthorized individuals.

The Setting chapter gives you details on setting for various use.

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Setting .....	74
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# BEFORE SET-UP

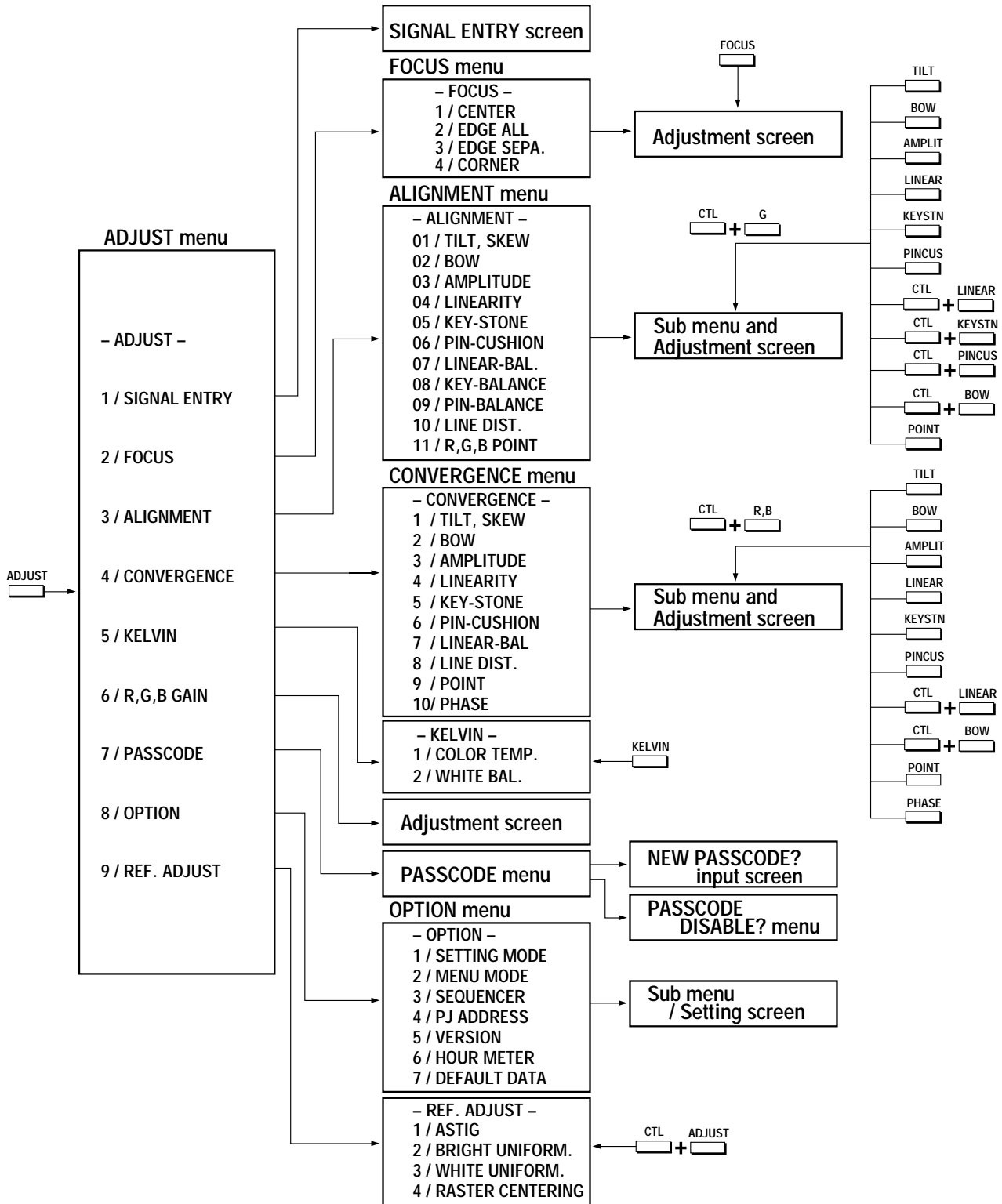
## Displaying the Menu and Adjustment Screens

Access of all set-up functions is done through the menu system.

Depending upon button selection, your desired screen will be displayed as shown below:

### ADJUST menu

NOTE: Some function items will not be used depending on the input video signal or connected peripheral equipment.



## Storing Projector Settings (Automatic Save Feature)

You have two options to store projector settings in the memory: automatically and manually.

**NOTE:** Storing time is four seconds.

- The Automatic Save Feature mode has been set to **DISABLE** by factory. For information on setting, see "Automatic Save Feature" on page 92.

■ When the Automatic Save Feature mode is set to **"ENABLE"**, projector settings will be stored in the projector's memory automatically.



Settings are stored automatically when any one of the following procedures is performed:

- The **END** button is pressed several times to return the adjustment screen to the source screen.
- One input is switched to another.
- The projector is turned off.
- After every 10 minutes of elapsed time.

■ When the Automatic Save Feature mode is set to **"DISABLE"**, projector settings can be stored in the projector's memory manually.

When you try to return the source screen by pressing **END** several times, the **"STORE ?"** menu is displayed.

To manually save settings, proceed as follows:

1. Use the **END** button to display the **"STORE"** menu from the current adjustment screen or menu.
2. Use the **CURSOR**  or  button to highlight **"CURRENT"**, **"NEW"**, or **"CANCEL"** and press **ENTER**.

### Items to select

- **CURRENT** ----- Overwrites the currently projected signal and saves the settings. **NOTE:** An unregistered signal cannot be stored under the **"CURRENT"** settings.
- **NEW** ----- Starting at memory location No.51, this function saves an unregistered signal as a new signal in memory.
- **CANCEL** ----- Does not save settings.



## BEFORE SET-UP

---

### ■ When selecting “NEW”

The current settings are registered as a new signal and are saved to an unassigned line starting at memory location No.51.

A registered name is automatically given.

The “NEW ENTRY?” menu will be displayed.

Use the CURSOR  or  button to highlight “YES” or “NO” and press ENTER.

#### Items to select

- YES----- Registers settings as a new signal and saves the signal in an unassigned location starting at memory location No.51.
- NO ----- Does not register settings.

A registered name is given as follows:

VIDEO/S-VIDEO ----- Video standard with a list number  
e.g. NTSC51 or PAL52.  
RGB ----- ”RGB” with a list number e.g.  
RGB60.

#### NOTE:

- If the Input list does not have any unassigned memory location starting at No. 51 then, the “NEW” item will be selectable. For signal registration see “SIGNAL ENTRY” on page 23.
- The Automatic Save Feature is available only for signals listed in the INPUT LIST.

```
NEW ENTRY?  
LIST No.   **  
NAME       *****  
  YES      NO
```

## On ADJUST MODE

The ADJUST mode contains various adjustment items for set-up. Open the ADJUST menu and select the item you wish to adjust. To display the ADJUST menu, proceed as follows:

- 1 Press the ADJUST button.
  - The projector may ask for your passcode.
- 2 Enter your registered passcode.

### **When a passcode has not been registered:**

- Since no passcode is programmed at the factory, pressing the ADJUST button will open the ADJUST menu.
- See “Entering Passcode”, “Registering Passcode”, “Changing Your Passcode” and “Canceling Your Passcode” on pages 68 through 73.

### **When your passcode has already been registered:**

- When finishing the ADJUST mode, the “RETURN USER MODE?” menu will be displayed. If you select “YES” and press ENTER to end the ADJUST mode, you will have to enter your passcode to re-enter the ADJUST mode.
- When finishing the ADJUST mode by either selecting “NO” or pressing END, you do not need to enter your passcode to re-enter the ADJUST mode. To exit the ADJUST mode temporarily during adjusting, select “NO”.





PASSCODE?  
\*\*\*\*

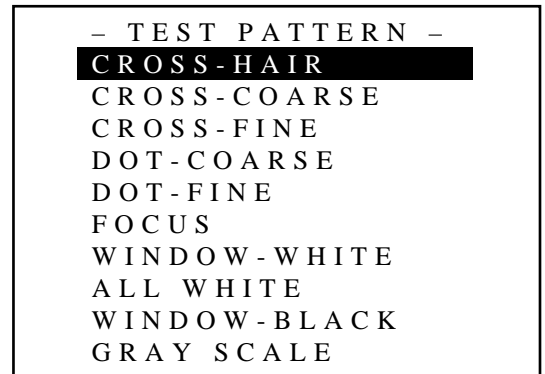
**Test Pattern**

This projector will generate a selection of test signals.

Ten kinds of internal test patterns can be selected from the TEST PATTERN menu.

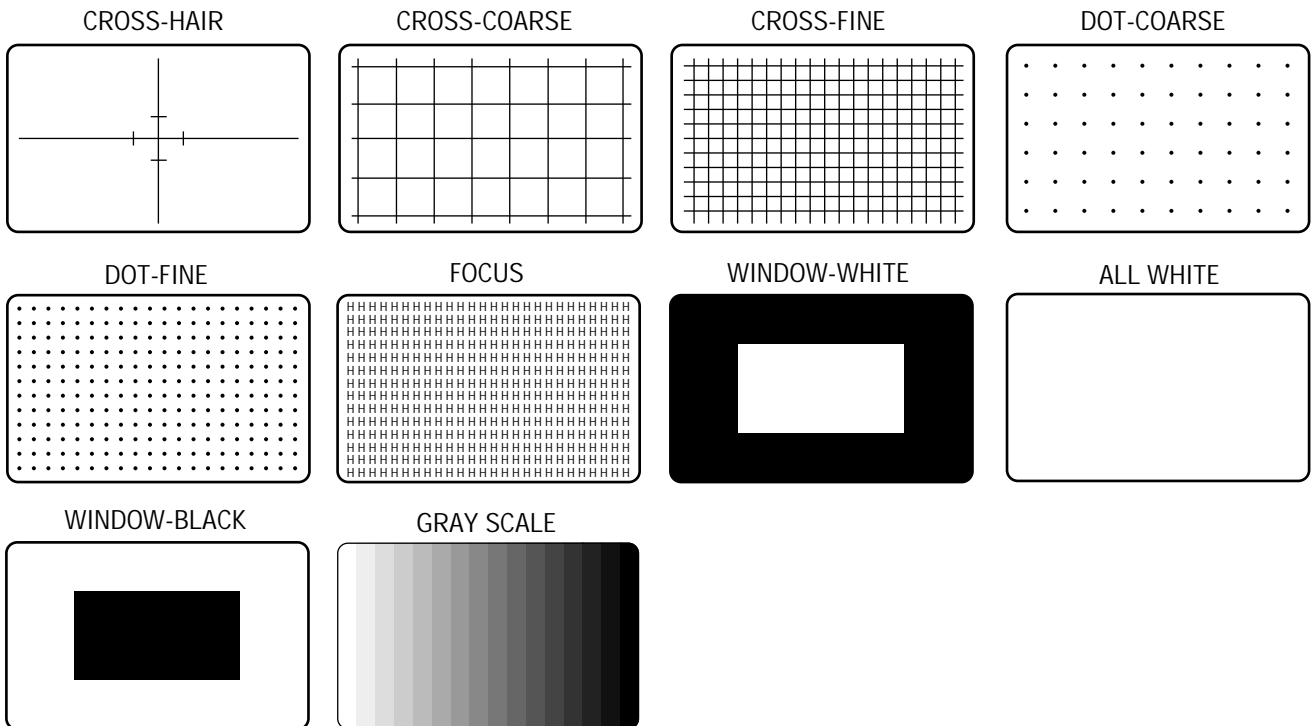
To display the TEST PATTERN menu, proceed as follows:

- 1 Press the TEST button on the Full function remote control.
  - The “TEST PATTERN” menu will be displayed.
  - When the END button is pressed, the “TEST PATTERN” menu will disappear.
- 2 Use the CURSOR  or  button to highlight the test pattern you wish to use and press ENTER.
  - The selected test pattern will be displayed.
- 3 To return to the source screen, press the TEST and then the END button.
  - When the TEST button is pressed, the “TEST PATTERN” menu will be displayed and when the END button is pressed, the screen will be changed to the source screen.
  - The projector will return to the original source screen by pressing the END button only when *no* menu or *no* adjustment screen is displayed.



**NOTE:** If there is no test pattern, the beams have been turned off by the R, G, and B buttons on the remote control.

**Adjustment test pattern**



# SIGNAL ENTRY

## On Signal Entry

The projector uses a micro-processor to automatically read and distinguish between all video signals input at the same time. These signals are then used to make optimum adjustments for focus, convergence, alignment, etc. Various parameters must be registered into the micro-processor beforehand to ensure the video signals are recognized and adjusted to optimum quality.

The Signal Entry registers these video signals in the SIGNAL ENTRY list and at the same time obtains the various parameters pertaining to these signals. Always access this mode first whenever inputting video signals for the first time so that you can register the video signals before making any adjustments. If the current input signal(s) has not been registered, the “UNREGISTERED SIGNAL” message is displayed on screen.

**NOTE:** If you have software which changes scanning mode due to the graphic board of your PC (such as VGA), it will be necessary to register signal entry for each scanning mode. This can be done using your PC by way of stopping the software in each scanning mode and performing a signal entry operation.

## Signal Entry Procedures

To make the signal entry, proceed as follows:

- 1 Press the ADJUST button.
  - The “ADJUST” menu is displayed.

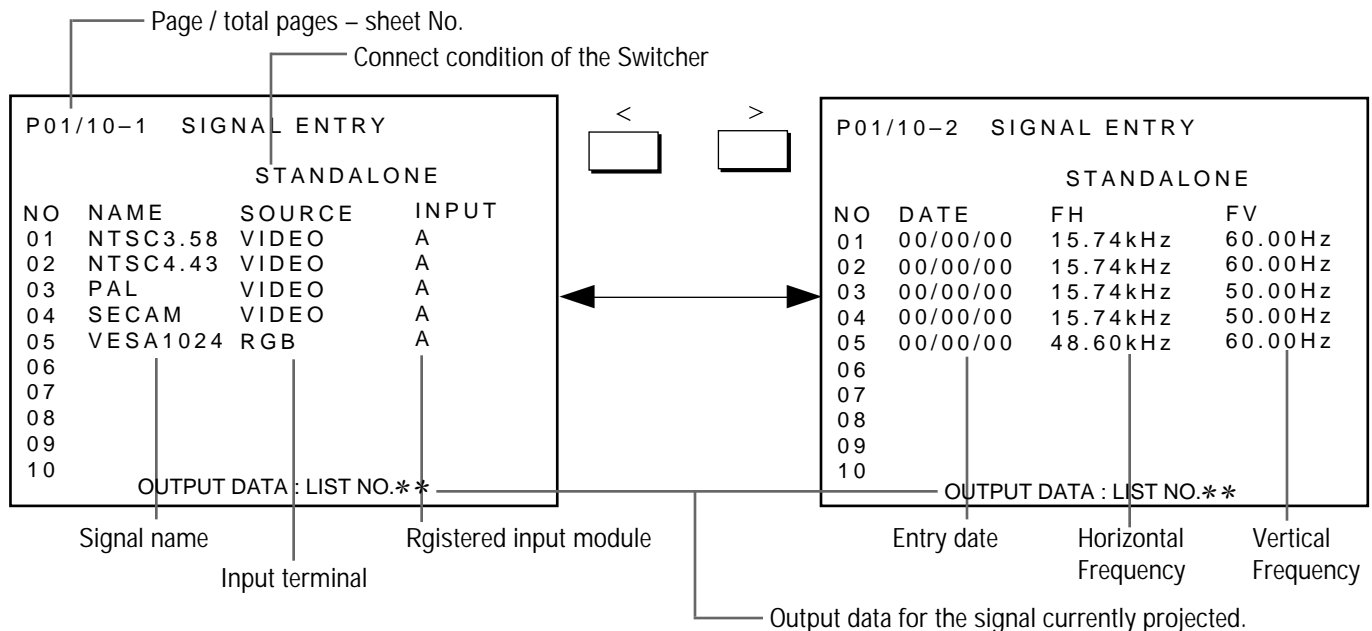
**NOTE:** The projector may ask you to enter your passcode. See 68 for the explanation of the PASSCODE.

- 2 Use the CURSOR  or  button to highlight the “1/SIGNAL ENTRY” line and press ENTER.
  - The “SIGNAL ENTRY” list will be displayed.
  - You can also select the “SIGNAL ENTRY” list directly by pressing the INPUT “1” button.



- 3 Use the CURSOR  or  button to select the desired line and press ENTER.
  - The Signal entry menu will be displayed.

**NOTE:** To advance to the next page or to the previous page, hold down the CTL button then press the CURSOR  or  button. To directly access a page, hold down the CTL button then press any one of the INPUT buttons.

- ADJUST -	
1 /	SIGNAL ENTRY
2 /	FOCUS
3 /	ALIGNMENT
4 /	CONVERGENCE
5 /	KELVIN
6 /	R, G, B GAIN
7 /	PASSCODE
8 /	OPTION
9 /	REF. ADJUST



## SIGNAL ENTRY

- 4 Use the CURSOR  or  button to select the item and then press ENTER.

- The Input terminal menu will be displayed.

### Items to select



- NEW ENTRY ..... Registers a new signal.
- ENTRY COPY ..... Copies any registered signal entry.
- ENTRY MOVE ..... Moves any registered signal entry.
- ENTRY DELETE ... Deletes any registered signal entry from SIGNAL ENTRY.
- DATA COPY ..... Copies gain data from any one of the registered signals.
- CHANGE DEFAULT . Rewrites the data stored in DEFAULT AREA.
- SOURCE EDIT ..... Changes setting various parameteres of the registered signals.

**NOTE:** When a vacant line is selected, the "SIGNAL ENTRY" menu has three items only: "NEW ENTRY", "ENTRY COPY" and "ENTRY MOVE".



### ■ Selecting "NEW ENTRY"

When connecting a signal for the first time, you need to register it into the projector's memory. You can copy the initial setting for the new signal from any other signal that has already been registered or use the factory preset setting.

To do this, proceed as follows:



- 1) Use the CURSOR  or  button to select "NEW ENTRY" and press ENTER.
  - The "INPUT TERMINAL SELECT" menu will be display.

### When using the projector in stand alone application:

Use the CURSOR  or  button to select one of the three slots, and press ENTER.

### Items to select

- INPUT A ..... Standard installed terminal
- INPUT B ..... Optional board terminal
- INPUT C ..... Optional board terminal

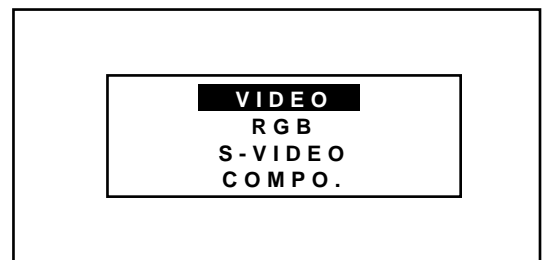
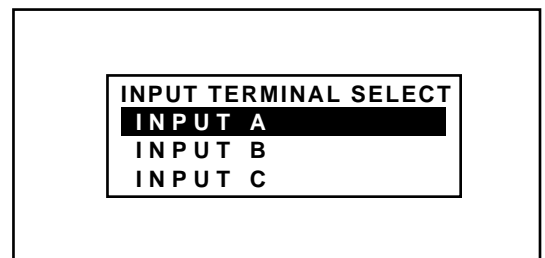
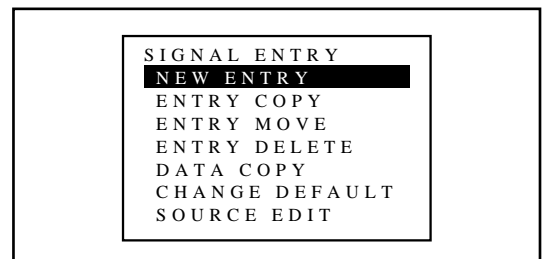
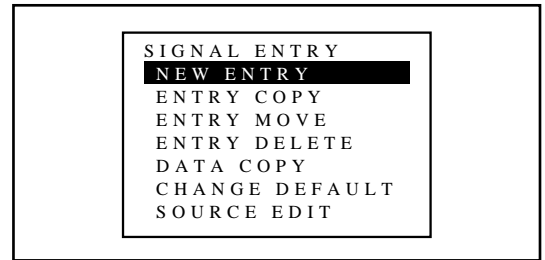
Use the CURSOR  or  button to select "VIDEO", "RGB", "S-VIDEO", or "COMPO." and press ENTER.

- The "NAME INPUT" screen will be displayed.



### Items to select

- VIDEO ..... Seles the VIDEO input signal of this projector
- RGB ..... Selects the RGB input signal of this projector
- S-VIDEO ..... Selects the S-VIDEO input signal of this projector.
- COMPO ..... Selects the Y/Cb/Cr input signal of this projector.

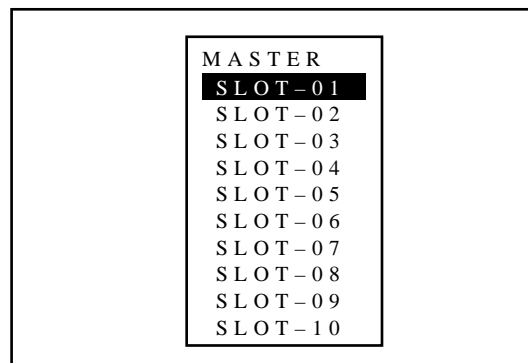
- Go on to Step 2).





**When using with a single Switcher ISS-6020/ISS-6020G:**

Use the CURSOR  or  button to select the input slot number of the Switcher and press ENTER.

- Input slot numbers are from 1 through 10.

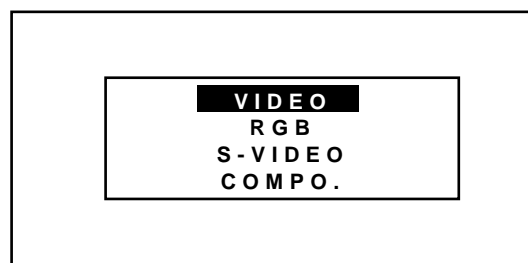


Use the CURSOR  or  button to select “VIDEO”, “RGB”, “S-VIDEO” or “COMPO.” and press ENTER.

- The “NAME INPUT” screen will be displayed.

**Items to select**

- VIDEO ----- Selects the signal from the VIDEO input terminal of the VIDEO input board.
- RGB ----- Selects the signal from the RGB input terminal of the RGB input board.
- S-VIDEO ----- Selects the signal from the S-VIDEO input terminal of the VIDEO input board.
- COMPO. ----- Selects the signal as COMPONENT signal from the RGB input terminal of the RGB input board.



\* Go on to Step 2).

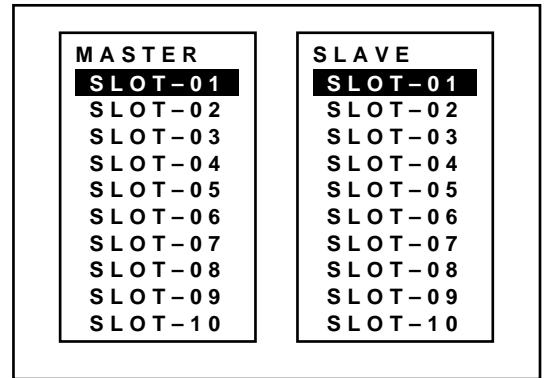
**NOTE:** Signal registry is not possible unless the installed input board matches the selected signal. Check the installed input board and the slot number.

## SIGNAL ENTRY

### When using with two or more ISS-6020/ISS-6020G switchers:

Use the CURSOR  or  button to select the input slot number of the master Switcher and press ENTER. Then select the slot number of the slave Switcher and press ENTER.

- The “MASTER” menu will be displayed when the slot number of the master Switcher is selected.
- The “SLAVE” menu will be displayed when the slot number of the slave Switcher is selected.
- Input slot numbers are from 1 through 10.



Use the CURSOR  or  button to select “VIDEO”, “RGB”, “S-VIDEO” or “COMPO.” and press ENTER.

- The “NAME INPUT” screen will be displayed.




#### Items to select

- VIDEO ----- Selects the signal from the VIDEO input terminal of the VIDEO input board.
- RGB ----- Selects the signal from the RGB input terminal of the RGB input board.
- S-VIDEO ----- Selects the signal from the S-VIDEO input terminal of the VIDEO input board.
- COMPO. ----- Selects the signal as COMPONENT signal from the RGB input terminal of the RGB input board.

- Go on to Step 2).

**NOTE:** Signal registry is not possible unless the installed input board matches the selected signal. Check the installed input board and the slot number.

2) Input the source name by selecting one character at a time with the INPUT buttons 1 through 10 and by moving the cursor with the CURSOR  button. After finishing the selection of the characters, press ENTER.

- Up to eight characters can be selected.
- Eight characters are assigned to one INPUT button.
- Whenever the INPUT button is pressed, characters will be rotated.

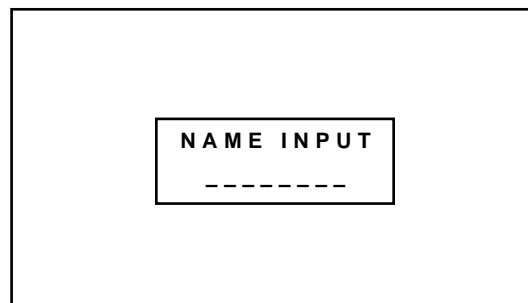
*For example:* A → B → C → 1 → A .....



- When pressing the INPUT button while holding down the CTL button, another group of characters will be rotated.

*For example:* a → b → c → ! → a .....

- The characters corresponding to these INPUT buttons are as follows:

	When using With CTL	
INPUT 1	A, B, C, and 1	a, b, c, and !
INPUT 2	D, E, F, and 2	d, e, f, and "
INPUT 3	G, H, I, and 3	g, h, i, and #
INPUT 4	J, K, L, and 4	j, k, l, and \$
INPUT 5	M, N, O, and 5	m, n, o, and %
INPUT 6	P, Q, R, and 6	p, q, r, and &
INPUT 7	S, T, U, and 7	s, t, u, and '
INPUT 8	V, W, X, and 8	v, w, x, and (
INPUT 9	Y, Z, ?, and 9	y, z, /, and )
INPUT 10	*, ,, ., and 0	;; :, +, and -



- If you have made an error in the input of a character, use the CURSOR  button and enter the correct letter or number.  
To delete one character, move the CURSOR  button to the character to be deleted and then press the NORMAL button.  
To delete all the entered name, hold down the CTL button then press NORMAL.
- The “INITIAL DATA SELECT” menu will be displayed.

## SIGNAL ENTRY

- 3) Use the CURSOR  or  button to select an item and press ENTER.

### Items to select

- DEFAULT ..... Uses the data stored in the DEFAULT AREA
- TEMPORARY ..... Uses the data which is currently displayed
- ENTRY NUMBER .... Copies the data from the registered signal

- When selecting “ENTRY NUMBER”, the “DATA COPY SELECT SOURCE” message will be displayed at the bottom of the screen. Use the CURSOR  or  button to select the signal you wish to copy the initial settings from and press ENTER.
- The “DATA COPY MODE” menu will be displayed. Use the CURSOR  or  button to select an item and press ENTER.

### Items to select

- ALL ..... Copies all the settings.
- EXCEPT H-POSI&PHASE  
..... Copies the settings except H-position and Phase adjustments data.

- The “SOURCE INFORMATION” screen will be displayed.
- Pressing END will return to the “SIGNAL ENTRY” list. Go on to Step 5 .

**NOTE:** You can check and change various parameters on the “SOURCE INFORMATION” menu. See page 35.

```

INITIAL DATA SELECT
  DEFAULT
  TEMPORARY
  ENTRY NUMBER
  
```

```

P01/10-1 SIGNAL ENTRY
                STANDALONE
NO  NAME      SOURCE  INPUT
0 1  NTSC3.58  VIDEO   A
0 2  PAL       VIDEO   A
0 3  VGA480    RGB     A
0 4  NTSC      S-VIDEO A
0 5
0 6
0 7
0 8
0 9
1 0
DATA COPY SELECT SOURCE
  
```

```

DATA COPY MODE
  ALL
  EXCEPT H-POSI & PHASE
  
```

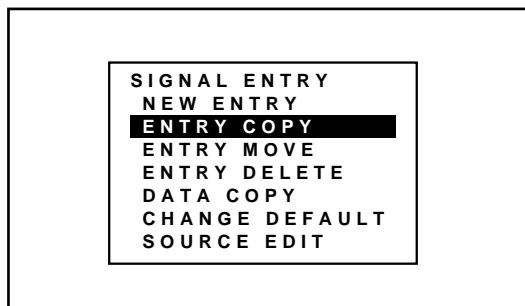
```

P01/03 SOURCE INFORMATION
NAME          *****
INPUT TERMINAL INPUT A
INPUT SOURCE  RGB
VIDEO MODE    RGB
FREQUENCY     FH = ***** KHz
              FV = ***** Hz
SYNC POLARITY HD(-) VD(+)
  
```

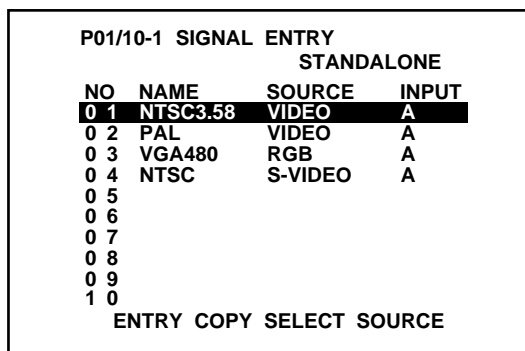
**■ When selecting “ENTRY COPY”**

You can copy one of the registered input to another selected line.  
To do this, proceed as follows:

- 1) Use the CURSOR  or  button to select “ENTRY COPY” and then press ENTER.
  - The “ENTRY COPY SELECT SOURCE” message will be displayed at the bottom of the screen.



- 2) Use the CURSOR  or  button to select a line you wish to copy from and then press ENTER.
  - The “ENTRY COPY SELECT DESTINATION” message will be displayed at the bottom of the screen.



- 3) Use the CURSOR  or  button to select a line you wish to copy to and press ENTER.
  - When there is already a registered signal in the selected line, the “ENTRY DATA OVERWRITE?” prompt is displayed. Use the CURSOR  or  button to select “YES” or “NO” and then press ENTER.
  - When the “ENTRY COPY END” message is displayed, this completes the ENTRY COPY mode.
  - The “SIGNAL ENTRY” list is displayed. Go on to Step 5 .



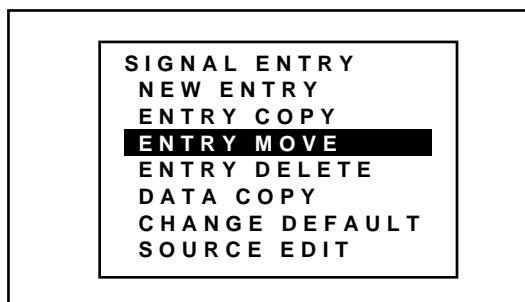
**Items to select**

- YES ..... Overwrites the selected signal that has already been registered.
- NO ..... Stops overwriting.

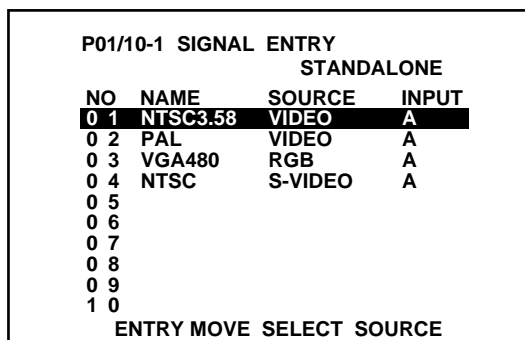
**■ When selecting “ENTRY MOVE”**

You can move one of the registered inputs to another selected line. To do this, proceed as follows:

- 1) Use the CURSOR  or  button to select “ENTRY MOVE” and then press ENTER.
  - The “ENTRY MOVE SELECT SOURCE” message will be displayed at the bottom of the screen.



- 2) Use the CURSOR  or  button to select a line you wish to move and then press ENTER.
  - The “ENTRY MOVE SELECT DESTINATION” message will be displayed at the bottom of the screen.



- 3) Use the CURSOR  or  button to select a line you wish to move to and press ENTER.
  - When there is already a registered signal in the selected line, the “ENTRY DATA OVERWRITE?” prompt will be

## SIGNAL ENTRY

displayed. Use the CURSOR  or  button to select “YES” or “NO” and then press ENTER.

- When the “ENTRY MOVE END” message will be displayed, this completes the ENTRY MOVE mode.
- The “SIGNAL ENTRY” list will be displayed. Go on to Step 5 .

### Items to select

- YES ..... Overwrites the selected signal that has already been registered.
- NO ..... Stops overwriting.

### ■ When selecting “ENTRY DELETE”

You can delete one of the signals in the currently selected lines. To do this, proceed as follows:

- 1) Use the CURSOR  or  button to select “ENTRY DELETE” and then press ENTER.
  - The “DELETE : SELECT START LINE” message will be displayed at the bottom of the screen.
- 2) Use the CURSOR  or  button to select the first of the lines you wish to delete and then press ENTER.
  - The “DELETE : SELECT END LINE” message will be displayed at the bottom of the screen.
- 3) Use the CURSOR  or  button to select the end of the lines you wish to delete and then press ENTER.
  - The “SELECT LINE DELETE?” menu will be displayed.
- 4) Use the CURSOR  or  button to select "YES/NO" and then press ENTER.
  - The “SIGNAL ENTRY” list will be displayed. Go on to Step 5 .

### Items to select

- YES ..... Deletes the selected signal that has already been registered.
- NO ..... Stops deleting.

ENTRY DATA OVERWRITE?  
**YES** NO

SIGNAL ENTRY  
NEW ENTRY  
ENTRY COPY  
ENTRY MOVE  
**ENTRY DELETE**  
DATA COPY  
CHANGE DEFAULT  
SOURCE EDIT

P01/10-1 SIGNAL ENTRY  
STANDALONE

NO	NAME	SOURCE	INPUT
<b>0 1</b>	<b>NTSC3.58</b>	<b>VIDEO</b>	<b>A</b>
0 2	PAL	VIDEO	A
0 3	VGA480	RGB	A
0 4	NTSC	S-VIDEO	A
0 5			
0 6			
0 7			
0 8			
0 9			
1 0			

DELETE : SELECT START LINE

P01/10-1 SIGNAL ENTRY  
STANDALONE

NO	NAME	SOURCE	INPUT
<b>0 1</b>	<b>NTSC3.58</b>	<b>VIDEO</b>	<b>A</b>
<b>0 2</b>	<b>PAL</b>	<b>VIDEO</b>	<b>A</b>
0 3	VGA480	RGB	A
0 4	NTSC	S-VIDEO	A
<b>0 5</b>	<b>PAL</b>	<b>S-VIDEO</b>	<b>A</b>
0 6			
0 7			
0 8			
0 9			
1 0			

DELETE : SELECT END LINE

SELECTED LINES DELETE?  
START LINE : 01  
END LINE : 05  
**YES** NO

**■ When selecting “DATA COPY”**

To help assist in adjusting multiple inputs this projector has a feature called DATA COPY. This feature allows you to copy the memory data from one input to another input. By copying this data from an input that has already been adjusted to an existing input you will not have to do a complete adjustment.

To do this, proceed as follows:

- 1) Use the CURSOR  or  button to select “DATA COPY” and then press ENTER.
  - The “DATA COPY SELECT SOURCE” message will be displayed at the bottom of the screen.
- 2) Use the CURSOR  or  button to select the signal to copy from and then press ENTER.
  - The “DATA COPY SELECT DESTINATION” message will be displayed at the bottom of the screen.
- 3) Use the CURSOR  or  button to select the signal you wish to copy to and press ENTER.
  - The “DATA COPY MODE” menu will be displayed. Use the CURSOR  or  button to select an item and press ENTER.

<p><b>Items to select</b></p> <ul style="list-style-type: none"> <li>• ALL..... Copies all the settings.</li> <li>• EXCEPT H-POSI&amp;PHASE.. Copies the settings except H-position and Phase adjustments data.</li> </ul>
--

- When “GAIN DATA COPY END” message will be displayed, this completes the DATA COPY mode.
- The “SIGNAL ENTRY” list will be displayed. Go on to Step 5

**■ When selecting “CHANGE DEFAULT”**

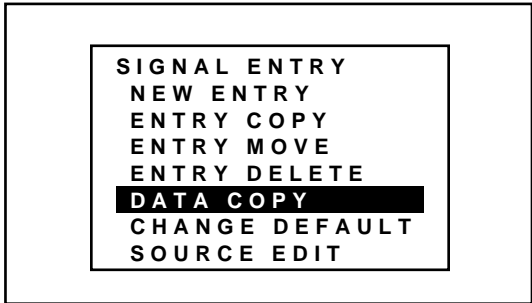
All of the adjustment data of the selected signal will be stored in the DEFAULT AREA.

The data stored in the DEFAULT AREA can be recalled by pressing the NORMAL button.

Selecting “DEFAULT” from the “INITIAL DATA SELECT” menu during signal entry will utilize the data stored in the “DEFAULT AREA”.

**NOTE:** The default area is comprised of six locations depending on the horizontal frequency. The adjustment data will be stored in one of these locations corresponding its horizontal frequency. To refer the current default area, see "DEFAULT DATA" of the OPTION menu on page 128.

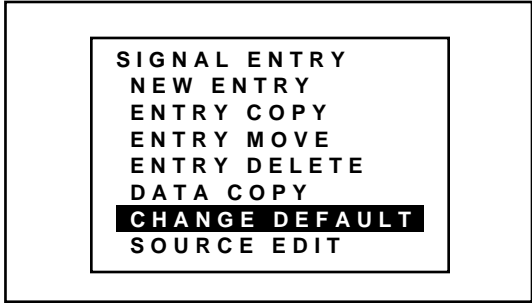
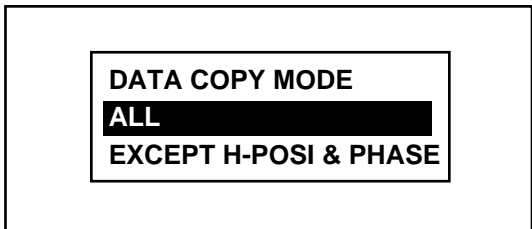
To do this, proceed as follows:







P01/10-1 SIGNAL ENTRY  
 STANDALONE

NO	NAME	SOURCE	INPUT
<b>0 1</b>	<b>NTSC3.58</b>	<b>VIDEO</b>	<b>A</b>
0 2	PAL	VIDEO	A
0 3	VGA480	RGB	A
0 4	NTSC	S-VIDEO	A
0 5			
0 6			
0 7			
0 8			
0 9			
1 0			

DATA COPY SELECT SOURCE



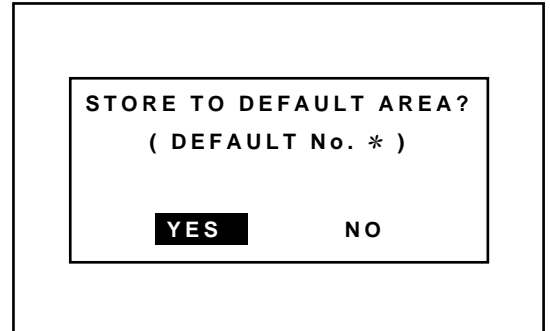
## SIGNAL ENTRY

- 1) Use the CURSOR  or  button to select “CHANGE DEFAULT” and press ENTER.
  - The “STORE TO DEFAULT AREA?” will be displayed.
- 2) Use the CURSOR  or  button to select an item and press ENTER.

### Items to select

- YES ..... The picture parameter data of the selected signal will be stored in the DEFAULT AREA.
- NO ..... The picture parameter data of the selected signal will not be stored in the DEFAULT AREA.

- If the “SIGNAL ENTRY” list will be displayed, this completes the CHANGE DEFAULT mode.
- To end the “SIGNAL ENTRY” list, go on to Step 5 .







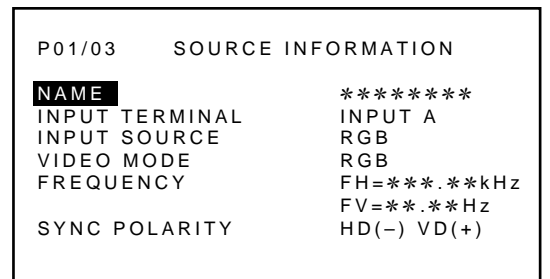
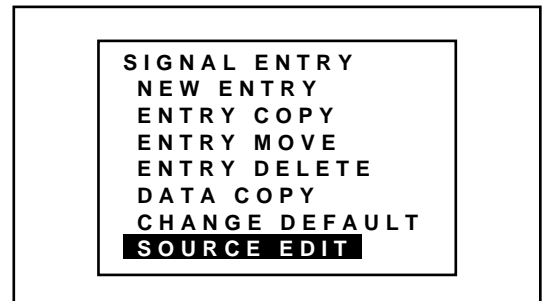
### ■ When selecting “SOURCE EDIT”

This feature allows you to change various parameters of the source on the selected line. This can be done to the current projected signal as well as not projected source.

**NOTE:** The setting INPUT TERMINAL cannot be done to the current projected signal.

To do this, proceed as follows:

- 1) Use the CURSOR  or  button to select “SOURCE EDIT” and then press ENTER.
  - The “SOURCE INFORMATION” screen will be displayed.
  - The “SOURCE INFORMATION” screen will be also displayed by pressing the INFO button on the service remote while the SIGNAL ENTRY is displayed.
- 2) Use the CURSOR  or  button to select the item and then press ENTER.
  - The selected setting screen is displayed.



**■When selecting "INPUT TERMINAL"**

You can select the input terminal for the registered signal. This feature is useful when you need to change the input terminal due to adding optional equipment.

**NOTE:** This setting cannot be done to the current projected signal.

To do this, proceed as follows:

1) Use the CURSOR buttons to select "INPUT TERMINAL" and then press ENTER.

- The "INPUT TERMINAL SELECT" menu will be displayed.

**When used in the stand alone operation:**

Use the CURSOR  or  button to select an input slot from three slots: INPUT A, INPUT B, and INPUT C, and press ENTER.

- The "SIGNAL ENTRY" screen is displayed.

**Items to select**

- INPUT A ..... Standard installed terminal
- INPUT B ..... Optional board terminal
- INPUT C ..... Optional board terminal

P01/03	SOURCE INFORMATION
NAME	*****
<b>INPUT TERMINAL</b>	INPUT A
INPUT SOURCE	RGB
VIDEO MODE	RGB
FREQUENCY	FH=***.***kHz
	FV=**.**Hz
SYNC POLARITY	HD(-) VD(+)

<p><b>INPUT TERMINAL SELECT</b></p> <p><b>INPUT A</b></p> <p>INPUT B</p> <p>INPUT C</p>
---

**When used with a single Switcher ISS-6020/ISS-6020G:**

Use the CURSOR  or  button to select the desired slot number "1" through "10 (0)" of the Switcher and press ENTER.

- The "SIGNAL ENTRY" screen is displayed.

<p><b>MASTER</b></p> <p><b>SLOT-01</b></p> <p>SLOT-02</p> <p>SLOT-03</p> <p>SLOT-04</p> <p>SLOT-05</p> <p>SLOT-06</p> <p>SLOT-07</p> <p>SLOT-08</p> <p>SLOT-09</p> <p>SLOT-10</p>
---

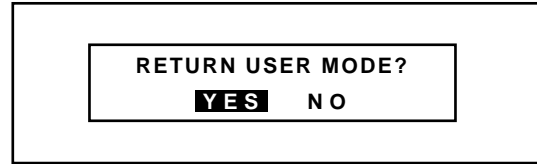
**When used with two or more Switchers ISS-6020/ISS-6020G:**

Use the CURSOR  or  button to select the master slot number "1" through "10 (0)" first from the master menu, then select the slave slot number "1" through "10 (0)" from the slave menu and press ENTER.

- The "SIGNAL ENTRY" screen is displayed.
- For changing parameters of the setting feature, see pages 35 to 43.

<p><b>MASTER</b></p> <p><b>SLOT-01</b></p> <p>SLOT-02</p> <p>SLOT-03</p> <p>SLOT-04</p> <p>SLOT-05</p> <p>SLOT-06</p> <p>SLOT-07</p> <p>SLOT-08</p> <p>SLOT-09</p> <p>SLOT-10</p>	<p><b>SLAVE</b></p> <p><b>SLOT-01</b></p> <p>SLOT-02</p> <p>SLOT-03</p> <p>SLOT-04</p> <p>SLOT-05</p> <p>SLOT-06</p> <p>SLOT-07</p> <p>SLOT-08</p> <p>SLOT-09</p> <p>SLOT-10</p>
---	--

- 5 To complete the signal entry, press the END button.
- Whenever the END button is pressed, the menus will sequence in this order:  
“ADJUST” menu → Source screen.
  - When your passcode is in effect, the “RETURN USER MODE?” screen will be displayed. If this happens, use the CURSOR  or  button to select either “YES” or “NO” and press ENTER.



- Items to select**
- YES ..... When you try to enter the ADJUST mode the next time, you will need to re-enter your passcode.
  - NO ..... When you try to enter the ADJUST mode the next time, you will not need to re-enter your passcode.

## Checking and Setting Various Parameters

Parameters of the signal currently projected can be displayed.

For changing parameters of the other registered signals, perform on the SIGNAL ENTRY screen. See pages 36 to 43.

To view or change the parameters, proceed as follows:

- 1 Press the ADJUST button.

The "ADJUST" menu will be displayed.

**NOTE:** The projector may ask you to enter your passcode.

- See page 68 for Passcode explanation.

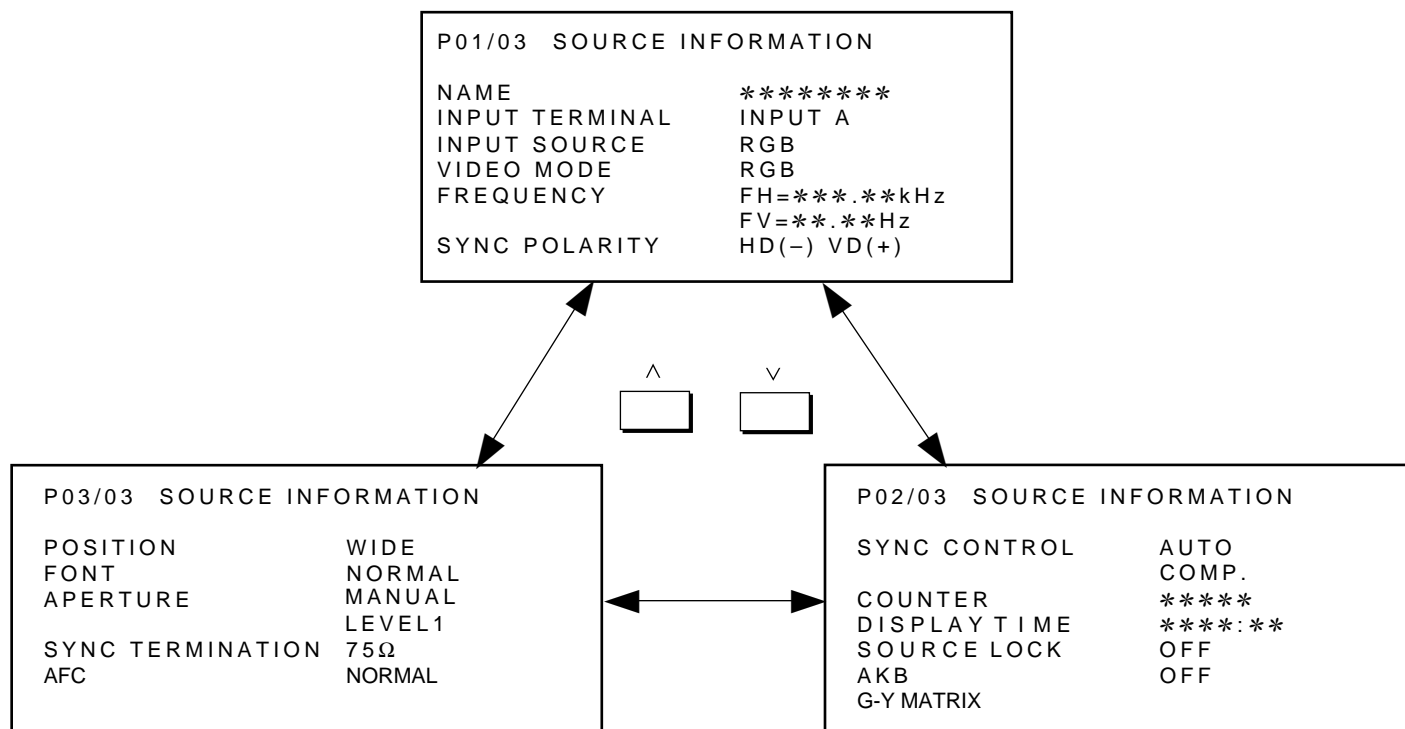
- 2 Press the INFO button.

- The "SOURCE INFORMATION" screen will be displayed.
- The "SOURCE INFORMATION" screen will be displayed also when you exit the "SIGNAL ENTRY" screen.

- 3 Check and / or set the various parameters of the signal currently projected.

The menu items you can set are NAME, SYNC CONTROL, COUNTER, DISPLAY TIME, SOURCE LOCK, AKB, POSITION, FONT, APERTURE, and SYNC TERMINATION. See the following pages for an explanation of each setting.



- ADJUST -	
1 /	<b>SIGNAL ENTRY</b>
2 /	FOCUS
3 /	ALIGNMENT
4 /	CONVERGENCE
5 /	KELVIN
6 /	R, G, B GAIN
7 /	PASSCODE
8 /	OPTION
9 /	REF. ADJUST



■ **Setting “NAME”**

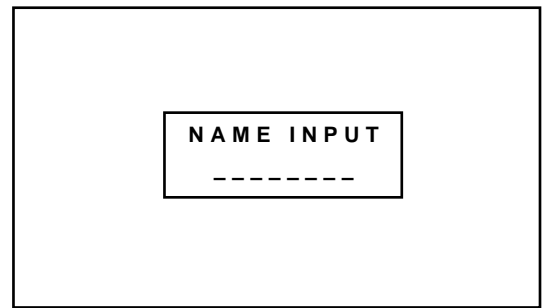
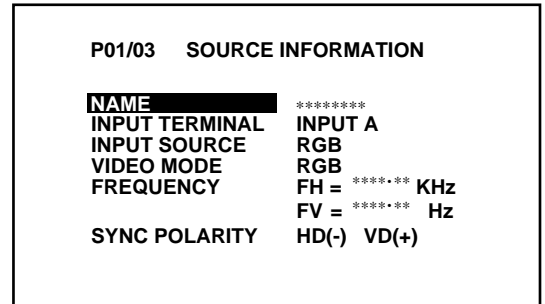
This function is used to change a user name that has previously been entered.

To do this, proceed as follows:

- 1) Use the CURSOR buttons to select “NAME” and then press ENTER.
  - The “NAME INPUT” screen will be displayed.
  
- 2) Input a new source name by selecting one character at a time with the INPUT buttons 1 through 10 and by moving the cursor with the CURSOR  button. Only after completely finishing the selection of the characters, press ENTER.
  - If you have made an error, use the CURSOR  button and reenter the correct letter or number.
 

To delete one character, move the under bar to the character to be deleted and then press the NORMAL button.



To delete all the entered name, hold down the CTL button then press the NORMAL button.
  - The above is the same procedure of the signal entry. See page 27 for more details.
  - The screen will return to the “SOURCE INFORMATION” screen.

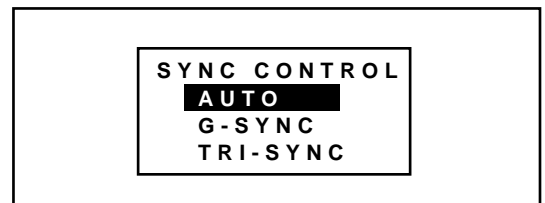
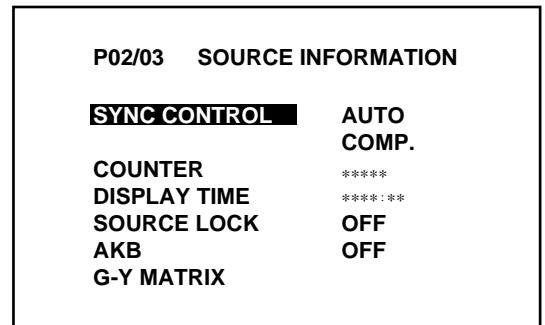


■ **Setting “SYNC CONTROL”**

This function is used to select the detection method of the sync signal for an RGB signal.

To do this, proceed as follows:

- 1) Use the CURSOR buttons to select “SYNC CONTROL” and then press ENTER.
  - The “SYNC CONTROL” menu will be displayed.
  
- 2) Use the CURSOR  or  button to select either “AUTO”, “G-SYNC”, or “TRI-SYNC” and press ENTER.
  - The screen will return to the “SOURCE INFORMATION” screen.
  - When “AUTO” is selected, the sync type will be displayed.
  - Select “AUTO” in normal operation.



**On-screen display**

- AUTO ----- Detects automatically a composite or HV separate sync signal.
- G-SYNC -- When sync on green and HV separate signals are accepted at the same time, the screen may be greenish. If this happens, select this “G-SYNC” to return to the normal screen.
- TRI-SYNC Selects a tri-sync signal (HDTV signal).

### ■ Setting “COUNTER”

This function is used to reset the number of times a signal is selected for display.

- 1) Use the CURSOR buttons to select the “COUNTER” and then press ENTER.
  - The “COUNTER RESET?” screen will be displayed.
  
- 2) Use the CURSOR  or  button to select either “YES” or “NO” and then press ENTER.
  - To reset the counter, select “YES”. If you do not need to reset, select “NO”.
  - The screen will return to the “SOURCE INFORMATION” screen.

P02/03 SOURCE INFORMATION	
SYNC CONTROL	AUTO COMP.
<b>COUNTER</b>	****
DISPLAY TIME	****:***
SOURCE LOCK	OFF
AKB	OFF
G-Y MATRIX	

COUNTER RESET?	
<b>YES</b>	NO

### ■ Setting “DISPLAY TIME”

This function is used to reset the time of signal display.

- 1) Use the CURSOR buttons to select “DISPLAY TIME” and then press ENTER.
  - The “DISPLAY TIME RESET?” screen will be displayed.
  
- 2) Use the CURSOR  or  button to select either “YES” or “NO” and then press ENTER.
  - To reset the timer, select “YES”. If you do not need to reset, select “NO”.
  - The screen will return to the “SOURCE INFORMATION” screen.

P02/03 SOURCE INFORMATION	
SYNC CONTROL	AUTO COMP.
COUNTER	****
<b>DISPLAY TIME</b>	****:***
SOURCE LOCK	OFF
AKB	OFF
G-Y MATRIX	

DISPLAY TIME RESET?	
<b>YES</b>	NO

■ Setting “SOURCE LOCK”

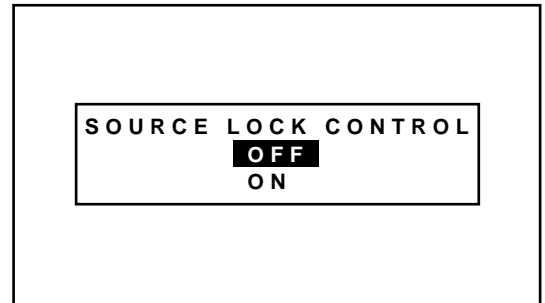
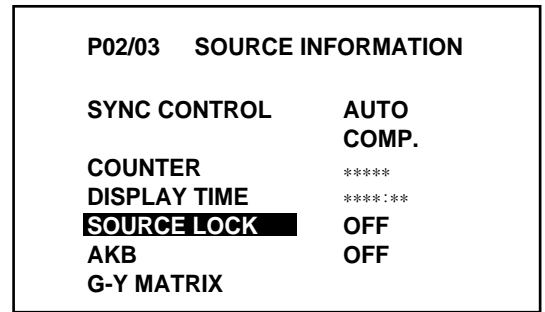
This function is used to stop the projector’s automatic signal discrimination of various RGB signals.

Set the lock control to the ON position when connecting an intermittent or low quality signal.

- 1) Use the CURSOR buttons to select “SOURCE LOCK” and press ENTER.
  - The “SOURCE LOCK CONTROL” menu will be displayed.
- 2) Use the CURSOR  or  button to select either “OFF” or “ON” and press ENTER.
  - The screen will return to the “SOURCE INFORMATION” screen.
  - Select “OFF” in normal operation.

Items to select

- ON ..... Activates the projector’s automatic signal discrimination of RGB signals.
- OFF ..... Deactivates the projector’s automatic signal discrimination of RGB signals.



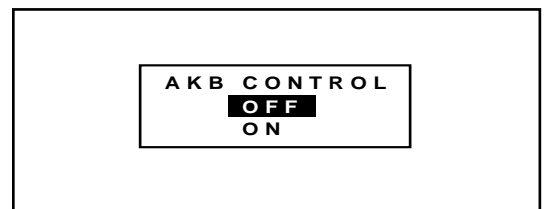
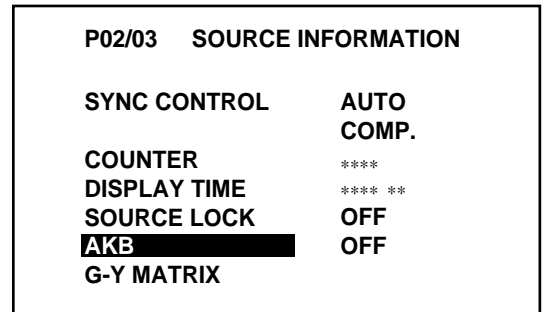
■ Setting “AKB”

This function is used to activate the auto white balance control.

- 1) Use the CURSOR buttons to select “AKB” and then press ENTER.
  - The “AKB CONTROL” menu will be displayed.
- 2) Use the CURSOR  or  button to select either “OFF” or “ON” and then press ENTER.
  - The screen will return to the “SOURCE INFORMATION” screen.

**NOTE:** When “ON” is selected, the AKB detection signal will appear on the top of the screen. If you wish to remove it, select “OFF”.

- If the projector is used on the AKB OFF for an extended period, it could affect the white balance settings. To avoid this, set AKB to ON periodically.



### ■ Setting “G-Y MATRIX”

This function is used to set a matrix ratio for a COMPONENT signal.

Note that this function is not available unless a COMPONENT signal is accepted.

To do this, proceed as follows:

- 1) Use the CURSOR buttons to select “G-Y MATRIX” and press ENTER.
  - The “G-Y MATRIX” menu will be displayed.
- 2) Use the CURSOR  or  button to select an item and press ENTER.
  - The screen will return to the “SOURCE INFORMATION” screen.

#### Items to select

- HD ----- For an HDTV signal
- NTSC 1-3 ----- For a DVD signal

#### P02/03 SOURCE INFORMATION

SYNC CONTROL	AUTO COMP.
COUNTER	****
DISPLAY TIME	**** **
SOURCE LOCK	OFF
AKB	OFF
<b>G-Y MATRIX</b>	

#### G-Y MATRIX

**HD**

NTSC1

NTSC2

NTSC3

■ **Selecting “POSITION”**

This function is used to select the vertical area mode for the “POSITION-SHIFT” adjustment.

To do this, proceed as follows:

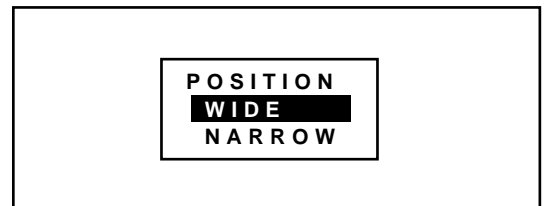
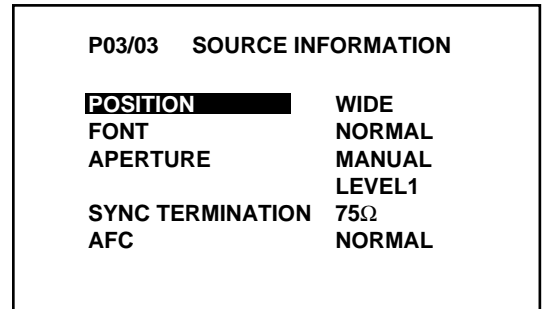
- 1) Use the CURSOR buttons to select “POSITION” and then press ENTER.
  - The “POSITION” menu will be displayed.

- 2) Use the CURSOR  or  button to select either “WIDE” or “NARROW” and then press ENTER.
  - The screen will return to the “SOURCE INFORMATION” screen.
  - Select “WIDE” in normal operation.

**Items to select**

- WIDE ..... Adjustment area is wide.
- NARROW . Adjustment area is narrow.

NOTE: Selecting “NARROW” may solve problems caused by an interlace input signal.



■ **Setting “FONT”**

This function is used to specify the appropriate font size to the on-screen message.

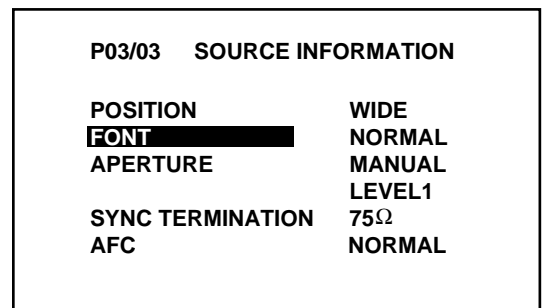
To do this, proceed as follows:

- 1) Use the CURSOR buttons to select “FONT” and then press ENTER.
  - The “FONT SIZE” menu will be displayed.

- 2) Use the CURSOR  or  button to select either “NORMAL” or “SMALL” and then press ENTER.
  - The screen will return to the “SOURCE INFORMATION” screen.

**Items to select**

- NORMAL . Calculates the appropriate font size with the vertical scanning lines to display the on-screen message in the appropriate size.
- SMALL .... Displays the on-screen message in the font size of 75 percent of the NORMAL size.



■ **Setting “APERTURE”**

This function is used to correct picture edge by changing the frequency response. You can select two aperture modes: manual and auto.

- 1) Use the CURSOR buttons to select “APERTURE” , then press ENTER.
  - The “APERTURE “ menu will be displayed.
- 2) Use the CURSOR  or  button to select “MANUAL” or “AUTO”, then press ENTER.

**Items to select**

- MANUAL . Selects one of the eight aperture levels.
- AUTO ..... Corrects the aperture automatically according to the horizontal frequency of the input signal.

- When "MANUAL" is selected, the "LEVEL" menu is displayed. Use the CURSOR  or  button to select the desired correction level.
- The screen will return to the “SOURCE INFORMATION” screen.

**NOTE:** The default setting is "MANUAL-LEVEL 1".

P03/03	SOURCE INFORMATION
POSITION	WIDE
FONT	NORMAL
<b>APERTURE</b>	MANUAL
	LEVEL 1
SYNC TERMINATION	75Ω
AFC	NORMAL

<table border="1"> <tr> <td style="text-align: center;"> <b>APERTURE</b>  <b>MANUAL</b>                  AUTO             </td> </tr> </table>	<b>APERTURE</b> <b>MANUAL</b> AUTO
<b>APERTURE</b> <b>MANUAL</b> AUTO	

<table border="1"> <tr> <td style="text-align: center;">                 LEVEL                  LEVEL 0  <b>LEVEL 1</b>                  LEVEL 2                  LEVEL 3                  LEVEL 4                  LEVEL 5                  LEVEL 6                  LEVEL 7             </td> </tr> </table>	LEVEL LEVEL 0 <b>LEVEL 1</b> LEVEL 2 LEVEL 3 LEVEL 4 LEVEL 5 LEVEL 6 LEVEL 7
LEVEL LEVEL 0 <b>LEVEL 1</b> LEVEL 2 LEVEL 3 LEVEL 4 LEVEL 5 LEVEL 6 LEVEL 7	

■ **Setting “SYNC TERMINATION”**

This function is used to select the impedance of the sync signal.

- 1) Use the CURSOR buttons to select “SYNC TERMINATION” , then press ENTER.
  - The “SYNC TERMINATION” menu will be displayed.
- 2) Use the CURSOR  or  button to select “ 75 Ω” or “Hi-Z”, then press ENTER.
  - The screen will return to the “SOURCE INFORMATION” screen.

**NOTE:** The default setting is “75 Ω”.

This should be “75 Ω” for normal use. Select the “Hi-Z” when inputting a TTL signal.

P03/03	SOURCE INFORMATION
POSITION	WIDE
FONT	NORMAL
APERTURE	MANUAL
	LEVEL 1
<b>SYNC TERMINATION</b>	75Ω
AFC	NORMAL

<table border="1"> <tr> <td style="text-align: center;">                 SYNC TERMINAL  <b>75Ω</b>                  Hi-Z             </td> </tr> </table>	SYNC TERMINAL <b>75Ω</b> Hi-Z
SYNC TERMINAL <b>75Ω</b> Hi-Z	

■ **Setting “AFC”**

This function is used to reduce jitter by changing time-constant of AFC of the sync generator circuit.

- 1) Use the CURSOR buttons to select “AFC”, then press ENTER.
  - The “AFC” menu will be displayed.
- 2) Use the CURSOR  or  button to select “NORMAL” or “SLOW”, then press ENTER.
  - The screen will return to the “SOURCE INFORMATION” screen.

Items to select

- NORMAL ..... Standard AFC time-constant.
- ON ..... Slows the AFC time-constant.

**NOTE:** The default setting is NORMAL.

Although jitter will be reduced, image distortion may appear at the top of the screen if the AFC mode is set to SLOW.

P03/03	SOURCE INFORMATION
POSITION	WIDE
FONT	NORMAL
APERTURE	MANUAL
	LEVEL 1
SYNC TERMINATION	75Ω
<b>AFC</b>	NORMAL

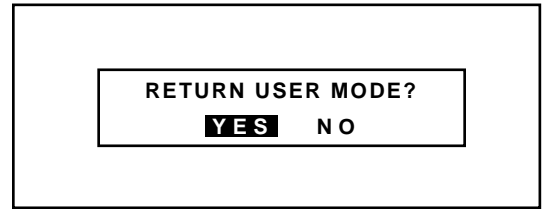
AFC
<b>NORMAL</b>
SLOW

**To complete, press the END button.**

- Whenever the END button is pressed, the menus will sequence in this order:  
“ADJUST” menu → Source screen
- When your passcode is in effect, the “RETURN USER MODE?” screen is displayed. If this happens, use the CURSOR  or  button to select either “YES” or “NO” and press ENTER.

**Items to select**

- YES ..... When you try to enter the ADJUST mode the next time, you will need to re-enter your passcode.
- NO ..... When you try to enter the ADJUST mode the next time, you will not need to re-enter your passcode.



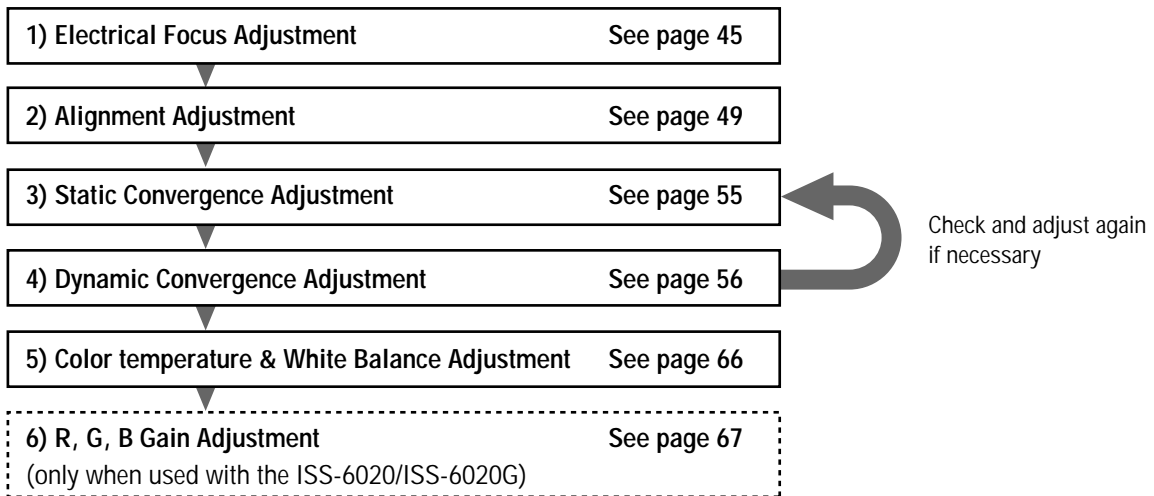
# ADJUSTMENT

## Set-Up Procedure

### Before adjusting

- 1 Installation of the projector.
- 2 Connect the external equipment to the projector.
- 3 Turn on power to the external equipment and the projector.
  - If you want to institute the use of a passcode, register the passcode. See page 69.
  - Carry out the adjustments after displaying an image for 20 minutes or more.
- 4 Select the input signal.
  - If your input signal has not been recorded, it is necessary to perform the signal entry beforehand. See page 23.

If you want to use the projector in any other configuration than the factory setting, perform the following after installation.



\*If a wrong button is pressed accidentally, an error message will appear.

\*Pressing the HELP button will display a brief description of the selected function and button operation instructions.





## Electrical Focus Adjustment

Adjust the focus electrically to obtain the best screen focus.

### NOTE:

- The adjustment must be done to each input.
- Select the FOCUS test pattern using the TEST button on the full function remote control.

Proceed as follows:

- 1 Press the ADJUST button to display the “ADJUST” menu.
  - The projector may ask you to enter your passcode.  
See page 68 for the explanation of the PASS CODE.
- 2 Use the CURSOR  or  button to highlight the “2/FOCUS” line. Press ENTER to display the FOCUS menu. You can also select the FOCUS menu directly by pressing the INPUT “2” button.
- 3 Use the CURSOR  or  button to highlight your preferred adjustment item. Press ENTER to display the selected adjustment screen.
  - You can also select the adjustment screen directly by pressing the INPUT “1” through “4” button.
  - For edge focus, you can select either “EDGE ALL” or “EDGE SEPA.” in the FOCUS EDGE mode of the OPTION menu.  
(See page 82).

### Items to select

- CENTER ..... The focus adjustment for the center of the screen (each CRT).
- EDGE ALL ..... The focus adjustment for the edge area of the screen (all CRTs).
- EDGE SEPA. .. The focus adjustment for the edge area of the screen (each CRT).
- CORNER. .... The focus adjustment for the corner of the screen (each CRT).

### NOTE:

- The adjustment screen can also be displayed by pressing the FOCUS button on the full function remote control. The FOCUS button rotates the adjustment screen in the above order.

```

- ADJUST -
1 / SIGNAL ENTRY
2 / FOCUS
3 / ALIGNMENT
4 / CONVERGENCE
5 / KELVIN
6 / R, G, B GAIN
7 / PASSCODE
8 / OPTION
9 / REF. ADJUST

```

```

- FOCUS -
1 / CENTER
2 / EDGE ALL
3 / EDGE SEPA.
4 / CORNER

```

## ADJUSTMENT

4 Press the R, G, and B button to project the CRT beam to be adjusted.

- You can turn on or off each CRT beam (R, G, and B) separately.

**NOTE:**

- The CENTER, EDGE SEPA., and CORNER focus adjustment should be performed for each CRT separately.
- The EDGE ALL focus adjustment affects all the three CRTs at the same time.

5 Hold down the CTL button then select the CRT you wish to adjust with the R, G, and B button.





- The display of the corresponding CRT will change from one CRT to another.

**NOTE:**

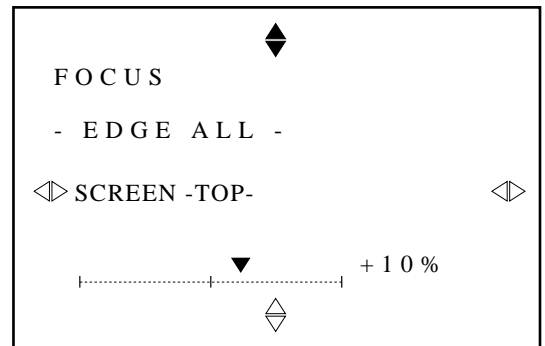
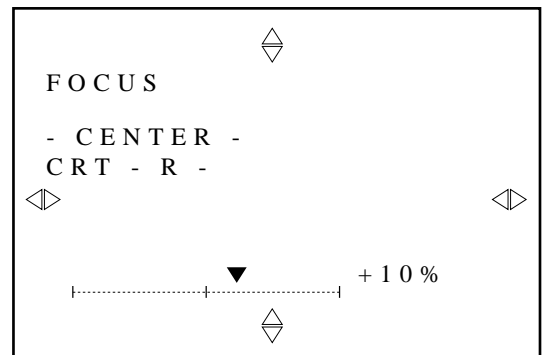
- You do not need to select the CRT color for the EDGE ALL focus.
- Always be aware of what color the on-screen CRT display is showing (R, G, B) when "CENTER", "EDGE SEPA.", or "CORNER" is selected. If that color's test pattern is turned off, any adjustment to that color will display the "THIS COLOR IS NOT APPLICABLE" message.

6 Use the CURSOR buttons to adjust the focus.

**■ When selecting "CENTER"**

- Pressing the  or  button increases the control levels of the center focus. (The gauge mark in the scale moves to the right.)
- Pressing the  or  button decreases the control levels of the center focus. (The gauge mark in the scale moves to the left.)



To switch to the "EDGE ALL" or "EDGE SEPA." mode: press and hold CTL, then press CURSOR button.







### ■ When selecting “EDGE ALL”/“EDGE SEPA.”





1) Press and hold the CTL button then press any one of the CURSOR buttons to select the position to be adjusted. (The marker on the selected side will turn to a solid color.)

CTL +  (Top)      CTL +  (Right)





CTL +  (Bottom)      CTL +  (Left)

- To switch to Bottom from Top, press and hold CTL, then press CURSOR  twice.
- To switch to Top from Bottom, press and hold CTL, then press CURSOR  twice.
- To switch to Left from Right, press and hold CTL, then press CURSOR  twice.
- To switch to Right from Left, press and hold CTL, then press CURSOR  twice.

2) Use the CURSOR buttons to adjust the focus.

- Pressing the  or  button increases the control levels of the edge focus. (The gauge mark in the scale moves to the right.)
- Pressing the  or  button decreases the control levels of the edge focus. (The gauge mark in the scale moves to the left.)

3) To switch to the CENTER screen, use the CTL and CURSOR buttons as follows:


- To switch to CENTER from Top, press and hold CTL, then press CURSOR .
- To switch to CENTER from Bottom, press and hold CTL, then press CURSOR .
- To switch to CENTER from Right, press and hold CTL, then press CURSOR .
- To switch to CENTER from Left, press and hold CTL, then press CURSOR .

### ■ When selecting “CORNER”





• Press and hold the CTL button then press any one of the CURSOR buttons to select the position to be adjusted. (The marker on the selected side will turn to a solid color.)

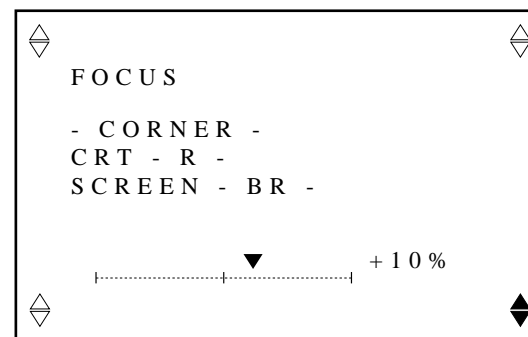
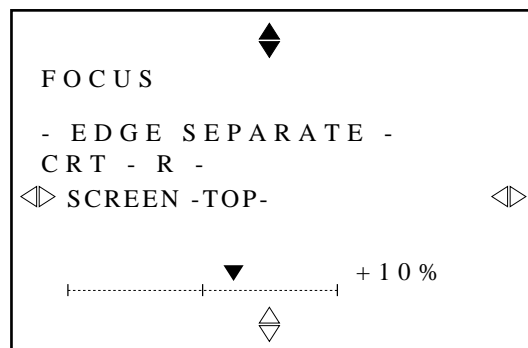
CTL +  ..... TR (Top right)

CTL +  ..... BR (Bottom right)

CTL +  ..... TL (Top left)

CTL +  ..... BL (Bottom left)

- Use the CURSOR buttons to adjust the focus.  
Pressing the  or  button increases the control levels of the corner focus. (The gauge mark in the scale moves to the right.)  
Pressing the  or  button decreases the control levels of the corner focus. (The gauge mark in the scale moves to the left.)



## ADJUSTMENT

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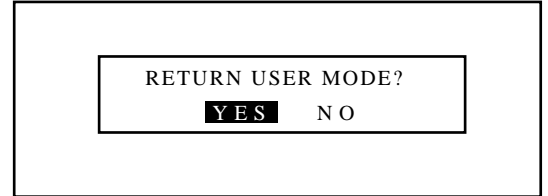
- 7 Repeat steps 4 to 6 for the other CRTs if necessary.
- 8 To end this adjustment, press the END button.
  - Whenever the END button is pressed, the menu will sequence in this order:  
“FOCUS” menu → “ADJUST” menu → Source screen
  - If the “RETURN USER MODE?” menu appears, use the CURSOR  or  button to select either “YES” or “NO” and then press ENTER. This will exit the ADJUST mode.

### Items to select

- YES ..... When you try to enter the ADJUST mode the next time, you will need to re-enter your passcode.
- NO ..... When you try to enter the ADJUST mode the next time, you will not need to re-enter your passcode.

**NOTE:** The center focus for the Blue CRT is pre-adjusted so that the best white uniformity can be obtained at the gauge center (0%). For this reason, it has been set at the factory to be slightly out of focus.

Therefore you should not perform the center focus adjustment to the Blue CRT with the remote control.



## Alignment Adjustment

Correct the horizontal and vertical error for the projected image.

**NOTE:** Select the CROSS-COARSE test pattern using the TEST button on the full function remote control.

Proceed as follows:

- 1 Press the ADJUST button to display the “ADJUST” menu.
  - The projector may ask you to enter your passcode.  
See page 68 for the explanation of the PASSCODE.
- 2 Use the CURSOR  or  button to highlight the “3/ALIGNMENT” line. Press ENTER to display the “ALIGNMENT” menu. You can also select the “ALIGNMENT” menu directly by pressing the INPUT “3” button.
- 3 Use the CURSOR  or  button to select the preferred item. Press ENTER. You can also select the alignment item directly by pressing an INPUT button.
  - The selected adjustment screen will be displayed.  
See page 50 and 54 for the explanation of the selected adjustment.

### Items to select

- TILT SKEW ..... Adjusts the tilt and the skew
- BOW ..... Adjusts the horizontal and vertical bow
- AMPLITUDE ..... Adjusts the horizontal and vertical amplitude of the projected image
- LINEARITY ..... Adjusts the horizontal and vertical linearity
- KEY-STONE ..... Adjusts the horizontal and vertical keystone
- PIN-CUSHION ..... Adjusts the horizontal and vertical pincushion
- LINEAR-BAL ..... Adjusts the horizontal and vertical linearity balance
- KEY-BALANCE ..... Adjusts the horizontal and vertical keystone tilt balance
- PIN-BALANCE ..... Adjusts the horizontal and vertical pincushion bow balance
- LINE DIST ..... Adjusts S shaped distortion of vertical and horizontal lines
- R,G,B POINT ..... Adjusts the horizontal and vertical line in detail using a intersections on the CROSS-COARSE pattern as a reference point

```

- ADJUST -
1 / SIGNAL ENTRY
2 / FOCUS
3 / ALIGNMENT
4 / CONVERGENCE
5 / KELVIN
6 / R,G,B GAIN
7 / PASSCODE
8 / OPTION
9 / REF.ADJUST

```





```

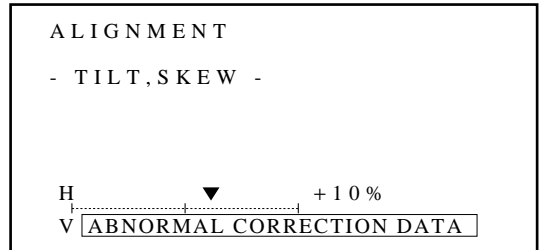
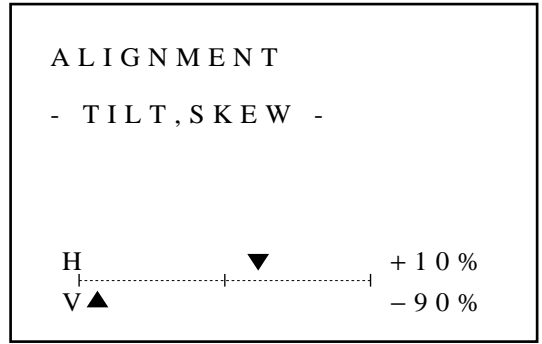
- ALIGNMENT -
01 / TILT,SKEW
02 / BOW
03 / AMPLITUDE
04 / LINEARITY
05 / KEY-STONE
06 / PIN-CUSHION
07 / LINEAR-BAL
08 / KEY-BALANCE
09 / PIN-BALANCE
10 / LINE DIST
11 / R,G,B POINT

```

**NOTE:** You can also select adjustments directly using buttons on the full function remote control. If you are in the CONVERGENCE mode (see page 56), press and hold down the CTL button then press the G button. This will bring you to the ALIGNMENT adjustment screen. To select the “LINEAR-BAL”, “KEY-BALANCE”, or “PIN-BALANCE”, or “LINE DIST”. alignment, press and hold down the CTL button then press the LINEAR,KEYSTN, PINCUS, or BOW button respectively.



**ADJUSTMENT**

- 4 Press the R, G, and B buttons to display only the Green pattern.
  - You can turn on or off each CRT beam (R, G or B) separately.
  - To access the CONVERGENCE screen (see page 56), press and hold down the CTL button then press the R or B button.
- 5 Use the CURSOR buttons to adjust the alignment of the projected pattern.
  - The CURSOR  or  button increases or decreases the horizontal level.
  - The CURSOR  or  button increases or decreases the vertical level.

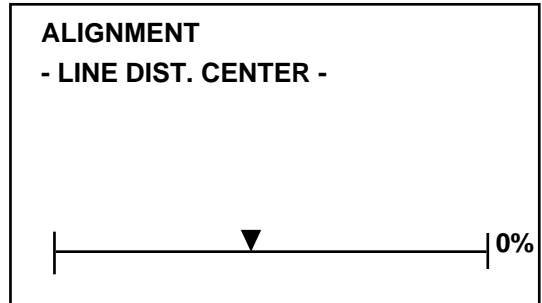
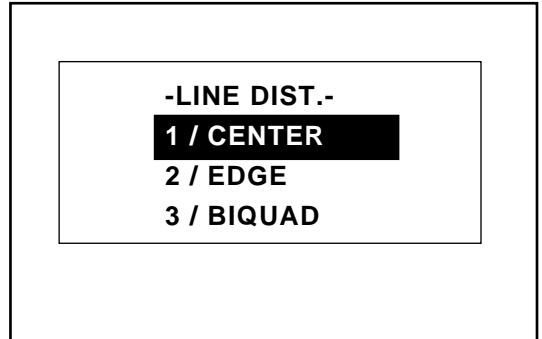


During alignment or convergence adjustment, if the projector acknowledges that your adjustment is overcorrected, the "ABNORMAL CORRECTION DATA" message appears. The data is cancelled at that moment. If this happens, reduce the total amount of the current adjustment data.

**■ Adjusting LINE DISTORTION**





- 1) Select the "10/LINE DIST." item then press ENTER.
  - The "LINE DIST." menu is displayed.
- 2) Use the CURSOR  or  buttons to select the item and press ENTER to display the selected adjustment screen. You can also select the item directly by pressing the corresponding INPUT number button.
  - The selected adjustment screen is displayed.
  - The adjustment screen can also be displayed by holding and pressing the CTL, then the BOW button on the full function remote control. Each press of the BOW button with pressed CTL toggles the adjustment screen between CENTER, EDGE and BIQUAD.

<b>Items to select</b>	
• CENTER .....	Corrects S-shaped horizontal lines distortion on the screen.
• EDGE .....	Corrects S-shaped lines distortion around the perimeter of the screen.
• BIQUAD .....	Corrects biquadratic distortion at the top and bottom of the screen.







3) Use the CURSOR buttons to align the pattern.





When selecting "CENTER":



- Pressing the CURSOR  or  button increases the level.
- Pressing the CURSOR  or  button decreases the level.

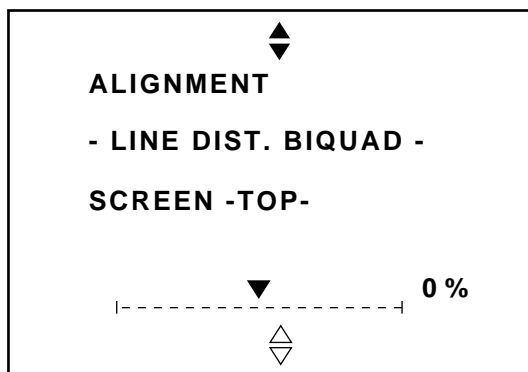
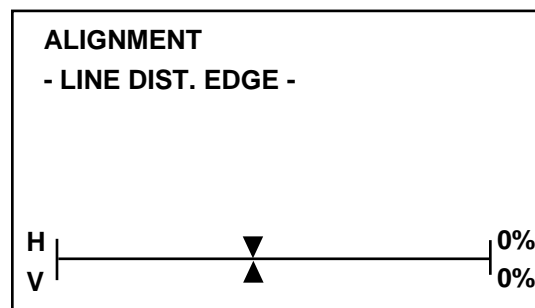
When selecting "EDGE":

- Pressing the CURSOR  or  button corrects the vertical lines.
- Pressing the CURSOR  or  button corrects the horizontal lines.

When selecting "BIQUAD":

- Pressing the CURSOR  or  increases the level.
- Pressing the CURSOR  or  decreases the level.

To switch to the adjustment position, press and hold CTL and then press CURSOR  or  button.





## ■ Adjusting R,G,B POINT

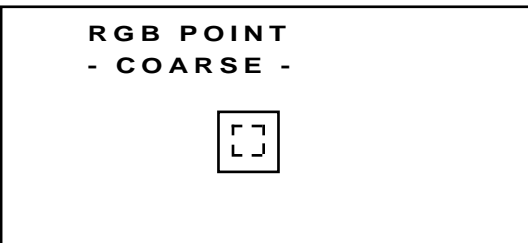
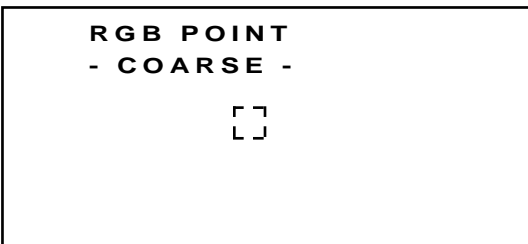
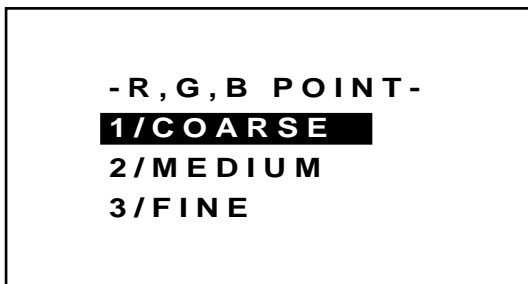
### NOTE:

- The R,G,B POINT adjustments should only be done if necessary. Over adjusting them may cause the picture distortion.
- The alignment adjustment affects three CRTs at the same time while the convergence adjustment needs to be performed for each CRT (R and B) separately.

1) Select "11/R,G,B POINT" from the "ALIGNMENT" menu and press ENTER to display the "R,G,B POINT" menu. For dynamic convergence, select "9/POINT" from the "CONVERGENCE" menu and press ENTER to display the "POINT" menu.

2) Use the CURSOR  or  button to select the item and press ENTER to display the selected adjustment screen. You can also select the item directly by pressing the corresponding INPUT number button.







- The "CROSS-COARSE" test pattern will be automatically displayed.
- The R,G,B POINT screen in the alignment mode or the POINT adjustment screen in the convergence mode can be also displayed by pressing the POINT button on the full function remote control. The POINT button rotates the adjustment screen in the following order: COARSE, MEDIUM, FINE.





## ADJUSTMENT

### Items to select

- COARSE ..... Coarse adjustment. Number of adjustment zones is 3 x 3.
- MEDIUM ..... Number of adjustment zones is 7 x 7.
- FINE ..... Fine adjustment. Number of adjustment points is 13 x 16.

- 3) Use the CURSOR  or  buttons to move the cursor mark to the point to be adjusted.
- Pressing the CURSOR  button moves the cursor to the right. Pressing the CURSOR  button moves the cursor to the left. Pressing the CURSOR  button moves the cursor to the top. Pressing the CURSOR  button moves the cursor to the bottom.
- 4) For alignment, hold down the CTL button, then use the CURSOR buttons to align the pattern. For convergence, hold down the CTL button and then use the CURSOR buttons to align the Red or Blue pattern with the Green pattern.

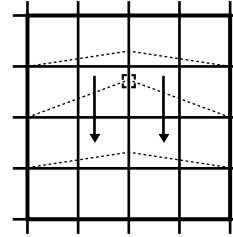
**NOTE:** For more accurate convergence correction on edges, perform the amplitude and linearity adjustments before the POINT convergence adjustment.

- 6 To end this adjustment, press the END button.
- Whenever the END button is pressed, the menus will sequence in this order:  
“ALIGNMENT” menu → “ADJUST” menu → Source screen
  - If the “RETURN USER MODE?” menu appears, use the CURSOR  or  button to select either “YES” or “NO” and then press ENTER. This will exit the ADJUST mode.

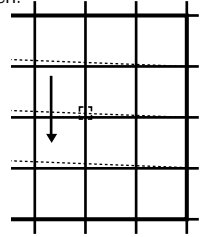
### Items to select

- YES ..... When you try to enter the ADJUST mode again, you will need to re-enter your passcode.
- NO ..... When you try to enter the ADJUST mode again, you will not need to re-enter your passcode.



When the adjustment area frame is a box type.



When the adjustment area frame is a box with one side open.



When FINE is selected, the adjustment area frame is not displayed.

-  : adjustment area frame
-  : adjustment

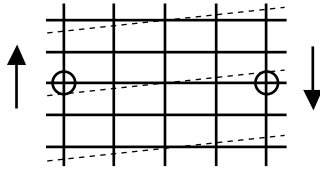
RETURN USER MODE?

**YES** NO

**Alignment Adjustment Items**

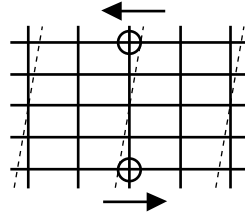
**TILT**

Adjust horizontal center line.



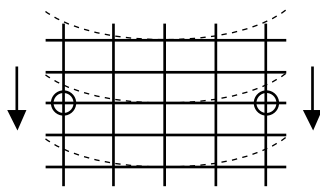
**SKEW**

Adjust vertical center line.



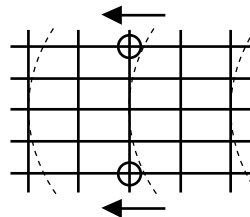
**Vertical BOW**

Adjust horizontal center line bow.



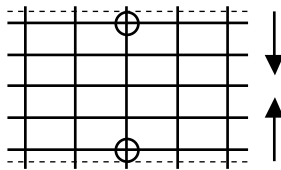
**Horizontal BOW**

Adjust vertical center line bow.



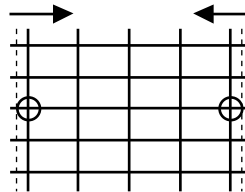
**Vertical AMPLITUDE**

Adjust vertical height of image.



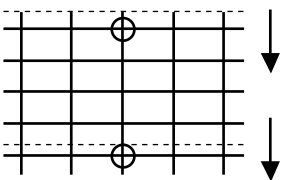
**Horizontal AMPLITUDE**

Adjust horizontal size of image.



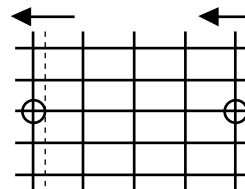
**Vertical LINEARITY**

Adjust top and bottom linearity.



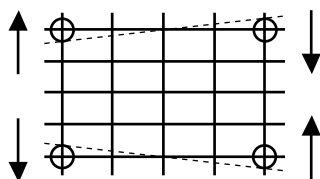
**Horizontal LINEARITY**

Adjust left and right linearity.



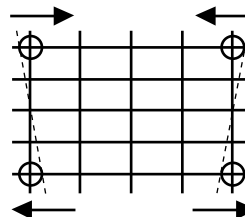
**Vertical KEYSTONE**

Adjust top and bottom keystone error.



**Horizontal KEYSTONE**

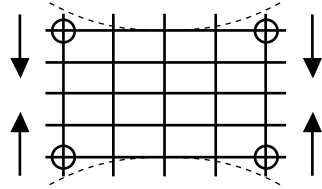
Adjust left and right keystone error.



**Alignment Adjustment Items**

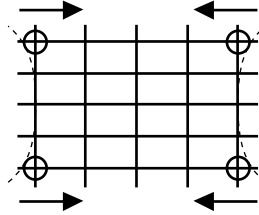
**Vertical PINCUSHION**

Equalize top and bottom pincushion error.



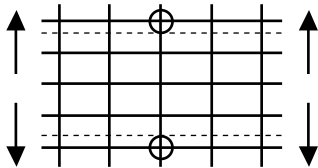
**Horizontal PINCUSHION**

Equalize left and right pincushion error.



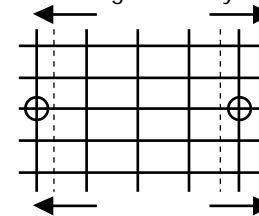
**Vertical LINEAR-BALANCE**

Equalize top and bottom linearity balance error.



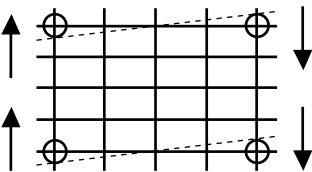
**Horizontal LINEAR-BALANCE**

Equalize left and right linearity balance error.



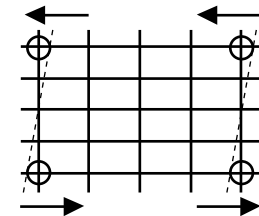
**Vertical KEY-BALANCE**

Equalize top and bottom keystone balance error.



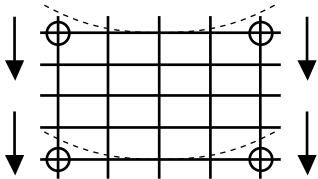
**Horizontal KEY-BALANCE**

Equalize left and right keystone balance error.



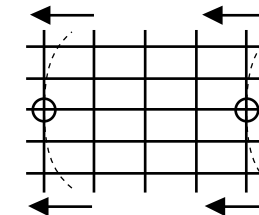
**Vertical PIN-BALANCE**

Equalize top and bottom pincushion balance error.



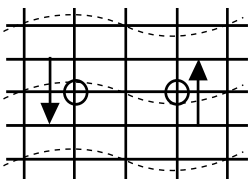
**Horizontal PIN-BALANCE**

Equalize left and right pincushion balance error.



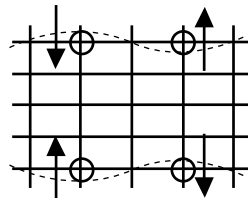
**LINE DIST. CENTER**

Correct S-shaped horizontal line



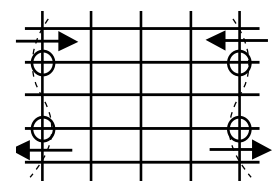
**Vertical LINE DIST. EDGE**

Correct S-shaped horizontal line



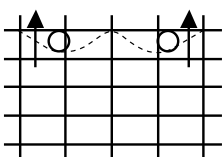
**Horizontal LINE DIST. EDGE**

Correct S-shaped vertical line

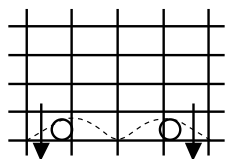


**LINE DIST. BIQUAD**

Correct biquadratic distortion



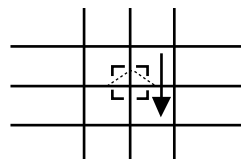
Marker up



Marker down

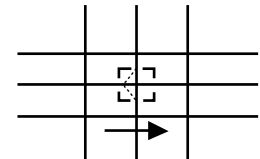
**Vertical POINT**

Adjust the point peak vertically



**Horizontal POINT**

Adjust the point peak horizontally





## Static Convergence Adjustment

Adjust the red and blue CRT images to position them over the green test pattern (center portion only).

**NOTE:** The static convergence adjustment should be performed for each CRT (R and B) separately. Carry out the adjustment after displaying an active image for 20 minutes or more.

Proceed as follows:





- 1 Press the OPERATE button.
  - The “OPERATE” menu is displayed.
- 2 Use the CURSOR  or  button to highlight the “6/STATIC” line. Press ENTER to display the STATIC adjustment. You can also select the STATIC adjustment screen directly by pressing the INPUT “6” button.
  - The CROSS-HAIR test pattern will be automatically displayed.

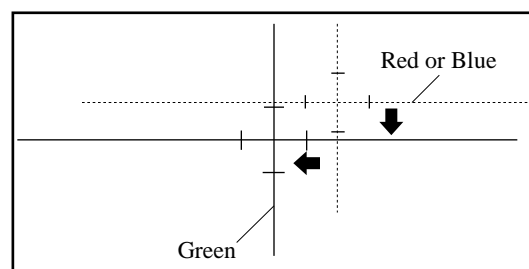
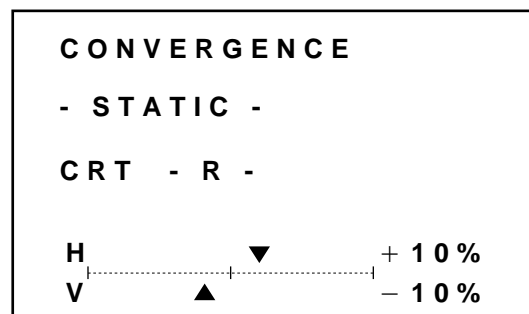
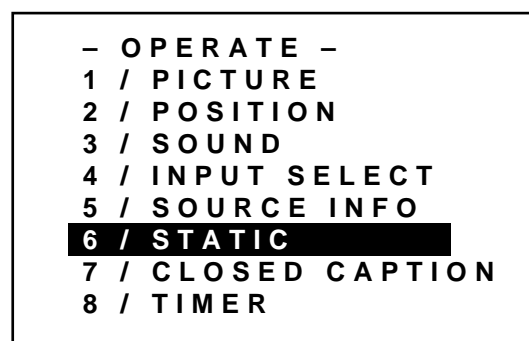
**NOTE:** When you are in the ADJUST mode, selecting the STATIC mode will not automatically select the CROSS-HAIR test pattern. Reselect the pattern using the TEST button.

**NOTE:** The “STATIC” adjustment can be also displayed by pressing the STATIC button on the user or full function remote control.

- 3 Press the R or B button to display the pattern to be aligned with the Green pattern.
  - You can turn on or off each CRT beam (R and B) separately.
- 4 Hold down the CTL button then select the CRT you wish to adjust with the R and B buttons.

**NOTE:** Always be aware of what color the on-screen CRT display is showing (R, G, B). If that color’s test pattern is turned off, any adjustment to that color will display the “THIS COLOR IS NOT APPLICABLE” message.

- 5 Align the center of the Red or the Blue pattern with the center of the Green pattern (reference color) using the CURSOR buttons.
  - The CURSOR  or  button moves the pattern left or right.
  - The CURSOR  or  button moves the pattern up or down.
- 6 Repeat steps 3 to 5 for the other CRTs if necessary.
- 7 To end this adjustment, press the END button.
  - Whenever the END button is pressed, the menus will sequence in this order:  
“OPERATE” menu → Source screen







## Dynamic Convergence Adjustment

Corrects the horizontal and vertical error for each color and align the red and blue to the green.

**NOTE:**

- The dynamic convergence adjustment should be performed for each CRT (R and B) separately.
- Select the CROSS-COARSE test pattern using the TEST button on the full function remote control.

Proceed as follows:

- 1 Press the ADJUST button to display the “ADJUST” menu.
  - The projector may ask you to enter your passcode.  
See page 68 for the explanation of the PASSCODE.
- 2 Use the CURSOR  or  button to highlight the “4/CONVERGENCE” line. Press ENTER to display the “CONVERGENCE” menu. You can also select the “CONVERGENCE” menu directly by pressing the INPUT “4” button.
- 3 Use the CURSOR  or  button to select the preferred item and then press ENTER. You can also select directly the dynamic convergence item by pressing an INPUT button.
  - The selected adjustment will be displayed.  
See pages 57 to 65 for the explanation of the selected adjustment.

**NOTE:**

- You can also select adjustments directly using buttons on the full function remote control. If you are in the ALIGNMENT mode (see page 49), press and hold down the CTL button then press the R or B button. This will bring you to the CONVERGENCE adjustment screen. To select “LINEAR-BAL” convergence, press and hold down the CTL button then press the LINEAR button.
- To select “LINE DIST.” convergence, press and hold down the CTL button then press the BOW button.

- 4 Press the R or B button to display the CRT beam to be aligned with the Green pattern.
  - You can turn on or off each CRT beam (R and B) separately.

```

- ADJUST -
1 / SIGNAL ENTRY
2 / FOCUS
3 / ALIGNMENT
4 / CONVERGENCE
5 / KELVIN
6 / R, G, B GAIN
7 / PASSCODE
8 / OPTION
9 / REF. ADJUST
    
```

```

- CONVERGENCE -
1 / TILT, SKEW
2 / BOW
3 / AMPLITUDE
4 / LINEARITY
5 / KEY-STONE
6 / PIN-CUSHION
7 / LINEAR-BAL
8 / LINE DIST.
9 / POINT
10 / PHASE
    
```

- 5 Hold down the CTL button then select the CRT you wish to adjust with the R and B buttons.

**NOTE:** Always be aware of what color the on-screen CRT display is showing (R, B). If that color's test pattern is turned off, any adjustment to that color displays the "THIS COLOR IS NOT APPLICABLE" message.

- To access the ALIGNMENT screen (see page 49), press and hold down the CTL button then press the G button.
- 6 Align the Red or the Blue pattern with the Green pattern using the CURSOR buttons.
    - The CURSOR button or increases or decreases H level. The CURSOR button or increases or decreases V level. The following are the description of the KEYSTONE, PIN-CUSHION, LINEAR-BALANCE , LINE DIST.and POINT adjustment.

**■ KEYSTONE, PINCUSHION, and LINEAR-BALANCE**

- Press and hold the CTL button then press any one of the CURSOR buttons to select the position to be adjusted.

- CTL + .... (Top)
- CTL + .... (Bottom)
- CTL + .... (Right)
- CTL + .... (Left)

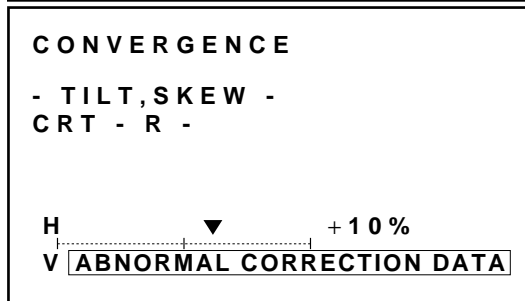
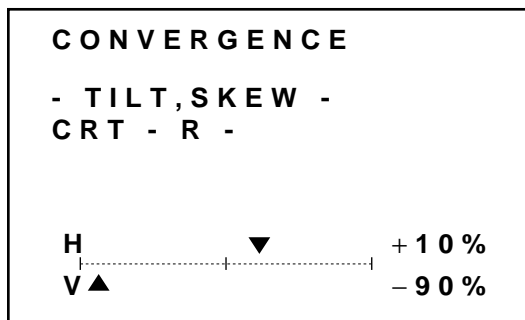
- Use the CURSOR buttons to correct the error.

**■ Adjusting LINE DISTORTION**

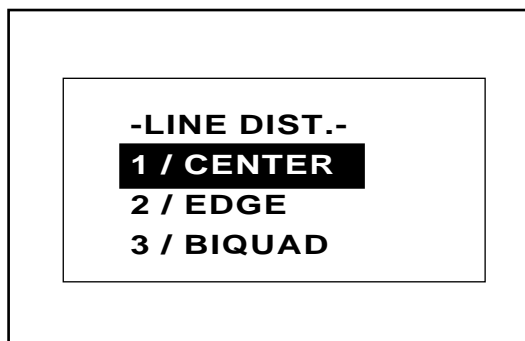
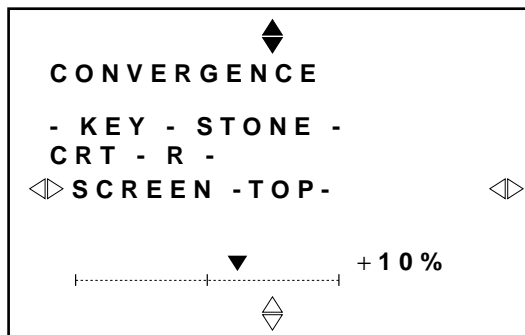
- 1) Select the "8/LINE DIST." item then press ENTER.
  - The "LINE DIST." menu is displayed.
- 2) Use the CURSOR or buttons to select the item and press ENTER to display the selected adjustment screen. You can also select the item directly by pressing the corresponding INPUT number button.
  - The selected adjustment screen is displayed.
  - The adjustment screen can also be displayed by holding and pressing the CTL, then the BOW button on the full function remote control. Each press of the BOW button with pressed CTL toggles the adjustment screen between CENTER , EDGE and BIQUAD.

**Items to select**

- CENTER ..... Corrects S-shaped horizontal lines distortion on the screen.
- EDGE ..... Corrects S-shaped lines distortion around the perimeter of the screen.
- BIQUAD ..... Corrects biquadratic distortion at the top and bottom of the screen.







During alignment or convergence adjustment, if the projector acknowledges that your adjustment is overcorrected, the "ABNORMAL CORRECTION DATA" message appears. The data is cancelled at that moment. If this happens, reduce the total amount of the current adjustment data.





## ADJUSTMENT





3) Use the CURSOR buttons to align the pattern.



When selecting "CENTER":

- Pressing the CURSOR  or  button increases the level.
- Pressing the CURSOR  or  button decreases the level.





To switch to the "EDGE" screen, press and hold the CTL, then press CUSOR  or  button.



When selecting "EDGE":

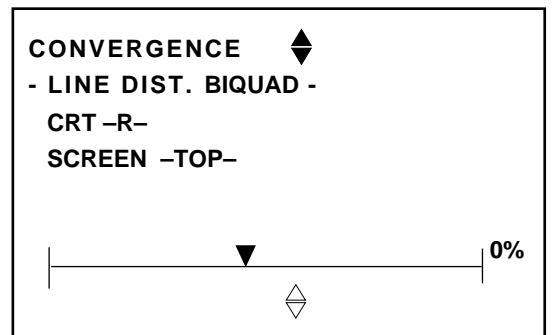
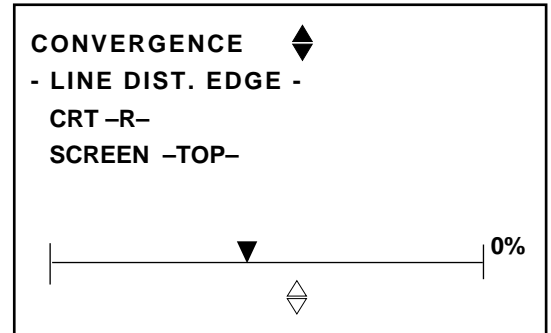
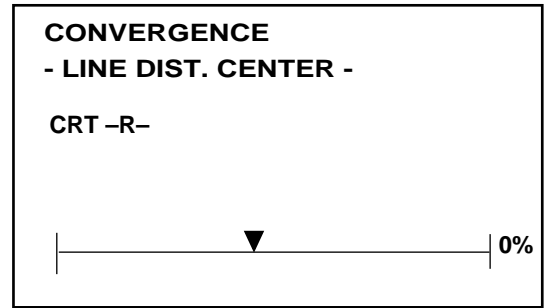
- Pressing the CURSOR  or  button increases the level.
- Pressing the CURSOR  or  button decreases the level.

To switch another screen, press and hold the CTL, then press CUSOR  or  button.

When selecting "BIQUAD":

- Pressing the CURSOR  or  button increases the level.
- Pressing the CURSOR  or  button decreases the level.



To switch to the adjustment position, press and hold CTL and then press CURSOR  or  button.



## ■ Adjusting POINT







**NOTE:**

- The POINT adjustments should only be done if necessary. Over adjusting them may cause the picture distortion.
- The convergence adjustment needs to be performed for each CRT (R and B) separately.

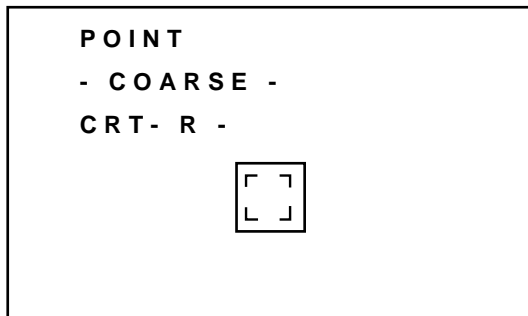
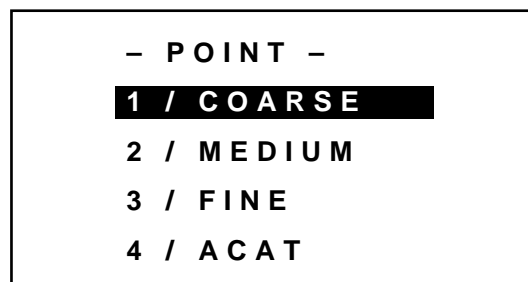
- 1) Select "9/POINT" from the "CONVERGENCE" menu and press ENTER to display the "POINT" menu. For alignment, select "11/R,G,B POINT" from the "ALIGNMENT" menu and press ENTER to display the "R,G,B POINT" menu.
- 2) Use the CURSOR  or  button to select the item and press ENTER to display the selected adjustment screen. You can also select the item directly by pressing the corresponding INPUT number button.
  - The "CROSS-COARSE" test pattern will be automatically displayed.
  - The POINT convergence screen can be also displayed by pressing the POINT button on the full function remote control. The POINT button rotates the adjustment screen in the following order: COARSE, MEDIUM, FINE.

**Items to select**

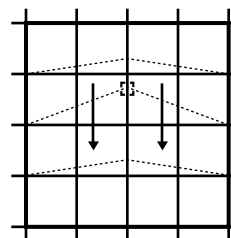
- COARSE ..... Coarse adjustment. Number of adjustment zones is 3 x 3.
- MEDIUM ..... Number of adjustment zones is 7 x 7.
- FINE ..... Fine adjustment. Number of adjustment points is 13 x 16.

- 3) Use the CURSOR  or  buttons to move the cursor mark to the point to be adjusted.
  - Pressing the CURSOR  button moves the cursor to the right. Pressing the CURSOR  button moves the cursor to the left. Pressing the CURSOR  button moves the cursor to the top. Pressing the CURSOR  button moves the cursor to the bottom.
- 4) For alignment, hold down the CTL button, then use the CURSOR buttons to align the pattern. For convergence, hold down the CTL button and then use the CURSOR buttons to align the Red or Blue pattern with the Green pattern.

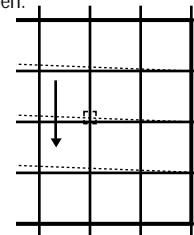
**NOTE:** For more accurate convergence correction on edges, perform the amplitude and linearity adjustments before the POINT convergence adjustment.



When the adjustment area frame is a box type.



When the adjustment area frame is a box with one side open.



When FINE is selected, the adjustment area frame is not display.



### ■ Adjusting POINT ACAT

This feature automatically corrects convergence for overall screen adjusting 13 convergence points on R and B CRT respectively.

#### Before adjusting

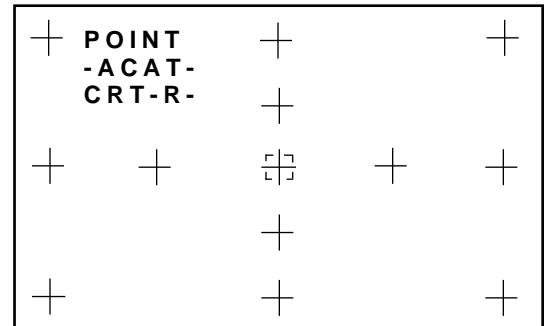
- To improve accuracy on convergence correction, you must first adjust the convergence phase and the cursor phase for the best image.
- You can also correct the static convergence using ACAT feature. For more accurate ACAT convergence correction, first perform the static convergence using STATIC feature on OPERATE menu or pressing the STATIC button on the remote control.
- You must adjust the convergence to all the 13 points because ACAT feature calculates all the adjustment values on the entire screen based on the adjustments values of 13 points on the screen.
- If convergence points on the edges go out of screen, reduce the horizontal and the vertical amplitude settings using the amplitude feature of the ALIGNMENT menu so that all the 13 convergence points can be seen on the screen. After adjusting ACAT, return the horizontal and the vertical amplitude settings to their original and store them.
- The POINT ACAT convergence adjustment is done roughly. So performing the POINT ACAT can change the convergence adjustment settings even if you finely adjust the convergence adjustment.

Proceed as follows:

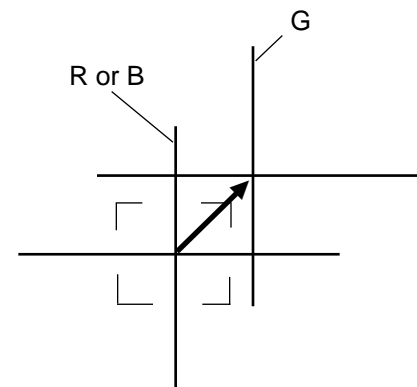
- 1) Use the CURSOR  $\leftarrow$  or  $\rightarrow$  button to select the "4/ACAT" item and then press ENTER. You can also select "ACAT" item directly by pressing an INPUT "4" button.
  - The ACAT adjustment screen will be displayed.
  - You can also select the ACAT adjustment screen directly by pressing and holding CTL and pressing POINT button on the full function remote control.



- 2) Hold down the CTL button then press the R or B button to select the CRT you wish to adjust.



- 3) Use the CURSOR buttons to move the point cursor to the point where you want to adjust, then hold down the CTL button and press any one of the CURSOR buttons to align a point of intersection of the Red or the Blue pattern with a point of intersection of the Green pattern (reference color).
  - Hold down the CTL button and press the CURSOR  $\leftarrow$  or  $\rightarrow$  to move the point cursor on the selected CRT color horizontally.
  - Hold down the CTL button and press the CURSOR  $\uparrow$  or  $\downarrow$  to move the point cursor on the selected CRT color vertically.
- 4) After adjusting all the points, press the ENTER button.
  - The projector automatically corrects the convergence of the whole screen.



**NOTE:**

- The POINT ACAT adjustment may be required two or three times to improve accuracy depending on the installation condition.
- There may be some cases where you cannot get completely corrected convergence on the edges of the screen. If this happens, perform convergence adjustments other than POINT ACAT.
- If you decreased the horizontal or/and vertical amplitude and then performed the POINT ACAT adjustment, return the adjustment to its previous state.

## ADJUSTMENT

### ■ Adjusting PHASE

This adjustment corrects the phase of convergence wave forms.

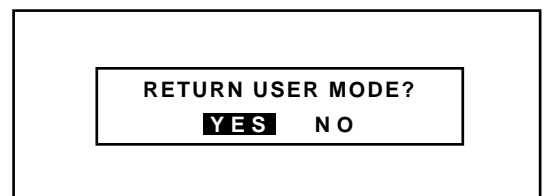
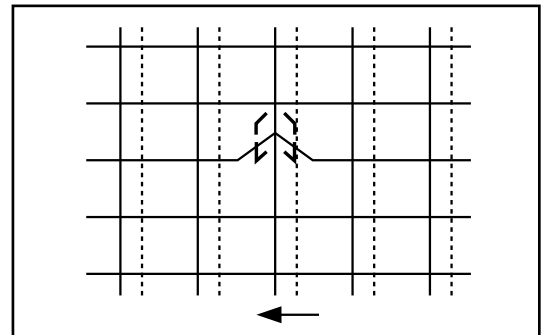
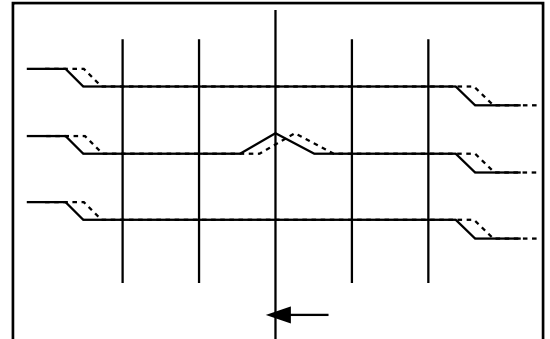
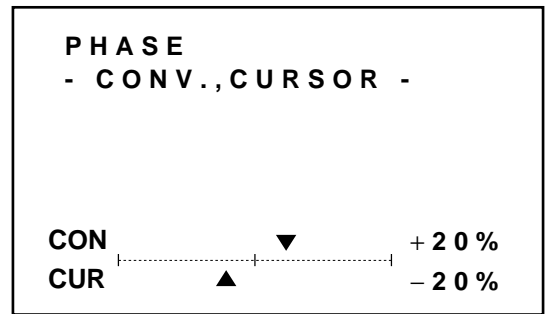
**NOTE:** Since the projector has been pre-adjusted for the optimal phase adjustments at the factory, further adjustment should not be required in normal operation. In some cases, carrying this adjustment causes convergence to change.

- 1) Select "10/PHASE" and press ENTER to display the phase adjustment screen.
    - The CROSS-COARSE test pattern will be automatically displayed and the adjustments will be cancelled. You can also display the adjustment screen by pressing PHASE button on the service remote control.
  - 2) Use the CURSOR  or  button to adjust the convergence phase (for horizontal line). Adjust the pattern so the sharp turns at the left and right edges in the diagonal lines are equal.
  - 3) Use the CURSOR  or  button to adjust the cursor phase (for vertical line). Align the vertical center line of the point cursor with the point peak.
- 7 Repeat steps 3 to 6 for the other CRTs if necessary.
- Pressing the END button will bring you to the "CONVERGENCE" menu.
- 8 To exit, press END.
- Whenever the END button is pressed, the menus will sequence in this order:  
"CONVERGENCE" menu → "ADJUST" menu → Source screen
  - If the "RETURN USER MODE?" menu appears, use the CURSOR  or  button to select either "YES" or "NO" and then press ENTER. This will exit the ADJUST mode.

#### Items to select

- YES ..... When you try to enter the ADJUST mode again, you will need to re-enter your passcode.
- NO ..... When you try to enter the ADJUST mode again, you will not need to re-enter your passcode.

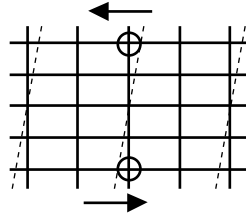
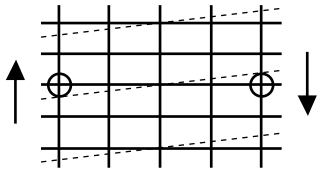
**NOTE:** Adjusting the dynamic convergence may cause the static convergence settings to change. If this happens, adjust the static convergence again.



**Convergence Adjustment Items**

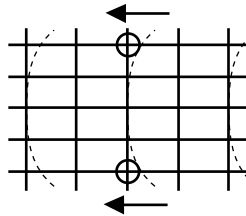
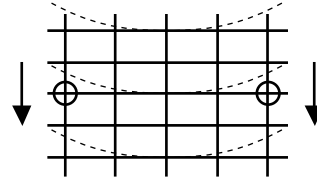
**TILT**

Adjust horizontal center line.



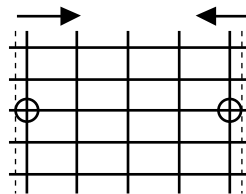
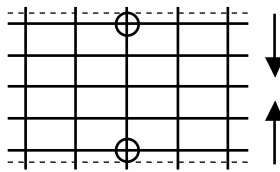
**Vertical BOW**

Adjust horizontal center line bow.



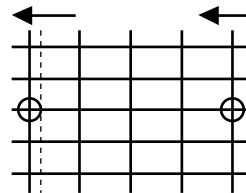
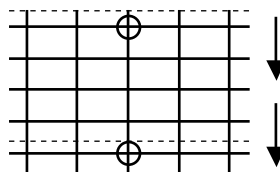
**Vertical AMPLITUDE**

Adjust top and bottom height.



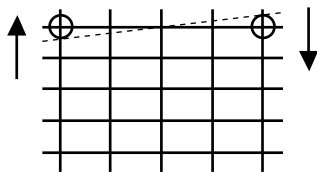
**Vertical LINEARITY**

Adjust top and bottom linearity.

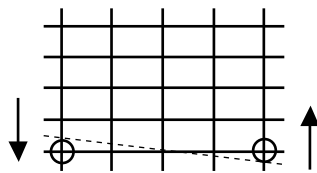


**KEYSTONE**

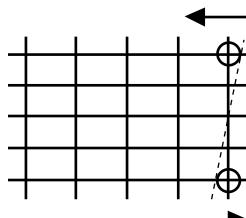
Adjust the selected part.



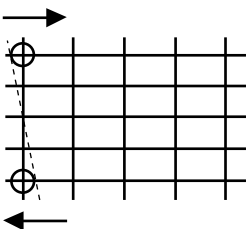
When TOP is selected



When BOTTOM is selected



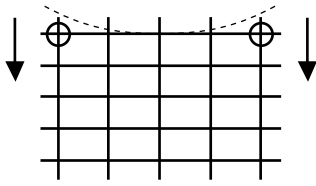
When RIGHT is selected



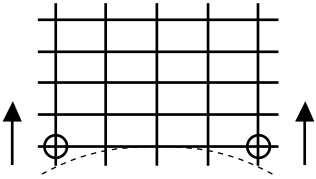
When LEFT is selected

**ADJUSTMENT**

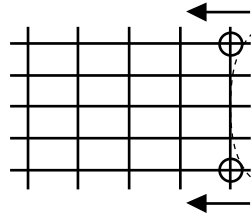
**PINCUSHION**



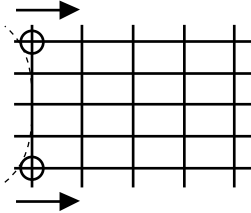
When TOP is selected



When BOTTOM is selected



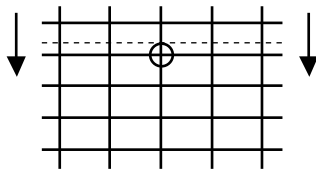
When RIGHT is selected



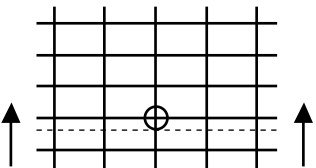
When LEFT is selected

**LINEAR-BALANCE**

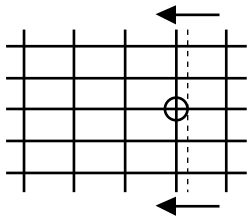
Adjust the selected part.



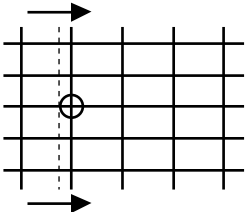
When TOP is selected



When BOTTOM is selected



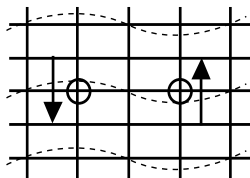
When RIGHT is selected



When LEFT is selected

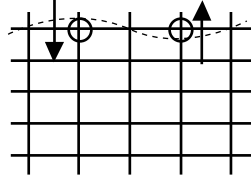
**LINE DIST. CENTER**

Correct S-shaped horizontal line

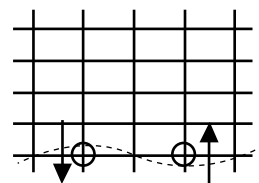


**LINE DIST. EDGE**

Correct S-shaped horizontal line



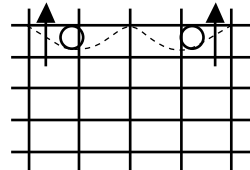
When TOP is selected



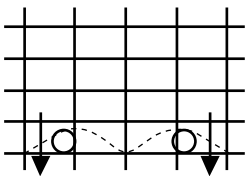
When BOTTOM is selected

**LINE DIST. BIQUAD**

Correct biquadratic distortion



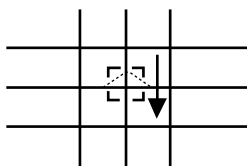
Marker up



Marker down

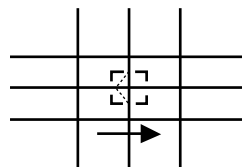
**Vertical POINT**

Adjust the point peak vertically



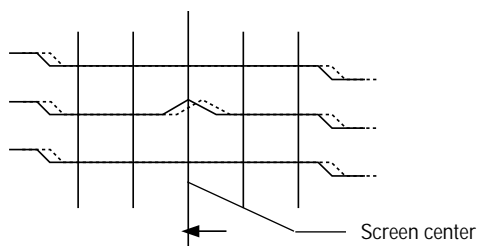
**Horizontal POINT**

Adjust the point peak horizontally



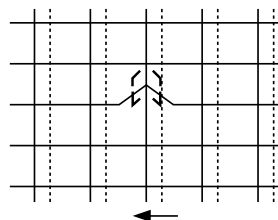
**PHASE CONV. PHASE**

Adjust the pattern so the sharp turns at the left and right edges in the diagonal lines are equal.



**CURSOR PHASE**

Align the vertical center line of the point cursor with the point peak.







## Color Temperature and White Balance Adjustment

Adjusts the color temperature and the white balance.





**NOTE:**

- When you are in this adjustment mode, all the CRTs will be in use. The white balance adjustment should be performed for each CRT (R, G, and B) separately. The CRT beam cannot be cut-off.





Proceed as follows:



- 1 Press the ADJUST button to display the “ADJUST” menu.
  - The projector may ask you to enter your passcode. See page 68 for the explanation of the PASSCODE.
- 2 Use the CURSOR  or  button to highlight the “5/KELVIN” line. Press ENTER to switch to the “KELVIN.” menu. You can also select the “KELVIN.” menu directly by pressing the INPUT “5” button.
- 3 Use the CURSOR  or  button to select “COLOR TEMP.” or “WHITE BAL.” menu.
  - The “COLOR TEMPERATURE” and “WHITE BALANCE” adjustment screen can be also displayed by using the KELVIN button on the full function remote control.

**■ When selecting “COLOR TEMP”**

- Press ENTER to display the COLOR TEMPERATURE screen.
- Pressing  or  increases the color temperature.
- Pressing  or  decreases the color temperature.
- The color temperature ranges from 3200 to 9500K.

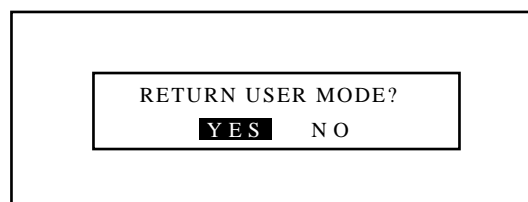
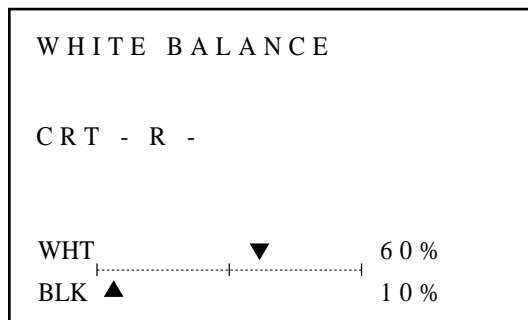
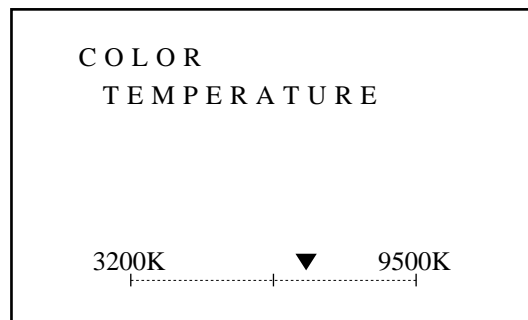
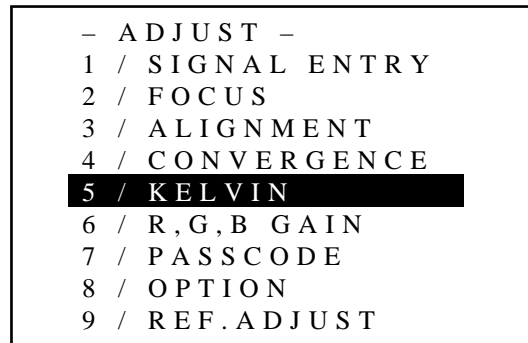
**■ When selecting “WHITE BAL”**

- Press ENTER to display the WHITE BALANCE screen.
- Hold down the CTL button then select the CRT you wish to adjust with the R, G and B buttons.
- Use the CURSOR buttons to adjust the white and the black level.
- The CURSOR  button increases the white level. The CURSOR  button decreases the white level.
  - The CURSOR  button increases the black level. The CURSOR  button decreases the black level.

- 4 Repeat the above steps for the other CRTs if necessary.
- 5 To end this adjustment, press the END button.
  - Whenever the END button is pressed, the menus will sequence in this order.  
“ADJUST” menu → Source screen
  - If the “RETURN USER MODE?” menu appears, use the CURSOR  or  button to select either “YES” or “NO” and then press ENTER. This will exit the ADJUST mode.

**Items to select**

- YES ..... When you try to enter the ADJUST mode again, you will need to re-enter your passcode.
- NO ..... When you try to enter the ADJUST mode again, you will not need to re-enter your passcode.









## R, G, and B Gain Adjustment



Adjusts the input level of the signal.

**NOTE:** This adjustment works only with the ISS-6020/ISS-6020G Switcher.

Proceed as follows:

- 1 Press the ADJUST button to display the “ADJUST” menu.
  - The projector may ask you to enter your passcode.  
See page 68 for the explanation of the PASSCODE.
- 2 Use the CURSOR  or  button to highlight the “6/R, G, B GAIN” line. Press ENTER to display the “R, G, B GAIN” adjustment screen. You can also select the “R, G, B GAIN” adjustment screen directly by pressing the INPUT “6” button.
- 3 Hold down the CTL button then select the CRT you wish to adjust with the R, G, and B buttons.
- 4 Use the CURSOR buttons to adjust the level of the input signal.
  - The CURSOR ,  button increases the input level.
  - The CURSOR ,  button decreases the input level.

**NOTE:** Connect the projector and the Switcher with an oscilloscope, then adjust the CURSOR buttons to obtain a value of 0.7Vp-p of the projector input level or the Switcher output level on the oscilloscope.

- 5 Repeat steps 3 and 4 for other input signals if necessary.
- 6 To end this adjustment, press END.
  - Whenever the END button is pressed, the menus will sequence in this order:  
“ADJUST” menu → Source screen
  - If the “RETURN USER MODE?” menu appears, use the CURSOR  or  button to select either “YES” or “NO” and then press ENTER. This will exit the ADJUST mode.

### Items to select

- YES ..... When you try to enter the ADJUST mode again, you will need to re-enter your passcode.
- NO ..... When you try to enter the ADJUST mode again, you will not need to re-enter your passcode.

```

- ADJUST -
1 / SIGNAL ENTRY
2 / FOCUS
3 / ALIGNMENT
4 / CONVERGENCE
5 / KELVIN
6 / R, G, B GAIN
7 / PASSCODE
8 / OPTION
9 / REF. ADJUST
  
```

R, G, B GAIN

CRT - R -

-----▼----- 60 %

RETURN USER MODE?

**YES** NO

# PASSCODE

---

## Entering Passcode

To prevent any unauthorized operation or mis-adjustment, the projector is equipped with a passcode option. If your passcode has not been entered correctly, the “ADJUST” and “REF. ADJUST” menus will not be displayed. When the ADJUST button is pressed, and no passcode has been entered, the “PASSCODE?” screen is displayed. Enter your passcode.

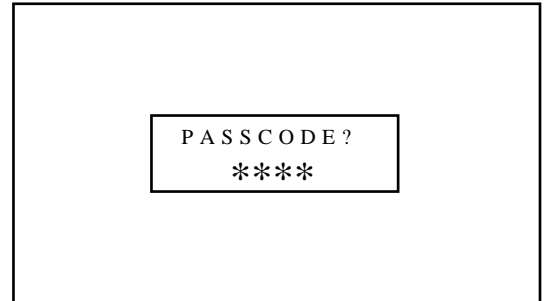
To do this, proceed as follows:

- 1 Press the ADJUST button.
  - The “PASSCODE?” screen is displayed.
  
- 2 Enter the four digit passcode you have already registered by using the “1” through “0” buttons.
  - 1) Each time you press the INPUT button, an asterisk appears under the “PASSCODE?” message.
  - 2) After you have finished entering the four digit passcode, press ENTER.

**NOTE:** If you have made an error, press the NORMAL button to delete the asterisk “\*”. Then re-enter the correct passcode. To delete all the entered digits, hold down the CTL button then press the NORMAL button.

- 3) If the entered passcode is correct, the “ADJUST” menu is displayed.

**NOTE:** If the passcode is not correct, the “WARNING DIFFERENT PASSCODE!!” message is displayed and you are required to enter the correct passcode.







- 3 Proceed to each adjustment and setting.

## Registering Passcode

When the projector is shipped from the factory, no passcode is registered. If you want to use the passcode option, you must register a passcode.

To register a new passcode, proceed as follows:

- 1 Press the ADJUST button.
  - The “ADJUST” menu will be displayed.
  
- 2 Use the CURSOR  or  button to highlight the “7/ PASSCODE” line. Press ENTER to display the “PASSCODE” menu. You can also select the “PASSCODE” menu directly by pressing the INPUT “7” button.
  
- 3 Use the CURSOR  or  button to select “ENTRY”. Press ENTER to display the “NEW PASSCODE?” menu. You can also select the “NEW PASSCODE?” menu directly by pressing the INPUT “1” button.

```

- ADJUST -
1 / SIGNAL ENTRY
2 / FOCUS
3 / ALIGNMENT
4 / CONVERGENCE
5 / KELVIN
6 / R, G, B GAIN
7 / PASSCODE
8 / OPTION
9 / REF. ADJUST
  
```

```

- PASSCODE -
1 / ENTRY
2 / DISABLE
  
```

- 4 Enter a four digit passcode using the “1” through “0” buttons.
  - 1) Each time you press the INPUT button, an asterisk will appear under the “NEW PASSCODE?” message.

**NOTE:** “0000” and “9999” cannot be used as a passcode.

- 2) Once you have finished entering your four digit passcode, press ENTER to store the code.

**NOTE:** If you have made an error, press the NORMAL button to delete the asterisk “\*”. Then re-enter the correct passcode. To delete all the entered digits, hold down the CTL button then press the NORMAL button.

- 3) If the passcode has been entered correctly, the “CONFIRM NEW PASSCODE?” menu will be displayed.

**NOTE:** If the passcode is not entered correctly, the “WARNING PASSCODE!!” message will be displayed. You will be required to enter the passcode correctly.

```

NEW PASSCODE?
  
```

```

- - - -
  
```

## PASSCODE

---

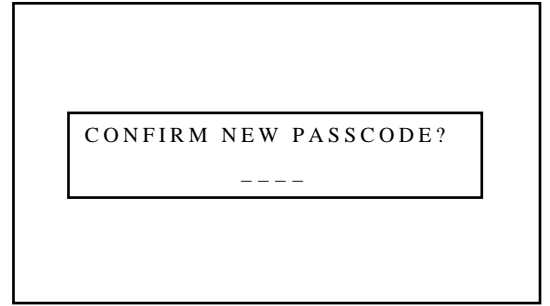
5 Enter the new passcode again.

- 1) Each time you press the INPUT button, an asterisk will appear under the “CONFIRM NEW PASSCODE?” message.
- 2) Once you have finished entering the new four digit passcode, press ENTER.

**NOTE:** If you have made an error, press the NORMAL button to delete the asterisk “\*”. Then re-enter the correct passcode. To delete all the entered digits, hold down the CTL button then press the NORMAL button.

- 3) If the entered passcode is correct, the “CHANGE PASSCODE COMPLETE!!” message will be displayed.

**NOTE:** If the passcode is not correct, the “WARNING DIFFERENT PASSCODE!!” message will be displayed. You are required to enter the new passcode correctly.

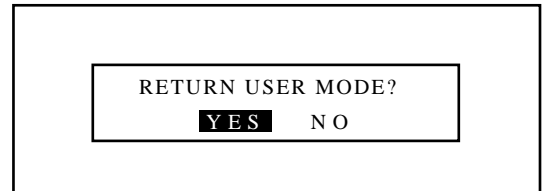


6 To complete, press the END button.

- When the END button is pressed once, the “RETURN USER MODE?” menu will be displayed. Use the CURSOR  or  button to select either “YES” or “NO” and then press ENTER. This will exit the ADJUST mode.





### Items to select

- YES ..... When you try to enter the ADJUST mode again, you will need to re-enter your passcode.
- NO ..... When you try to enter the ADJUST mode again, you will not need to re-enter your passcode.



## Changing Your Passcode

To change your passcode, proceed as follows:

- 1 Press the ADJUST button.
  - The “PASSCODE?” screen will be displayed.
  
- 2 Enter the four digit current passcode using the “1” through “0” buttons. Press ENTER.
  - The “ADJUST” menu will be displayed.
  
- 3 Use the CURSOR  or  button to highlight the “7/PASSCODE” line. Press ENTER to display the “PASSCODE” menu. You can also select the “PASSCODE” menu directly by pressing the INPUT “7” button.
  
- 4 Use the CURSOR  or  button to select “1/ENTRY”. Press ENTER to display the “CURRENT PASSCODE?” menu. You can also select the “CURRENT PASSCODE?” menu directly by pressing the INPUT “1” button.
  
- 5 Enter the four digit passcode (the current passcode) using the “1” through “0” buttons.
  - 1) Each time you press the INPUT button, an asterisk will appear under the “CURRENT PASSCODE?” message.
  - 2) Once you have finished entering the four digit passcode, press ENTER.

**NOTE:** If you have made an error, press the NORMAL button to delete the asterisk “\*”. Then re-enter the correct passcode. To delete all the entered digits, hold down the CTL button then press the NORMAL button.

3) If the entered passcode is correct, the “NEW PASSCODE?” screen will be displayed.

**NOTE:** If the passcode is not correct, the “WARNING DIFFERENT PASSCODE!!” message is displayed. You will be required to enter the correct current passcode.

```

- ADJUST -
1 / SIGNAL ENTRY
2 / FOCUS
3 / ALIGNMENT
4 / CONVERGENCE
5 / KELVIN
6 / R,G,B GAIN
7 / PASSCODE
8 / OPTION
9 / REF.ADJUST
  
```

```

- PASSCODE -
1 / ENTRY
2 / DISABLE
  
```

```

CURRENT PASSCODE?
*****
  
```

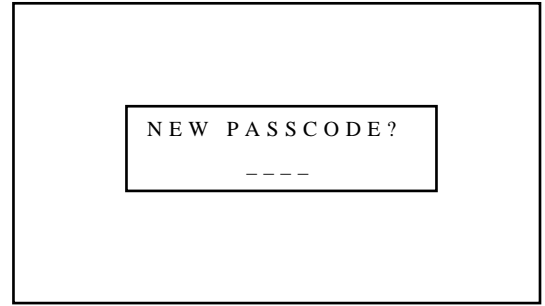
## PASSCODE

- 6 Enter a new passcode using the “1” through “0” buttons.
- 1) Each time you press the INPUT button, an asterisk will appear under the “NEW PASSCODE?” message.
  - 2) Once you have finished entering the four digit new passcode, press ENTER.

**NOTE:** If you have made an error, press the NORMAL button to delete the asterisk “\*”. Then re-enter the correct passcode. To delete all the entered digits, hold down the CTL button then press the NORMAL button.

- 3) If the passcode has been entered correctly, the “CONFIRM NEW PASSCODE?” menu will be displayed.

**NOTE:** If the passcode is not entered correctly, the “WARNING PASSCODE!!” message will be displayed. You are required to enter the new passcode correctly.

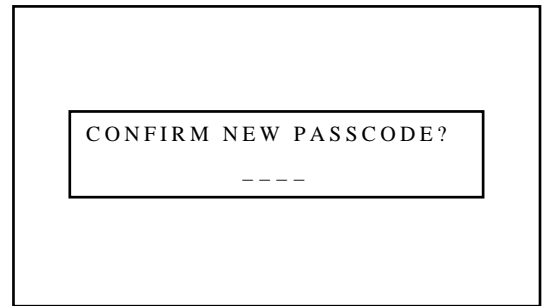


- 7 Enter the new passcode again using the “1” through “0” buttons.
- 1) Each time you press the INPUT button, an asterisk will appear under the “CONFIRM NEW PASSCODE?” message.
  - 2) Once you have finished entering the four digit new passcode, press ENTER.

**NOTE:** If you have made an error, press the NORMAL button to delete the asterisk “\*”. Then re-enter the correct passcode. To delete all the entered digits, hold down the CTL button then press the NORMAL button.

- 3) If the entered passcode is correct, the “CHANGE PASSCODE COMPLETE!!” message is displayed.

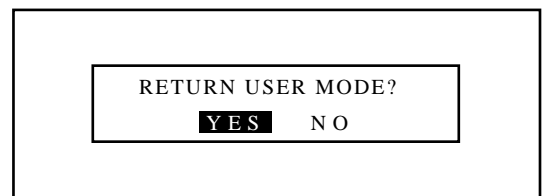
**NOTE:** If the passcode is not entered correctly, the “WARNING DIFFERENT PASSCODE!!” message is displayed. You will be required to enter the new passcode correctly.



- 8 To complete, press the END button.
- Whenever the END button is pressed, the “RETURN USER MODE?” menu will be displayed.  
Use the CURSOR  or  button to select either “YES” or “NO” and press ENTER. This will exit the ADJUST mode.





### Items to select

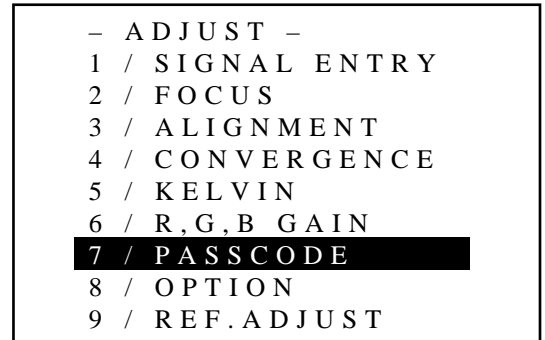
- YES ..... When you try to enter the ADJUST mode again, you will need to re-enter your passcode.
- NO ..... When you try to enter the ADJUST mode again, you will not need to re-enter your passcode.



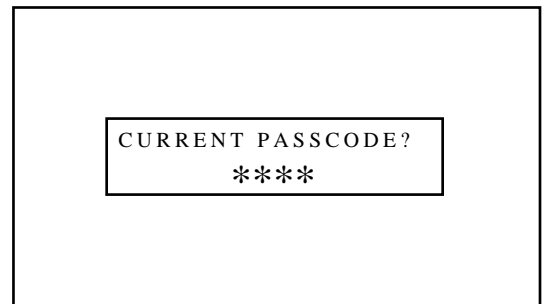
## Canceling Your Passcode

To cancel the passcode, proceed as follows:

- 1 Press the ADJUST button and then enter your passcode.
  - The “PASSCODE?” screen will be displayed.
  
- 2 Enter the four digit current passcode using the “1” through “0” buttons and then press ENTER.
  - The “ADJUST” menu will be displayed.
  
- 3 Use the CURSOR  or  button to highlight “7/PASSCODE”. Press the ENTER button to display the “PASSCODE” menu. You can also select the “PASSCODE” menu directly by pressing the INPUT “7” button.
  
- 4 Use the CURSOR  or  button to select “2/DISABLE”. Press ENTER to display the “CURRENT PASSCODE?” menu. You can also select the “CURRENT PASSCODE?” menu directly by pressing the INPUT “2” button.





- 5 Enter the four digit passcode (the current passcode) using the “1” through “0” buttons.
  - 1) Each time you press the INPUT button, an asterisk will appear under the “CURRENT PASSCODE?” message.
  - 2) Once you have finished entering the four digit passcode, press ENTER.



**NOTE:** If you have made an error, press the NORMAL button to delete the asterisk “\*”. Then re-enter the correct passcode. To delete all the entered digits, hold down the CTL button then press the NORMAL button.

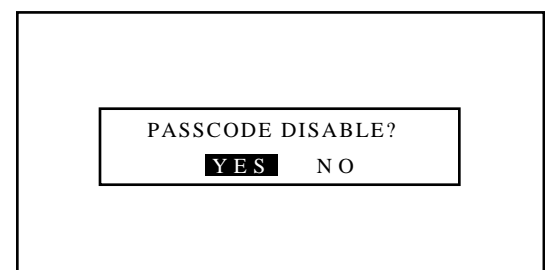
- 3) If the entered passcode is correct, the “PASSCODE DIS-ABLE?” menu will be displayed.

**NOTE:** If the passcode is not correct, the “WARNING DIFFER-ENT PASSCODE!!” message will be displayed. You will be required to enter your correct passcode.

- 6 Use the CURSOR  or  button to select either “YES” or “NO” and then press ENTER.

**Items to select**

- YES ..... When selecting “YES”, the current passcode will be canceled. You will not be required to re-enter your passcode when you press the ADJUST button to re-enter the ADJUST mode.
- NO ..... When selecting “NO”, the current passcode will remain in effect.



# SETTING

## Displaying the Various Setting Features

You can view some of the setting features and check to make sure that the settings are appropriate.

To display setting features on the screen, hold down CTL and press INFO.

To eliminate the display, press END.

The parameters cannot be changed on the SETTING VIEW screen shown on the right.

For changing parameters of the setting features, refer to the following pages.

**NOTE:** The INPUT TERMINAL item on the "SETTING MODE" menu cannot be changed.

P01/P03	OPTION	- SETTING MODE -
PJ ORIENTATION		CEILING FRONT
CONNECT CONDITION		STANDALONE
DEFAULT INPUT SELECT		LAST
FOCUS EDGE MODE		ALL
S-VIDEO MODE SELECT		S2
VIDEO MODE SELECT		AUTO

P02/P03	OPTION	- SETTING MODE -
AUTO POWER ON MODE		INACTIVE
WARM-UP MODE		INACTIVE
AUTOMATIC DATA STORE		DISABLE
PHOSPHOR SAVER		OFF
SIGNAL SWITCHING		SOUND MUTE ON PICTURE MUTE ON







P03/P03	OPTION	- SETTING MODE -
DIRECT ENTRY ACCESS		DISABLE
B-FOCUS TRACKING		OFF
OPTION TERM BAUD RATE		9600 BPS
RGB/COMPONENT SEARCH		MANUAL



## Projection Type Selection

This feature allows you to set the installation type according to the projection configuration.

### NOTE:

- You do not need to change the setting for XG-852C and XG-1352C. These models are pre-adjusted at the factory for "FLOOR/FRONT".

- Press the ADJUST button to display the "ADJUST" menu.
  - The projector may ask you to enter your passcode. See page 68 for the explanation of the PASSCODE.
- Use the CURSOR  or  button to highlight the "8/OPTION" line. Press ENTER to display the "OPTION" menu. You can also select the "OPTION" menu directly by pressing the INPUT "8" button.
- Use the CURSOR  or  button to highlight the "1/SETTING MODE" line. Press ENTER to display the "SETTING MODE" menu. You can also select the "SETTING MODE" menu directly by pressing the INPUT "1" button.
- Use the CURSOR  or  button to select the "PJ ORIENTATION" item, then press ENTER to display the "PJ ORIENTATION" menu.

**NOTE:** The SETTING MODE has three menus. The "PJ ORIENTATION" item is on the first menu (P01). To access P02 or P03 from P01, press and hold down the CTL button then press the  button; to return to P01 from P02 or P03, press and hold down the CTL button then press the  button.

```

- ADJUST -
1 / SIGNAL ENTRY
2 / FOCUS
3 / ALIGNMENT
4 / CONVERGENCE
5 / KELVIN
6 / R, G, B GAIN
7 / PASSCODE
8 / OPTION
9 / REF. ADJUST
  
```

```

- OPTION -
1 / SETTING MODE
2 / MENU MODE
3 / SEQUENCER
4 / PJ ADDRESS
5 / VERSION
6 / HOUR METER
7 / DEFAULT DATA
  
```

P01/P03	OPTION	- SETTING MODE -
	<b>PJ ORIENTATION</b>	CEILING FRONT
	CONNECT CONDITION	STANDALONE
	DEFAULT INPUT SELECT	LAST
	FOCUS EDGE MODE	ALL
	S-VIDEO MODE SELECT	S2
	VIDEO MODE SELECT	AUTO

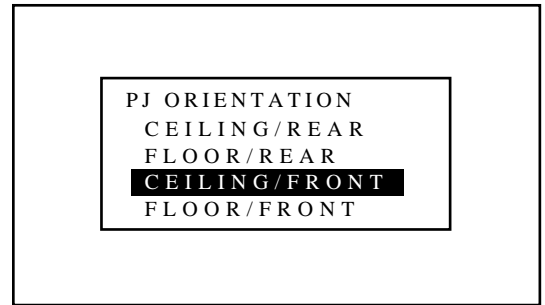
## SETTING

---

- 5 Use the CURSOR  or  button to select one of the four projector installation types and press ENTER.

**Items to select**

- CEILING/REAR .... Ceiling mounting type and rear projection
- FLOOR/REAR ..... Desk top type and rear projection
- CEILING/FRONT .. Ceiling mounting type and front projection
- FLOOR/FRONT ..... Desk top type and front projection

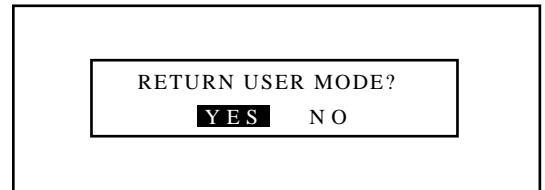


- 6 To complete, press the END button.

- Whenever the END button is pressed, the menus will sequence in this order:  
“OPTION” menu → “ADJUST” menu → Source screen
- If the “RETURN USER MODE?” menu appears, use the CURSOR  or  button to select either “YES” or “NO” and press ENTER. This will exit the ADJUST mode.


**Items to select**

- YES ..... When you try to enter the ADJUST mode the next time, you will need to re-enter your passcode.
- NO ..... When you try to enter the ADJUST mode the next time, you will not need to re-enter your passcode.





## Connecting to the Switcher

This setting explains how the projector is used with the ISS-6020/ISS-6020G Switcher.

- 1 Press the ADJUST button to display the “ADJUST” menu.
  - The projector may ask you to enter your passcode.  
See page 68 for the explanation of the PASSCODE.
- 2 Use the CURSOR  or  button to highlight the “8/OPTION” line. Press ENTER to display the “OPTION” menu. You can also select the “OPTION” menu directly by pressing the INPUT “8” button.



```



- ADJUST -
1 / SIGNAL ENTRY
2 / FOCUS
3 / ALIGNMENT
4 / CONVERGENCE
5 / KELVIN
6 / R,G,B GAIN
7 / PASSCODE
8 / OPTION
9 / REF.ADJUST
  
```

- 3 Use the CURSOR  or  button to highlight the “1/SETTING MODE” line. Press ENTER to display the “SETTING MODE” menu. You can also select the “SETTING MODE” menu directly by pressing the INPUT “1” button.



```

- OPTION -
1 / SETTING MODE
2 / MENU MODE
3 / SEQUENCER
4 / PJ ADDRESS
5 / VERSION
6 / HOUR METER
7 / DEFAULT DATA
  
```

- 4 Use the CURSOR  or  button to select the “CONNECT CONDITION” item, then press ENTER to display the “CONNECT CONDITION” menu.

**NOTE:** The SETTING MODE has three menus. The “CONNECT CONDITION” item is on the first menu (P01). To access P02 or P03 from P01, press and hold down the CTL button then press the  button; to return to P01 from P02 or P03, press and hold down the CTL button then press the  button.

P01/P03	OPTION	- SETTING MODE -
	PJ ORIENTATION	CEILING FRONT
	<b>CONNECT CONDITION</b>	STANDALONE
	DEFAULT INPUT SELECT	LAST
	FOCUS EDGE MODE	ALL
	S-VIDEO MODE SELECT	S2
	VIDEO MODE SELECT	AUTO

- 5 Use the CURSOR  or  button to select your desired connection condition of Switcher and press ENTER.
  - The “RE-START ?” prompt is displayed after setting of the connection condition is modified from the current status to your desired condition.

```

CONNECT CONDITION
STANDALONE
SW1 LEVEL
SW2 LEVEL
  
```

### Items to select

- STAND ALONE .... The projector used in stand alone operation.
- SW 1 LEVEL ..... The projector used with one Switcher.
- SW 2 LEVEL ..... The projector used with two or more Switchers.

## SETTING

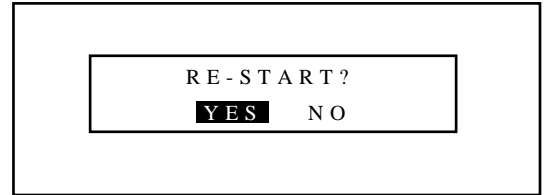
---

- 6 Use the CURSOR  or  button to select either “YES” or “NO” and press ENTER.

**Items to select**

- YES ..... Restart the projector.
- NO ..... Does not restart the projector.

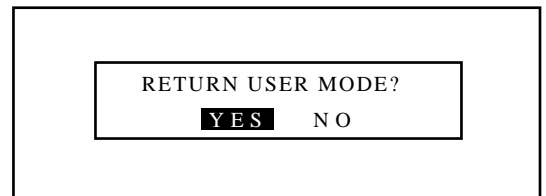
**NOTE:** The selected connection condition becomes effective only after the projector is restarted.



- 7 To exit, press the END button.
- Whenever the END button is pressed, the menus will sequence in this order:  
“OPTION” menu → “Adjust” menu → Source screen
  - If the “RETURN USER MODE?” menu appears, use the CURSOR  or  button to select “YES” or “NO” and then press ENTER.

**Items to select**

- YES ..... When you try to enter the ADJUST mode the next time, you will need to re-enter your passcode.
- NO ..... When you try to enter the ADJUST mode the next time, you will not need to re-enter your passcode.



## Default Input Selection

You can set the projector to default to any one of its inputs each time the projector is turned on.

Proceed as follows:

- 1 Press the ADJUST button to display the “ADJUST” menu.
  - The projector may ask you to enter your passcode.  
See page 68 for the explanation of the PASSCODE.
- 2 Use the CURSOR  $\leftarrow$  or  $\rightarrow$  button to highlight the “8/OPTION” line. Press ENTER to display the “OPTION” menu. You can also select the “OPTION” menu directly by pressing the INPUT “8” button.

```

- ADJUST -
1 / SIGNAL ENTRY
2 / FOCUS
3 / ALIGNMENT
4 / CONVERGENCE
5 / KELVIN
6 / R,G,B GAIN
7 / PASSCODE
8 / OPTION
9 / REF. ADJUST

```

- 3 Use the CURSOR  $\leftarrow$  or  $\rightarrow$  button to highlight the “1/SETTING MODE” line. Press ENTER to display the “SETTING MODE” menu. You can also select the “SETTING MODE” menu directly by pressing the INPUT “1” button.

```

- OPTION -
1 / SETTING MODE
2 / MENU MODE
3 / SEQUENCER
4 / PJ ADDRESS
5 / VERSION
6 / HOUR METER
7 / DEFAULT DATA

```

- 4 Use the CURSOR  $\leftarrow$  or  $\rightarrow$  button to select the “DEFAULT INPUT SELECT” item, then press ENTER to display the “DEFAULT INPUT SELECT” menu.



**NOTE:** The SETTING MODE has three menus. The “DEFAULT INPUT SELECT” item is on the first menu (P01). To access P02 or P03 from P01, press and hold down the CTL button then press the  $\rightarrow$  button; to return to P01 from P02 or P03, press and hold down the CTL button then press the  $\leftarrow$  button.

```

P01/P03  OPTION  - SETTING MODE -
PJ ORIENTATION          CEILING
                        FRONT
CONNECT CONDITION       STANDALONE
DEFAULT INPUT SELECT   LAST
FOCUS EDGE MODE         ALL
S-VIDEO MODE SELECT     S2
VIDEO MODE SELECT       AUTO

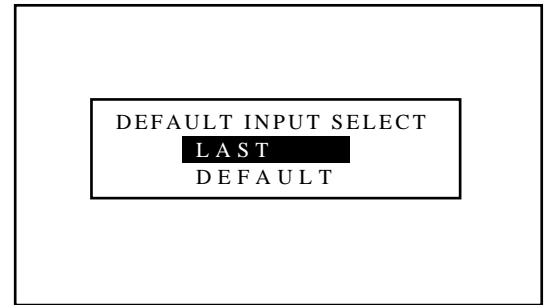
```



## SETTING

- 5 Use the CURSOR  or  button to select either “LAST” or “DEFAULT” and press ENTER.
- Selecting “LAST” completes setting. Go on to step 7 .
  - Selecting “DEFAULT” displays the “Default input” screen. Go on to step 6 .

### Items to select



- LAST ..... Sets the projector to default to the previous last active input each time the projector is turned on.  
Note: An input must be active for a minimum of 10 minutes before it is recognized as the last active signal.
- DEFAULT . Displays the same source input every time the projector is started up.

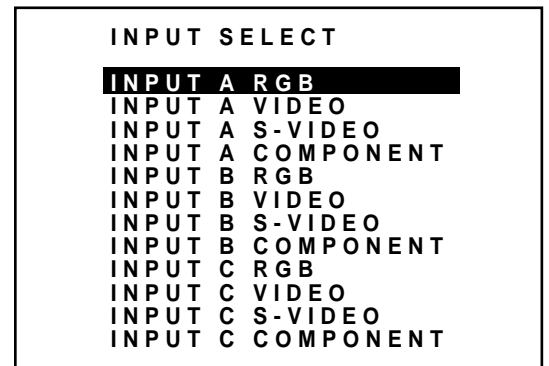


- 6 Use the CURSOR  or  button to select an input and then press the ENTER button.

### When used in stand alone operation:



The default input screen will be displayed.

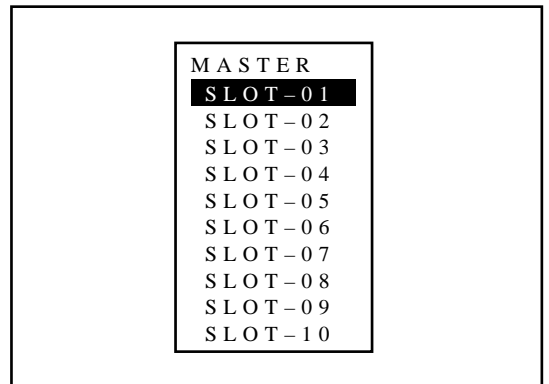
Use the CURSOR  or  button to select an input and press ENTER.



### When used with a single Switcher:



The “MASTER” slot menu will be displayed.

Use the CURSOR  or  button to select the desired slot number “1” through “10(0)” and then press ENTER.

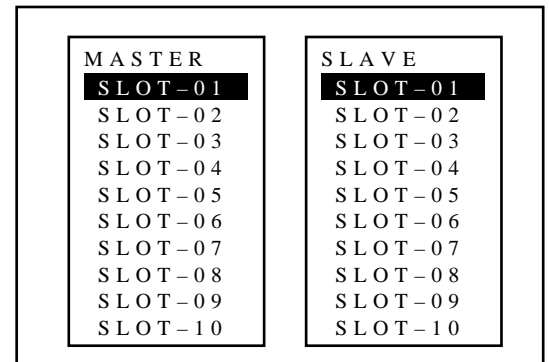


### When used with two or more Switchers:

The “MASTER” and “SLAVE” slot number menu will be displayed.

Use the CURSOR  or  button to select the master slot number first and then select the slave slot number “1” through “10(0)”.

Press ENTER.

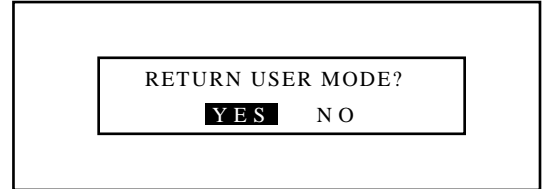


7 To complete, press the END button.

- Whenever the END button is pressed, the menus will sequence in this order:  
“OPTION” menu → “ADJUST” menu → Source screen
- If the “RETURN USER MODE?” menu appears, use the CURSOR  or  button to select either “YES” or “NO” and press ENTER. This will exit the ADJUST mode.

**Items to select**

- YES ..... When you try to enter the ADJUST mode the next time, you will need to re-enter your passcode.
- NO ..... When you try to enter the ADJUST mode the next time, you will not need to re-enter your passcode.

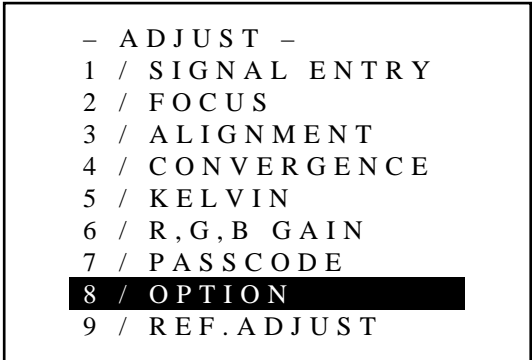


**Focus Edge Mode**

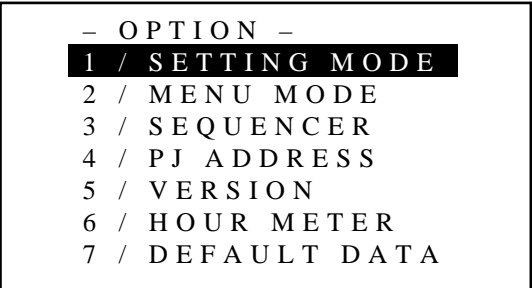
This function allows you to set either of two electrical edge focus modes; one affects all the RGB patterns at the same time and the other each CRT separately.

To set this, proceed as follows:

- 1 Press the ADJUST button to display the “ADJUST” menu.
  - The projector may ask you to enter your passcode.  
See page 68 for the explanation of the PASSCODE.
  
- 2 Use the CURSOR  or  button to highlight the “8/OPTION” line. Press ENTER to display the “OPTION” menu. You can also select the “OPTION” menu directly by pressing the INPUT “8” button.

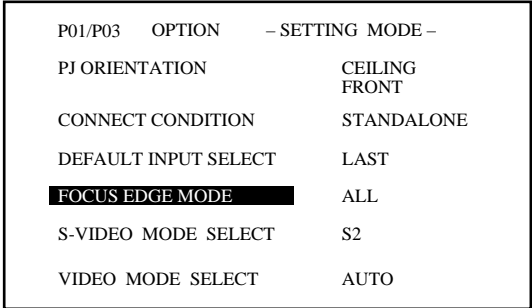


- 3 Use the CURSOR  or  button to highlight the “1/SETTING MODE” line. Press ENTER to display the “SETTING MODE” menu. You can also select the “SETTING MODE” menu directly by pressing the INPUT “1” button.



- 4 Use the CURSOR  or  button to select the “FOCUS EDGE MODE” item on Page 1, then press ENTER to display the “FOCUS EDGE MODE” menu.

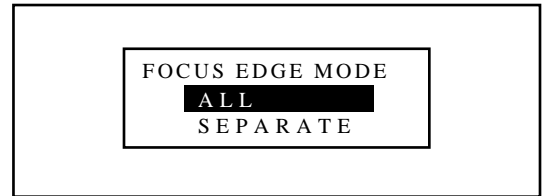
**NOTE:** The SETTING MODE has three menus. The “FOCUS EDGE MODE” item is on the first menu (P01). To access P02 or P03 from P01, press and hold down the CTL button then press the  button; to return to P01 from P02 or P03, press and hold down the CTL button then press the  button.



- 5 Use the CURSOR  or  button to select either “ALL” or “SEPARATE” and press ENTER.

**Items to select**

- ALL ..... Affects all of the CRTs at the same time
- SEPARATE ..... Affects each CRT separately

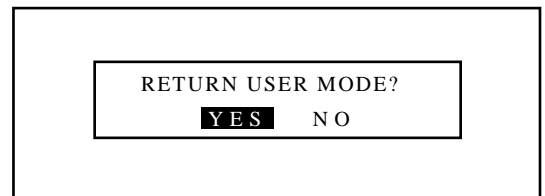


- 6 To complete, press the END button.

- Whenever the END button is pressed, the menus will sequence in this order:  
“OPTION” menu → “ADJUST” menu → Source screen
- If the “RETURN USER MODE?” menu appears, use the CURSOR  or  button to select either “YES” or “NO” and press ENTER. This will exit the ADJUST mode.

**Items to select**

- YES ..... When you try to enter the ADJUST mode the next time, you will need to re-enter your passcode.
- NO ..... When you try to enter the ADJUST mode the next time, you will not need to re-enter your passcode.











## S-Video Mode Selection

This function is used to select the S-video signal detection mode. This allows identifying of the S-video signals with different aspect ratio: squeeze or full mode(16 : 9) and letter box (4 : 3) signals.

**NOTE:** An identifying result will be displayed in the SOURCE INFORMATION screen.

To set, proceed as follows:

- 1 Press the ADJUST button to display the “ADJUST” menu.
  - The projector may ask you to enter your passcode.  
See page 68 for the explanation of the PASSCODE.
  
- 2 Use the CURSOR  or  button to highlight the “8/OPTION” line. Press ENTER to display the “OPTION” menu. You can also select the “OPTION” menu directly by pressing the INPUT “8” button.
  
- 3 Use the CURSOR  or  button to highlight the “1/SETTING MODE” line. Press ENTER to display the “SETTING MODE” menu. You can also select the “SETTING MODE” menu directly by pressing the INPUT “1” button.
  
- 4 Use the CURSOR  or  button to select the “S-VIDEO MODE SELECT” item, then press ENTER to display the “S-VIDEO MODE SELECT” menu.

**NOTE:** The SETTING MODE has three menus. The “S-VIDEO MODE SELECT” menu is on the first menu (P01). To access P02 or P03 from P01, press and hold down the CTL button then press the  button; to return to P01 from P02 or P03, press and hold down the CTL button then press the  button.

- ADJUST -
1 / SIGNAL ENTRY
2 / FOCUS
3 / ALIGNMENT
4 / CONVERGENCE
5 / KELVIN
6 / R, G, B GAIN
7 / PASSCODE
<b>8 / OPTION</b>
9 / REF. ADJUST

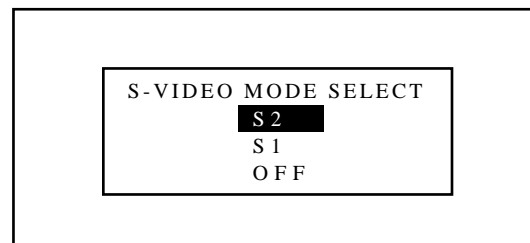
- OPTION -
<b>1 / SETTING MODE</b>
2 / MENU MODE
3 / SEQUENCER
4 / PJ ADDRESS
5 / VERSION
6 / HOUR METER
7 / DEFAULT DATA

P01/P03	OPTION	- SETTING MODE -
PJ ORIENTATION		CEILING FRONT
CONNECT CONDITION		STANDALONE
DEFAULT INPUT SELECT		LAST
FOCUS EDGE MODE		ALL
<b>S-VIDEO MODE SELECT</b>		S2
VIDEO MODE SELECT		AUTO

- 5 Use the CURSOR  or  button to select one of the three items: S2, S1, and OFF, and then press ENTER.

**Items to select**

- S2 ..... Identifies squeeze and letter box signals.  
 S1 ..... Identifies a squeeze signal only.  
 OFF ..... Does not identify any S-video signal.

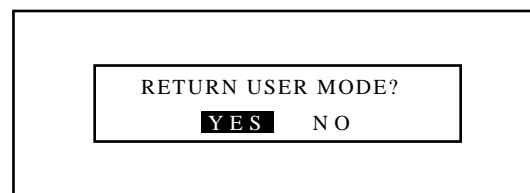


- 6 To end, press the END button.

- Whenever the END button is pressed, the menus will sequence in this order:  
 “OPTION” menu → “ADJUST” menu → Source screen
- If the “RETURN USER MODE?” menu appears, use the CURSOR  or  button to select either “YES” or “NO” and press ENTER. This will exit the ADJUST mode.

**Items to select**

- YES ..... When you try to enter the ADJUST mode the next time, you will need to re-enter your passcode.
- NO ..... When you try to enter the ADJUST mode the next time, you will not need to re-enter your passcode.





**NOTE :**

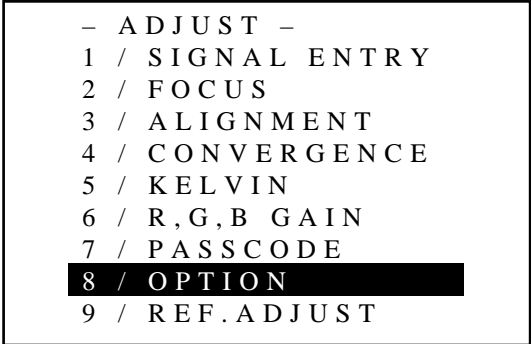
- The input signal must be compatible with the S2/S1 MODE standard.  
 Refer to the user manual included with the connected equipment for more information.
- The identification function may not work correctly with a non-compatible signal. If this happens, select “OFF” from the “S-VIDEO MODE SELECT” menu.



**Video Mode Selection**

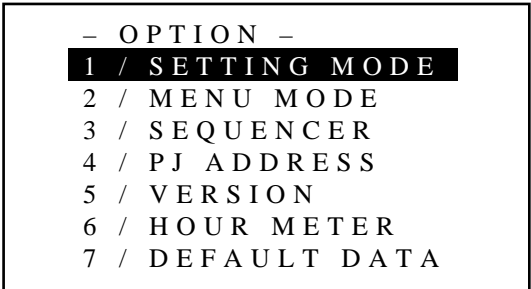
This function is used to select the NTSC 3.58, NTSC 4.43, PAL or SECAM video standard.



To select any one of the video standards, proceed as follows:



- 1 Press the ADJUST button to display the “ADJUST” menu.
  - The projector may ask you to enter your passcode.  
See page 68 for the explanation of the PASSCODE.
  
- 2 Use the CURSOR  or  button to highlight the “8/OPTION” line. Press ENTER to display the “OPTION” menu. You can also select the “OPTION” menu directly by pressing the INPUT “8” button.

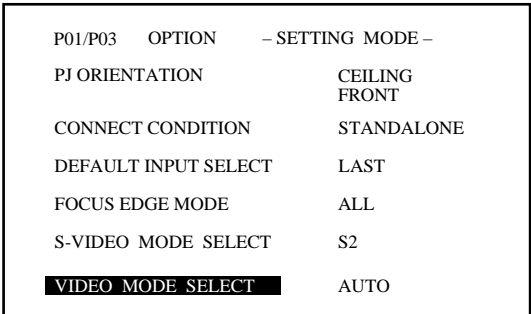


- 3 Use the CURSOR  or  button to highlight the “1/SETTING MODE” line. Press ENTER to display the “SETTING MODE” menu. You can also select the “SETTING MODE” menu directly by pressing the INPUT “1” button.



- 4 Use the CURSOR  or  button to select the “VIDEO MODE SELECT” item, then press ENTER to display the “VIDEO MODE SELECT” menu.

**NOTE:** The SETTING MODE has three menus. The “VIDEO MODE SELECT” menu is on the first menu (P01). To access P02 or P03 from P01, press and hold down the CTL button then press the  button; to return to P01 from P02 or P03, press and hold down the CTL button then press the  button.



- 5 Use the CURSOR  or  button to select either “AUTO” or “MANUAL” and then press ENTER.

#### When selecting “AUTO”

One of the video standards is selected automatically and is displayed in the SOURCE INFORMATION screen.

##### Video Modes

- NTSC3.58 ..... Indicates the NTSC3.58 video standard
- NTSC4.43 ..... Indicates the NTSC4.43 video standard
- PAL ..... Indicates the PAL video standard
- SECAM ..... Indicates the SECAM video standard
- RGB ..... Indicates the RGB mode

- Select “AUTO” in normal operation.

#### When selecting “MANUAL”

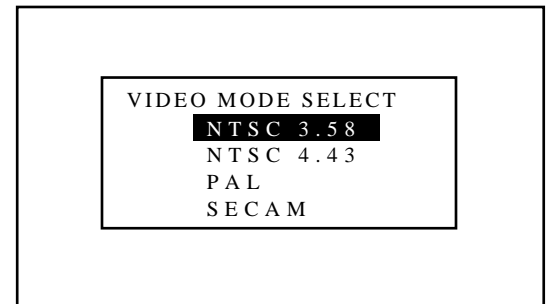
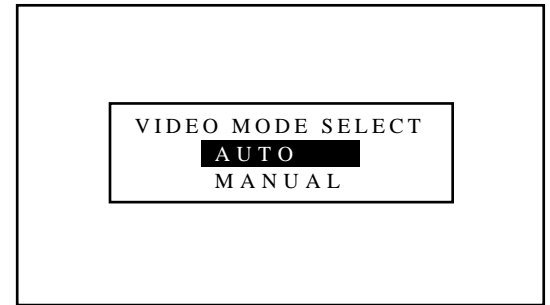
The “VIDEO MODE SELECT” menu will be displayed. Use the CURSOR  or  button to select the preferred video mode and then press ENTER.

##### Items to select

- NTSC3.58 Switches to the NTSC3.58 mode
- NTSC4.43 Switches to the NTSC4.43 mode
- PAL ..... Switches to the PAL mode
- SECAM .... Switches to the SECAM mode

- Select “MANUAL” when connecting to poor quality signal or non-standard signals such as video games.

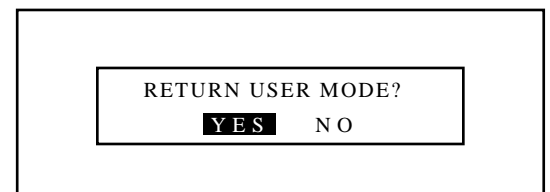
**NOTE:** The projector may not function correctly with a monochrome signals in the AUTO mode.



- 6 To complete, press the END button.
- Whenever the END button is pressed, the menus will sequence in this order:  
“OPTION” menu → “ADJUST” menu → Source screen
  - When your passcode is in effect, the “RETURN USER MODE?” menu is displayed. If this happens, use the CURSOR  or  button to select either “YES” or “NO” and press ENTER.

##### Items to select



- YES ..... When you try to enter the ADJUST mode the next time, you will need to re-enter your passcode.
- NO ..... When you try to enter the ADJUST mode the next time, you will not need to re-enter your passcode.

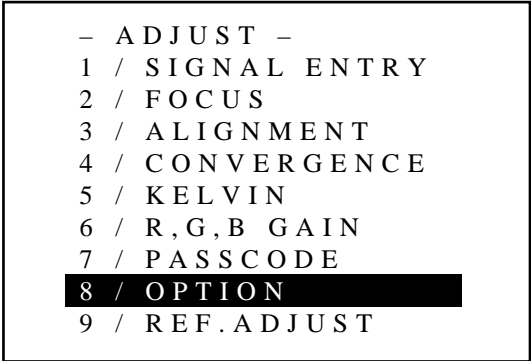




**Auto Power ON Mode Setting**

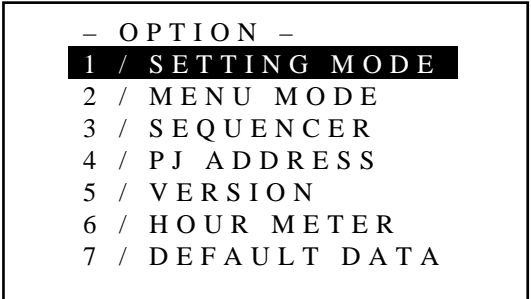
The AUTO POWER ON MODE is a convenient way to start up the projector without pressing the POWER button. You can turn the projector on and off by supplying AC power to the projector.



To do this, proceed as follows:



- 1 Press the ADJUST button to display the “ADJUST” menu.
  - The projector may ask you to enter your passcode.  
See page 68 for the explanation of the PASSCODE.
  
- 2 Use the CURSOR  or  button to highlight the “8/OPTION” line. Press ENTER to display the “OPTION” menu. You can also select the “OPTION” menu directly by pressing the INPUT “8” button.

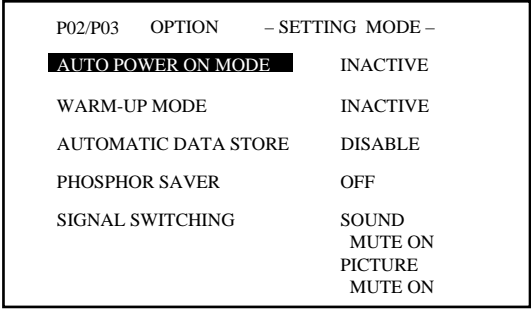


- 3 Use the CURSOR  or  button to highlight the “1/SETTING MODE” line. Press ENTER to display the “SETTING MODE” menu. You can also select the “SETTING MODE” menu directly by pressing the INPUT “1” button.



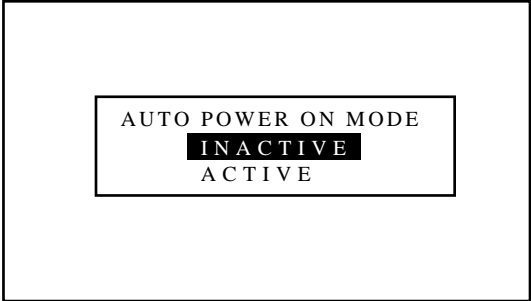
- 4 Use the CURSOR  or  button to select the “AUTO POWER ON MODE” item on Page 2, then press ENTER to display the “AUTO POWER ON MODE” menu.

**NOTE:** The SETTING MODE has three menus. The “AUTO POWER ON MODE” item is on the second menu (P02). To access P02 from P01, press and hold down the CTL button then press the  button; to return to P01 from P02, press and hold down the CTL button then press the  button.



5 Use the CURSOR  or  button to select either “ACTIVE” or “INACTIVE” and press the ENTER button.

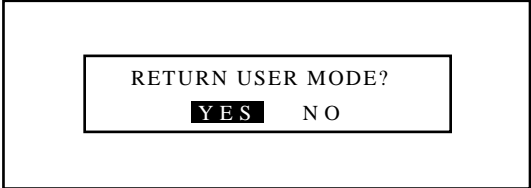
- Items to select**
- INACTIVE . Normal operation setting. Power ON is accomplished through the rear panel or the POWER button on the remote control.
  - ACTIVE .... Bypasses rear panel power button (or the POWER button on the remote control) to allow power ON to be controlled by an AC switched outlet.



6 To complete, press the END button.

- Whenever the END button is pressed, the menus will sequence in this order:  
“OPTION” menu → “ADJUST” menu → Source screen
- If the “RETURN USER MODE?” menu appears, use the CURSOR  or  button to select either “YES” or “NO” and then press ENTER.

- Items to select**
- YES ..... When you try to enter the ADJUST mode the next time, you will need to re-enter your passcode.
  - NO ..... When you try to enter the ADJUST mode the next time, you will not need to re-enter your passcode.





## SETTING



### Warm-up Mode Setting

This function allows you to automatically warm up the projector from 5 to 15 minutes when the projector is turned on.



To set the Warm-up mode, proceed as follows:



- 1 Press the ADJUST button to display the “ADJUST” menu.
  - The projector may ask you to enter your passcode.  
See page 68 for the explanation of the PASSCODE.
- 2 Use the CURSOR  or  button to highlight the “8/OPTION” line. Press ENTER to display the “OPTION” menu. You can also select the “OPTION” menu directly by pressing the INPUT “8” button.

```
- ADJUST -  
1 / SIGNAL ENTRY  
2 / FOCUS  
3 / ALIGNMENT  
4 / CONVERGENCE  
5 / KELVIN  
6 / R,G,B GAIN  
7 / PASSCODE  
8 / OPTION  
9 / REF. ADJUST
```

- 3 Use the CURSOR  or  button to highlight the “1/SETTING MODE” line. Press ENTER to display the “SETTING MODE” menu. You can also select the “SETTING MODE” menu directly by pressing the INPUT “1” button.

```
- OPTION -  
1 / SETTING MODE  
2 / MENU MODE  
3 / SEQUENCER  
4 / PJ ADDRESS  
5 / VERSION  
6 / HOUR METER  
7 / DEFAULT DATA
```

- 4 Use the CURSOR  or  button to select the “WARM-UP MODE” item on Page 2, then press ENTER to display the “WARM-UP MODE” menu.

**NOTE:** The SETTING MODE has three menus. The “WARM-UP MODE” item is on the second menu (P02). To access P02 from P01, press and hold down the CTL button then press the  button; to return to P01 from P02, press and hold down the CTL button then press the  button.

```
P02/P03  OPTION  - SETTING MODE -  
AUTO POWER ON MODE  INACTIVE  
WARM-UP MODE  INACTIVE  
AUTOMATIC DATA STORE  DISABLE  
PHOSPHOR SAVER  OFF  
SIGNAL SWITCHING  SOUND  
MUTE ON  
PICTURE  
MUTE ON
```

- 5 Use the CURSOR  or  button to select either “ACTIVE” or “INACTIVE” and press ENTER.

**Items to select**

- INACTIVE . Displays the input source after the projector is turned on.
- ACTIVE .... Activates the warm-up program after the projector is turned on. The ALL WHITE test pattern will be displayed. You can select a warm-up time from the WARM-UP TIME menu.

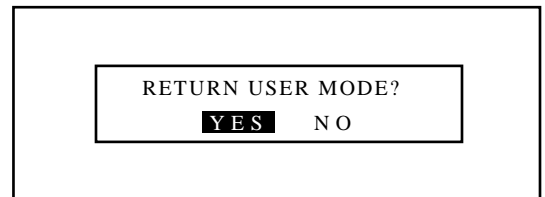
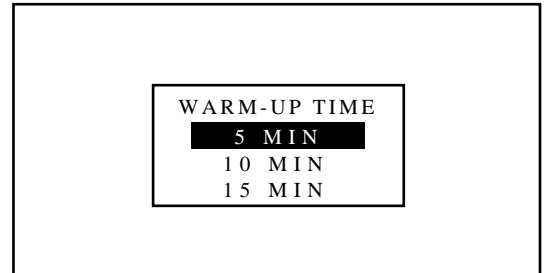
**NOTE:** To interrupt and cancel the warm-up cycle, press the END button.

- 6 To complete, press the END button.

- Whenever the END button is pressed, the menus will sequence in this order:  
“OPTION” menu → “ADJUST” menu → Source screen
- If the “RETURN USER MODE?” menu appears, use the CURSOR  or  button to select either “YES” or “NO” and then press ENTER.

**Items to select**



- YES ..... When you try to enter the ADJUST mode the next time, you will need to re-enter your passcode.
- NO ..... When you try to enter the ADJUST mode the next time, you will not need to re-enter your passcode.

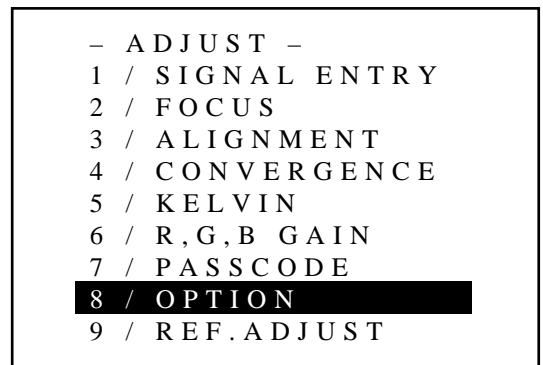




## Automatic Save Feature

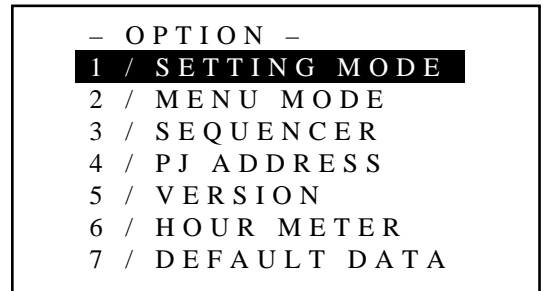
This feature allows you to select two ways to store settings; automatically and manually.



After “ENABLE” is selected in the AUTOMATIC DATA STORE menu, all projector settings are stored in the projector's memory automatically. To set the AUTOMATIC DATA STORE, proceed as follows:



- 1 Press the ADJUST button to display the “ADJUST” menu.
  - The projector may ask you to enter your passcode.  
See page 68 for the explanation of the PASSCODE section.
- 2 Use the CURSOR  or  button to highlight the “8/OPTION” line and then press ENTER to display the “OPTION” menu. You can also select the “OPTION” menu directly by pressing the INPUT “8” button.

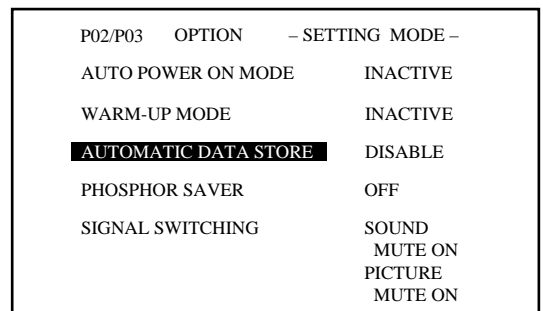


- 3 Use the CURSOR  or  button to highlight the “1/SETTING MODE” line. Press ENTER to display the “SETTING MODE” menu. You can also select the “SETTING MODE” menu directly by pressing the INPUT “1” button.



- 4 Use the CURSOR  or  button to select the “AUTOMATIC DATA STORE” item on Page 2, then press ENTER to display the “AUTOMATIC DATA STORE” menu.

**NOTE:** The SETTING MODE has three menus. The “AUTOMATIC DATA STORE” item is on the second menu (P02). To access P02 from P01, press and hold down the CTL button then press the  button ; to return to P01 from P02, press and hold down the CTL button then press the  button.



- 5 Use the CURSOR  or  button to select either “DISABLE” or “ENABLE” and then press ENTER.

**Items to select**

- DISABLE .. Projector does not store the settings automatically.
- ENABLE ... Projector stores the settings automatically.

Automatic storing data is done when any one of the following procedures is performed:

- Pressing the END button several times returns the adjustment screen to the source screen.
- One input is switched to another.
- The projector is turned off.
- Every 10 minutes.

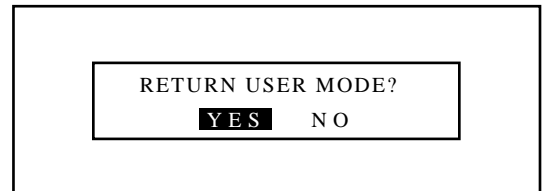
**NOTE:** After “DISABLE” is selected in the AUTOMATIC DATA STORE menu, the settings will not be stored in the memory unless you select “YES” in the “STORE ?” menu.



- 6 If the “RETURN USER MODE?” menu appears, use the CURSOR  or  button to select either “YES” or “NO” and press ENTER. This will exit the ADJUST mode.

**Items to select**





- YES ..... When you try to enter the ADJUST mode the next time, you will need to re-enter your passcode.
- NO ..... When you try to enter the ADJUST mode the next time, you will not need to re-enter your passcode.



## Phosphor Saver Setting

This function allows you to safeguard the CRTs against burns by shifting the image vertically and horizontally on the screen in the regular intervals. This can prolong the life of CRT of the projector.

To set the Phosphor saver, proceed as follows:



- 1 Press the ADJUST button to display the “ADJUST” menu.
  - The projector may ask you to enter your passcode.  
See page 68 for the explanation of the PASSCODE.
  
- 2 Use the CURSOR  or  button to highlight the “8/OPTION” line. Press ENTER to display the “OPTION” menu. You can also select the “OPTION” menu directly by pressing the INPUT “8” button.
  
- 3 Use the CURSOR  or  button to highlight the “1/SETTING MODE” line. Press ENTER to display the “SETTING MODE” menu. You can also select the “SETTING MODE” menu directly by pressing the INPUT “1” button.



```

- ADJUST -
1 / SIGNAL ENTRY
2 / FOCUS
3 / ALIGNMENT
4 / CONVERGENCE
5 / KELVIN
6 / R,G,B GAIN
7 / PASSCODE
8 / OPTION
9 / REF.ADJUST
    
```

```



- OPTION -
1 / SETTING MODE
2 / MENU MODE
3 / SEQUENCER
4 / PJ ADDRESS
5 / VERSION
6 / HOUR METER
7 / DEFAULT DATA
    
```

- 4 Use the CURSOR  or  button to select the “PHOSPHOR SAVER” item on Page 2, then press ENTER to display the “PHOSPHOR SAVER” menu.

**NOTE:** The SETTING MODE has three menus. The “PHOSPHOR SAVER” item is on the second menu (P02). To access P02 from P01, press and hold down the CTL button then press the  button; to return to P01 from P02, press and hold down the CTL button then press the  button.

```

P02/P03  OPTION  -SETTING MODE-
AUTO POWER ON MODE  INACTIVE
WARM-UP MODE        INACTIVE
AUTOMATIC DATA STORE  DISABLE
PHOSPHOR SAVER      OFF
SIGNAL SWITCHING     SOUND
                                     MUTE ON
                                     PICTURE
                                     MUTE ON
    
```



- 5 Use the CURSOR  or  button to select either “OFF” or “ON” and press ENTER.

**Items to select**

- OFF ..... Deactivates the PHOSPHOR SAVER function.
- ON ..... Activates the PHOSPHOR SAVER function. Interval and number of steps can be set.

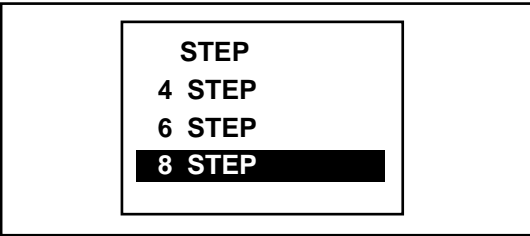
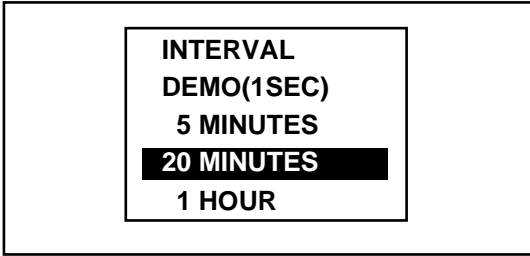




**NOTE:** When the on-screen display appears or you are in the adjustment mode, this function is cancelled. This can cause the source screen to be shifted.

- 6 Use the CURSOR  or  button to select your desired interval time from the “INTERVAL” menu and press ENTER.
- The “STEP” menu is displayed on the screen.

**Items to select**



- DEMO (1 SEC) ..... Works every one second
- 5 MINUTES ..... Works every 5 minutes.
- 20 MINUTES ..... Works every 20 minutes
- 1 HOUR ..... Works every 1 hour



- 7 Use the CURSOR  or  button to select the number of steps you wish.

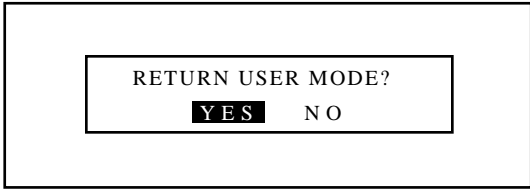
**Items to select**

- 4 STEP ..... Moves 4 steps of POSITION adjustment value
- 6 STEP ..... Moves 6 steps of POSITION adjustment value
- 8 STEP ..... Moves 8 steps of POSITION adjustment value

- 8 To complete, press the END button.
- Whenever the END button is pressed, the menus will sequence in this order:  
“OPTION” menu → “ADJUST” menu → Source screen
  - If the “RETURN USER MODE?” menu appears, use the CURSOR  or  button to select either “YES” or “NO” and then press ENTER.

**Items to select**



- YES ..... When you try to enter the ADJUST mode the next time, you will need to re-enter your passcode.
- NO ..... When you try to enter the ADJUST mode the next time, you will not need to re-enter your passcode.

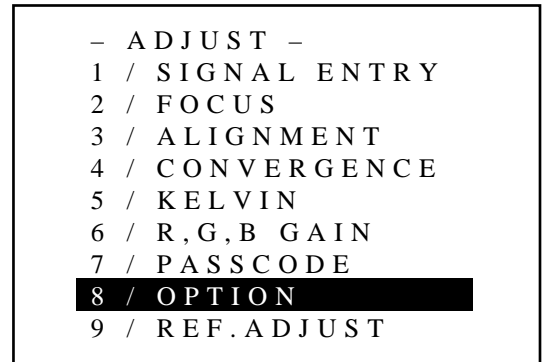




## Signal Switching Mute Mode Setting

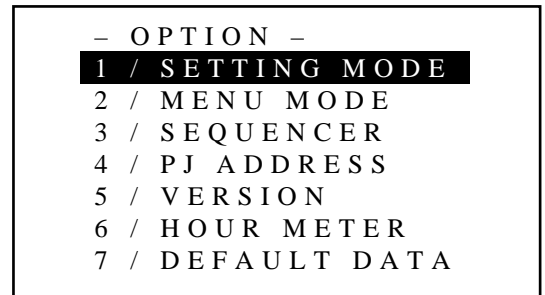
This function allows you to mute the picture and/or sound during signal switching.



To set the Signal Switching Mute mode, proceed as follows:



- 1 Press the ADJUST button to display the “ADJUST” menu.
  - The projector may ask you to enter your passcode.  
See page 68 for the explanation of the PASSCODE.
  
- 2 Use the CURSOR  or  button to highlight the “8/OPTION” line. Press ENTER to display the “OPTION” menu. You can also select the “OPTION” menu directly by pressing the INPUT “8” button.

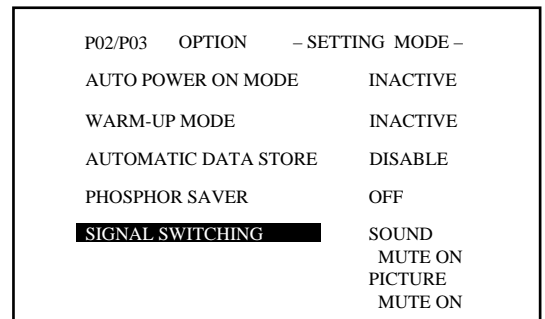


- 3 Use the CURSOR  or  button to highlight the “1/SETTING MODE” line. Press ENTER to display the “SETTING MODE” menu. You can also select the “SETTING MODE” menu directly by pressing the INPUT “1” button.

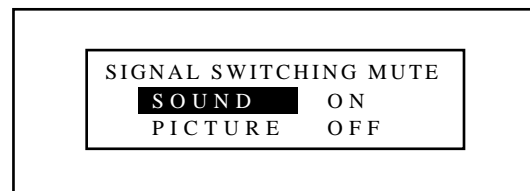


- 4 Use the CURSOR  or  button to select the “SIGNAL SWITCHING” item on Page 2, then press ENTER to display the “SIGNAL SWITCHING” menu.

**NOTE:** The SETTING MODE has three menus. The “SIGNAL SWITCHING” menu is on the second menu (P02). To access P02 from P01, press and hold down the CTL button then press the  button; to return to P01 from P02, press and hold down the CTL button then press the  button.



- 5 Use the CURSOR  or  button to select either “SOUND” or “PICTURE”, and press the ENTER button.
- The “SOUND MUTE” or “PICTURE MUTE” menu will be displayed.

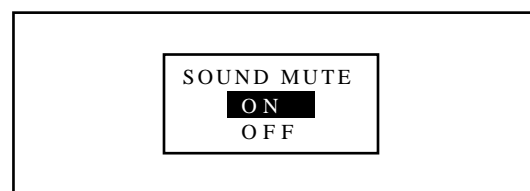


- 6 Use the CURSOR  or  button to select either “ON” or “OFF” and then press ENTER.

**Items to select**

MUTE ON... Mutes a picture and/or sound during switching signals.

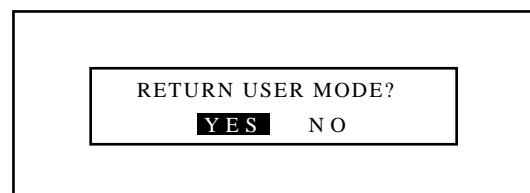
MUTE OFF.. Outputs a picture and/or sound during switching signals.



- 7 To complete this, press END.
- Whenever the END button is pressed, the menus will sequence in this order:  
“OPTION” menu → “ADJUST” menu → Source screen
  - If the “RETURN USER MODE?” menu appears, use the CURSOR  or  button to select either “YES” or “NO” and then press ENTER.

**Items to select**

- YES ..... When you try to enter the ADJUST mode the next time, you will need to re-enter your passcode.
- NO ..... When you try to enter the ADJUST mode the next time, you will not need to re-enter your passcode.





## Direct Entry Access Setting

This feature allows you to switch the current input directly to one of the registered inputs from NO1 to NO10 in the INPUT LIST.



**NOTE:** To use this feature, hold down the CTL button and press one of the INPUT buttons corresponding to the input number.

To set this feature, proceed as follows:

- 1 Press the ADJUST button to display the “ADJUST” menu.
  - The projector may ask you to enter your passcode.  
See page 68 for the explanation of the PASSCODE.
  
- 2 Use the CURSOR  or  button to highlight the “8/OPTION” line. Press ENTER to display the “OPTION” menu. You can also select the “OPTION” menu directly by pressing the INPUT “8” button.



```



- ADJUST -
1 / SIGNAL ENTRY
2 / FOCUS
3 / ALIGNMENT
4 / CONVERGENCE
5 / KELVIN
6 / R,G,B GAIN
7 / PASSCODE
8 / OPTION
9 / REF.ADJUST
    
```

- 3 Use the CURSOR  or  button to highlight the “1/SETTING MODE” line. Press ENTER to display the “SETTING MODE” menu. You can also select the “SETTING MODE” menu directly by pressing the INPUT “1” button.

```

- OPTION -
1 / SETTING MODE
2 / MENU MODE
3 / SEQUENCER
4 / PJ ADDRESS
5 / VERSION
6 / HOUR METER
7 / DEFAULT DATA
    
```

- 4 Use the CURSOR  or  button to select the “DIRECT ENTRY ACCESS” item on Page 3, then press ENTER to display the “DIRECT ENTRY ACCESS” menu.

**NOTE:** The SETTING MODE has three menus. The “DIRECT ENTRY ACCESS” item is on the third menu (P03). To access P03 from P01, press and hold down the CTL button then press the  button twice; to return to P01 from P03, press and hold down the CTL button then press the  button twice.

```

P03/P03  OPTION  - SETTING MODE -
DIRECT ENTRY ACCESS  DISABLE
B-FOCUS TRACKING    OFF
OPTION TERM BAUD RATE 9600 BPS
RGB/COMPONENT SEARCH  MANUAL
    
```

- 5 Use the CURSOR  or  button to select either “DISABLE” or “ENABLE” and press ENTER.

**Items to select**

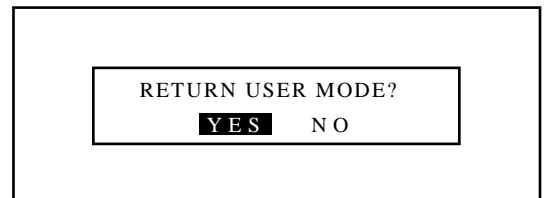
- DISABLE .. An error message will appear at the bottom of the screen and the signal is not switched when one of the INPUT buttons is pressed with CTL.
- ENABLE ... The signal is switched to the corresponding signal when one of the INPUT button is pressed with CTL.



- 6 To complete this, press END.
- Whenever the END button is pressed, the menus will sequence in this order.  
“OPTION” menu → “ADJUST” menu → Source screen
  - If the RETURN USER MODE ? menu appears, use the CURSOR  or  button to select either “YES” or “NO” and press ENTER. This will exit the ADJUST mode.

**Items to select**

- YES ..... When you try to enter the ADJUST mode the next time, you will need to re-enter your passcode.
- NO ..... When you try to enter the ADJUST mode the next, you will not need to re-enter your passcode.



## Blue Focus Tracking Setting

This feature allows you to obtain the better white uniformity by defocusing the blue CRT.

**NOTE:**

- The defocus values will vary with changes in the horizontal frequency.
- Select the "ALL WHITE" pattern using the TEST button on the full function remote control.

- 1 Press the ADJUST button to display the "ADJUST" menu.
  - The projector may ask you to enter your passcode. See page 68 for the explanation of PASSCODE.
- 2 Use the CURSOR  or  button to highlight the "8/OPTION" line. Press ENTER to display the "OPTION" menu. You can also select the "OPTION" menu directly by pressing the INPUT "8" button.
- 3 Use the CURSOR  or  button to highlight the "1/SETTING MODE" line. Press ENTER to display the "SETTING MODE" menu. You can also select the "SETTING MODE" menu directly by pressing the INPUT "1" button.
- 4 Use the CURSOR  or  button to select the "B-FOCUS TRACKING" item on Page 3, then press ENTER to display the "B-FOCUS TRACKING" menu.

**NOTE:** The SETTING MODE has three menus. The "B-FOCUS TRACKING" item is on the third menu (P03). To access P03 from P01, press and hold down the CTL button then press the  button twice; to return to P01 from P03, press and hold down the CTL button then press the  button twice.

- 5 Use the CURSOR  or  button to select either "OFF" or "ON" and press ENTER.

**Items to select**

- OFF ..... Defocuses the blue CRT
- ON ..... Does not defocus the blue CRT

- 6 To end this mode, press the END button.
  - Whenever the END button is pressed, the menu will sequence in this order.  
"OPTION" menu → "ADJUST" menu → Source screen.
  - If the "RETURN USER MODE?" menu appears, use the CURSOR  or  button to select either "YES" or "NO" and then press ENTER. This will exit the ADJUST mode.

**Items to select**

- YES ..... When you try to enter the ADJUST mode the next time, you will need to re-enter your passcode.
- NO ..... When you try to enter the ADJUST mode the next time, you will not need to re-enter your passcode.

```

- ADJUST -
1 / SIGNAL ENTRY
2 / FOCUS
3 / ALIGNMENT
4 / CONVERGENCE
5 / KELVIN
6 / R, G, B GAIN
7 / PASSCODE
8 / OPTION
9 / REF. ADJUST
    
```

```

- OPTION -
1 / SETTING MODE
2 / MENU MODE
3 / SEQUENCER
4 / PJ ADDRESS
5 / VERSION
6 / HOUR METER
7 / DEFAULT DATA
    
```

P03/P03	OPTION	- SETTING MODE -
DIRECT ENTRY ACCESS		DISABLE
<b>B-FOCUS TRACKING</b>		OFF
OPTION TERM BAUD RATE		9600 BPS
RGB/COMPONENT SEARCH		MANUAL

```

B-FOCUS TRACKING
  OFF
  ON
    
```

```

RETURN USER MODE?
  YES  NO
    
```

## Optional Terminal Baud Rate Selection

This feature allows you to set baud rate of the OPTION terminal from 4800 to 38400 bps.

### NOTE:

- The baud rate of the OPTION terminal defaults to 9600 bps at the factory.
- Make sure that the baud rate of the OPTION terminal matches that of operating of the connected equipment.

To change the baud rate of the OPTION terminal, proceed as follows:

- 1 Press the ADJUST button to display the “ADJUST” menu.
    - The projector may ask you to enter your passcode. See page 68 for the explanation of PASSCODE.
  - 2 Use the CURSOR  or  button to highlight the “8/OPTION” line. Press ENTER to display the “OPTION” menu. You can also select the “OPTION” menu directly by pressing the INPUT “8” button.
  - 3 Use the CURSOR  or  button to highlight the “1/SETTING MODE” line. Press ENTER to display the “SETTING MODE” menu. You can also select the “SETTING MODE” menu directly by pressing the INPUT “1” button.
  - 4 Use the CURSOR  or  button to select the “OPTION TERM BAUD RATE” item on Page 3, then press ENTER to display the “OPTION TERM BAUD RATE” menu.
- NOTE:** The SETTING MODE has three menus. The “OPTION TERM BAUD RATE” item is on the third menu (P03). To access P03 from P01, press and hold down the CTL button then press the  button twice; to return to P01 from P03, press and hold down the CTL button then press the  button twice.
- 5 Use the CURSOR  or  button to select the baud rate from 4800 to 38400 bps and press ENTER.
  - 6 To end this mode, press the END button.
    - Whenever the END button is pressed, the menu will sequence in this order.  
“OPTION” menu→“ADJUST” menu→Source screen.
    - IF the “RETURN USER MODE?” menu appears, use the CURSOR  or  button to select either “YES” or “NO” and then press ENTER. This will exit the ADJUST mode.

### Items to select

- YES ..... When you try to enter the ADJUST mode the next time, you will need to re-enter your passcode.
- NO ..... When you try to enter the ADJUST mode the next time, you will not need to re-enter your passcode.

```

- ADJUST -
1 / SIGNAL ENTRY
2 / FOCUS
3 / ALIGNMENT
4 / CONVERGENCE
5 / KELVIN
6 / R,G,B GAIN
7 / PASSCODE
8 / OPTION
9 / REF. ADJUST
  
```

```

- OPTION -
1 / SETTING MODE
2 / MENU MODE
3 / SEQUENCER
4 / PJ ADDRESS
5 / VERSION
6 / HOUR METER
7 / DEFAULT DATA
  
```

```

P03/P03  OPTION  - SETTING MODE -
DIRECT ENTRY ACCESS  DISABLE
B-FOCUS TRACKING  OFF
OPTION TERM BAUD RATE  9600 BPS
RGB/COMPONENT SEARCH  MANUAL
  
```

```

OPTION TERM.
  BAUD RATE

  4800
  9600
  19200
  38400
  
```

```

RETURN USER MODE?
  YES  NO
  
```

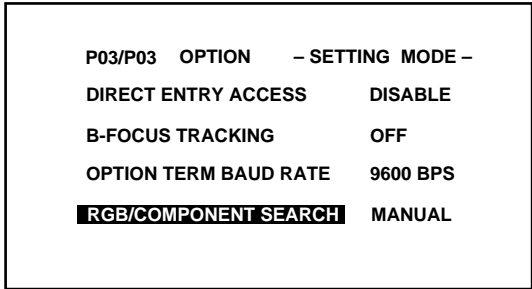
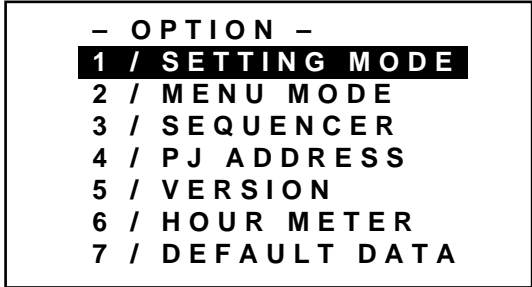
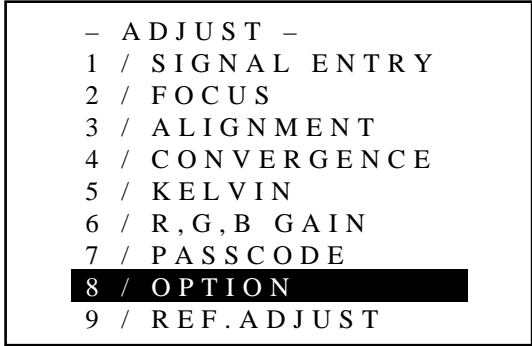
**RGB/COMPONENT Search Setting**

This feature allows you to set the searching method of RGB/COMPONENT signal.

To set this feature, proceed as follows:

- 1 Press the ADJUST button to display the “ADJUST” menu.
  - The projector may ask you to enter your passcode. See page 68 for the explanation of PASSCODE.
  
- 2 Use the CURSOR  $\leftarrow$  or  $\rightarrow$  button to highlight the “8/OPTION” line. Press ENTER to display the “OPTION” menu. You can also select the “OPTION” menu directly by pressing the INPUT “8” button.
  
- 3 Use the CURSOR  $\leftarrow$  or  $\rightarrow$  button to highlight the “1/SETTING MODE” line. Press ENTER to display the “SETTING MODE” menu. You can also select the “SETTING MODE” menu directly by pressing the INPUT “1” button.
  
- 4 Use the CURSOR  $\leftarrow$  or  $\rightarrow$  button to select “RGB/COMPONENT SEARCH” item on Page 3, then press ENTER to display the “RGB/COMPONENT SEARCH” menu.

**NOTE:** The SETTING MODE has three menus. The “RGB/COMPONENT SEARCH” item is on the third menu (P03). To access P03 from P01, press and hold down the CTL button then press the v button twice; to return to P01 from P03, press and hold down the CTL button then press the  $\leftarrow$  button twice.

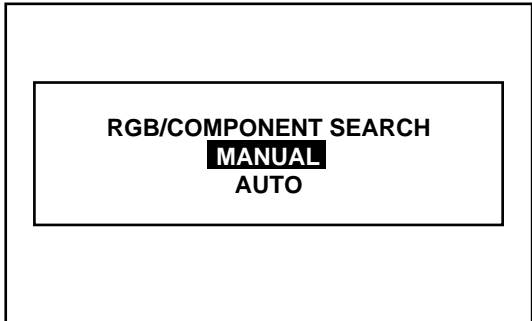


- 5 Use the CURSOR  $\leftarrow$  or  $\rightarrow$  button to select either “MANUAL” or “AUTO” and press ENTER.

**When used in a stand alone operation:**

Items to select	
• MANUAL .....	Searches RGB signals only
• AUTO .....	Searches COMPONENT signals automatically after searching RGB signals.

**NOTE:** This feature corresponds to R/Cr, G/Y, or B/Cb input terminal of INPUT A slot. INPUT B and C slots are depending on setting of the optional input board. In regardless of this setting, pressing INPUT “10” button searches a COMPONENT signal.



**When used with a single Switcher ISS-6020/ISS-6020G:**

Items to select

- MANUAL ..... Searches RGB or COMPONENT signals only ( for each slot).
- AUTO ..... Searches COMPONENT signals automatically after searching RGB signals ( for all slots).

• When “MANUAL” is selected, searching will be set for each slot.

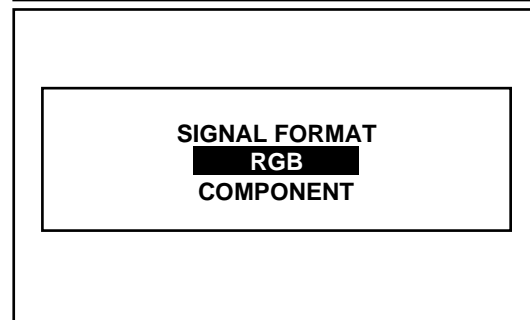
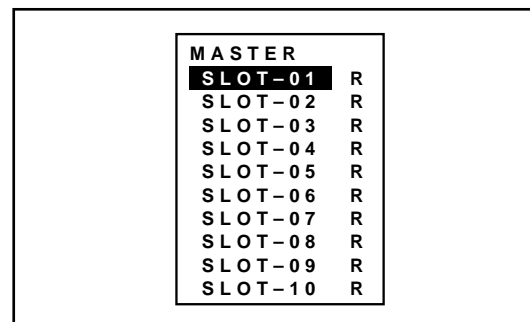
Use the CURSOR  or  button to select the input slot number of the Switcher and press ENTER.

• The “SIGNAL FORMAT” menu will be displayed.

Use the CURSOR  or  button to select “RGB” or “COMPONENT” and press ENTER.

Items to select

- RGB ..... Searches RGB signals only.
- COMPONENT ..... Searches COMPONENT signals only.



**When used with two or more Switchers ISS-6020/ISS-6020G:**

Items to select

- MANUAL ..... Searches RGB or COMPONENT signals only ( for each slot).
- AUTO ..... Searches COMPONENT signals automatically after searching RGB signals ( for all slots).

• When “MANUAL” is selected, searching will be set for each slot.

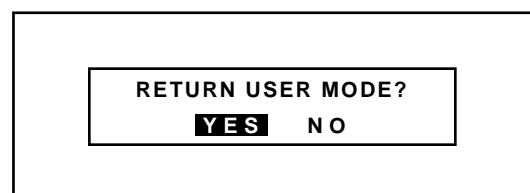
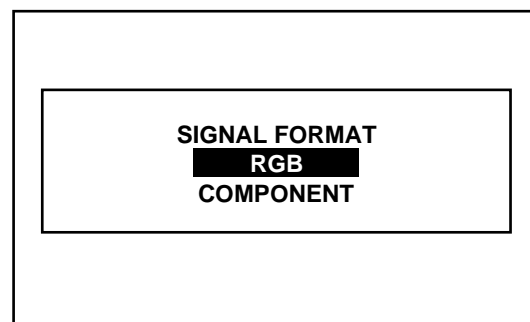
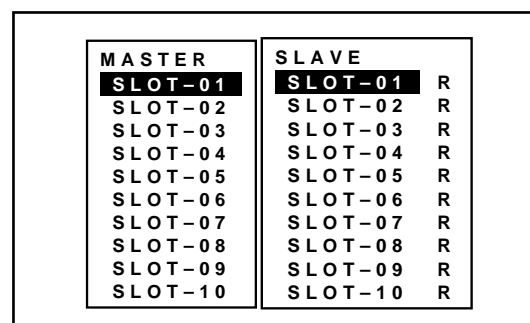
Use the CURSOR  or  button to select the master slot number “1” through “10” first from the master menu, then select the slave slot number “1” through “10” from the slave menu and press ENTER.

• The “SIGNAL FORMAT” menu will be displayed.

Use the CURSOR  or  button to select “RGB” or “COMPONENT” and press ENTER.

Items to select

- RGB ..... Searches RGB signals only.
- COMPONENT ..... Searches COMPONENT signals only.



6 To end this mode, press the END button.

• Whenever the END button is pressed, the menu will sequence in this order.

“OPTION” menu → ”ADJUST” menu → Source screen

• If the “RETURN USER MODE?” menu appears, use the CURSOR  or  button to select either “YES” or “NO” and then press ENTER. This will exit the ADJUST mode.

Items to select







- YES ..... When you try to enter the ADJUST mode the next time, you will need to re-enter your passcode.
- NO ..... When you try to enter the ADJUST mode the next time, you will not need to re-enter your passcode.

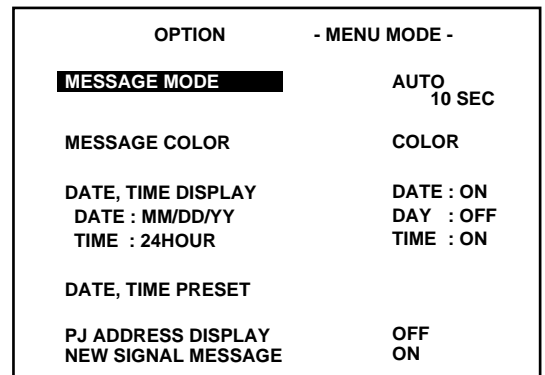
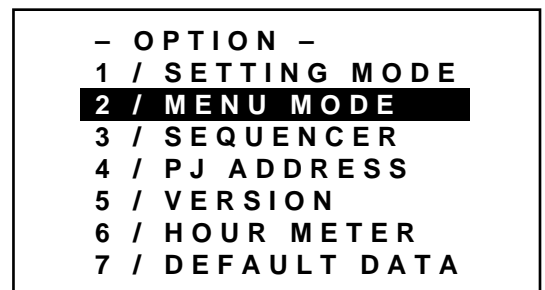
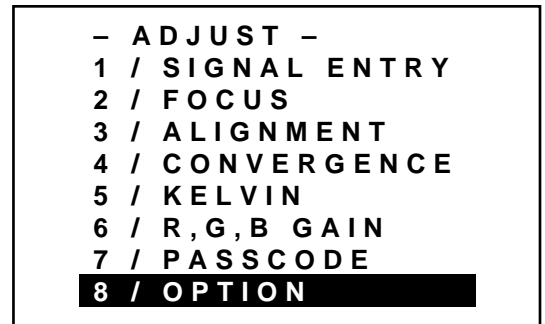
## On-screen Display Mode Setting

There are two modes of operations for the on-screen display. With AUTO mode, the on-screen display will automatically switch off after three through ten seconds. In the MANUAL mode, the display must be manually turned off with the DISPLAY button on the full function remote control each time it appears.

**NOTE:** Pressing DISPLAY with CTL will select the non on-screen mode; pressing DISPLAY with CTL again will cancel this mode. Even if the on-screen display may be turned off with CTL and DISPLAY, any adjustment will still change the projector's memory settings.

Proceed as follows:

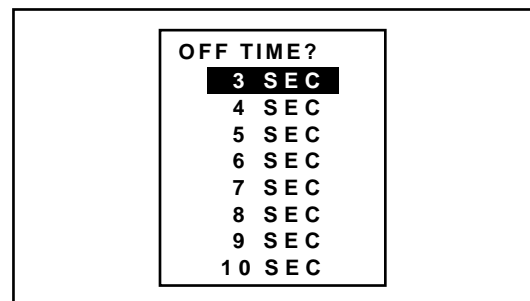
- 1 Press the ADJUST button to display the "ADJUST" menu.
  - The projector may ask you to enter your passcode.  
See page 68 for the explanation of the PASSCODE.
  
- 2 Use the CURSOR  or  button to highlight the "8/OPTION" line. Press ENTER to display the "OPTION" menu. You can also select the "OPTION" menu directly by pressing the INPUT "8" button.
  
- 3 Use the CURSOR  or  button to highlight the "2/MENU MODE" line. Press ENTER to display the "MENU MODE" menu. You can also select the "MENU MODE" menu directly by pressing the INPUT "2" button.
  
- 4 Use the CURSOR  or  button to highlight the "MESSAGE MODE" item.  
Press ENTER to display the "MESSAGE MODE" menu.



- 5 Use the CURSOR  or  button to select either “AUTO” or “MANUAL” and press ENTER.

**Items to select**

- **AUTO** ..... The on-screen menu display appears when the buttons on the remote control, or the controls on the rear panel are pressed. The on-screen display will turn off at a preselected time. The OFF TIME is specified in seconds up to a maximum of 10 seconds. Select your desired time (3-10 seconds) from the OFF TIME menu.
- **MANUAL** ..... The on-screen menu display appears when the buttons on the remote control, or the controls on the rear panel are pressed. The display will be turned on and off whenever the DISPLAY button is pressed. If no button operation is made for 20 minutes or more, the on-screen message will automatically turn off.

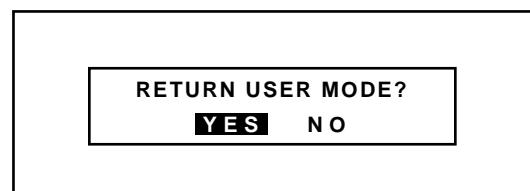


- 6 To end this mode, press the END button.

- When the END button is pressed, the menus will sequence in this order:  
 “OPTION” menu → “ADJUST” menu → Source screen
- If the “RETURN USER MODE?” menu appears, use the CURSOR  or  button to select either “YES” or “NO” and press ENTER. This will exit the ADJUST mode.

**Items to select**

- **YES** ..... When you try to enter the ADJUST mode the next time, you will need to re-enter your passcode.
- **NO** ..... When you try to enter the ADJUST mode the next time, you will not need to re-enter your passcode.





## SETTING



### On-screen Display Color Setting

You can select two color modes (full color, or green only) for the color of the on-screen display such as menus, or messages.



Proceed as follows:

- 1 Press the ADJUST button to display the “ADJUST” menu.
  - The projector may ask you to enter your passcode.  
See page 68 for the explanation of the PASSCODE.
- 2 Use the CURSOR  or  button to highlight the “8/OPTION” line. Press ENTER to display the “OPTION” menu. You can also select the “OPTION” menu directly by pressing the INPUT “8” button.

```
– ADJUST –  
1 / SIGNAL ENTRY  
2 / FOCUS  
3 / ALIGNMENT  
4 / CONVERGENCE  
5 / KELVIN  
6 / R,G,B GAIN  
7 / PASSCODE  
8 / OPTION  
9 / REF.ADJUST
```

- 3 Use the CURSOR  or  button to highlight the “2/MENU MODE” line. Press ENTER to display the “MENU MODE” menu. You can also select the “MENU MODE” menu directly by pressing the INPUT “2” button.

```
– OPTION –  
1 / SETTING MODE  
2 / MENU MODE  
3 / SEQUENCER  
4 / PJ ADDRESS  
5 / VERSION  
6 / HOUR METER  
7 / DEFAULT DATA
```

- 4 Use the CURSOR  or  button to highlight the “MESSAGE COLOR” item.

Press ENTER to display the “MESSAGE COLOR” menu.

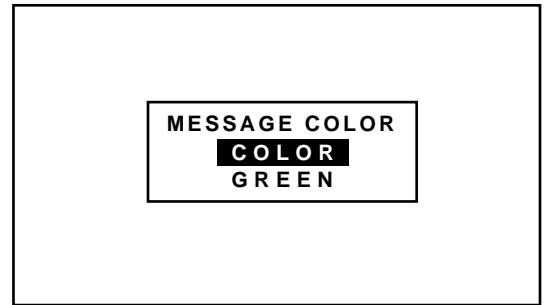
OPTION	- MENU MODE -
MESSAGE MODE	AUTO 10 SEC
<b>MESSAGE COLOR</b>	COLOR
DATE, TIME DISPLAY	DATE : ON
DATE : MM/DD/YY	DAY : OFF
TIME : 24HOUR	TIME : ON
DATE, TIME PRESET	
PJ ADDRESS DISPLAY	OFF
NEW SIGNAL MESSAGE	ON

- 5 Use the CURSOR  or  button to select either “COLOR” or “GREEN” and press ENTER.

**Items to select**

- COLOR .... The on-screen characters will be displayed in color.
- GREEN ..... The on-screen characters will be displayed only in green.

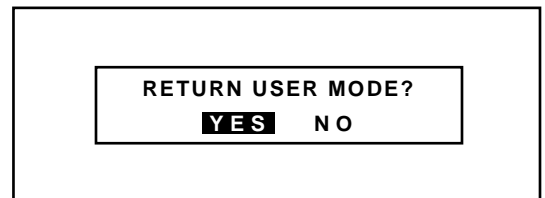
**NOTE:** It is recommended, if the on-screen message interferes with the display image in the “COLOR” mode, that you select “GREEN”.



- 6 To end this mode, press the END button.
- Whenever the END button is pressed, the menus will sequence in this order:  
“OPTION” menu → “ADJUST” menu → Source screen
  - If the “RETURN USER MODE?” menu appears, use the CURSOR  or  button to select either “YES” or “NO” and press ENTER. This will exit the ADJUST mode.

**Items to select**

- YES ..... When you try to enter the ADJUST mode the next time, you will need to re-enter your passcode.
- NO ..... When you try to enter the ADJUST mode the next time, you will not need to re-enter your passcode.











## SETTING

### Date, Time Display Setting

The current year, month, date and time are displayed on the top of the screen.

Proceed as follows:

- 1 Press the ADJUST button to display the “ADJUST” menu.
  - The projector may ask you to enter your passcode.  
See page 68 for the explanation of the PASSCODE.
- 2 Use the CURSOR  or  button to highlight the “8/OPTION” line. Press ENTER to display the “OPTION” menu. You can also select the “OPTION” menu directly by pressing the INPUT “8” button.
- 3 Use the CURSOR  or  button to highlight the “2/MENU MODE” line. Press ENTER to display the “MENU MODE” menu. You can also select the “MENU MODE” menu directly by pressing the INPUT “2” button.
- 4 Use the CURSOR  or  button to highlight the “DATE, TIME, DISPLAY” item. Press ENTER to display the “DATE, TIME DISPLAY” menu.
- 5 Use the CURSOR  or  button to select any one of the three items: DATE, DAY, and TIME. Then press ENTER.

```
- ADJUST -  
1 / SIGNAL ENTRY  
2 / FOCUS  
3 / ALIGNMENT  
4 / CONVERGENCE  
5 / KELVIN  
6 / R,G,B GAIN  
7 / PASSCODE  
8 / OPTION  
9 / REF.ADJUST
```

```
- OPTION -  
1 / SETTING MODE  
2 / MENU MODE  
3 / SEQUENCER  
4 / PJ ADDRESS  
5 / VERSION  
6 / HOUR METER  
7 / DEFAULT DATA
```

OPTION	- MENU MODE -
MESSAGE MODE	AUTO 10 SEC
MESSAGE COLOR	COLOR
<b>DATE, TIME DISPLAY</b>	DATE : ON DAY : OFF TIME : ON
DATE, TIME PRESET	
PJ ADDRESS DISPLAY	OFF
NEW SIGNAL MESSAGE	ON

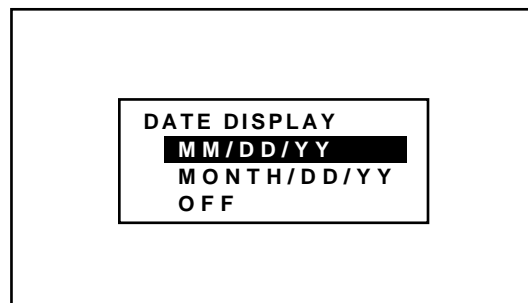
```
DATE, TIME DISPLAY  
DATE ON  
DAY OFF  
TIME ON
```

### ■ When selecting “DATE”

Use the CURSOR  or  button to select any one of the three formats: MM/DD/YY, MONTH/ DD/YY, or OFF from the “DATE DISPLAY” menu and press ENTER.

#### Items to select

- MM/DD/YY ..... Is the date in month/day-of-month/year format.
- MONTH/DD/YY .... Is the date in month (not in Arabic numerals)/day-of-month/year format.
- OFF ..... Does not display the date.

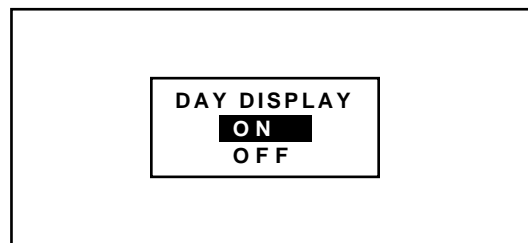


### ■ When selecting “DAY”

Use the CURSOR  or  button to select either “ON” or “OFF” from the “DAY DISPLAY” menu and press ENTER.

#### Items to select

- ON ..... Displays the day of the week
- OFF ..... Does not display the day of the week

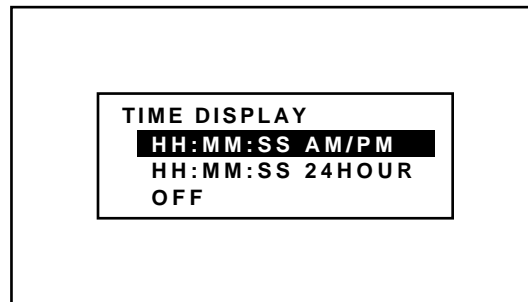


### ■ When selecting “TIME”

Use the CURSOR  or  button to select any one of the three items: HH:MM/SS AM/PM, HH:MM/SS 24 HOUR, or OFF from the “TIME DISPLAY” menu and press ENTER.

#### Items to select

- HH:MM:SS AM/PM .... Is the time in hours/minutes/seconds/am/pm. format
- HH:MM:SS 24 HOUR ..... Is the time in hours/minutes/seconds/24-hour format
- OFF ..... Does not display the time.



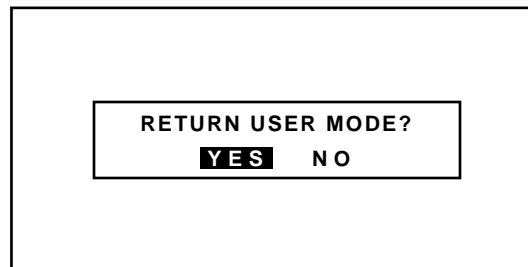
**NOTE:** You can select the time input format for timer, date, preset with this feature. When OFF is selected, use the AM/PM format.

6 To end this mode, press END.

- Whenever the END button is pressed, the menus will sequence in this order:  
“OPTION” menu → “ADJUST” menu → Source screen
- If the “RETURN USER MODE?” menu appears, use the CURSOR  or  button to select either “YES” or “NO” and press ENTER. This will exit the ADJUST mode.







#### Items to select

- YES ..... When you try to enter the ADJUST mode the next time, you will need to re-enter your passcode.
- NO ..... When you try to enter the ADJUST mode the next time, you will not need to re-enter your passcode.



## Entering Date and Time

You can enter the year, date and time to display them on the screen.  
Proceed as follows:

- 1 Press the ADJUST button to display the “ADJUST” menu.
  - The projector may ask you to enter your passcode.  
See page 68 for the explanation of the PASSCODE.
  
- 2 Use the CURSOR  or  button to highlight the “8/OPTION” line. Press ENTER to display the “OPTION” menu. You can also select the “OPTION” menu directly by pressing the INPUT “8” button.
  
- 3 Use the CURSOR  or  button to highlight the “2/MENU MODE” line. Press ENTER to display the “MENU MODE” menu. You can also select the “MENU MODE” menu directly by pressing the INPUT “2” button.
  
- 4 Use the CURSOR  or  button to highlight the “DATE, TIME PRESET” item. Press ENTER to display the “DATE, TIME PRESET” menu.

```

- ADJUST -
1 / SIGNAL ENTRY
2 / FOCUS
3 / ALIGNMENT
4 / CONVERGENCE
5 / KELVIN
6 / R,G,B GAIN
7 / PASSCODE
8 / OPTION
9 / REF. ADJUST
    
```

```

- OPTION -
1 / SETTING MODE
2 / MENU MODE
3 / SEQUENCER
4 / PJ ADDRESS
5 / VERSION
6 / HOUR METER
7 / DEFAULT DATA
    
```

OPTION	- MENU MODE -
MESSAGE MODE	AUTO 10 SEC
MESSAGE COLOR	COLOR
DATE, TIME DISPLAY	DATE : ON
DATE : MM/DD/YY	DAY : OFF
TIME : 24HOUR	TIME : ON
<b>DATE, TIME PRESET</b>	
PJ ADDRESS DISPLAY	OFF
NEW SIGNAL MESSAGE	ON

- 5 Use INPUT buttons to enter the year, month, day, hour, minute, and second and press ENTER.
- Pressing the END button will turn off the “DATE, TIME PRESET” screen and the screen will return to the “MENU MODE” menu.
  - If you made an error in entering data, press the END button to return to the “MENU MODE” menu, then start again.
  - The time input format varies depending on the setting previously explained.

DATE, TIME PRESET

DATE (MM/DD/YY)

    --/--/--(MON)

TIME (HH:MM:SS)

    --:--:--

- 6 To end this mode, press END.
- Whenever the END button is pressed, the menus will sequence in this order:  
“OPTION” menu → “ADJUST” menu → Source screen
  - If the “RETURN USER MODE?” menu appears, use the CURSOR  or  button to select either “YES” or “NO” and press ENTER. This will exit the ADJUST mode.

RETURN USER MODE?

YES     NO

**Items to select**

- YES ..... When you try to enter the ADJUST mode the next time, you will need to re-enter your passcode.
- NO ..... When you try to enter the ADJUST mode the next time, you will not need to re-enter your passcode.

**NOTE:** The projector has a built-in clock. The clock will keep working for about three days after the main power is turned off. If the main power is not supplied to the projector for three days or more, the built-in clock may reset. If the built-in clock resets, set the date and time again. The built-in clock will not reset while in the standby condition.

**PJ Address Display Setting**

This feature allows you to view the PJ address on the screen.

To set the PJ address display, proceed as follows:

- 1 Press the ADJUST button to display the "ADJUST" menu.
  - The projector may ask you to enter your passcode. See page 68 for the explanation of PASSCODE.
  
- 2 Use the CURSOR  or  button to highlight the "8/OPTION" line. Press ENTER to display the "OPTION" menu. You can also select the "OPTION" menu directly by pressing the INPUT "8" button.
  
- 3 Use the CURSOR  or  button to highlight the "2/MENU MODE" line. Press ENTER to display the "MENU MODE" menu. You can also select the "MENU MODE" menu directly by pressing the INPUT "2" button.
  
- 4 Use the CURSOR  or  button to highlight the "NEW SIGNAL MESSAGE" item. Press ENTER to display the "PJ ADDRESS DISPLAY" menu.
  
- 5 Use the CURSOR  or  button to select either "OFF" or "ON", and press ENTER.

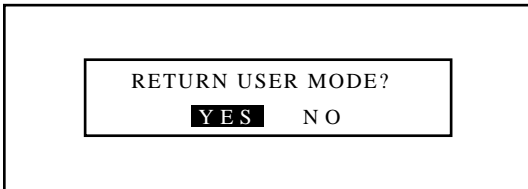
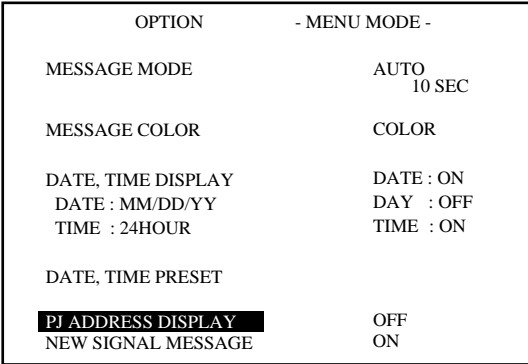
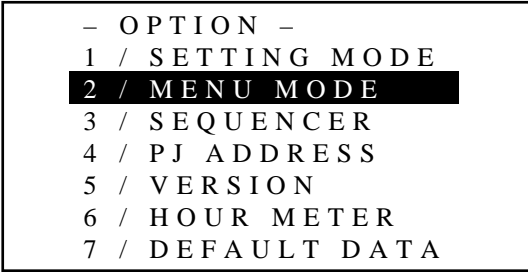
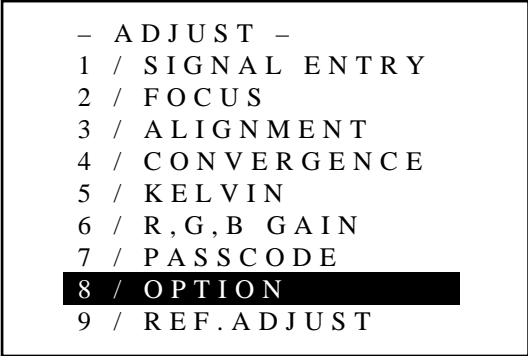
**Items to select**

- OFF ..... Does not display PJ address
- ON ..... Displays PJ address

- 6 To end this mode, press END.
  - Whenever the END button is pressed, the menu will sequence in this order.  
"OPTION" menu→"ADJUST" menu→Source screen.
  - If the "RETURN USER MODE?" menu appears, use the CURSOR  or  button to select either "YES" or "NO" and then press ENTER. This will exit the ADJUST mode.

**Items to select**

- YES ..... When you try to enter the ADJUST mode again, you will need to re-enter your passcode.
- NO ..... When you try to enter the ADJUST mode again, you will not need to re-enter your passcode.



**"NEW SIGNAL" Message Display Setting**

This feature allows you to view the "NEW SIGNAL" message when an unregistered signal is projected.

To set the PJ address display, proceed as follows:

- 1 Press the ADJUST button to display the "ADJUST" menu.
  - The projector may ask you to enter your passcode. See page 68 for the explanation of PASSCODE.
  
- 2 Use the CURSOR  or  button to highlight the "8/OPTION" line. Press ENTER to display the "OPTION" menu. You can also select the "OPTION" menu directly by pressing the INPUT "8" button.
  
- 3 Use the CURSOR  or  button to highlight the "2/MENU MODE" line. Press ENTER to display the "MENU MODE" menu. You can also select the "MENU MODE" menu directly by pressing the INPUT "2" button.
  
- 4 Use the CURSOR  or  button to highlight the "NEW SIGNAL MESSAGE" item. Press ENTER to display the "NEW SIGNAL MESSAGE" menu.
  
- 5 Use the CURSOR  or  button to select either "OFF" or "ON", and press ENTER.

<p><b>Items to select</b></p> <ul style="list-style-type: none"> <li>• ON ..... Displays the "NEW SIGNAL" message</li> <li>• OFF ..... Does not display the "NEW SIGNAL" message</li> </ul>
---

- 6 To end this mode, press END.
  - Whenever the END button is pressed, the menu will sequence in this order.  
"OPTION" menu→"ADJUST" menu→Source screen.
  - If the "RETURN USER MODE?" menu appears, use the CURSOR  or  button to select either "YES" or "NO" and then press ENTER. This will exit the ADJUST mode.

<p><b>Items to select</b></p> <ul style="list-style-type: none"> <li>• YES ..... When you try to enter the ADJUST mode again, you will need to re-enter your passcode.</li> <li>• NO ..... When you try to enter the ADJUST mode again, you will not need to re-enter your passcode.</li> </ul>
---

- ADJUST -
1 / SIGNAL ENTRY
2 / FOCUS
3 / ALIGNMENT
4 / CONVERGENCE
5 / KELVIN
6 / R, G, B GAIN
7 / PASSCODE
<b>8 / OPTION</b>
9 / REF. ADJUST

- OPTION -
1 / SETTING MODE
<b>2 / MENU MODE</b>
3 / SEQUENCER
4 / PJ ADDRESS
5 / VERSION
6 / HOUR METER
7 / DEFAULT DATA

OPTION	- MENU MODE -
MESSAGE MODE	AUTO 10 SEC
MESSAGE COLOR	COLOR
DATE, TIME DISPLAY	DATE : ON DAY : OFF
DATE : MM/DD/YY	TIME : ON
TIME : 24HOUR	
DATE, TIME PRESET	
PJ ADDRESS DISPLAY	OFF
<b>NEW SIGNAL MESSAGE</b>	ON

<p><b>NEW SIGNAL MESSAGE</b></p> <p><b>ON</b></p> <p><b>OFF</b></p>
---



<p><b>RETURN USER MODE?</b></p> <p><b>YES</b> NO</p>
--

## Auto Sequence Setting

You can program the projector to change sources.



Up to 20 program lines can be accepted.

To do this proceed as follows:

- 1 Press the ADJUST button to display the “ADJUST” menu.
  - The projector may ask you to enter your passcode. See page 68 for the explanation of the PASSCODE.
  
- 2 Use the CURSOR  or  button to highlight the “8/OPTION” line. Press ENTER to display the “OPTION” menu. You can also select the “OPTION” menu directly by pressing the INPUT “8” button.



```

- ADJUST -
1 / SIGNAL ENTRY
2 / FOCUS
3 / ALIGNMENT
4 / CONVERGENCE
5 / KELVIN
6 / R,G,B GAIN
7 / PASSCODE
8 / OPTION
9 / REF.ADJUST
    
```

- 3 Use the CURSOR  or  button to highlight the “3/SEQUENCER” line. Press ENTER to display the “SEQUENCER” menu. You can also select the “SEQUENCER” menu directly by pressing the INPUT “3” button.
  - The “SEQUENCER” screen will be displayed.

```



- OPTION -
1 / SETTING MODE
2 / MENU MODE
3 / SEQUENCER
4 / PJ ADDRESS
5 / VERSION
6 / HOUR METER
7 / DEFAULT DATA
    
```

- 4 Use the CURSOR  or  button to select the “EDIT” and press ENTER.
  - This will bring you to the “EDIT” mode, and a program line is highlighted.



**Items to select**

- START ..... Executes the program.
- EDIT ..... Corrects or creates the program data.

OPTION		- SEQUENCER -		
NO	INPUT		TIME	SMTWTF5
01	M-10	S-01	12:00:00	X00000X
02	M-02	S-02	14:00:00	X00000X
03	M-01	S-02		X00000X
04	WAIT		00:10:00	
05	M-01	S-01		X00000X
06	WAIT		00:20:00	
07	LOOP	03	COUNT 05	
08	M-02	S-02	15:50:00	X00000X
09	P-OFF		18:00:00	X00000X
10	P-ON		09:00:00	X00000X
		START		<b>EDIT</b>

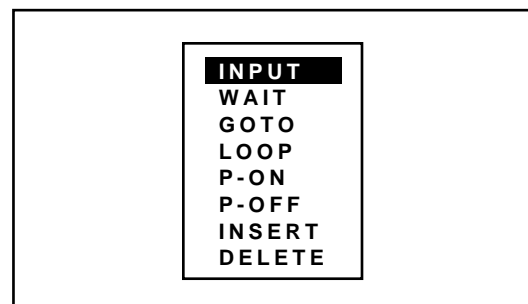
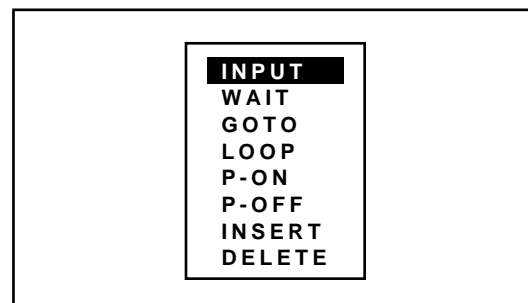
- 5 Use the CURSOR  or  button to highlight the line to be input and press ENTER.
- The Program menu is displayed.

OPTION - SEQUENCER -				
P01				
NO	INPUT		TIME	SMTWTF5
01	M-10	S-01	12:00:00	X00000X
02	M-02	S-02	14:00:00	X00000X
03	M-01	S-02		X00000X
04	WAIT		00:10:00	
05	M-01	S-01		X00000X
06	WAIT		00:20:00	
07	LOOP	03	COUNT 05	
08	M-02	S-02	15:50:00	X00000X
09	P-OFF		18:00:00	X00000X
10	P-ON		09:00:00	X00000X
			START	EDIT

- 6 Use the CURSOR  or  button to highlight the desired item and press ENTER.







**Items to select**

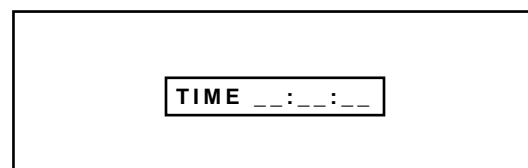
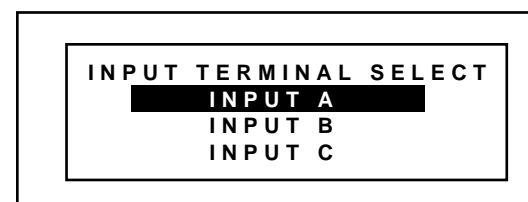
- INPUT ..... Programs to switch sources.
- WAIT ..... Retains the current condition for a specified time.
- GOTO ..... Jumps to the selected line
- LOOP ..... Executes the LOOP operation.
- P-ON ..... Programs to turn on the power at the desired time.
- P-OFF ..... Programs to turn off the power at the desired time.
- INSERT .... Inserts the selected line and moves down the following lines.
- DELETE ... Deletes the selected line and moves up the following lines.



**■ Selecting “INPUT”**

When using in stand alone application:

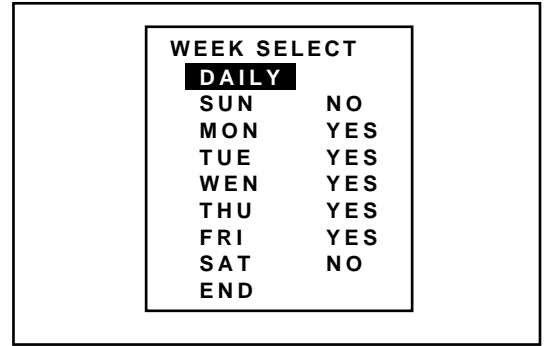
- 1) Use the CURSOR  or  button to select “INPUT” and press ENTER.
  - The “INPUT TERMINAL SELECT” terminal menu is displayed.
- 2) Use the CURSOR  or  button to select an input slot and press ENTER.
  - The “SIGNAL SELECT” menu is displayed.
- 3) Use the CURSOR  or  button to select either “VIDEO”, “RGB”, or “S-VIDEO” and press ENTER.
  - The “TIME” input screen is displayed.
- 4) Enter the starting time using INPUT buttons and press ENTER.
  - Type the time in hours (24 hours), minutes, and seconds.
  - If you have made an error in the input of numbers, press the END button to return to the “VIDEO/RGB/S-VIDEO” terminal menu then start from step 3).
  - The “WEEK SELECT” screen will appear.



**SETTING**

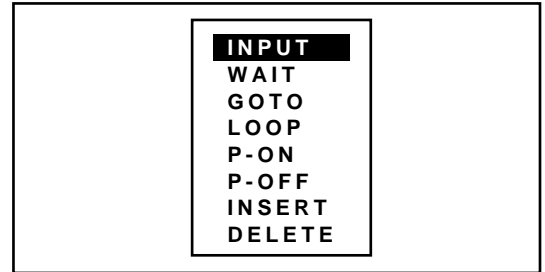
- 5) Use the CURSOR  or  button to select any day of the week, then select either “YES” or “NO” with ENTER.
  - When “DAILY” selected, the entire week is changed to “YES”.
  - When “END” is selected, the current setting is saved.
  - To return to Step 4), press the END button. In that case, the changed setting is invalid.

**NOTE:** Typing 99:99:99 in the time input menu will execute the program immediately. (See the example in the “WAIT” section on page 118)

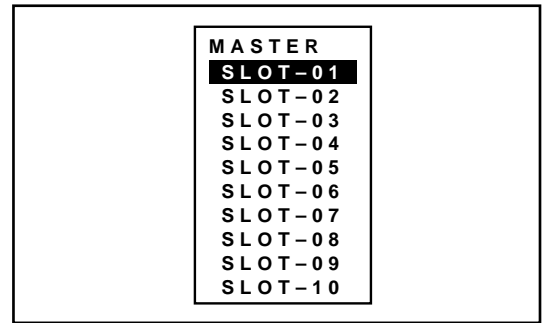


When using with a single ISS-6020/ISS-6020G Switcher:

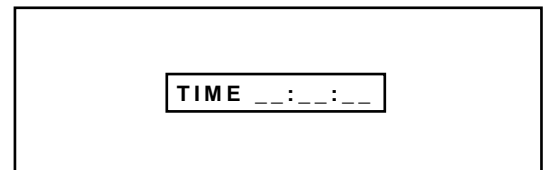
- 1) Use the CURSOR  or  button to select “INPUT” and press ENTER.
  - The “MASTER” menu will be displayed.



- 2) Use the CURSOR  or  button to select the input slot number of the Switcher and press ENTER.
  - The “TIME” input screen will be displayed.

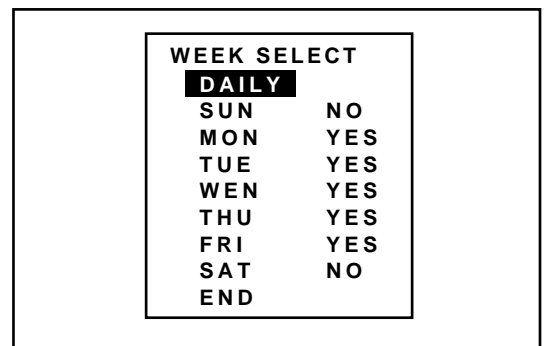


- 3) Enter the starting time using INPUT buttons and press ENTER.
  - Type the time in hours (24 hours), minutes, and seconds.
  - If you have made an error in the input of numbers, press the END button to return to the “MASTER” menu then start from step 2).
  - The “WEEK SELECT” screen will appear.





- 4) Use the CURSOR  or  button to select any day of the week, then select either “YES” or “NO” with ENTER.
  - When “DAILY” selected, the entire week is changed to “YES”.
  - When “END” is selected, the current setting is saved.
  - To return to Step 3), press the END button. In that case, the changed setting is invalid.

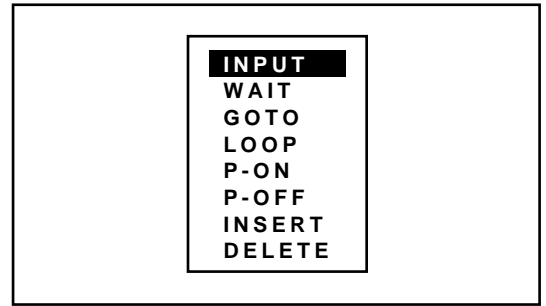
**NOTE:** Typing 99:99:99 in the time input menu will execute the program immediately. (See the example in the “WAIT” section on page 118)





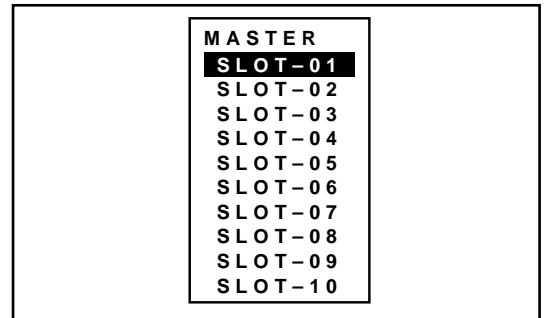
When using with two or more ISS-6020/ISS-6020G Switchers:



1) Use the CURSOR  or  button to select "INPUT" and press ENTER.

- The "MASTER" and "SLAVE" menu will be displayed.

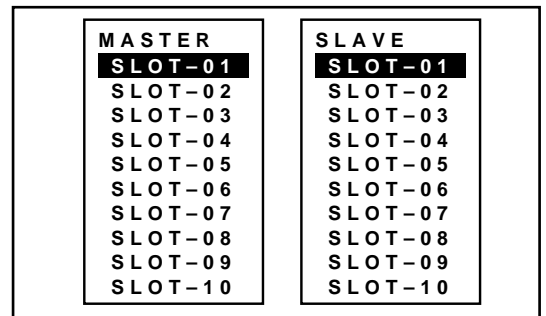


2) Use the CURSOR  or  button to select the input slot number of the master Switcher from the "MASTER" menu and press ENTER.



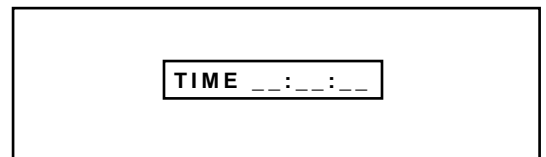
3) Use the CURSOR  or  button to select the input slot number of the slave Switcher from the "SLAVE" menu and press ENTER.

- The "TIME" input screen will be displayed.





4) Enter the starting time using INPUT buttons and press ENTER.

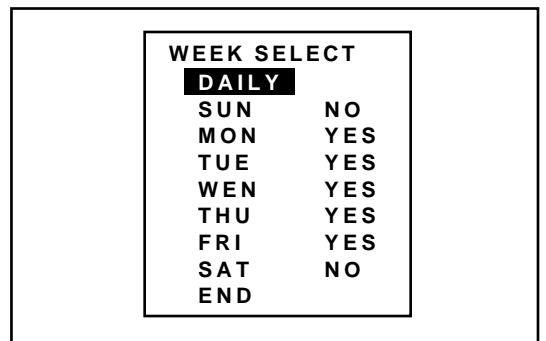
- Type the time in hours (24 hours), minutes, and seconds.
- If you have made an error in the input of numbers, press the END button to return to the "SLAVE" menu then start from step 2).



- The "WEEK SELECT" screen will appear.

5) Use the CURSOR  or  button to select any day of the week, then select either "YES" or "NO" with ENTER.



- When "DAILY" selected, the entire week is changed to "YES".
- When "END" is selected, the current setting is saved.
- To return to Step 4), press the END button. In that case, the changed setting is invalid.



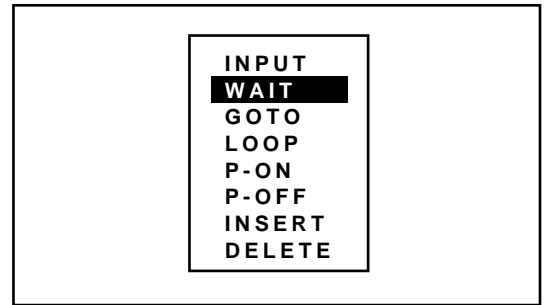
**NOTE:** Typing 99:99:99 in the time input menu will execute the program immediately. (See the example in the following "WAIT" section.)

## SETTING

### ■ Selecting “WAIT”

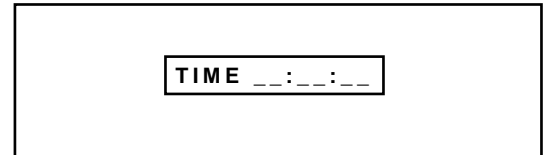
1) Use the CURSOR  or  button to select “WAIT” and press ENTER.

- The “TIME” input screen will be displayed.



2) Type the waiting time using the INPUT buttons and press ENTER.

- Type the time in hours, minutes, and seconds.
- If you have made an error in the input of numbers, press the END button to return to the Program menu on step 1), then start again.



**NOTE:** The waiting time cannot exceed 23 hours, 59 minutes, and 59 seconds.

### *Example:*

When the following program is set, the display as shown on the right will appear:

First line: Select VIDEO, then type “99:99:99” in the TIME input screen, then select “DAILY” in the WEEK SELECT menu for “INPUT”.

Second line: Select type “00:20:00” in the TIME input screen for “WAIT”.

Third line: Type “99:99:99”, then select “DAILY” for “P-OFF”.



When this program starts, the input signal will change to VIDEO immediately. Then, the current condition will be retained for 20 minutes.

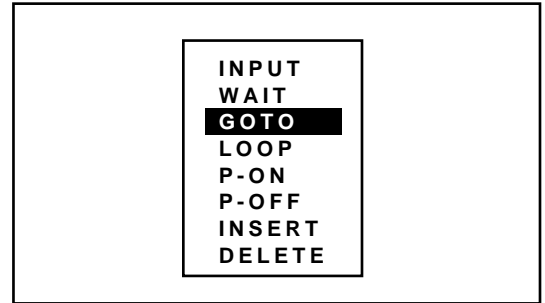
Finally, the power will be turned off.

The “WAIT” function is used to execute the command immediately.

OPTION - SEQUENCER -			
P01			
NO	INPUT	TIME	SMTWTFSS
01	VIDEO		0000000
02	WAIT	00:20:00	
03	P-OFF		0000000
04			
05			
06			
07			
08			
09			
10			
<b>START</b>		EDIT	

### ■ Selecting “GOTO”



- 1) Use the CURSOR  or  button to select “GOTO” and press ENTER.
  - The “GOTO” input screen will be displayed.

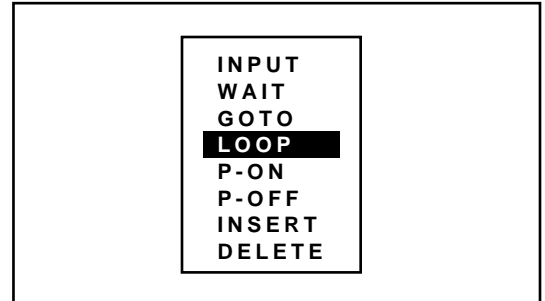


- 2) Enter the scan number line to which you want to jump to using the INPUT button and press ENTER.
  - If you have made an error, press END to return to the Program menu, then start again.
  - The “SEQUENCER” screen will be restored to its last setting.

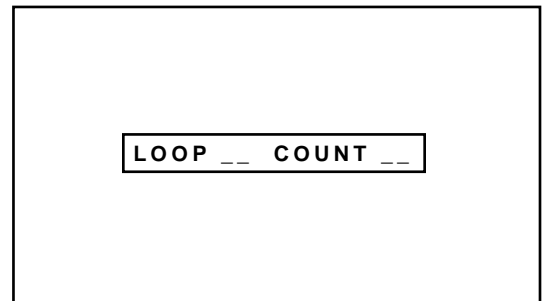


### ■ Selecting “LOOP”



- 1) Use the CURSOR  or  button to select “LOOP” and press ENTER.
  - The “LOOP/COUNT” input screen will be displayed.

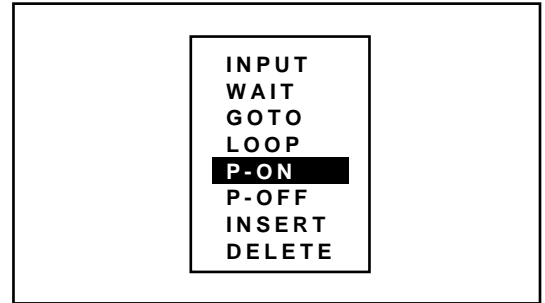


- 2) Enter the number of the destination line (LOOP) and the number of the loop times (COUNT) in this order using the INPUT button and press ENTER.
  - If you have made an error, press END to return to the Program menu, then start again.
  - The “SEQUENCER” screen will be restored to its last setting.

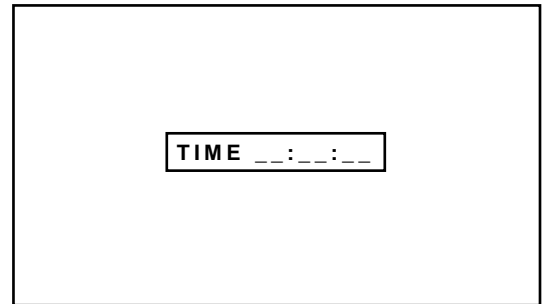


■ **Selecting “P-ON”**

- 1) Use the CURSOR  or  button to select “P-ON” and press ENTER.
  - The POWER ON input screen will be displayed.





- 2) Enter the POWER ON TIME you wish to turn on the projector using INPUT buttons and press ENTER.
  - Type the time in hours (24 hours), minutes and seconds.
  - If you made an error, press END to return to the Program menu, then start again.

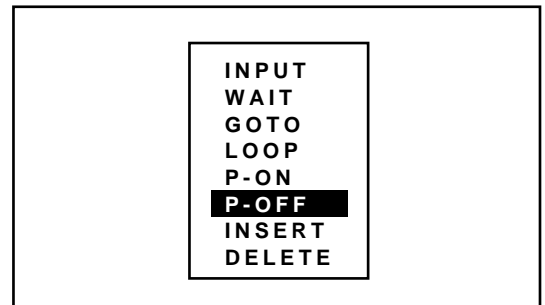


**NOTE 1:** Typing 99:99:99 in the time input menu will execute the program immediately.

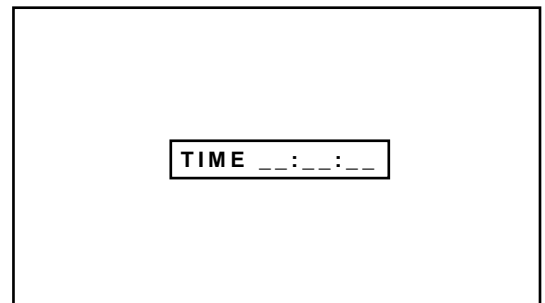
**NOTE 2:** The P-ON command is available only when the projector is off (in the standby condition). The P-ON command is ignored if set in the first line. In this case, the program will start its execution from the second line.

■ **Selecting “P-OFF”**

- 1) Use the CURSOR  or  button to select “P-OFF” and press ENTER.
  - The POWER OFF input screen will be displayed.





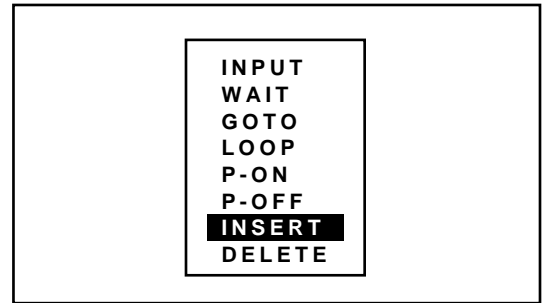
- 2) Enter the POWER OFF TIME you wish to turn on the projector using INPUT buttons and press ENTER.
  - Type the time in hours (24 hours), minutes and seconds.
  - If you made an error, press END to return to the Program menu, then start again.





**NOTE:** Typing 99:99:99 in the time input menu will execute the program immediately. (See the example in the “WAIT” section on page 118)

■ **Selecting “INSERT”**



- 1) Use the CURSOR  or  button to select “INSERT” and press ENTER.

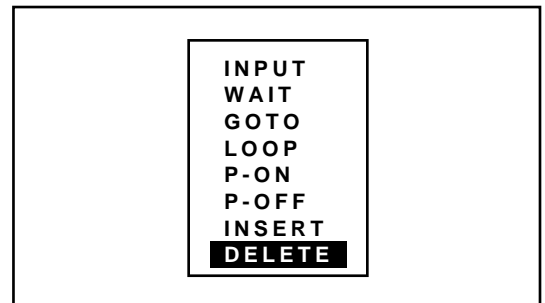




- 2) Use the CURSOR  or  button to select where you wish to insert a vacant line and press ENTER.
  - The highlighted line will be switched to a vacant line and the original line(s) will be moved down.

OPTION - SEQUENCER -				
P01				
NO	INPUT		TIME	SMTWTFS
01	M-10	S-01	12:00:00	X00000X
02	M-02	S-02	14:00:00	X00000X
03	M-01	S-02		X00000X
04	WAIT		00:10:00	
05	M-01	S-01		X00000X
06	WAIT		00:20:00	
07	LOOP	03	COUNT 05	
08	M-02	S-02	15:50:00	X00000X
09	P-OFF		18:00:00	X00000X
10	P-ON		09:00:00	X00000X
			START	EDIT

■ **Selecting “DELETE”**

- 1) Use the CURSOR  or  button to select “DELETE” and press ENTER.



- 2) Use the CURSOR  or  button to select the line you wish to delete and press ENTER.
  - The selected line will be deleted and the following line(s) will be moved up.

OPTION - SEQUENCER -				
P01				
NO	INPUT		TIME	SMTWTFS
01	M-10	S-01	12:00:00	X00000X
02	M-02	S-02	14:00:00	X00000X
03	M-01	S-02		X00000X
04	WAIT		00:10:00	
05	M-01	S-01		X00000X
06	WAIT		00:20:00	
07	LOOP	03	COUNT 05	
08	M-02	S-02	15:50:00	X00000X
09	P-OFF		18:00:00	X00000X
10	P-ON		09:00:00	X00000X
			START	EDIT

## SETTING

7 Pressing the END button will exit the “EDIT” mode.  
Select “START” and press ENTER to execute the program.

- The “\*EXECUTING NO. XX\*” will appear during program execution. When the program is finished, the “\*SEQUENCER END\*” message will appear for about five seconds.

**NOTE:** To cancel the program, hold down the CTL button then press END. The “\*SEQUENCER MANUAL END\*” will appear for about five seconds.

OPTION - SEQUENCER -				
P01				
NO	INPUT		TIME	SMTWTFS
01	M-10	S-01	12:00:00	X00000X
02	M-02	S-02	14:00:00	X00000X
03	M-01	S-02		X00000X
04	WAIT		00:10:00	
05	M-01	S-01		X00000X
06	WAIT		00:20:00	
07	LOOP	03	COUNT 05	
08	M-02	S-02	15:50:00	X00000X
09	P-OFF		18:00:00	X00000X
10	P-ON		09:00:00	X00000X
			<b>START</b>	EDIT

8 To end this mode, press the END button.

- Whenever the END button is pressed, the menus will sequence in this order:  
“SEQUENCER” screen (No highlighted line) → “ADJUST” menu → Source screen
- If the “RETURN USER MODE?” menu appears, use the CURSOR  or  button to select either “YES” or “NO” and then press ENTER. This will exit the ADJUST mode.

### Items to select



- YES ..... When you try to enter the ADJUST mode the next time, you will need to re-enter your passcode.
- NO ..... When you try to enter the ADJUST mode the next time, you will not need to re-enter your passcode.

<table border="1"> <tr> <td>RETURN USER MODE?</td> </tr> <tr> <td><b>YES</b> NO</td> </tr> </table>	RETURN USER MODE?	<b>YES</b> NO
RETURN USER MODE?		
<b>YES</b> NO		

## Address Setting



Each projector needs its own unique address in the case of a serial connection of projectors. Up to 64 addresses can be set.

Proceed as follows:

- 1 Press the ADJUST button to display the “ADJUST” menu.
  - The projector may ask you to enter your passcode.  
See page 68 for the explanation of the PASSCODE.
  
- 2 Use the CURSOR  or  button to highlight the “8/OPTION” line. Press ENTER to display the “OPTION” menu. You can also select the “OPTION” menu directly by pressing the INPUT “8” button.

```

- ADJUST -
1 / SIGNAL ENTRY
2 / FOCUS
3 / ALIGNMENT
4 / CONVERGENCE
5 / KELVIN
6 / R,G,B GAIN
7 / PASSCODE
8 / OPTION
9 / REF.ADJUST
  
```

- 3 Use the CURSOR  or  button to highlight the “4/PJ ADDRESS” line. Press ENTER to display the “ADDRESS” screen. You can also select the “ADDRESS” menu directly by pressing the INPUT “4” button or the ADDRESS button on the full function remote control.

```

- OPTION -
1 / SETTING MODE
2 / MENU MODE
3 / SEQUENCER
4 / PJ ADDRESS
5 / VERSION
6 / HOUR METER
7 / DEFAULT DATA
  
```

- 4 Enter the address number using the INPUT button and press ENTER.
  - If you have made a mistake, press END to return to the “OPTION” menu, then start again.

**NOTE:** Enter the address number “01” when only one projector is used.

```

OPTION
-PJ ADDRESS-
  01 (01-64)
  
```

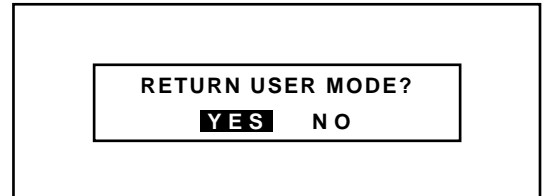
## SETTING

---

- 5 To complete, press the END button.
- Whenever the END button is pressed, the menus will sequence in this order:  
“OPTION” menu → “ADJUST” menu → Source screen
  - If the “RETURN USER MODE?” menu appears, use the CURSOR  or  button to select either “YES” or “NO” and press ENTER. This will exit the ADJUST mode.

### Items to select

- YES ..... When you try to enter the ADJUST mode the next time, you will need to re-enter your passcode.
- NO ..... When you try to enter the ADJUST mode the next time, you will not need to re-enter your passcode.



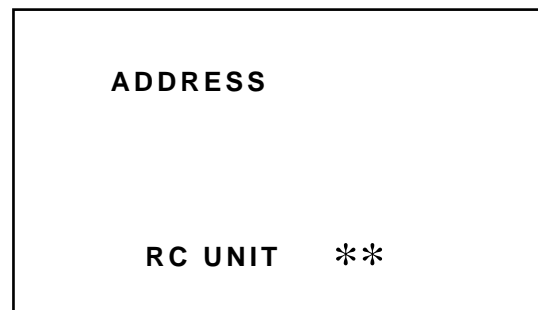
### ■ Addressing the Remote Control Unit

When changing the projector address, ensure that the projector address respond to the remote control address, otherwise you cannot operate the projector using the remote control.

To specify the remote control address, proceed as follows:

- 1) Press and hold the CTL button then press the ADDRESS button to access the RC UNIT address mode.
  - The current remote control address is displayed on the remote control address screen. (When the current remote control address is configured at "00", the remote control address screen will not be displayed.
  - This screen will disappear in 30 seconds.

**NOTE:** When the remote control is used with the Switcher in wired application, a window shown on the right will not be displayed. However, the remote control address can be changed.



When the remote control address is configured at "00", the above screen will not be displayed.

- 2) Use INPUT buttons to enter a new two-digit number and press ENTER.
  - The new remote control address is displayed on the screen. When the new remote control address is configured at "00", the display will not be changed. However, its address has been changed by pressing ENTER.
  - The number you can specify ranges from 00 to 64.

To stop the address changing, press END.  
See the projector address number on the screen.

**NOTE:**

- The buttons other than the above mentioned button and the OFF button are not available during specifying the remote control address.
- If no key input is made within 30 seconds, the remote control automatically exits the RC UNIT address mode.

### Address common to all the projectors

When specifying the remote control address as "00", you can operate the projector using the remote control, regardless of the projector addresses.

If the remote control loses power, the remote control address becomes "00". In this case the on-screen shown on the right above is not displayed on the screen.

**Projector Version Number**

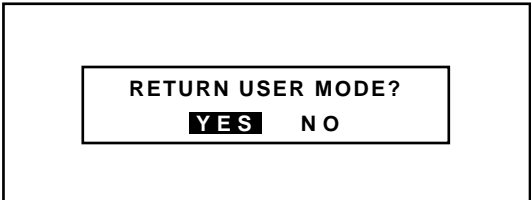
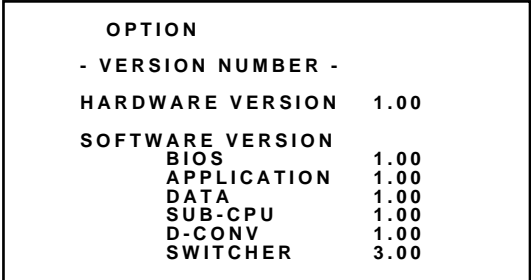
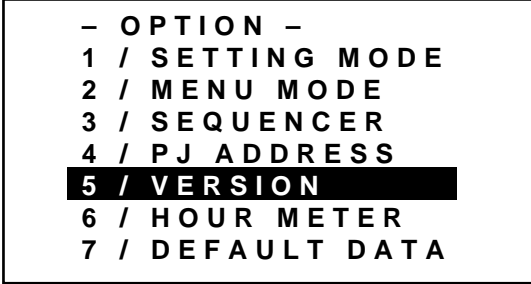
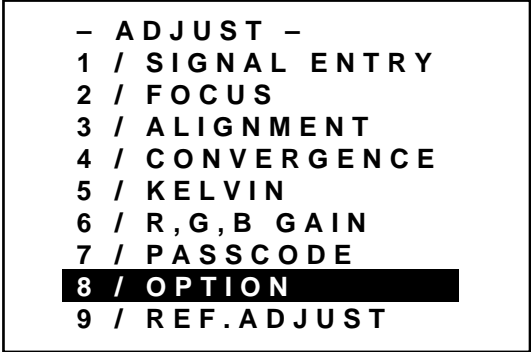
This function lets you know the version for hardware and software used in the projector.

To view the Version number, proceed as follows:

- 1 Press the ADJUST button to display the “ADJUST” menu.
  - The projector may ask you to enter your passcode. See page 68 for the explanation of the PASSCODE.
  
- 2 Use the CURSOR  or  button to highlight the “8/OPTION” line. Press ENTER to display the “OPTION” menu. You can also select the “OPTION” menu directly by pressing the INPUT “8” button.
  
- 3 Use the CURSOR  or  button to highlight the “5/VERSION” line. Press ENTER to display the “VERSION NUMBER” menu. You can also select the “VERSION NUMBER” menu directly by pressing the INPUT “5” button.
  - You will know what version number your applications software and the projector are.
  - The “SWITCHER” item is displayed only when the connect condition is set to the SW 1 or 2 LEVEL.
  
- 4 To exit this menu, press END.
  - Whenever the END button is pressed, the menus will sequence in this order:  
 “OPTION” menu → “ADJUST” menu → Source screen
  - If the “RETURN USER MODE?” menu appears, use the CURSOR  or  button to select either “YES” or “NO” and press ENTER. This will exit the ADJUST mode.

**Items to select**

- YES ..... When you try to enter the ADJUST mode the next time, you will need to re-enter your passcode.
- NO ..... When you try to enter the ADJUST mode the next time, you will not need to re-enter your passcode.



## Checking and Setting the Running Time

The projector will give you the amount of operating time.  
Proceed as follows:

- 1 Press the ADJUST button to display the “ADJUST” menu.
  - The projector may ask you to enter your passcode.  
See page 68 for the explanation of the PASSCODE.
- 2 Use the CURSOR  or  button to highlight the “8/OPTION” line. Press ENTER to display the “OPTION” menu. You can also select the “HOUR METER” screen directly by pressing the INPUT “8” button.
- 3 Use the CURSOR  or  button to highlight the “6/HOUR METER” line. Press ENTER to display the “HOUR METER” screen. You can also select the “HOUR METER” screen directly by pressing the INPUT “6” button.

### Items to select

- PJ RUNNING TIME  
The amount of operating time of the projector.
- CRT RUNNING TIME  
The amount of operating time of CRT.
- USER PJ RUNNING TIME  
The amount of operating time of the projector. User resettable.

### How to reset the user projector or CRT running time:

- 1) Use the CURSOR buttons to select the item and then press ENTER.
  - The “USER PJ RUNNING TIME RESET?” or “USER CRT RUNNING TIME RESET?” menu is displayed.
- 2) Use the CURSOR  or  button to select either “YES” or “NO” and then press ENTER.

### Items to select

- YES ..... The time will be reset
- NO ..... The time will not be reset

- The display will be returned to the “HOUR METER” screen.

```

- ADJUST -
1 / SIGNAL ENTRY
2 / FOCUS
3 / ALIGNMENT
4 / CONVERGENCE
5 / KELVIN
6 / R,G,B GAIN
7 / PASSCODE
8 / OPTION
9 / REF.ADJUST
  
```

```

- OPTION -
1 / SETTING MODE
2 / MENU MODE
3 / SEQUENCER
4 / PJ ADDRESS
5 / VERSION
6 / HOUR METER
7 / DEFAULT DATA
  
```

```

HOUR METER
PJ RUNNING TIME
  ****H **M
CRT RUNNING TIME
R ****H **M
G ****H **M
B ****H **M
USER PJ RUNNING TIME
  ****H **M
  
```

```

USER PJ RUNNING TIME RESET?
  YES  NO
  
```

## SETTING

- 4 To exit the HOUR METER display, press END.
- Whenever the END button is pressed, the menus will sequence in this order:  
“ADJUST” menu → Source screen
  - If the “RETURN USER MODE?” menu appears, use the CURSOR  or  button to select either “YES” or “NO” and then press ENTER. This will exit the ADJUST mode.

### Items to select

- YES ..... When you try to enter the ADJUST mode again, you will need to re-enter your passcode.
- NO ..... When you try to enter the ADJUST mode again, you will not need to re-enter your passcode.

RETURN USER MODE?

**YES** NO

## Viewing Default Data

The feature allows you to view the default data stored in Default Area.  
To view the data, proceed as follows:

- Press the ADJUST button to display the “ADJUST” menu.
  - The projector may ask you to enter your passcode.  
See page 68 for the explanation of the PASSCODE.
- Use the CURSOR  or  button to highlight the “8/OPTION” line. Press ENTER to display the “OPTION” menu. You can also select the “OPTION” menu directly by pressing the INPUT “8” button.
- Use the CURSOR  or  button to highlight the “7/DEFAULT DATA” line. Press ENTER to display the “DEFAULT DATA” screen. You can also select the “DEFAULT DATA” screen directly by pressing the INPUT “7” button.
- To complete, press the END button.
  - Whenever the END button is pressed, the menus will sequence in this order:  
“OPTION” menu → “ADJUST” menu → Source screen
  - If the “RETURN USER MODE?” menu appears, use the CURSOR  or  button to select either “YES” or “NO” and press ENTER. This will exit the ADJUST mode.

– ADJUST –  
1 / SIGNAL ENTRY  
2 / FOCUS  
3 / ALIGNMENT  
4 / CONVERGENCE  
5 / KELVIN  
6 / R, G, B GAIN  
7 / PASSCODE  
**8 / OPTION**  
9 / REF. ADJUST

– OPTION –  
1 / SETTING MODE  
2 / MENU MODE  
3 / SEQUENCER  
4 / PJ ADDRESS  
5 / VERSION  
6 / HOUR METER  
**7 / DEFAULT DATA**

OPTION INPUT	H-FREQ. (KHz)	-DEFAULT DATA- REGISTERED DEFAULT DATA
1	15 to 25	15kHz (60Hz)
2	20 to 40	NONE
3	35 to 50	48KHz (60Hz)
4	45 to 75	NONE
5	70 to 110	NONE
6	105 to 135	NONE

### Items to select

- YES ..... When you try to enter the ADJUST mode the next time, you will need to re-enter your passcode.
- NO ..... When you try to enter the ADJUST mode the next time, you will not need to re-enter your passcode.

RETURN USER MODE?

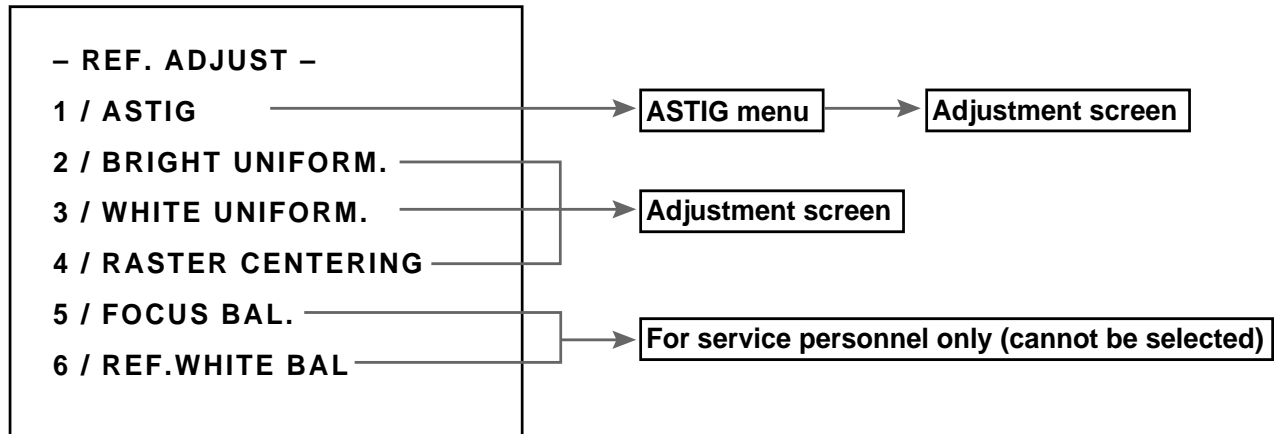
**YES** NO

# REFERENCE ADJUSTMENT

## REF. ADJUST menu

Adjustments contained in this menu are criteria. The adjustments are performed once after installation. The projector has only one data area for all the registered signals.

Further adjustments are not necessary in normal use. Leave the settings as they are at the factory.





### NOTE

Items 5 and 6 cannot be selected as they are for service personnel only. If you try to select one, the "For service personnel only" message is displayed at the bottom of the screen.

- Press and hold the CTL button then press to display the "REF. ADJUST" menu.  
The "REF. ADJUST" menu can also be displayed by selecting the "9/REF. ADJUST" item in the ADJUST menu.



## Astig Adjustment

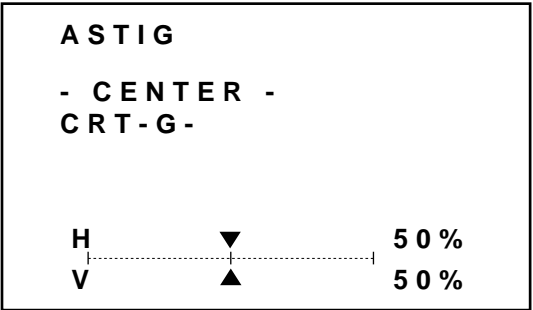
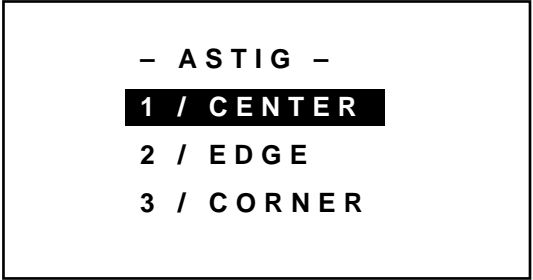
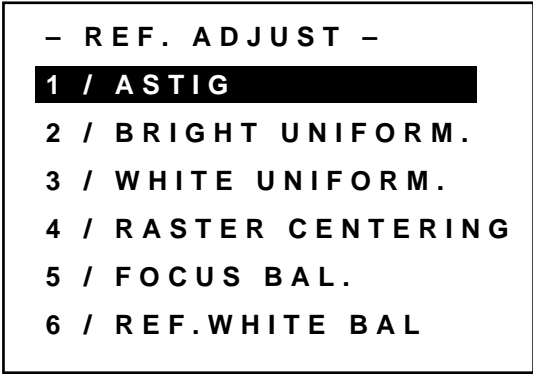
This feature allows you to adjust the beam shape.  
 Proceed as follows:

- 1 Press and hold the CTL button then press the ADJUST button to display the “REF. ADJUST” menu.
  - The projector may ask you to enter your passcode.
  - See page 68 for the explanation of the PASSCODE.
- 2 Use the CURSOR  or  button to highlight the “1/ASTIG” item. Press the ENTER or INPUT “1” button to display the “ASTIG” menu.


**Items to select**

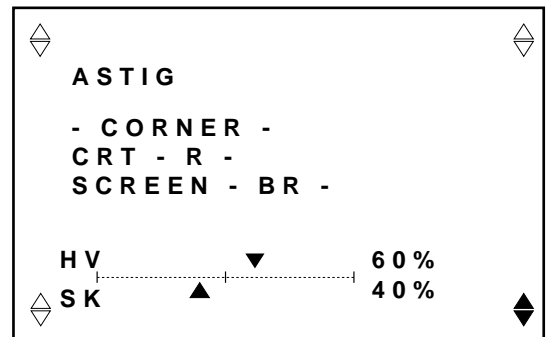
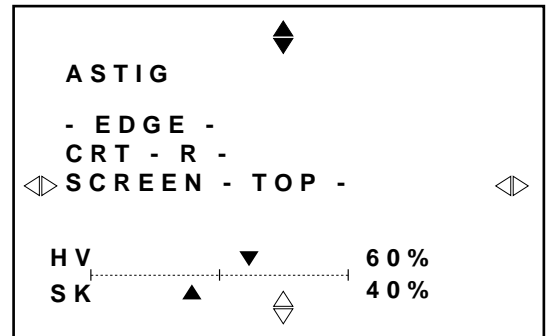
- CENTER ..... Adjusts the whole screen
- EDGE ..... Adjusts the top, bottom, left, and right sides on the screen
- CORNER ..... Adjusts the four corners on the creen

- 3 Use the CURSOR  or  button to select the “CENTER”, “EDGE”, or “CORNER” item. Press the ENTER button to display the “ASTIG” adjustment screen.
  - The “DOT COARSE” test pattern is automatically displayed.
  - Pressing The CTL and FOCUS buttons rotates three items as follows:  
 CENTER→EDGE→CORNER
- 4 Select the CRT you wish to adjust with R, G, or B button.
- 5 Press the R, G, or B button to project the only CRT beam to be adjusted.
  - You can turn on or off each CRT beam (R, G, or B).







6 Press and hold the CTL then press any one of the CURSOR buttons to select the position to be adjusted. (The marker on the selected side will turn to a solid color.)

- CTL +  ..... Top
- CTL +  ..... Bottom
- CTL +  ..... Right
- CTL +  ..... Left





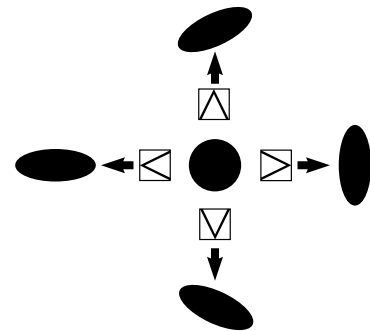
7 Use the CURSOR buttons to adjust the selected position.

- Adjust the center, edge, and corner in this order. If necessary, repeat the procedure.
- Press CURSOR  or  button to adjust the selected position horizontally or vertically.

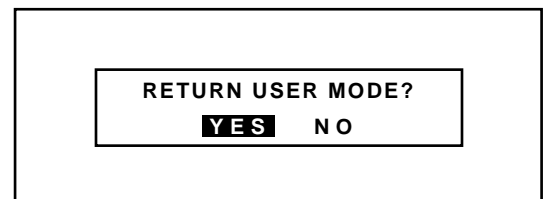
Press CURSOR  or  button to adjust the selected position diagonally.

8 To end this mode, press the END button.

- Whenever the END button is pressed, the menu will sequence in this order:  
 “REF. ADJUST” menu→Source screen
- If the “RETURN USER MODE?” menu appears, use the CURSOR  or  button to select either “YES” or “NO” and then press ENTER. This will exit the REF. ADJUST mode.



- Items to select**
- YES ..... When you try to enter the ADJUST mode the next time, you will need to re-enter your passcode.
  - NO ..... When you try to enter the ADJUST mode the next time, you will not need to re-enter your passcode.











## Bright Uniformity Adjustment

This feature allows you to equalize the brightness between the center and the edge.

### Before adjustment:

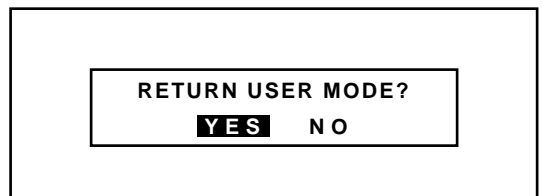
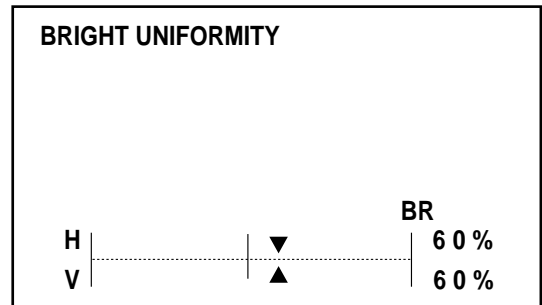
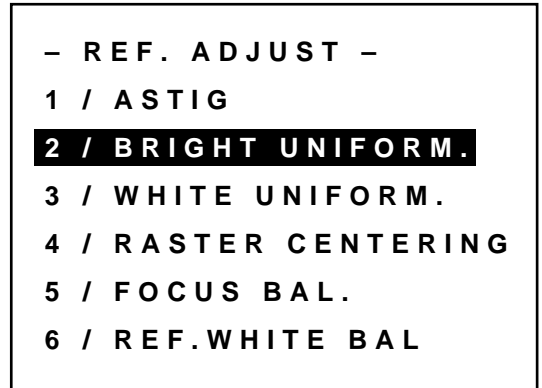
- Select the “ALL WHITE” pattern using the TEST button on the full function remote control.

### Proceed as follows:

- 1 Press and hold the CTL button then press the ADJUST button to display the “REF. ADJUST” menu.
  - The projector may ask you to enter your passcode.
  - See page 68 for the explanation of the PASSCODE.
- 2 Use the CURSOR  or  button to highlight the “2/BRIGHT UNIFORM.” item. Press the ENTER or INPUT “2” button to display the “BRIGHT UNIFORMITY” adjustment screen.
- 3 Use the CURSOR buttons to adjust the right, left, top, or bottom edge.
  - Press CURSOR  or  button to increase or decrease the brightness on the right and the left side.
  - Press CURSOR  or  button to increase or decrease the brightness on the top and the bottom side.
- 4 To end this mode, press the END button.
  - Whenever the END button is pressed, the menus will sequence in this order:  
“REF. ADJUST” menu→Source screen
  - If the “RETURN USER MODE?” menu appears, use the CURSOR  or  button to select either “YES” or “NO” and then press ENTER. This will exit the REF. ADJUST mode.

#### Items to select

- YES ..... When you try to enter the ADJUST mode the next time, you will need to re-enter your passcode.
- NO ..... When you try to enter the ADJUST mode the next time, you will not need to re-enter your passcode.











## White Uniformity Adjustment

This feature allows you to adjust color balance on the left and the right side of the screen.

### Before adjustment:

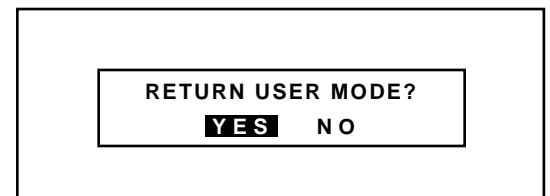
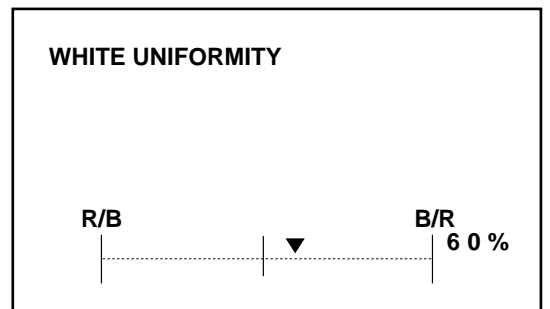
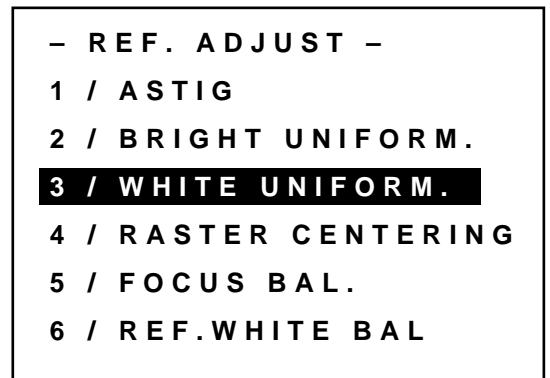
- When you are in this mode, all the three CRTs are beamed, and the CRTs cannot be cut off.
- Select the “ALL WHITE” pattern using the TEST button on the full function remote control.

### Proceed as follows:

- 1 Press and hold the CTL button then press the ADJUST button to display the “REF. ADJUST” menu.
  - The projector may ask you to enter your passcode.
  - See page 68 for the explanation of the PASSCODE.
- 2 Use the CURSOR  or  button to highlight the “3/WHITE UNIFORM.” item. Press the ENTER or INPUT “3” button to display the “WHITE UNIFORMITY” adjustment screen.
- 3 Use the CURSOR buttons to adjust the left and the right edge.
  - Press CURSOR  or  button to increase the amount of blue on the right side and the amount of red on the left side. Press CURSOR  or  button to increase the amount of red on the right side and the amount of blue on the left side.
- 4 To end this mode, press the END button.
  - Whenever the END button is pressed, the menus will sequence in this order:  
“REF. ADJUST” menu → Source screen
  - If the “RETURN USER MODE?” menu appears, use the CURSOR  or  button to select either “YES” or “NO” and then press ENTER. This will exit the REF. ADJUST mode.

#### Items to select









- YES ..... When you try to enter the ADJUST mode the next time, you will need to re-enter your passcode.
- NO ..... When you try to enter the ADJUST mode the next time, you will not need to re-enter your passcode.



## Raster Centering Adjustment

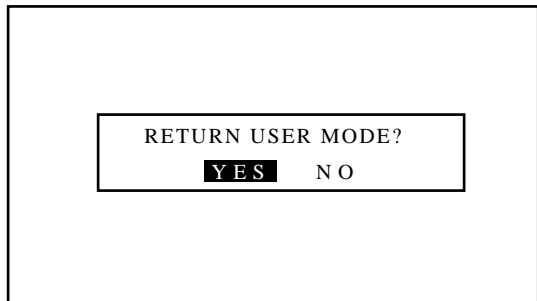
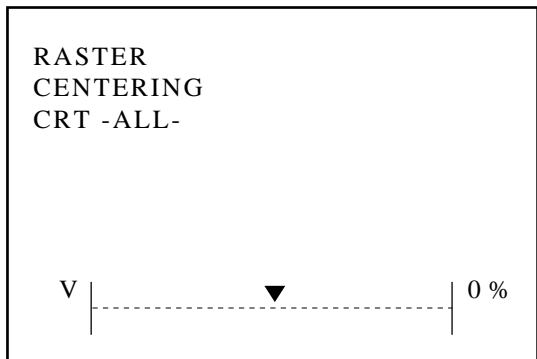
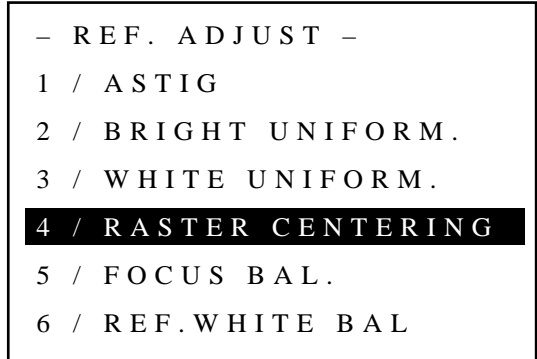
This feature allows you to correct the vertical position of the raster. Note that this adjustment affects all the CRTs at the same time.

**Proceed as follows:**

- 1 Press and hold the CTL button then press the ADJUST button to display the “REF. ADJUST” menu.
  - The projector may ask you to enter your passcode.
  - See page 68 for the explanation of the PASSCODE.
- 2 Use the CURSOR  or  button to highlight the “4/ RASTER CENTERING” item. Press the ENTER or INPUT “4” button to display the “RASTER CENTERING” adjustment screen.
- 3 Use the CURSOR buttons to adjust the raster position.
  - Pressing CURSOR  or  moves the raster up.
  - Pressing CURSOR  or  moves the raster down.
- 4 To end this mode, press the END button.
  - Whenever the END button is pressed, the menus will sequence in this order:  
“REF. ADJUST” menu → Source screen
  - If the “RETURN USER MODE?” menu appears, use the CURSOR  or  button to select either “YES” or “NO” and then press ENTER. This will exit the REF. ADJUST mode.

Items to select

- YES .... When you try to enter the ADJUST mode the next time, you will need to re-enter your passcode.
- NO ..... When you try to enter the ADJUST mode the next time, you will not need to re-enter your passcode.



---

# *Appendix*

## **CONTENTS**

### **Timing Charts**

Pre-set Signals .....	136
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<b>Message List .....</b>	<b>139</b>

# TIMING CHARTS

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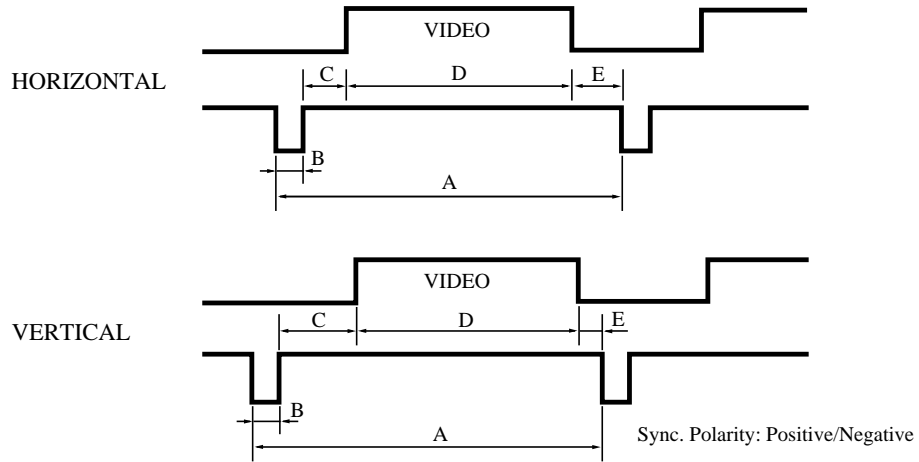
## Pre-set Signals

The following signals have been set by factory.

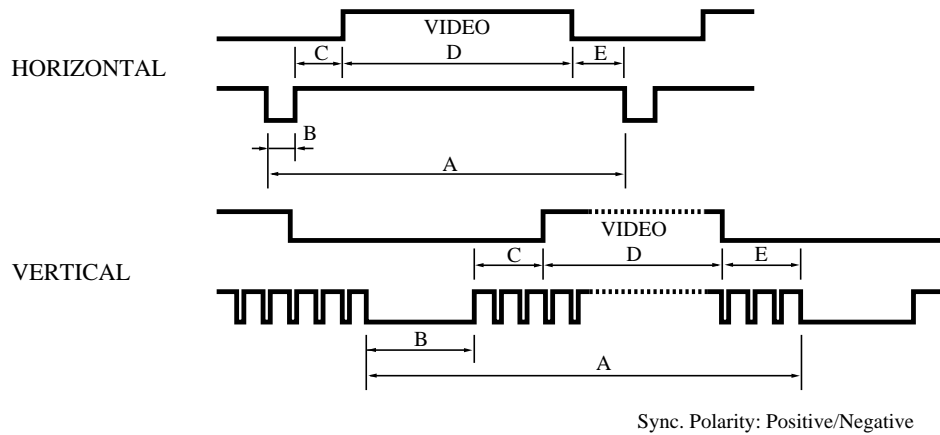
P01/10-1 INPUT SELECT			
STANDALONE			
NO	NAME	SOURCE	INPUT
01	NTSC3.58	VIDEO	A
02	NTSC4.43	VIDEO	A
03	PAL	VIDEO	A
04	SECAM	VIDEO	A
05	VESA1024	RGB	A
06			
07			
08			
09			
10			

**Input Signal Reference Chart**

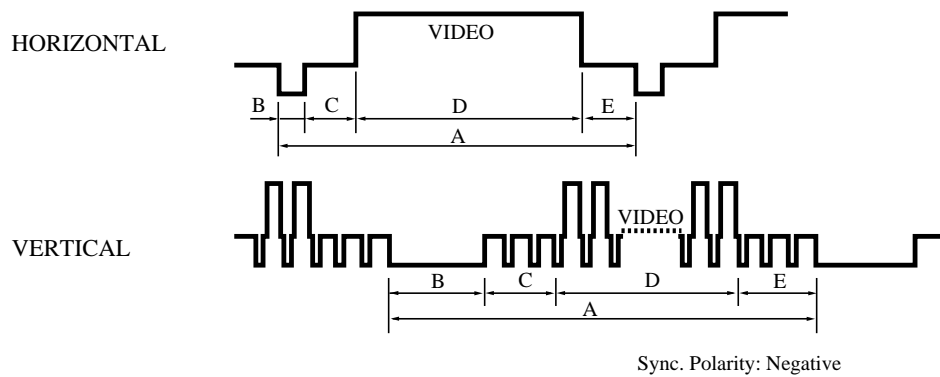
**Separate Sync.**



**Composite Sync.**



**Composite Sync. & Video (Sync. on Green)**



TIMING CHART

**Input Signal Timing**

		A	B	C	D	E	Polarity
IBM VGA 350	H $\mu$ s	31.8	3.8	1.6	26.1	0.3	+
	V ms	14.3	0.06	1.72	11.53	0.99	-
IBM VGA 400	H $\mu$ s	31.8	3.8	1.6	26.1	0.3	-
	V ms	14.3	0.06	0.89	13.19	0.16	+
IDTV	H $\mu$ s	31.78	2.76	1.6	26.29	1.13	-
	V ms	16.67	0.64	0.77	15.14	0.12	-
Macintosh II	H $\mu$ s	28.57	2.12	3.17	21.16	2.12	
	V ms	15	0.09	1.11	13.71	0.09	
IBM VGA 480	H $\mu$ s	31.8	3.8	1.6	26.1	0.3	-
	V ms	16.7	0.06	0.79	15.79	0.06	-
Macintosh Quadra	H $\mu$ s	14.64	1.30	1.32	11.56	0.46	
	V ms	13.342	0.044	0.574	12.68	0.044	
VESA 800 $\times$ 600 (72 Hz)	H $\mu$ s	20.8	2.4	1.28	16.00	1.12	
	V ms	13.887	0.124	0.479	12.510	0.722	
VESA 1024 $\times$ 768 (60 Hz)	H $\mu$ s	20.677	2.092	2.462	15.754	0.369	
	V ms	16.667	0.124	0.600	15.880	0.062	

- IBM CGA, EGA and VGA are registered trademarks of International Business Machines Corporation.
- Apple is a registered trademark of Apple Computer Inc. Macintosh II and Macintosh Quadra are trademarks of Apple Computer Inc.
- VESA is an abbreviation for Video Electronics Standards Association.

# MESSAGE LIST

The following boxed messages are displayed in the center of the screen.

**WARNING  
FAN HAS STOPPED!!!**

**Conditions:** One or more of the fans located within the projector has stopped.  
The projector power will be switched off in about 15 seconds. (Error code E0)

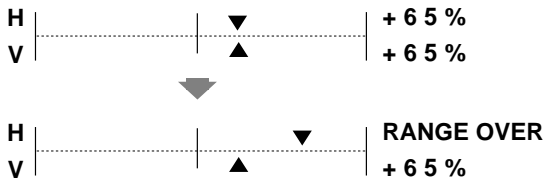
**Countermeasures:** A fan operation check is required. Please contact a service person.

**ABNORMAL CORRECTION DATA**

**Conditions:** The amount of correction for the various adjustment items has become abnormally large. Left as is, a burden will be placed upon the projector; therefore, measures have been taken to protect the projector. The data of the adjustments which were performed when the message was displayed have been set to 0%, (i.e., the data are not stored). Depending on the circumstances, the projector power might be switched off about 2 seconds after the message appears. (Error code F8)

**Countermeasures:** Please review the amount of correction for the various adjustment items.  
Also, check with service personnel to ensure that the projector is placed properly.

**“RANGE OVER”**  
“RANGE OVER” is displayed in the portion of the gauge that displays the percentage.



**Conditions:** This message might be displayed at the time of the CONVERGENCE, FOCUS (EDGE SEPARATE), and WHITE-BAL adjustments. Should this display appear, further increases or decreases in the amount of correction will not reflect a change of the data on the screen.

**Countermeasures:** Please review the amount of correction for the various adjustment items.  
The various data correlate with the adjustment (setting) data of ALIGNMENT, FOCUS (EDGE ALL), and COLOR TEMP., and changes to this data result in changes to the range over which “RANGE OVER” occurs.

**H-FREQUENCY LIMIT OVER!!  
POWER WILL BE SHUTDOWN**

**Conditions:** Higher frequency than the projector supports has been input.

**Countermeasures:** Check if the connected source is supported by the projector.

**CANNOT ENTRY!!  
AN INPUT SIGNAL IS DIFFERENT FROM  
THE SELECTED CONTENTS  
IN SIGNAL ENTRY WINDOW.**

**Conditions:** This signal format (e.g. VIDEO or RGB) you are trying to register does not match the optional input board. The above message will be displayed only when the connect condition is set to SW 1 or 2 LEVEL.

**Countermeasures:** Connect a VIDEO or S-VIDEO signal to the VIDEO input board and an RGB or COMPONENT signal to the RGB input board. Check the installed input board and the slot number.

## MESSAGE LIST

The following messages are displayed at the bottom portion of the screen.

Message	Conditions	Countermeasures
*CAN NOT CHANGE!!	TEST button is depressed at the time of the POSITION-SHIFT adjustment.	Changes to the TEST PATTERN are not possible at the time of the POSITION-SHIFT adjustment.
*CAN NOT CUT OFF CRT*	R, G, B button is depressed at the time of the BRIGHT, WHITE-BAL, COLOR TEMP., COLOR SHIFT, and BASE WHITE adjustments.	The CRT cannot be cut off at the time of the BRIGHT, WHITE-BAL, COLOR TEMP., COLOR SHIFT, and BASE WHITE adjustments.
*CAN NOT MAKE ENTRY*	Error during signal registration	Register again, or check the input signal.
*CAN NOT LOAD (NO ENTRY)*	LOAD is not possible due to input signal not being registered.	New registration of signal
*CAN NOT SELECT*	Attempt to select an item that cannot be selected	There is an unselectable item due to the input signal or the connection condition of the peripheral equipment.
*CAN NOT STORE (NO ENTRY)*	STORE is not possible due to input signal not being registered.	New registration of signal
*CHANGE PASSCODE COMPLETE!!*	Passcode change completed	-
*D-CONV BUSY*	The D-CONV PWB is engaged in computational processing.	*
*D-CONV COMMUNICATION ERROR*	D-CONV PWB communication error	*
*D-CONV CPU NOT READY*	D-CONV PWB communication error	*
*DELETING*	Signal is being deleting from INPUT LIST.	-
*ENTRY COPY END*	ENTRY COPY completed	-
*ENTRY LIST IS FULL !*	There is no space for signals No. 51 and later in Input List when "NEW" is selected from "STORE?" menu.	Make an entry in SIGNAL ENTRY or delete signals for No. 51 or later from Input List to create space.
*ENTRY MOVE END*	ENTRY MOVE completed	-
* EXTERNAL CONTROL EXECUTING*	Signal selection from INPUT LIST while in the external control mode	Operation by external control
*EXTERNAL CONTROL PICTURE MUTE ON*	Depress the R, G, B button or execute PICTURE FUNCTION adjustment items during the PICTURE MUTE setting in the external control mode	Cancel PICTURE MUTE by external control
*EXTERNAL CONTROL SOUND MUTE ON*	Execute the SOUND FUNCTION adjustment items during the PICTURE MUTE setting in the external control mode	Cancel SOUND MUTE by external control
*FOR SERVICE PERSONNEL ONLY*	Function for service personnel.	Not adjustable by the end user.
*GAIN DATA COPY END*	GAIN DATA COPY completed	-
*INPUT B (or C) IS NOT AVAILABLE*	No optional board is installed in INPUT B (or C) slot.	Check the slot.

Message	Conditions	Countermeasures
*INPUT DATE ERROR*	Date input mistake during the date and time setting	Input in the form of MM:DD:YY
*INPUT TIME ERROR*	Time input mistake during the date and time setting	Input in the form of HH:MM:SS (24 hours)
*KEY INPUT ERROR*	Key input is invalid.	Input the correct key.
*NEW SIGNAL!!*	An unregistered signal has been input.	Signal registration
*PASSCODE ALREADY DISABLED!!*	Selection of PASSCODE DISABLE, when the passcode has not be registered.	-
*PICTURE MUTE ON!!*	R, G, B button is depressed at the time of PICTURE MUTE setting	Cancel PICTURE MUTE
*POINT DATA WRITE ERROR*	POINT DATA write error	*
*POINT LIMIT OVER*	POINT adjustment data are at a maximum	Reduce the correction data, combine other adjustments, and adjust.
*SELECTED SCAN NUMBER IS NOT USED*	Selection of an unregistered line on the INPUT LIST	Select a registered line.
*SEQUENCER ABNORMAL END*	An error occurred while the SEQUENCER user program was running, and the program was forced to stop.	Reset the SEQUENCER.
*SEQUENCER DATA ERROR*	POWER OFF or an INPUT command was not set in the SEQUENCER user program	Reset the SEQUENCER.
*SEQUENCER END*	AUTO SEQUENCER finished	-
*SEQUENCER MANUAL END*	There was a manual completion when the AUTO SEQUENCER was running.	-
*STORING*	The gain data is being stored.	-
*THE PROJECTOR WILL TURN OFF SOON*	The projector will turn off in three minutes when ON/OFF or SLEEP TIMER is set to ON.	Disable or change the timer.
*THIS COLOR IS NOT APPLICABLE*	The selected tube was not on during the gain adjustment.	Switch on the adjustment tube.
*WARNING ADDRESS!!*	Invalid PJ address input	Input 01 to 64
*WARNING DIFFERENT PASSCODE!!*	Passcode input mistake	Input the registered passcode.
*WARNING PASSCODE!!*	Invalid passcode input	0000 and 9999 cannot be used

\*Please contact service personnel if there are frequent occurrences.

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