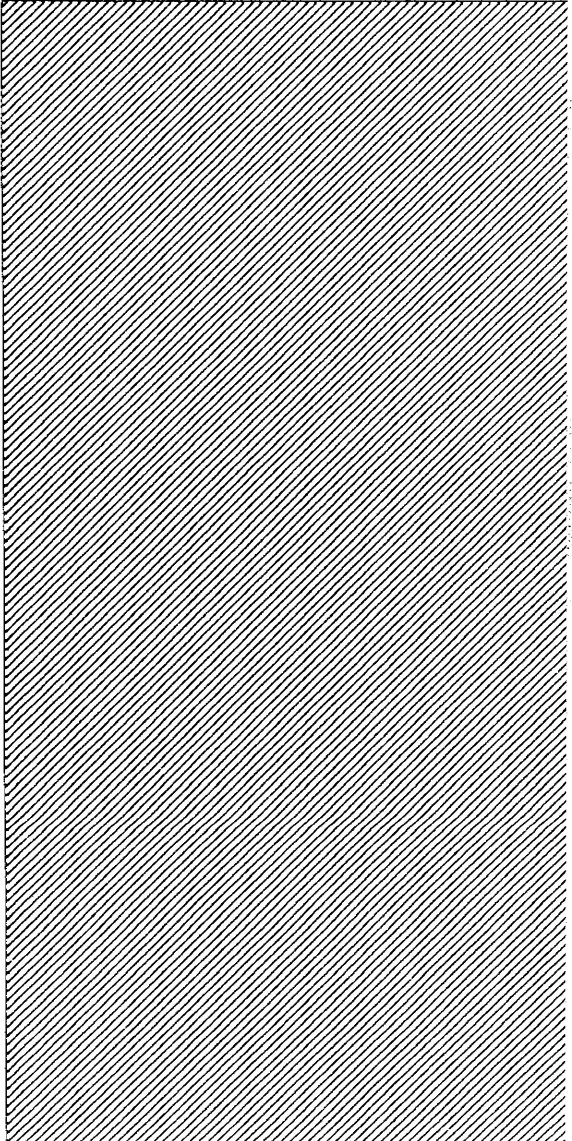


Set-Up



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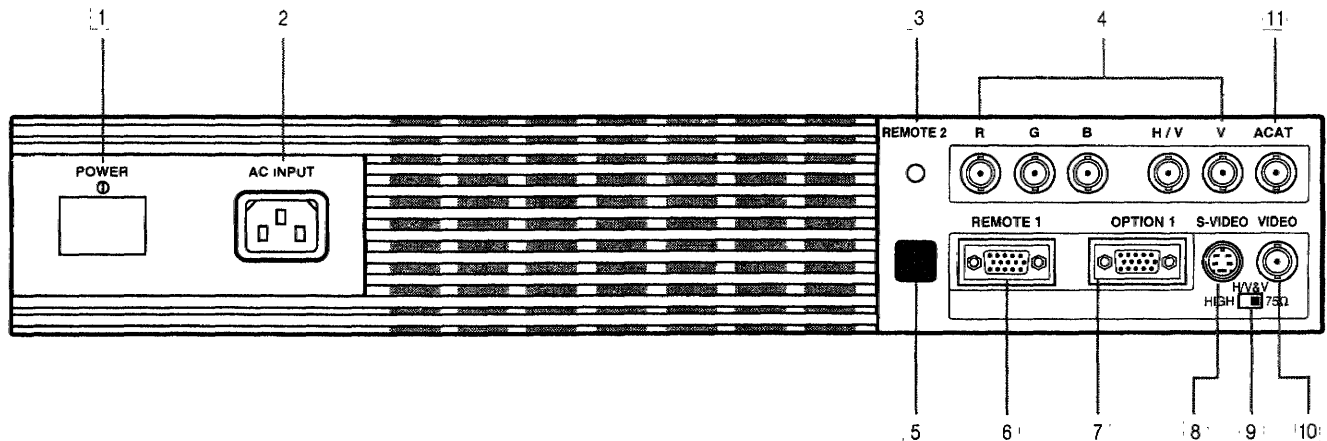
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PART NAMES AND FUNCTIONS

Front Terminal Panel



1 POWER Switch (Main power)

Press to turn the main power on. The STANDBY 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 again 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 to protect your projector and the connected equipment.

2 AC INPUT

Connect the supplied power cord here.

3 REMOTE 2 Jack

The supplied full function remote control is connected here. The wireless control does not work when the remote cable plug is inserted here.

4 R,G,B, H/V and V Input Terminals

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.

5 Remote Sensor

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

6 REMOTE 1 Terminal

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

NOTE: The ISS-6010/ISS-6010G Switcher is compatible with this projector.

7 OPTION 1 Input Terminal

For future system expansion.

8 S-VIDEO Input Terminal

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

9 H/V, V Impedance Switch(HIGH/75 Ω)

Selects the impedance of the H/V and the V terminals. In normal operation, set at the "75Ω" position. Slide the switch to the "HIGH" position when inputting a TTL signal.

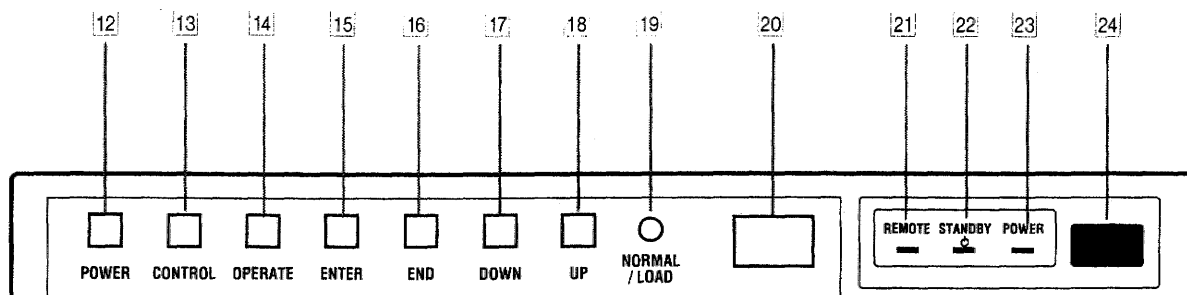
10 VIDEO Input Terminal

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

11 ACAT Terminal

This is a video output connector for the optional built-in CCD camera, which is needed to execute the automatic convergence with the optional ACAT software.

Rear Control Panel



12 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 indicator lit).

13 CONTROL Button

Used with other buttons, similar to a shift key on a computer. This is referred to as the CTL button in this manual and has the same function as the CTL button on the remote.

14 OPERATE Button

Press to display the OPERATE menu. You can select the following adjustment functions from this menu.

- | | |
|-------------|-----------------|
| 1/ PICTURE | 4/ INPUT SELECT |
| 2/ POSITION | 5/ SOURCE INFO |
| 3/ SOUND | 6/ STATIC |

NOTE: "3/SOUND" is not included in stand alone operate menu.


15 ENTER Button

Executes menu selection and switches input.


16 END Button

Exits the adjustment mode.

17 DOWN Button

Used to decrease values or move the cursor downward. When used with the CONTROL button, the DOWN button works as the CURSOR  button on the remote control unit.

18 UP Button

Used to increase values or move the cursor upward. When used with the CONTROL button, the UP button works as the CURSOR  button on the remote control unit.

19 NORMAL/LOAD Button

Returns the adjustment data to the standard level (factory preset level). While holding down the CONTROL button, press the NORMAL button to display the "LOAD/ CANCEL" menu to select either LOAD (last stored level) or CANCEL (data cancelled).

20 Two Digit Display

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

21 REMOTE Indicator

Flashes to acknowledge when the projector receives a signal from the remote control.

22 STANDBY Indicator

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

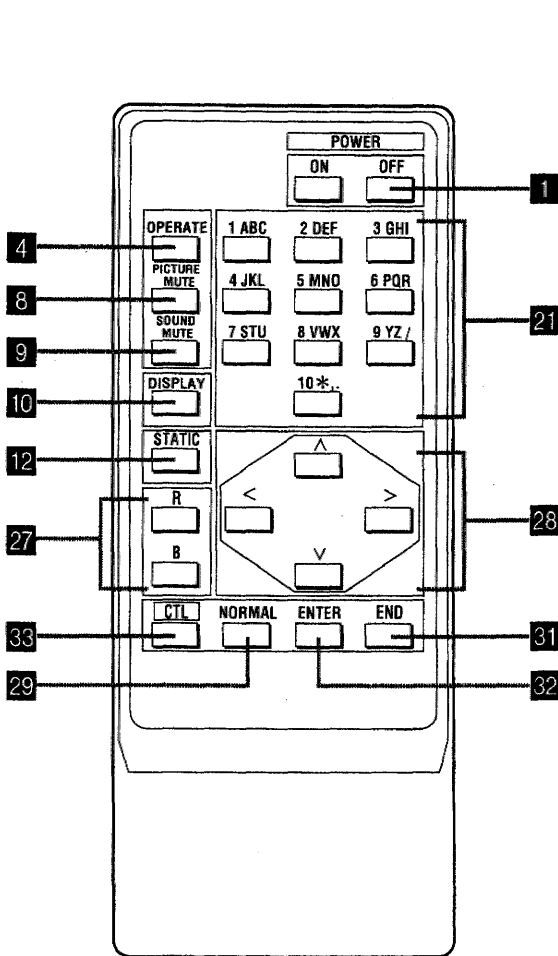
23 POWER Indicator

Lights up when the projector is turned on.

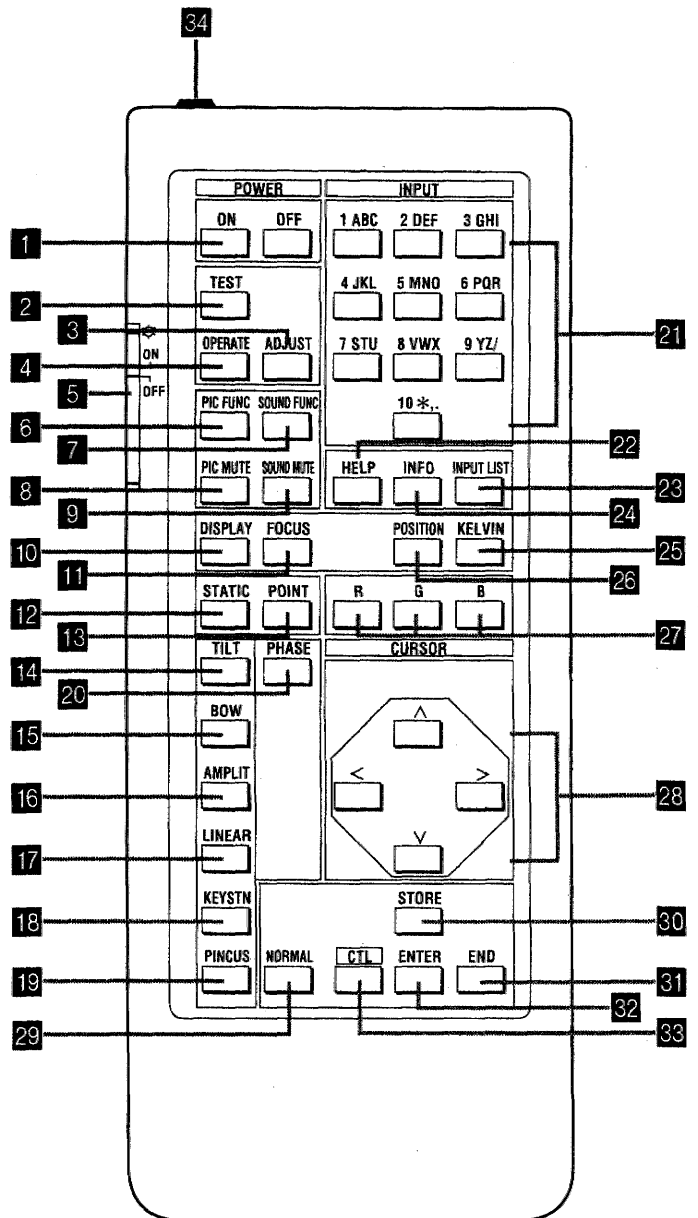
24 Remote Sensor

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

Remote control unit



User Remote Control
RC-6020



Full Function Remote Control
RC-6051

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

PART NAMES AND FUNCTIONS

1 POWER Buttons (ON/OFF)

Press the ON button to turn the projector on when the projector is in the standby condition (STANDBY indicator 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 another button operation is not made within 30 seconds during the Backlight ON, the Backlight is normally turned off to conserve the batteries.

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-6010/ISS-6010G Switcher.

8 PICTURE (PIC) MUTE Button

Press to mute the picture. Press again to display the picture.

9 SOUND MUTE Button

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

NOTE: This works only with the ISS-6010/ISS-6010G Switcher.

10 DISPLAY Button

Press to turn on or off the on-screen display. Pressing with CTL eliminates the on-screen display; pressing with CTL again restores it.

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.

11 FOCUS Button

Press to enter the FOCUS mode.

12 STATIC Button

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

13 POINT Button

(When the point convergence board installed)

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

14 TILT Button

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

15 BOW Button

Press to enter the BOW mode. You can adjust the horizontal and the vertical bow of the projected image.

16 AMPLIT Button

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

17 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.

18 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.

19 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.

20 PHASE Button

Press to enter the PHASE mode. You can adjust the tilt and cursor phase.

21 INPUT Button

Selects menus and switches input signals.

22 HELP Button

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

23 INPUT LIST Button

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

24 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.

25 KELVIN Button

Press to enter the WHITE BALANCE mode. You can adjust the white and the black level.

26 POSITION Button

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

27 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 center focus adjustments. Note that the G button is only on the full function remote control.

28 CURSOR Buttons

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

29 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).

30 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.

31 END Button

Ends the adjustment mode.

32 ENTER Button

Executes menu selection and switches to selected input.

33 CTL Button

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

34 Remote Control Jack

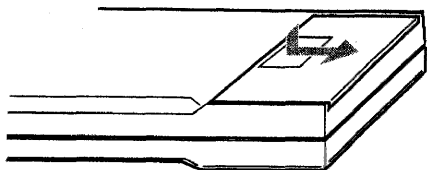
Insert the plug of the supplied remote cable here when the full function remote control is used in the wired condition.

PART NAMES AND FUNCTIONS

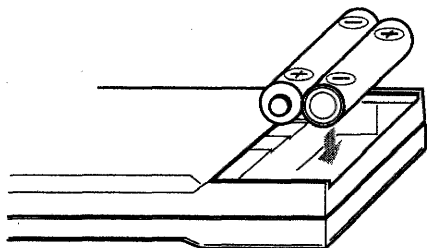
Battery installation and replacement

User remote control (RC-6020)

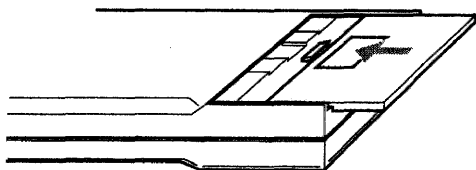
- 1 Press down on the battery compartment cover and slide the cover in the direction of the arrow.



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



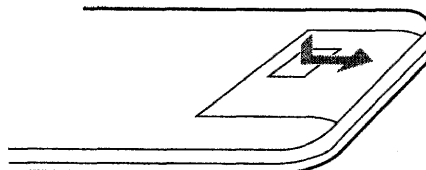
- 3 Close the battery compartment cover.



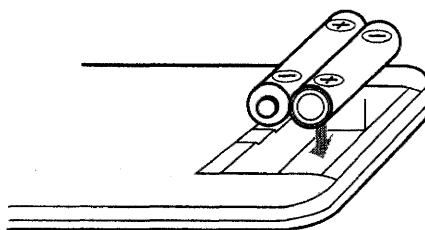
NOTE: The remote control is powered by two alkaline 1.5V AA batteries.

Full function remote control (RC-6051)

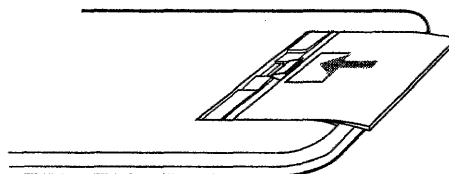
- 1 Press down on the battery compartment cover and slide the cover in the direction of the arrow.



- 2 Install the two new batteries, making sure that their polarity matches the \oplus \ominus 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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Adjustment	3-5-1
Passcode	3-6-1
Setting	3-7-1

BEFORE SET-UP

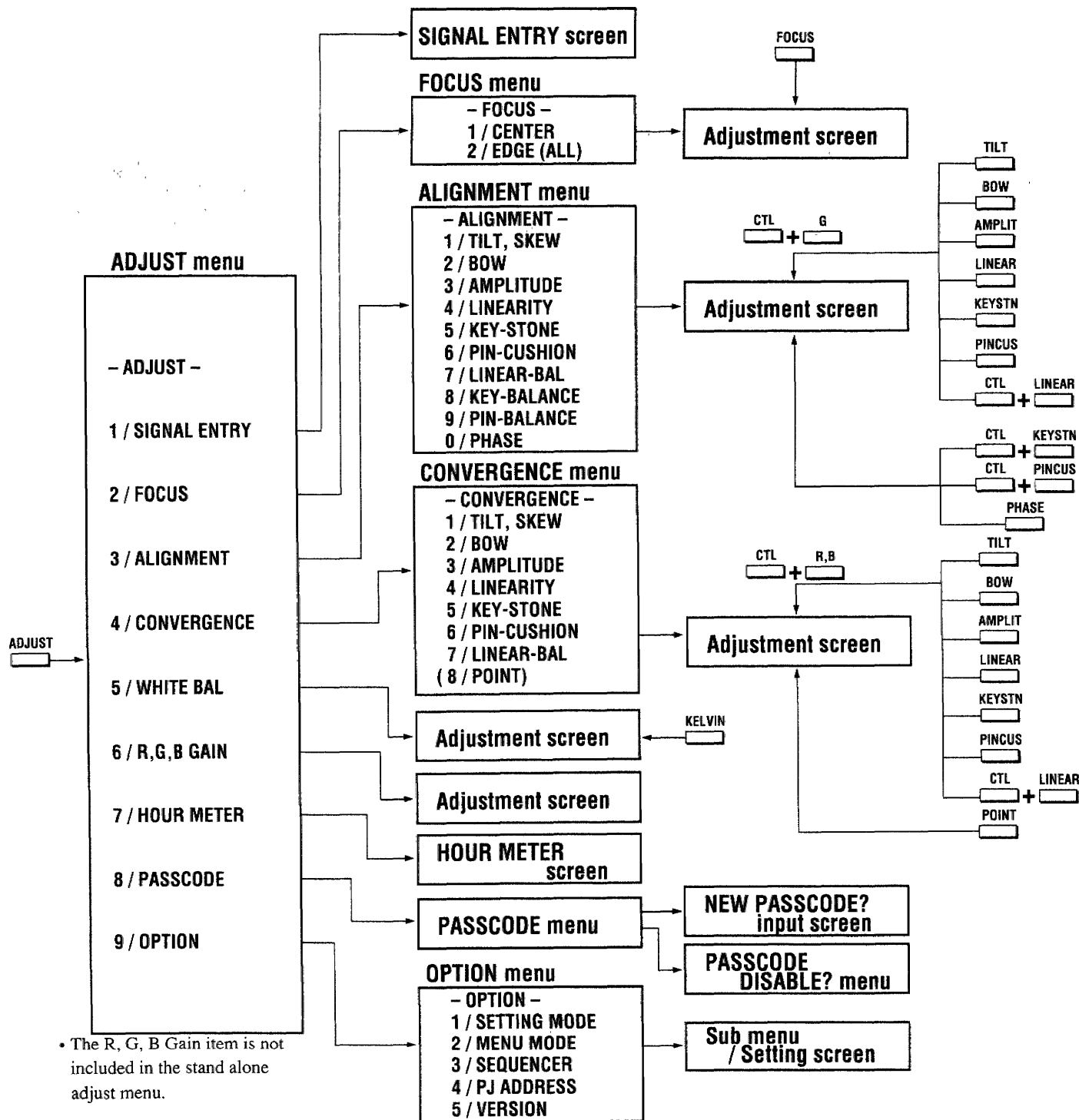
Displaying the Menu and Adjustment Screens

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: The examples here show the screen display when the projector is used with the NEC ISS-6010/ISS-6010G modular switcher.



• The R, G, B Gain item is not included in the stand alone adjust menu.

• The ADJUST, FOCUS, POINT and KELVIN buttons are on the Full Function remote control only.

Storing Projector Settings (Automatic Save Feature)

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

■ When the Automatic Save Feature mode is set to “ENABLE”, projector settings will be stored in the projector’s memory automatically.

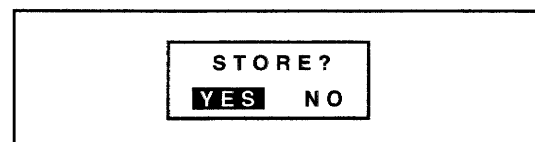
Storing settings are done when any one of the following procedures is performed:

- 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.

■ When the Automatic Save Feature mode is set to “DISABLE”, projector settings can be stored in the projector’s memory manually.

If the current status is not stored due to pressing another button, the “STORE ?” message is displayed. Use the CURSOR ☐ or ☐ button to select either “YES” or “NO” and press the ENTER button.

- If the adjustments have not been changed, the “STORE ?” message is not displayed.
- To exit the mode without storing the current status, select “NO”.



NOTE: The Automatic Save Feature mode has been set to DISABLE by factory. To set to ENABLE, refer to the “Automatic Save Feature” section on page 83.

BEFORE SET-UP

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 52 through 58.

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.

Seven 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.

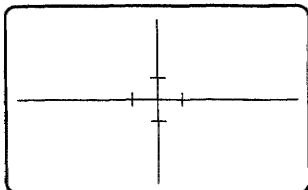
```

- TEST PATTERN -
CROSS-HAIR
CROSS-COARSE
CROSS-FINE
DOT-COARSE
DOT-FINE
FOCUS
WINDOW-WHITE
  
```

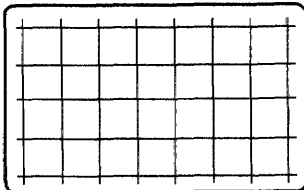
NOTE: If there is no test pattern, the beams have been turned off by the R, G, and B buttons on the remote control.

Adjustment test pattern

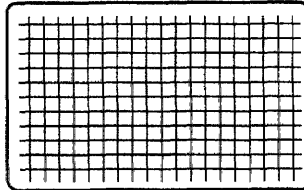
CROSS-HAIR



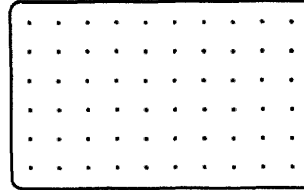
CROSS-COARSE



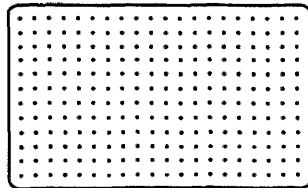
CROSS-FINE



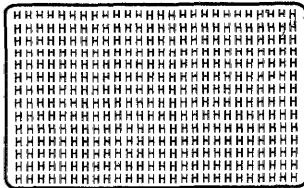
DOT-COARSE



DOT-FINE



FOCUS



WINDOW-WHITE



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 52 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.
- When the projector is used in stand alone operation, the "6/R, G, B GAIN" item is not included in the ADJUST menu.

- 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 / WHITE BAL

6 / R, G, B GAIN

7 / HOUR METER

8 / PASSCODE

9 / OPTION

P01 SIGNAL ENTRY

ISS-6010

SW 2 LEVEL

NO	INPUT	NAME	DATE
0 1	M-01 S-01	VTR - 1	12 / 01 / 92
0 2	M-01 S-02	VTR - 2	12 / 03 / 92
0 3	M-01 S-03	VIDEO-1	12 / 11 / 92
0 4	M-01 S-04	VTR - 3	12 / 24 / 92
0 5	M-01 S-05	RGB-1	12 / 25 / 92
0 6			
0 7			
0 8			
0 9			
1 0			

- 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.

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 menu will be displayed.

When using the projector in stand alone application:

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

- The "NAME INPUT" screen will be displayed.

Items to select

- VIDEO Selects 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

- Go on to Step 2).

When using with a single Switcher ISS-6010/ISS-6010G:

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.
- The "NAME INPUT" screen will be displayed when you finish entering the slot number.
- Go on to Step 2).

```
SIGNAL ENTRY
NEW ENTRY
ENTRY COPY
ENTRY MOVE
ENTRY DELETE
DATA COPY
CHANGE DEFAULT
```

```
SIGNAL ENTRY
NEW ENTRY
ENTRY COPY
ENTRY MOVE
```



```
SIGNAL ENTRY
NEW ENTRY
ENTRY COPY
ENTRY MOVE
ENTRY DELETE
DATA COPY
CHANGE DEFAULT
```

```
VIDEO
RGB
S-VIDEO
```

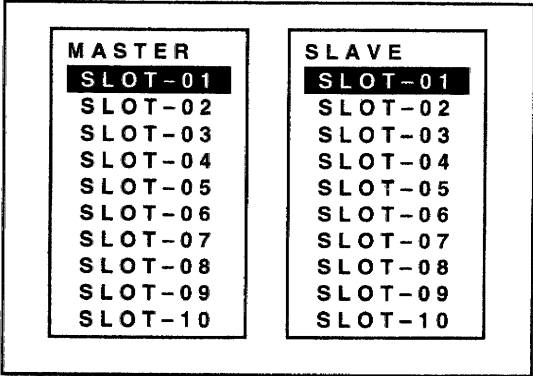
```
MASTER
SLOT-01
SLOT-02
SLOT-03
SLOT-04
SLOT-05
SLOT-06
SLOT-07
SLOT-08
SLOT-09
SLOT-10
```


SIGNAL ENTRY

When using with two or more ISS-6010/ISS-6010G switchers:

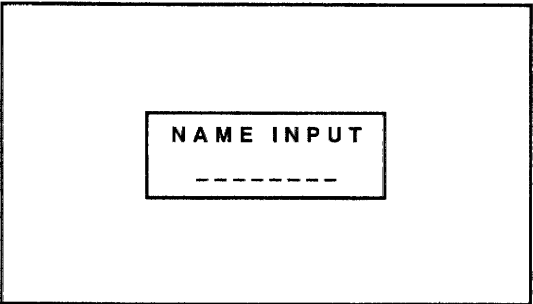
Use the CURSOR  or  button to select the input slot number of the master Switcher and press ENTER. Then select the slot number of the slave Switcher and press ENTER.

- 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.
- The “NAME INPUT” screen will be displayed when you finish entering the slot number.
- Go on to Step 2).



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.

- 3) Use the CURSOR ☐ or ☒ button to select an item and press ENTER.
- 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 "SOURCE INFORMATION" screen will be displayed.
 - Pressing END will return to the "SIGNAL ENTRY" list. Go on to Step ⑤.

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

NOTE: You can check and change various parameters on the "SOURCE INFORMATION" menu. See page 24.

INITIAL DATA SELECT
DEFAULT
TEMPORARY
ENTRY NUMBER

P01 SIGNAL ENTRY

ISS-6010

SW 2 LEVEL

NO	INPUT	NAME	DATE
0 1	M-01 S-01	VTR - 1	12 / 01 / 90
0 2	M-01 S-02	VTR - 2	12 / 03 / 90
0 3	M-01 S-03	VIDEO-1	12 / 11 / 90
0 4	M-01 S-04	VTR - 3	12 / 24 / 90
0 5	M-01 S-05	RGB-1	12 / 25 / 90
0 6	M-01 S-06	VIDEO-2	12 / 30 / 90
0 7	M-01 S-07	VIDEO-3	12 / 31 / 90
0 8	M-01 S-08	NTSC	01 / 15 / 91
0 9	M-01 S-09	PAL	01 / 16 / 91
1 0	M-01 S-10	SECAM	01 / 29 / 91

DATA COPY SELECT SOURCE

SOURCE INFORMATION

M-01 S-01	NAME *****	LOCK OFF
FREQUENCY fh = ***, * KHz fv = **, * Hz	SYNC DETECT AUTO	COMP.
SYNC HD (+) VD (+)	COLOR TEMP 6500 K	AKB OFF
VIDEO MODE NTSC 3.58	COUNTER *****	TIMER ****: **
POSITION WIDE	FONT NORMAL	ASTIG DEFAULT

SIGNAL ENTRY

■ When selecting "ENTRY COPY"

You can copy one of the registered input to the currently 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.

```
SIGNAL ENTRY
NEW ENTRY
ENTRY COPY
ENTRY MOVE
ENTRY DELETE
DATA COPY
CHANGE DEFAULT
```

P01 SIGNAL ENTRY

ISS-6010

SW 2 LEVEL

NO	INPUT	NAME	DATE
0 1	M-01 S-01	VTR - 1	12 / 01 / 90
0 2	M-01 S-02	VTR - 2	12 / 03 / 90
0 3	M-01 S-03	VIDEO-1	12 / 11 / 90
0 4	M-01 S-04	VTR - 3	12 / 24 / 90
0 5	M-01 S-05	RGB-1	12 / 25 / 90
0 6	M-01 S-06	VIDEO-2	12 / 30 / 90
0 7	M-01 S-07	VIDEO-3	12 / 31 / 90
0 8	M-01 S-08	NTSC	01 / 15 / 91
0 9	M-01 S-09	PAL	01 / 16 / 91
1 0	M-01 S-10	SECAM	01 / 29 / 91

ENTRY COPY SELECT SOURCE

```
ENTRY DATA OVERWRITE?
YES NO
```

■ When selecting "ENTRY MOVE"

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

- 1) Use the CURSOR ☐ or ☒ button to select "ENTRY DELETE" and then press ENTER.
 - The "SELECT LINE DELETE?" menu will be displayed.
- 2) Use the CURSOR ☐ or ☒ button to select either "YES" or "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.

```

SIGNAL ENTRY
NEW ENTRY
ENTRY COPY
ENTRY MOVE
ENTRY DELETE
DATA COPY
CHANGE DEFAULT
  
```

P01 SIGNAL ENTRY

ISS-6010

SW 2 LEVEL

NO	INPUT	S	NAME	DATE
0 1	M-01	S-01	VTR - 1	12 / 01 / 90
0 2	M-01	S-02	VTR - 2	12 / 03 / 90
0 3	M-01	S-03	VIDEO-1	12 / 11 / 90
0 4	M-01	S-04	VTR - 3	12 / 24 / 90
0 5	M-01	S-05	RGB-1	12 / 25 / 90
0 6	M-01	S-06	VIDEO-2	12 / 30 / 90
0 7	M-01	S-07	VIDEO-3	12 / 31 / 90
0 8	M-01	S-08	NTSC	01 / 15 / 91
0 9	M-01	S-09	PAL	01 / 16 / 91
1 0	M-01	S-10	SECAM	01 / 29 / 91

ENTRY MOVE SELECT SOURCE

```

ENTRY DATA OVERWRITE?
YES NO
  
```

```

SIGNAL ENTRY
NEW ENTRY
ENTRY COPY
ENTRY MOVE
ENTRY DELETE
DATA COPY
CHANGE DEFAULT
  
```

```









SELECT LINE DELETE?
YES NO
  
```

SIGNAL ENTRY

■ 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 "INCLUDE PHASE DATA?" menu will be displayed.
- 4) Use the CURSOR  or  button to select either "NO" or "YES" and press ENTER.
 - Select "NO" in normal operation.

Items to select

- NO Copies the data which does not include the phase data.
- YES Copies the data which includes the phase data.

- 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".

To do this, proceed as follows:

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

SIGNAL ENTRY
NEW ENTRY
ENTRY COPY
ENTRY MOVE
ENTRY DELETE
DATA COPY
CHANGE DEFAULT

P01 SIGNAL ENTRY

ISS-6010

SW 2 LEVEL

NO	INPUT		NAME	DATE
0 1	M-01	S-01	VTR - 1	12 / 01 / 90
0 2	M-01	S-02	VTR - 2	12 / 03 / 90
0 3	M-01	S-03	VIDEO-1	12 / 11 / 90
0 4	M-01	S-04	VTR - 3	12 / 24 / 90
0 5	M-01	S-05	RGB-1	12 / 25 / 90
0 6	M-01	S-06	VIDEO-2	12 / 30 / 90
0 7	M-01	S-07	VIDEO-3	12 / 31 / 90
0 8	M-01	S-08	NTSC	01 / 15 / 91
0 9	M-01	S-09	PAL	01 / 16 / 91
1 0	M-01	S-10	SECAM	01 / 29 / 91

DATA COPY SELECT SOURCE

INCLUDE PHASE DATA?
NO
YES

SIGNAL ENTRY
NEW ENTRY
ENTRY COPY
ENTRY MOVE
ENTRY DELETE
DATA COPY
CHANGE DEFAULT

- 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.
- CANCEL ... All cancelled information will be stored in the DEFAULT AREA.

STORE TO DEFAULT AREA?
YES NO CANCEL

- 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.

- 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.

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.

SIGNAL ENTRY

Checking and Setting Various Parameters

Parameters of the signal currently projected can be displayed. 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 52 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, LOCK ON/OFF, SYNC DETECT, COLOR TEMP, AKB ON/OFF, COUNTER, TIMER, POSITION, FONT, and ASTIG. See the following pages for an explanation of each setting.

```
- ADJUST -  
1 / SIGNAL ENTRY  
2 / FOCUS  
3 / ALIGNMENT  
4 / CONVERGENCE  
5 / WHITE BAL  
6 / R,G,B GAIN  
7 / HOUR METER  
8 / PASSCODE  
9 / OPTION
```

SOURCE INFORMATION

M-01 S-01	NAME	LOCK
	*****	OFF
FREQUENCY		
fh = ***.* KHz	SYNC DETECT	
fv = **.* Hz	AUTO	COMP.
SYNC	COLOR TEMP	AKB
HD (+) VD (+)	6500 K	OFF
VIDEO MODE	COUNTER	TIMER
NTSC 3.58	*****	*****
POSITION	FONT	ASTIG
WIDE	NORMAL	DEFAULT

■ 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.

SOURCE INFORMATION		
M-01 S-01	NAME *****	LOCK OFF
FREQUENCY fh = ***, * KHz fv = **, * Hz	SYNC DETECT AUTO	COMP.
SYNC HD (+) VD (+)	COLOR TEMP 6500 K	AKB OFF
VIDEO MODE NTSC 3.58	COUNTER *****	TIMER ****: **
POSITION WIDE	FONT NORMAL	ASTIG DEFAULT

- 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 18 for more details.
- The screen will return to the "SOURCE INFORMATION" screen.

NAME INPUT

■ Setting "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 "LOCK" and press ENTER.

- The "LOCK CONTROL" menu will be displayed.

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

- The screen will return to the "SOURCE INFORMATION" screen.
- Select "OFF" in normal operation.

SOURCE INFORMATION		
M-01 S-01	NAME *****	LOCK OFF
FREQUENCY fh = ***, * KHz fv = **, * Hz	SYNC DETECT AUTO	COMP.
SYNC HD (+) VD (+)	COLOR TEMP 6500 K	AKB OFF
VIDEO MODE NTSC 3.58	COUNTER *****	TIMER ****: **
POSITION WIDE	FONT NORMAL	ASTIG DEFAULT

LOCK CONTROL

ON
OFF

Items to select

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

SIGNAL ENTRY

■ Setting "SYNC DETECT"

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

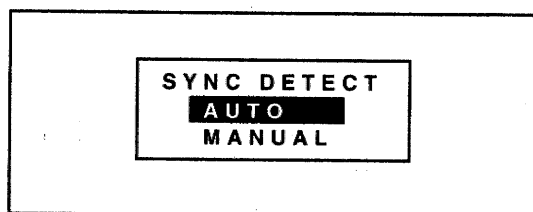
To do this, proceed as follows:

- 1) Use the CURSOR buttons to select "SYNC DETECT" and then press ENTER.
 - The "SYNC DETECT" menu will be displayed.
- 2) Use the CURSOR ☐ or ☒ button to select either "AUTO" or "MANUAL" 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.
 - Select "MANUAL" when connecting a computer that has a non-standard signal.
 - Selecting "MANUAL" automatically switches to the G-SYNC mode.

On-screen display

- COMP. --- Composite sync signal.
- SEPA. ---- H/V separate sync signal.
- G-SYNC -- Sync on green signal.

SOURCE INFORMATION		
M-01 S-01	NAME *****	LOCK OFF
FREQUENCY fh = ***.* KHz fv = ***.* Hz	SYNC DETECT AUTO	COMP.
SYNC HD (+) VD (+)	COLOR TEMP 6500 K	AKB OFF
VIDEO MODE NTSC 3.58	COUNTER *****	TIMER ****: **
POSITION WIDE	FONT NORMAL	ASTIG DEFAULT



■ Setting "COLOR TEMP"

This function is used to select the color temperature of the projected image.

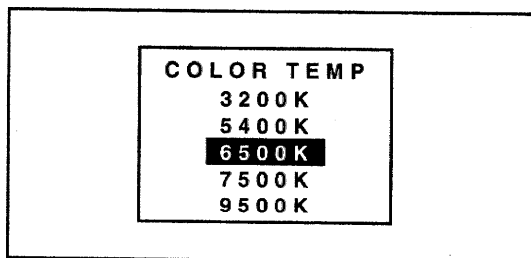
To do this, proceed as follows:

- 1) Use the CURSOR buttons to select "COLOR TEMP" and then press ENTER.
 - The "COLOR TEMP" menu will be displayed.
- 2) Use the CURSOR ☐ or ☒ button to select the color temperature you wish to use and then press ENTER.
 - The screen will return to the "SOURCE INFORMATION" screen.

Items to select

- 3200 K Photo color
- 5400K, 6500 K Video application
- 7500K, 9500 K PC, Graphics application

SOURCE INFORMATION		
M-01 S-01	NAME *****	LOCK OFF
FREQUENCY fh = ***.* KHz fv = ***.* Hz	SYNC DETECT AUTO	COMP.
SYNC HD (+) VD (+)	COLOR TEMP 6500 K	AKB OFF
VIDEO MODE NTSC 3.58	COUNTER *****	TIMER ****: **
POSITION WIDE	FONT NORMAL	ASTIG DEFAULT



■ Setting "AKB"

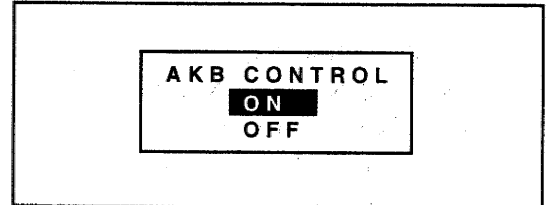
This function is used to activate the auto white balance control.

- 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 "ON" or "OFF" 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.

SOURCE INFORMATION		
M-01 S-01	NAME *****	LOCK OFF
FREQUENCY fh = ***.* KHz fv = *.*.* Hz	SYNC DETECT AUTO	COMP.
SYNC HD (+) VD (+)	COLOR TEMP 6500 K	AKB OFF
VIDEO MODE NTSC 3.58	COUNTER *****	TIMER ****: **
POSITION WIDE	FONT NORMAL	ASTIG DEFAULT

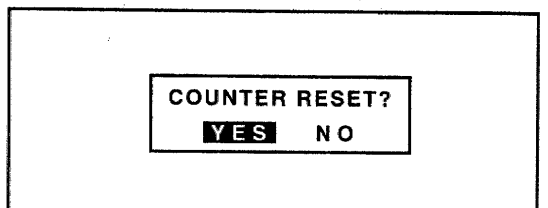


■ Setting "COUNTER"

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.

SOURCE INFORMATION		
M-01 S-01	NAME *****	LOCK OFF
FREQUENCY fh = ***.* KHz fv = *.*.* Hz	SYNC DETECT AUTO	COMP.
SYNC HD (+) VD (+)	COLOR TEMP 6500 K	AKB OFF
VIDEO MODE NTSC 3.58	COUNTER *****	TIMER ****: **
POSITION WIDE	FONT NORMAL	ASTIG DEFAULT



SIGNAL ENTRY

■ Setting "TIMER"

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

- 1) Use the CURSOR buttons to select "TIMER" and then press ENTER.
 - The "TIMER RESET?" screen will be displayed.

SOURCE INFORMATION		
M-01 S-01	NAME *****	LOCK OFF
FREQUENCY fh = ***.* KHz fv = *.*.* Hz	SYNC DETECT AUTO	COMP.
SYNC HD (+) VD (+)	COLOR TEMP 6500 K	AKB OFF
VIDEO MODE NTSC 3.58	COUNTER *****	TIMER *****
POSITION WIDE	FONT NORMAL	ASTIG DEFAULT

- 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.

TIMER RESET?
☐ YES ☐ NO

■ 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.

SOURCE INFORMATION		
M-01 S-01	NAME *****	LOCK OFF
FREQUENCY fh = ***.* KHz fv = *.*.* Hz	SYNC DETECT AUTO	COMP.
SYNC HD (+) VD (+)	COLOR TEMP 6500 K	AKB OFF
VIDEO MODE NTSC 3.58	COUNTER *****	TIMER *****
POSITION WIDE	FONT NORMAL	ASTIG DEFAULT

POSITION
☒ WIDE ☐ NARROW

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.

SOURCE INFORMATION		
M-01 S-01	NAME *****	LOCK OFF
FREQUENCY fh = ***,* Khz fv = **,.* Hz	SYNC DETECT AUTO	COMP.
SYNC HD (+) VD (+)	COLOR TEMP 6500 K	AKB OFF
VIDEO MODE NTSC 3.58	COUNTER *****	TIMER ****: **
POSITION WIDE	FONT NORMAL	ASTIG DEFAULT

FONT SIZE
NORMAL
SMALL

SIGNAL ENTRY

■ Setting “ASTIG”

This function is used to set memory space that is used for ASTIG data storage.

NOTE: Use the USER memory area (USER-1 through 5) when adjusting ASTIG. Set to DEFAULT normally.

- 1) Use the CURSOR buttons to select “ASTIG” and then press ENTER.
 - The ASTIG memory area menu is displayed.

SOURCE INFORMATION		
M-01 S-01	NAME *****	LOCK OFF
FREQUENCY	*****	
fh = ***.* KHz	SYNC DETECT	
fv = **.* Hz	AUTO	COMP.
SYNC	COLOR TEMP	AKB
HD (+) VD (+)	6500 K	OFF
VIDEO MODE	COUNTER	TIMER
NTSC 3.58	*****	****: **
POSITION	FONT	ASTIG
WIDE	NORMAL	DEFAULT

- 2) Use the CURSOR ☐ or ☐ button to select any one of the ASTIG memory areas and then press ENTER.

ASTIG
DEFAULT
USER-1
USER-2
USER-3
USER-4
USER-5

- ④ 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.

RETURN USER MODE?
YES NO

Items to select

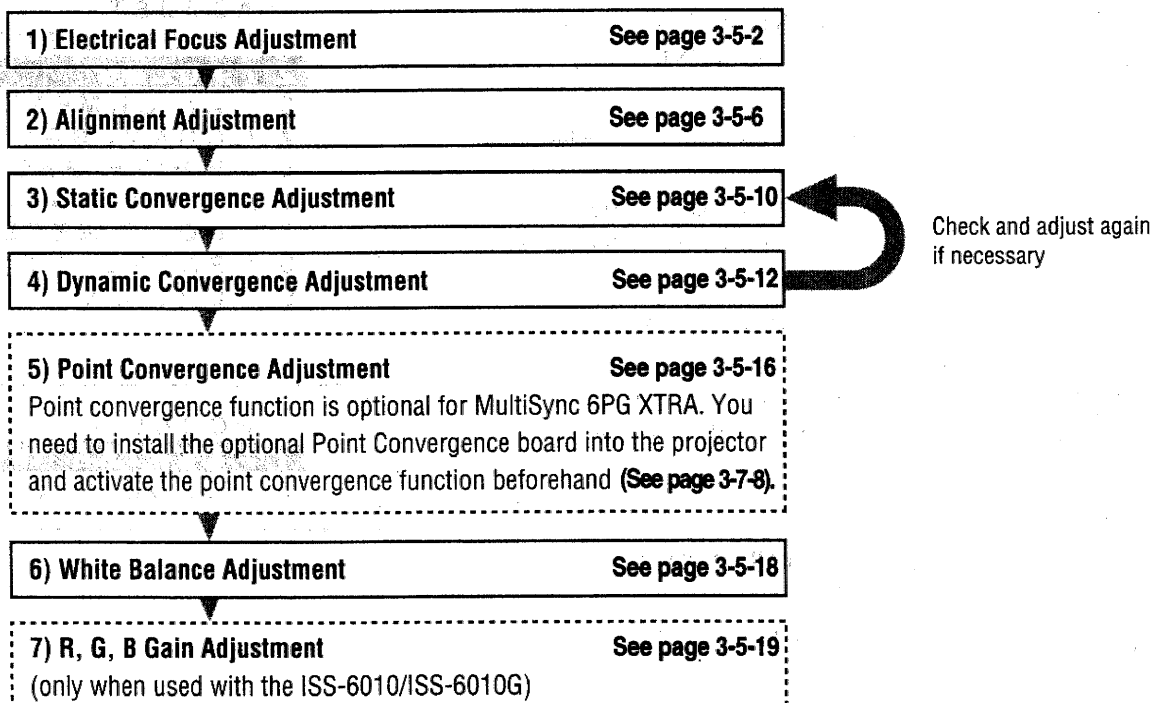
- YES When you try to enter the ADJUST mode the next time, you will need to re-enter your passcode.
- NO When you try to enter the ADJUST mode the next time, you will not need to re-enter your passcode.

Set-Up Procedure

Before adjusting

- ① Installation of the projector.
 - This projector is pre-adjusted at the factory for 100 inch screen front projection at 11 degrees and ceiling mounting. If your application is the same as the factory setting, you will not have to reconfigure the projector for your application. However, if you want to do some fine or further adjustments, carry out the following adjustments.
- 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.
 - 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 16.

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



*If a button operation is not made correctly, an error message will appear.

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

ADJUSTMENT





Electrical Focus Adjustment

Adjust the center focus and edge focus electrically to obtain the best screen focus.

NOTE:

- The CENTER focus adjustment should be performed for each CRT separately.
- 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 52 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.
 - "6/R, G, B GAIN" is not included in stand alone adjust menu.
- 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" or "2" button.
 - For edge focus, you can select either "EDGE ALL" or "EDGE SEPA." in the FOCUS EDGE mode of the OPTION menu.
(See page 89).

Items to select

- CENTER The focus adjustment for the center of the screen
- 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)

NOTE:

- The adjustment screen can also be displayed by pressing the FOCUS button on the full function remote control. The FOCUS button will toggle between the CENTER and EDGE ALL/SEPA. focus.
- The FOCUS CENTER adjustment screen can also be switched directly to the FOCUS EDGE (ALL/SEPA.) adjustment screen with CTL and CURSOR buttons and vice versa.

- ADJUST -
1 / SIGNAL ENTRY
2 / FOCUS
3 / ALIGNMENT
4 / CONVERGENCE
5 / WHITE BAL
6 / R, G, B GAIN
7 / HOUR METER
8 / PASSCODE
9 / OPTION

- FOCUS -
1 / CENTER
2 / EDGE ALL

- 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 and EDGE SEPA. 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" or "EDGE SEPA." 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 FOCUS EDGE mode:

press and hold CTL, then press CURSOR .





■ When selecting "EDGE ALL"/"EDGE SEPA."

- 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 +  U (Up) CTL +  R (Right)

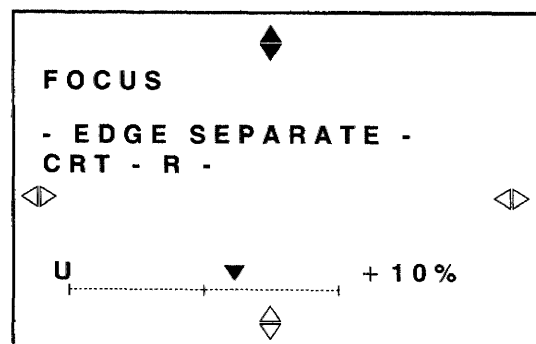
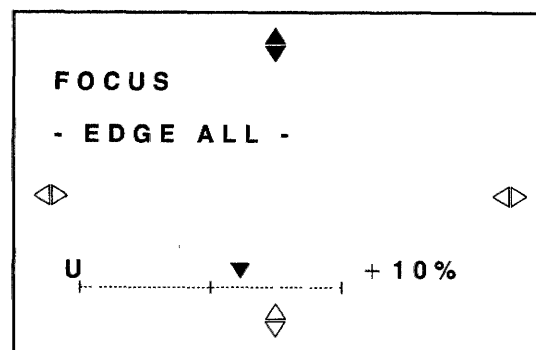
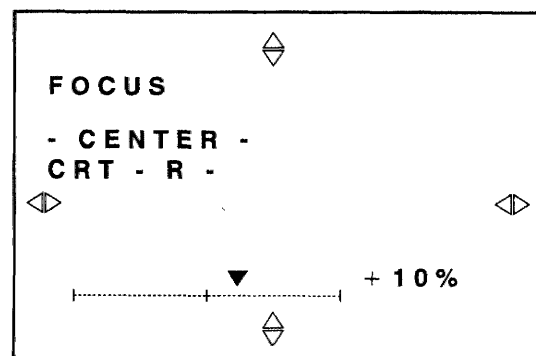
CTL +  D (Down) CTL +  L (Left)

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.)

To switch to the FOCUS CENTER mode:

press and hold CTL, then press CURSOR . You need to press them twice to change to the EDGE DOWN adjustment.

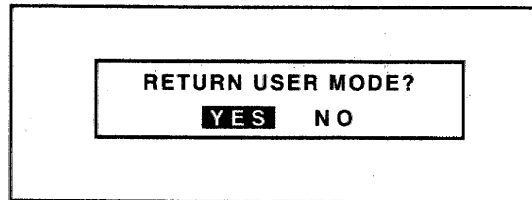


ADJUSTMENT

- 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.

■ ASTIG Adjustment

When ASTIG ADJUSTMENT in the OPTION menu is set to ON, the focus menu is displayed.

Holding down CTL and then pressing FOCUS toggle between the ASTIG CROSS and the ASTIG CORNER mode

To adjust ASTIG CROSS/CORNER:

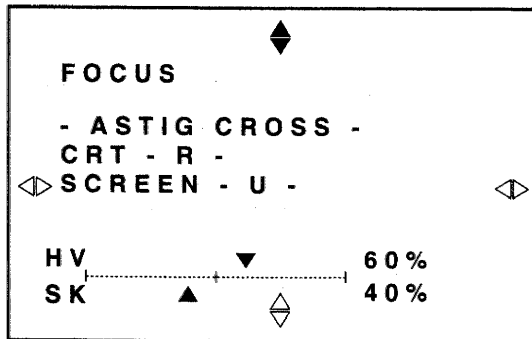
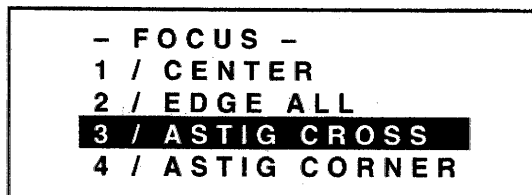
- 1) Hold down CTL, then press FOCUS to select either ASTIG CROSS or ASTIG CORNER.

First perform the ASTIG CROSS adjustment and then the ASTIG CORNER adjustment.

- The test pattern automatically changes to the DOT COARSE pattern.

- 2) Select the CRT you wish to adjust with R or G button.
 - The blue CRT is not adjusted.

- 3) Press the R or G button to project the only CRT beam to be adjusted.
 - You can turn on or off each CRT beam (R, G, and B)



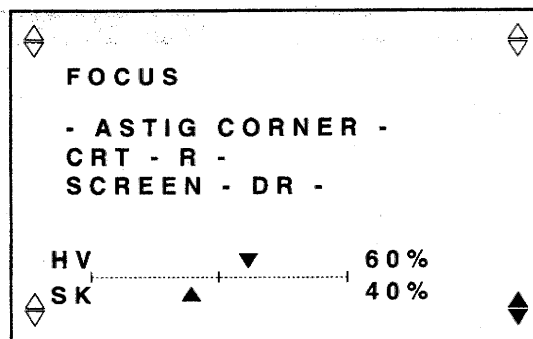
- 4) Press and hold the CTL button then press any one of the CURSOR buttons to select the position to be adjusted. (The marker on the selected side will turn a solid color.)

CTL + ☐ U (Up)

CTL + ☐ D (Down)

CTL + ☐ R (Right)

CTL + ☐ L (Left)



- 5) Use the CURSOR buttons to adjust

☐ ☐ Corrects spindle-shape dot horizontally and vertically

☐ ☐ Corrects spindle-shape dot diagonally

Adjust the dots on the selected side to the same shape as the center dots.

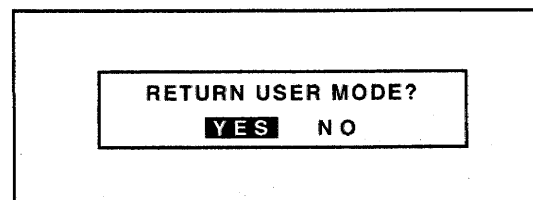
- 6) Repeat steps 2) for the other CRTs.

- 7) 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.







ADJUSTMENT

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 52 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.
 - "6/R, G, B GAIN" is not included in stand alone adjust menu.
- 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 38 and 39 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
- PHASE Adjusts the tilt and the cursor phase

NOTE: You can also select adjustments directly using buttons on the full function remote control. If you are in the CONVERGENCE mode (see page 42), 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" alignment, press and hold down the CTL button then press the LINEAR, KEYSTN, or PINCUS button respectively.

```
- ADJUST -  
1 / SIGNAL ENTRY  
2 / FOCUS  
3 / ALIGNMENT  
4 / CONVERGENCE  
5 / WHITE BAL  
6 / R,G,B GAIN  
7 / HOUR METER  
8 / PASSCODE  
9 / OPTION
```

```
- ALIGNMENT -  
1 / TILT,SKEW  
2 / BOW  
3 / AMPLITUDE  
4 / LINEARITY  
5 / KEY-STONE  
6 / PIN-CUSHION  
7 / LINEAR-BAL  
8 / KEY-BALANCE  
9 / PIN-BALANCE  
0 / PHASE
```

ALIGNMENT

- TILT,SKEW -





H ▼ + 10 %
V ▲ + - 90 %

ALIGNMENT

- TILT,SKEW -





H ▼ + 10 %
V **ABNORMAL CORRECTION DATA**

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.

- 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 42), 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.

For "PHASE" adjustment, follow the instructions below.

■ PHASE Adjustment

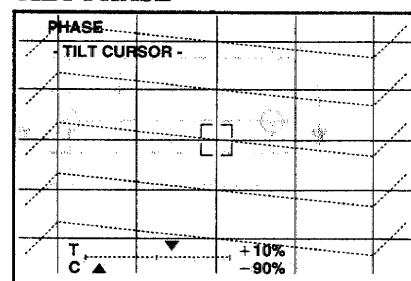
- 1) Use the CURSOR  or  button to adjust the tilt phase (for horizontal line).
Adjust the pattern so the sharp turns at the left and right edges in the diagonal lines are equal.
- 2) Use the CURSOR  or  button to adjust the cursor phase (for vertical line).
Align the vertical center line of the point cursor with the screen center.

(When the point Convergence Board is installed:)

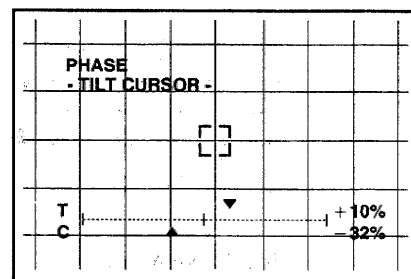
- 3) Align the point peak with the screen center using CTL and CURSOR buttons.

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.

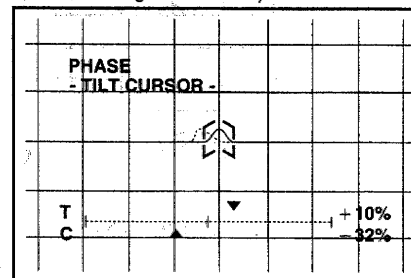
TILT PHASE





CURSOR PHASE



POINT PHASE (When installing the Point Convergence board.)



- 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.

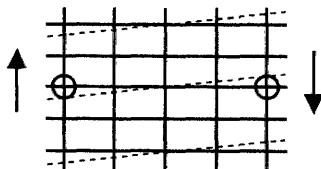
RETURN USER MODE?
YES NO

ADJUSTMENT

Alignment Adjustment Items

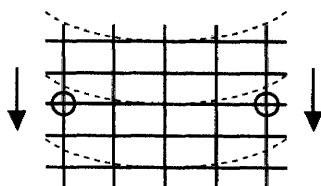
TILT

Adjust horizontal center line.



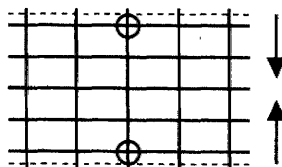
Vertical BOW

Adjust horizontal center line bow.



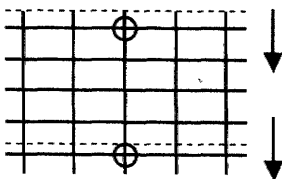
Vertical AMPLITUDE

Adjust vertical height of image.



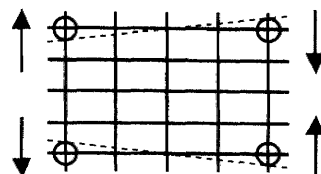
Vertical LINEARITY

Adjust top and bottom linearity.(Test pattern)



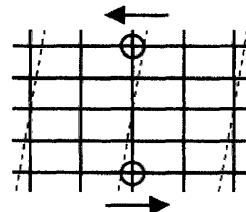
Vertical KEYSTONE

Adjust top and bottom keystone error.



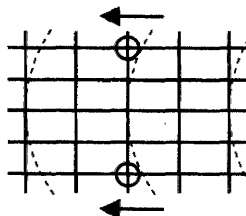
SKEW

Adjust vertical center line.



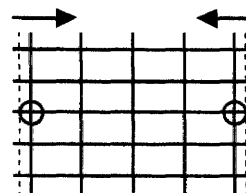
Horizontal BOW

Adjust vertical center line bow.



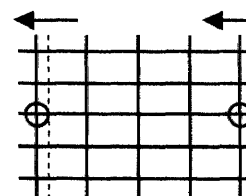
Horizontal AMPLITUDE

Adjust horizontal size of image.



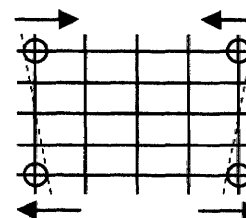
Horizontal LINEARITY

Adjust left and right linearity.(Test pattern)



Horizontal KEYSTONE

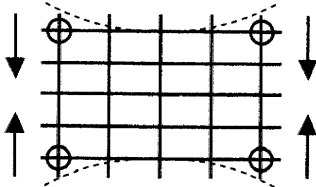
Adjust left and right keystone error.



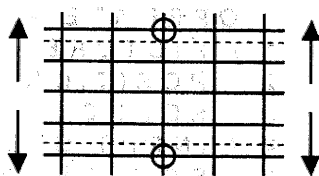
Alignment Adjustment Items

Vertical PINCUSHION

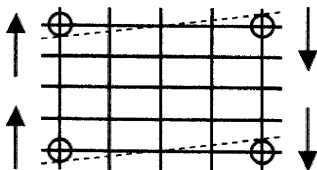
Equalize top and bottom pincushion error.

**Vertical LINEAR-BALANCE**

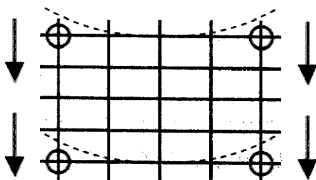
Equalize top and bottom linearity balance error.

**Vertical KEY-BALANCE**

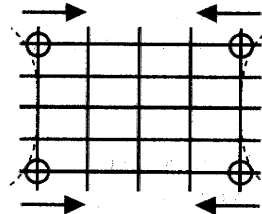
Equalize top and bottom keystone balance error.

**Vertical PIN-BALANCE**

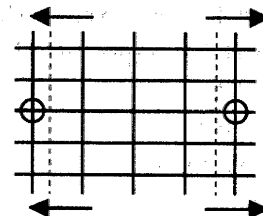
Equalize top and bottom pincushion balance error.

**Horizontal PINCUSHION**

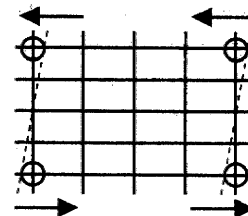
Equalize left and right pincushion error.

**Horizontal LINEAR-BALANCE**

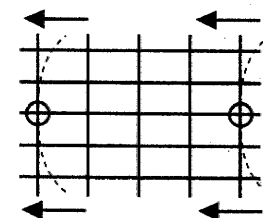
Equalize left and right linearity balance error.

**Horizontal KEY-BALANCE**

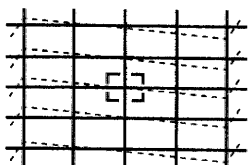
Equalize left and right keystone balance error.

**Horizontal PIN-BALANCE**

Equalize left and right pincushion balance error.

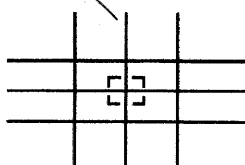
**TILT PHASE**

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

**CURSOR PHASE**

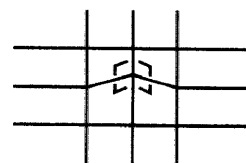
Align the vertical center line of the point cursor with the screen center.

<Screen center>

**POINT PHASE**

When the Point Convergence board is installed;

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





ADJUSTMENT

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.
 - When the projector is used in stand alone operation, the fifth item is "STATIC".
 - 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.





```
- OPERATE -  
1 / PICTURE  
2 / POSITION  
3 / SOUND  
4 / INPUT SELECT  
5 / SOURCE INFO  
6 / STATIC
```

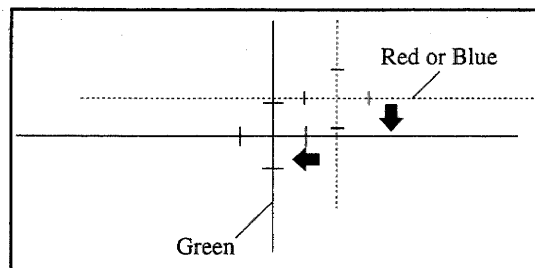
CONVERGENCE

- STATIC -

CRT - R -

H ▼ + 10 %
V ▲ - 10 %

- 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

ADJUSTMENT



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 52 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.
 - "6/R, G, B GAIN" is not included in stand alone adjust menu.

```
- ADJUST -  
1 / SIGNAL ENTRY  
2 / FOCUS  
3 / ALIGNMENT  
4 / CONVERGENCE  
5 / WHITE BAL  
6 / R, G, B GAIN  
7 / HOUR METER  
8 / PASSCODE  
9 / OPTION
```

- 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 44 and 45 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 36), 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.

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





- 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.

- 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 36), 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, and LINEAR-BALANCE adjustments.


■ KEYSTONE, PINCUSHION, and LINEAR-BALANCE Adjustments

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

CTL +  U (Up)

CTL +  D (Down)

CTL +  R (Right)

CTL +  L (Left)

- Use the CURSOR buttons to correct the error.



- 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 to display the "STORE?" menu.

- 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

- TILT, SKEW -
CRT - R -

H ▼ + 10 %
V ▲ - 90 %

CONVERGENCE

- TILT, SKEW -
CRT - R -

H ▼ + 10 %
V **ABNORMAL CORRECTION DATA**

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.

CONVERGENCE

- KEY - STONE -
CRT - R -

◀ ▶
U ▼ + 10 %
..... ▲

RETURN USER MODE?

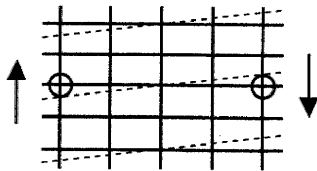
YES NO

ADJUSTMENT

Convergence Adjustment Items

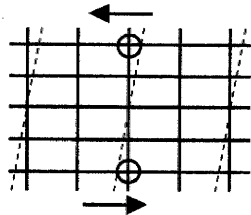
TILT

Adjust horizontal center line.



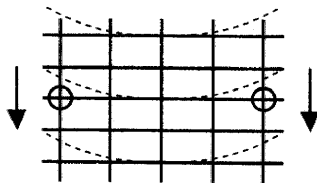
SKEW

Adjust vertical center line.



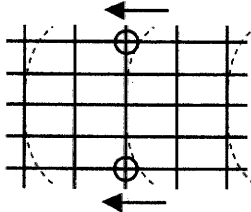
Vertical BOW

Adjust horizontal center line bow.



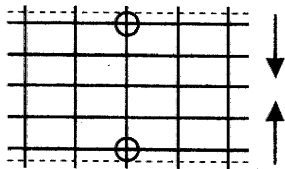
Horizontal BOW

Adjust vertical center line bow.



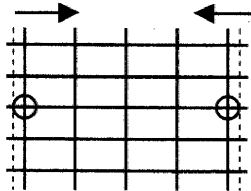
Vertical AMPLITUDE

Adjust top and bottom height.



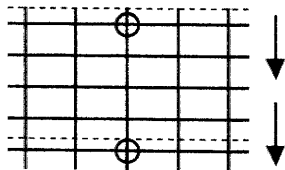
Horizontal AMPLITUDE

Adjust left and right width.



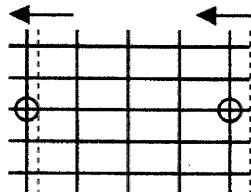
Vertical LINEARITY

Adjust top and bottom linearity.



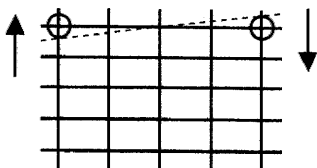
Horizontal LINEARITY

Adjust left and right linearity.

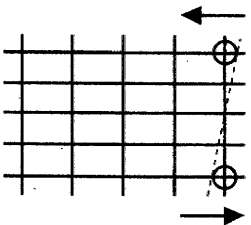


KEYSTONE

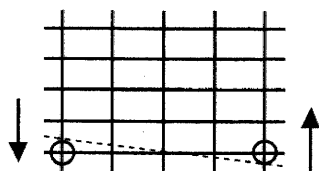
Adjust the selected part.



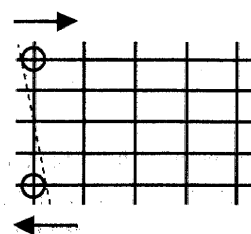
When U(Up) is selected



When R(Right) is selected

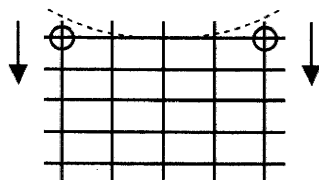


When D(Down) is selected

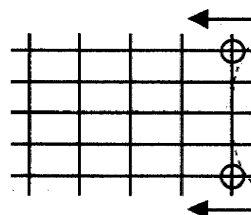


When L(Left) is selected

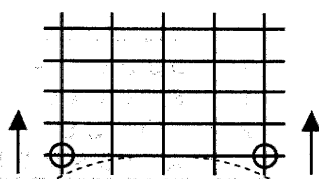
PINCUSHION



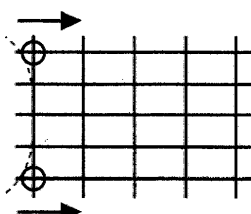
When U(Up) is selected



When R(Right) is selected



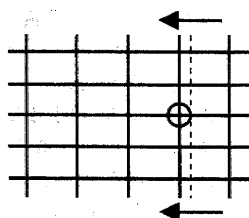
When D(Down) is selected



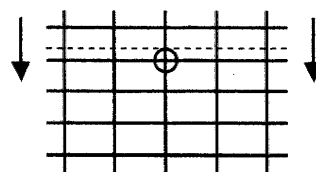
When L(Left) is selected

LINEAR-BALANCE

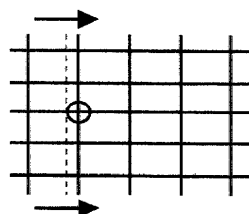
Adjust the selected part.



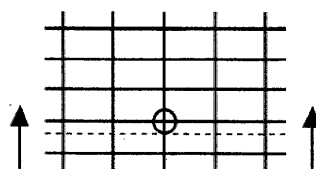
When R(Right) is selected



When U(Up) is selected



When L(Left) is selected



When D(Down) is selected

ADJUSTMENT





Point Convergence Adjustment

After you have aligned all three colors with the static and dynamic adjustments, use the point convergence to touch up any mis-convergence that would be difficult to do by way of dynamic adjustments.

NOTE:

- Since the point convergence function is optional for the MultiSync 6PG XTRA, you need to install the Point Convergence board and set to activate the point convergence for the MultiSync 6PG XTRA. See page 66 for this procedure.
- Point convergence should only be done as a last resort. Use the dynamic geometry controls to correct any large convergence errors. Over adjusting point convergence may degrade the projector's performance.
- Point convergence should only be done for the red and blue test patterns, never the green.

Proceed as follows:

- ① Press the ADJUST button to display the "ADJUST" menu.
 - The projector may ask you to enter your passcode.
See page 52 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.
 - "6/R, G, B GAIN" is not included in stand alone adjust menu.
- ③ Use the CURSOR  or  button to select the "8/POINT" line. Press ENTER. You can also select directly the point convergence by pressing the INPUT "8" button.
 - The CROSS-COARSE test pattern will be automatically displayed and the point adjustment will be displayed.

NOTE: The "POINT" adjustment can be also displayed by pressing the POINT button on the full function remote control.
- ④ Press the R or B button to display the CRT to be aligned with the Green pattern.
 - You can turn on or off each CRT beam (R, G and B) separately.

```
- ADJUST -  
1 / SIGNAL ENTRY  
2 / FOCUS  
3 / ALIGNMENT  
4 / CONVERGENCE  
5 / WHITE BAL  
6 / R,G,B GAIN  
7 / HOUR METER  
8 / PASSCODE  
9 / OPTION
```

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


- 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, G, B). If that color's test pattern is turned off, any adjustment to that color displays the "THIS COLOR IS NOT APPLICABLE" message.

CONVERGENCE

- POINT -
CRT - R - ☐

- ⑥ Use the CURSOR buttons to move the cursor to the point to be adjusted.

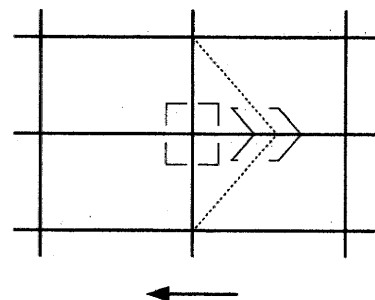
- Pressing the CURSOR ☐ button moves the cursor to the right. Pressing the CURSOR ☐ button moves the cursor to the left. Pressing the CURSOR ☐ button moves the cursor to the top. Pressing the CURSOR ☐ button moves the cursor to the bottom.

- ⑦ Hold down the CTL button then use the CURSOR buttons to align the Red or Blue pattern with the Green pattern.

- ⑧ Repeat steps ④ to ⑦ for the other CRTs if necessary.

- ⑨ To end this adjustment, press END.

- Whenever END 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.



RETURN USER MODE?

YES NO

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.









White Balance Adjustment

Adjusts the white balance.

NOTE:

- When you are in the white balance 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.
- Select the WHITE-WINDOW 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 52 for the explanation of the PASSCODE.
- ② Use the CURSOR  or  button to highlight the "5/WHITE-BAL" line. Press ENTER to switch to the "WHITE BALANCE" adjustment. You can also select the "WHITE BALANCE" adjustment directly by pressing the INPUT "5" button.
 - The "WHITE BALANCE" adjustment can be also displayed by using the KELVIN button on the full function remote control.
 - "6/R, G, B GAIN" is not included in stand alone adjust menu.
- 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 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.
- ⑤ Repeat steps ③ to ④ for the other CRTs if necessary.
- ⑥ 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.

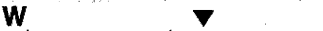

Items to select

- 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.

```
- ADJUST -  
1 / SIGNAL ENTRY  
2 / FOCUS  
3 / ALIGNMENT  
4 / CONVERGENCE  
5 / WHITE BAL  
6 / R,G,B GAIN  
7 / HOUR METER  
8 / PASSCODE  
9 / OPTION
```

WHITE BALANCE

CRT - R -

W  60 %
B  10 %

RETURN USER MODE?

YES NO

R, G, and B Gain Adjustment

Adjusts the input level of the signal.

NOTE: This adjustment works only with the ISS-6010/ISS-6010G 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 52 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 a 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 / WHITE BAL
6 / R, G, B GAIN
7 / HOUR METER
8 / PASSCODE
9 / OPTION
  
```

R, G, B GAIN

CRT - R -

-----▼----- 60 %

RETURN USER MODE?

YES NO

ADJUSTMENT

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 52 for the explanation of the PASSCODE.
- ② Use the CURSOR or button to highlight the "7/HOUR METER" line. Press ENTER to display the "HOUR METER" screen. You can also select the "HOUR METER" screen directly by pressing the INPUT "7" button.
 - The sixth item is "6/HOUR METER" in stand alone adjust menu.

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.
- USER CRT RUNNING TIME
The amount of operating time of CRT. User resettable.

```
- ADJUST -  
1 / SIGNAL ENTRY  
2 / FOCUS  
3 / ALIGNMENT  
4 / CONVERGENCE  
5 / WHITE BAL  
6 / R,G,B GAIN  
7 / HOUR METER  
8 / PASSCODE  
9 / OPTION
```

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.

HOUR METER

PJ RUNNING TIME
****H **M

CRT RUNNING TIME
****H **M

USER PJ RUNNING TIME
****H **M

USER CRT RUNNING TIME
****H **M

- 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

```
USER PJ RUNNING TIME RESET?  
YES NO
```

- The display will be returned to the "HOUR METER" screen.

- ③ 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

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" menu 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:

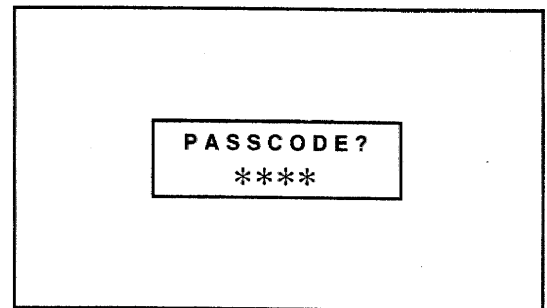
- ① Press the ADJUST button.
 - The "PASSCODE?" screen is displayed.
- ② Enter the four digit passcode you have already registered by using the "1" through "0" buttons.
 - 1) Each time you press the INPUT button, an asterisk appears under the "PASSCODE?" message.
 - 2) After you have finished entering 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 “8/ PASSCODE” line. Press ENTER to display the “PASSCODE” menu. You can also select the “PASSCODE” menu directly by pressing the INPUT “8” button.
 - The seventh item is “7/PASSCODE” in stand alone adjust menu.
- 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.
- 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.

```

- ADJUST -
1 / SIGNAL ENTRY
2 / FOCUS
3 / ALIGNMENT
4 / CONVERGENCE
5 / WHITE BAL
6 / R,G,B GAIN
7 / HOUR METER
8 / PASSCODE
9 / OPTION
  
```

```

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

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.

CONFIRM NEW PASSCODE?

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.

RETURN USER MODE?
YES NO

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 "8/PASSCODE" line. Press ENTER to display the "PASSCODE" menu. You can also select the "PASSCODE" menu directly by pressing the INPUT "8" button.
 - The seventh item is "7/PASSCODE" in stand alone adjust menu.
- 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 / WHITE BAL
6 / R,G,B GAIN
7 / HOUR METER
8 / PASSCODE
9 / OPTION
  
```

```

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

```

CURRENT PASSCODE?
****
  
```

PASSCODE

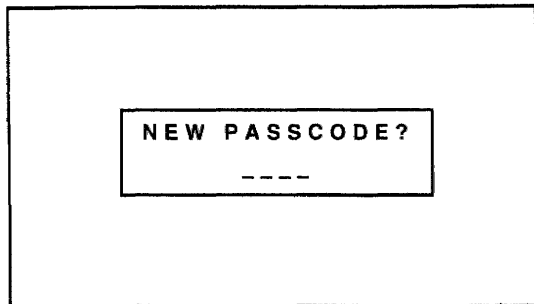
- ⑥ Enter a new passcode using the “1” through “0” buttons.

- 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.



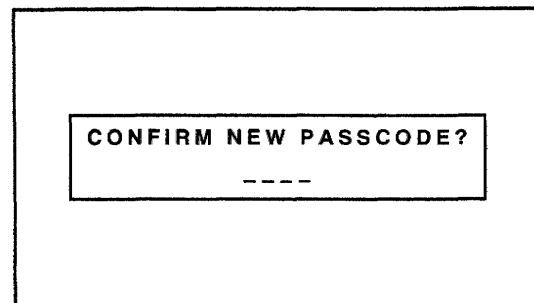
- ⑦ Enter the new passcode again using the “1” through “0” buttons.

- 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.



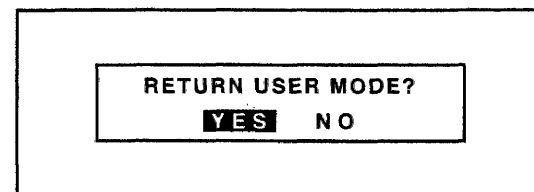
- ⑧ To complete, press the END button.

- 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 "8/PASSCODE". Press the ENTER button to display the "PASSCODE" menu. You can also select the "PASSCODE" menu directly by pressing the INPUT "8" button.
 - The seventh item is "7/PASSCODE" in stand alone adjust menu.
- 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.

```

- ADJUST -
1 / SIGNAL ENTRY
2 / FOCUS
3 / ALIGNMENT
4 / CONVERGENCE
5 / WHITE BAL
6 / R,G,B GAIN
7 / HOUR METER
8 / PASSCODE
9 / OPTION
  
```

```

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

```

CURRENT PASSCODE?
****
  
```

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.

PASSCODE DISABLE?

☒ YES ☐ NO

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.





SETTING VIEW

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

SETTING



Connecting to the Switcher



This setting explains how the projector is used with the ISS-6010/ISS-6010G Switcher.

- ① Press the ADJUST button to display the "ADJUST" menu.
 - The projector may ask you to enter your passcode.
See page 52 for the explanation of the PASSCODE.
- ② Use the CURSOR  or  button to highlight the "9/OPTION" line. Press ENTER to display the "OPTION" menu. You can also select the "OPTION" menu directly by pressing the INPUT "9" button.
 - The eighth item is "8/OPTION" in stand alone adjust menu.
- 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 / WHITE BAL  
6 / R,G,B GAIN  
7 / HOUR METER  
8 / PASSCODE  
9 / OPTION
```

```
- OPTION -  
1 / SETTING MODE  
2 / MENU MODE  
3 / SEQUENCER  
4 / PJ ADDRESS  
5 / VERSION
```

- 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	OPTION	- SETTING MODE -
CONNECT CONDITION		STANDALONE
ASTIG OUTPUT		CEILING FRONT
DEGAUSS		
POINT CONVERGENCE		ENABLE
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.

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.

```
CONNECT CONDITION  
STANDALONE  
SW 1 LEVEL  
SW 2 LEVEL
```

- 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.

<table border="1"><tr><td>RE-START?</td></tr><tr><td>YES NO</td></tr></table>	RE-START?	YES NO
RE-START?		
YES NO		

- 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.

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

ASTIG OUTPUT

This function allows you to reverse the astigmatic polarity. ASTIG output depends on the projector installation. Select the appropriate item according to the installation condition. Changing the ASTIG OUTPUT setting automatically degausses the CRTs.

Proceed as follows:



- ① Press the ADJUST button to display the "ADJUST" menu.
 - The projector may ask you to enter your passcode.
See page 52 for the explanation of the PASSCODE.
- ② Use the CURSOR  or  button to highlight the "9/OPTION" line. Press ENTER to display the "OPTION" menu. You can also select the "OPTION" menu directly by pressing the INPUT "9" button.
 - The eighth item is "8/OPTION" in stand alone adjust menu.
- 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 / WHITE BAL
6 / R,G,B GAIN
7 / HOUR METER
8 / PASSCODE
9 / OPTION
  
```

```

- OPTION -
1 / SETTING MODE
2 / MENU MODE
3 / SEQUENCER
4 / PJ ADDRESS
5 / VERSION
  
```

- ④ Use the CURSOR  or  button to select the "ASTIG OUTPUT" item, then press ENTER to display the "ASTIG OUTPUT MODE" menu.

NOTE: The SETTING MODE has three menus. The "ASTIG OUTPUT" 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	OPTION	- SETTING MODE -
CONNECT CONDITION		STANDALONE
ASTIG OUTPUT		CEILING FRONT
DEGAUSS		
POINT CONVERGENCE		ENABLE
S-VIDEO MODE SELECT		S2
VIDEO MODE SELECT		AUTO

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

Items to select

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

NOTE: Pressing ENTER demagnetizes the CRTs.

- 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.





ASTIG OUTPUT MODE
CEILING/FRONT
CEILING/REAR
FLOOR/FRONT
FLOOR/REAR

RETURN USER MODE?
YES NO

Degaussing



This function lets you demagnetize the CRTs. This must be done immediately after the projector is installed.



To execute, proceed as follows:

- ① Press the ADJUST button to display the "ADJUST" menu.
 - The projector may ask you to enter your passcode.
See page 52 for the explanation of the PASSCODE.
- ② Use the CURSOR  or  button to highlight the "9/OPTION" line. Press ENTER to display the "OPTION" menu. You can also select the "OPTION" menu directly by pressing the INPUT "9" button.
 - The eighth item is "8/OPTION" in stand alone adjust menu.
- 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 / WHITE BAL  
6 / R,G,B GAIN  
7 / HOUR METER  
8 / PASSCODE  
9 / OPTION
```

```
- OPTION -  
1 / SETTING MODE  
2 / MENU MODE  
3 / SEQUENCER  
4 / PJ ADDRESS  
5 / VERSION
```

- ④ Use the CURSOR  or  button to select the "DEGAUSS" item, then press ENTER to display the "DEGAUSS START?" menu.

NOTE: The SETTING MODE has three menus. The "DEGAUSS" 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	OPTION	- SETTING MODE -
	CONNECT CONDITION	STANDALONE
	ASTIG OUTPUT	CEILING FRONT
	DEGAUSS	
	POINT CONVERGENCE	ENABLE
	S-VIDEO MODE SELECT	S2
	VIDEO MODE SELECT	AUTO

- ⑤ Use the CURSOR ☐ or ☐ button to select either "YES" or "NO" and press ENTER.

IMPORTANT: Use this function only once after installing the projector.

Also, when the projector's configuration has changed using the "ASTIG OUTPUT" menu, the CRTs will be demagnetized automatically.

Items to select

- YES Demagnetizes the CRTs.
- NO Does not demagnetizes the CRTs.

DEGAUSS START? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO

- 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.



RETURN USER MODE? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
--

Point Convergence



Activate the point convergence function after installing the point convergence board.

NOTE: You need to install the optional Point Convergence board for the 6PG XTRA. This function should always be enabled for the 9PG XTRA.



To activate the point convergence, proceed as follows:



- ① Press the ADJUST button to display the "ADJUST" menu.
 - The projector may ask you to enter your passcode.
See page 52 for the explanation of the PASSCODE.
- ② Use the CURSOR  or  button to highlight the "9/OPTION" line. Press ENTER to display the "OPTION" menu. You can also select the "OPTION" menu directly by pressing the INPUT "9" button.
 - The eighth item is "8/OPTION" in stand alone adjust menu.

```
- ADJUST -  
1 / SIGNAL ENTRY  
2 / FOCUS  
3 / ALIGNMENT  
4 / CONVERGENCE  
5 / WHITE BAL  
6 / R,G,B GAIN  
7 / HOUR METER  
8 / PASSCODE  
9 / OPTION
```

- 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
```

- ④ Use the CURSOR  or  button to select the "POINT CONVERGENCE" item, then press ENTER to display the "POINT CONVERGENCE" menu.

NOTE: The SETTING MODE has three menus. The "POINT CONVERGENCE" 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.

P01	OPTION	- SETTING MODE -
CONNECT CONDITION		STANDALONE
ASTIG OUTPUT		CEILING FRONT
DEGAUSS		
POINT CONVERGENCE		ENABLE
S-VIDEO MODE SELECT		S2
VIDEO MODE SELECT		AUTO

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

Items to select

- ENABLE ... The point convergence will be activated.
- DISABLE .. The point convergence will be deactivated.

POINT CONVERGENCE
ENABLE
DISABLE

- 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.







RETURN USER MODE?
YES NO



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.

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 52 for the explanation of the PASSCODE.
- ② Use the CURSOR  or  button to highlight the "9/OPTION" line. Press ENTER to display the "OPTION" menu. You can also select the "OPTION" menu directly by pressing the INPUT "9" button.
 - The eighth item is "8/OPTION" in stand alone adjust menu.
- 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 / WHITE BAL
6 / R,G,B GAIN
7 / HOUR METER
8 / PASSCODE
9 / OPTION
  
```

```

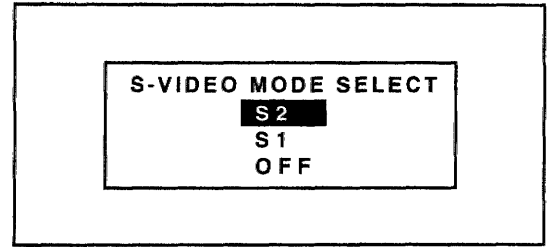
- OPTION -
1 / SETTING MODE
2 / MENU MODE
3 / SEQUENCER
4 / PJ ADDRESS
5 / VERSION
  
```

P01	OPTION	- SETTING MODE -
CONNECT CONDITION		STANDALONE
ASTIG OUTPUT		CEILING FRONT
DEGAUSS		
POINT CONVERGENCE		ENABLE
S-VIDEO MODE SELECT		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.

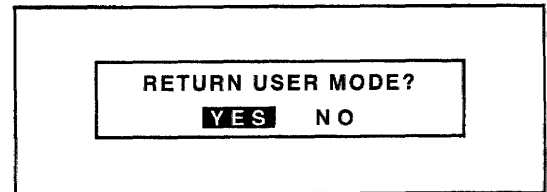


- ⑥ To end, press the END button.

- 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 52 for the explanation of the PASSCODE.
- ② Use the CURSOR  or  button to highlight the “9/OPTION” line. Press ENTER to display the “OPTION” menu. You can also select the “OPTION” menu directly by pressing the INPUT “9” button.
 - The eighth item is “8/OPTION” in stand alone adjust menu.
- 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 /	WHITE BAL
6 /	R,G,B GAIN
7 /	HOUR METER
8 /	PASSCODE
9 /	OPTION

- OPTION -	
1 /	SETTING MODE
2 /	MENU MODE
3 /	SEQUENCER
4 /	PJ ADDRESS
5 /	VERSION

- 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.

P01	OPTION	- SETTING MODE -
	CONNECT CONDITION	STANDALONE
	ASTIG OUTPUT	CEILING FRONT
	DEGAUSS	
	POINT CONVERGENCE	ENABLE
	S-VIDEO MODE SELECT	S2
	VIDEO MODE SELECT	AUTO

- 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”

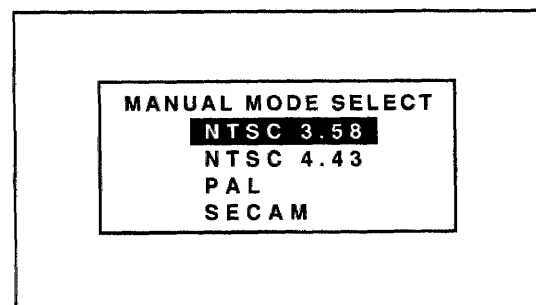
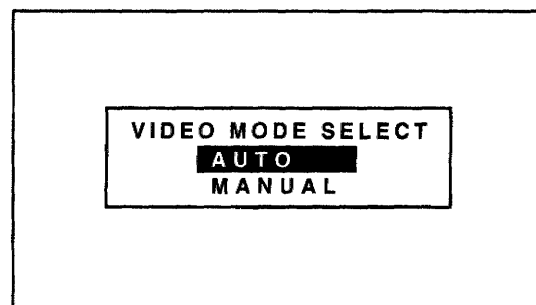
The “MANUAL MODE SELECT” menu will be displayed. Use the CURSOR ☐ or ☒ button to select the preferred video mode and then press ENTER.

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.

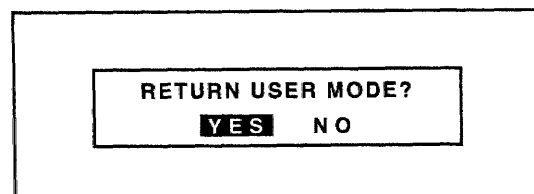
NOTE: The projector may not function correctly with a mono-chrome signals in the AUTO mode.



- 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.





SETTING



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 52 for the explanation of the PASSCODE.
- ② Use the CURSOR  or  button to highlight the "9/OPTION" line. Press ENTER to display the "OPTION" menu. You can also select the "OPTION" menu directly by pressing the INPUT "9" button.
 - The eighth item is "8/OPTION" in stand alone adjust menu.

```
- ADJUST -  
1 / SIGNAL ENTRY  
2 / FOCUS  
3 / ALIGNMENT  
4 / CONVERGENCE  
5 / WHITE BAL  
6 / R,G,B GAIN  
7 / HOUR METER  
8 / PASSCODE  
9 / OPTION
```



- 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
```

- ④ Use the CURSOR  or  button to select the "DEFAULT INPUT SELECT" item on Page 2, then press ENTER to display the "DEFAULT INPUT SELECT" menu.

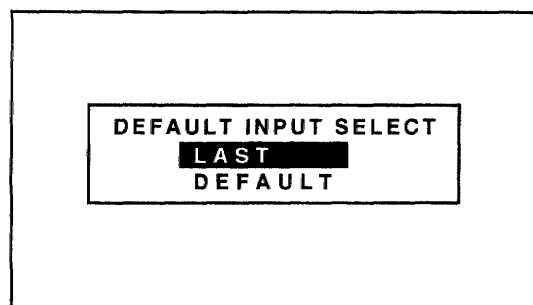
NOTE: The SETTING MODE has three menus. The "DEFAULT INPUT SELECT" item is on the second menu (P02). To access P02 from P01, press and hold down the CTL button then press the  button; to return to P01 from P02, press and hold down the CTL button then press the  button.



P02	OPTION	- SETTING MODE -
	DEFAULT INPUT SELECT	LAST
	AUTO POWER ON MODE	INACTIVE
	WARM-UP MODE	INACTIVE
	PHOSPHOR SAVER	OFF
	SIGNAL SWITCHING	SOUND MUTE ON PICTURE MUTE ON

- 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.

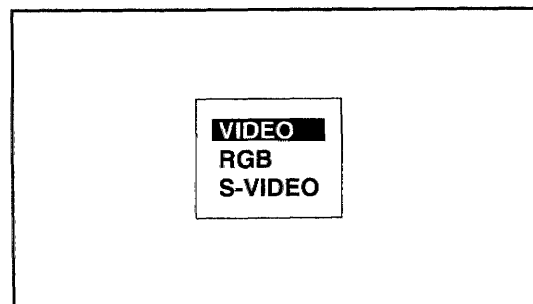


- ⑥ Use the CURSOR  or  button to select an input and then press the ENTER button.

When used in stand alone operation:



The default input screen will be displayed.

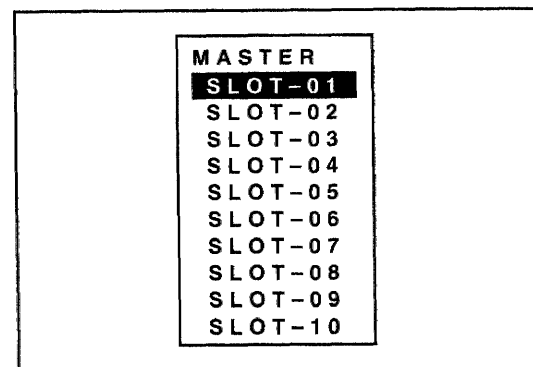
Use the CURSOR  or  button to select “VIDEO”, “RGB”, or “S-VIDEO” and press ENTER.



When used with a single Switcher:



The “MASTER” slot menu will be displayed.

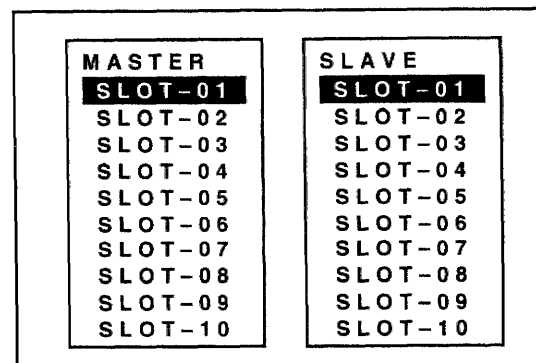
Use the CURSOR  or  button to select the desired slot number “1” through “10(0)” and then press ENTER.



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.



SETTING

- 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.



RETURN USER MODE?

☐ YES ☐ NO

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 52 for the explanation of the PASSCODE.
- ② Use the CURSOR  or  button to highlight the "9/OPTION" line. Press ENTER to display the "OPTION" menu. You can also select the "OPTION" menu directly by pressing the INPUT "9" button.
 - The eighth item is "8/OPTION" in stand alone adjust menu.



```



- ADJUST -
1 / SIGNAL ENTRY
2 / FOCUS
3 / ALIGNMENT
4 / CONVERGENCE
5 / WHITE BAL
6 / R,G,B GAIN
7 / HOUR METER
8 / PASSCODE
9 / OPTION
  
```

- 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
  
```

- 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.

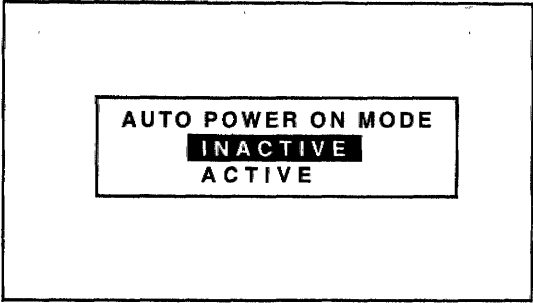
P02	OPTION	- SETTING MODE -
	DEFAULT INPUT SELECT	LAST
	AUTO POWER ON MODE	INACTIVE
	WARM-UP MODE	INACTIVE
	PHOSPHOR SAVER	OFF
	SIGNAL SWITCHING	SOUND MUTE ON PICTURE MUTE ON



SETTING

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

Items to select

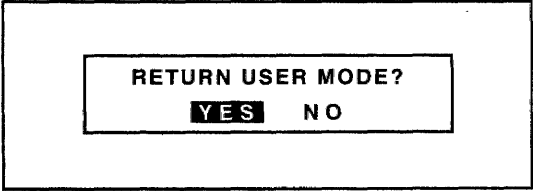
- INACTIVE . Normal operation setting. Power ON is accomplished through the rear panel or the POWER button on the remote control.
- ACTIVE Bypasses rear panel power button (or the POWER button on the remote control) to allow power ON to be controlled by an AC switched outlet.



- 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.



Warm-up Mode Setting



This function allows you to automatically warm up the projector for about 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 52 for the explanation of the PASSCODE.
- ② Use the CURSOR  or  button to highlight the "9/OPTION" line. Press ENTER to display the "OPTION" menu. You can also select the "OPTION" menu directly by pressing the INPUT "9" button.
 - The eighth item is "8/OPTION" in stand alone adjust menu.



```



- ADJUST -
1 / SIGNAL ENTRY
2 / FOCUS
3 / ALIGNMENT
4 / CONVERGENCE
5 / WHITE BAL
6 / R,G,B GAIN
7 / HOUR METER
8 / PASSCODE
9 / OPTION
  
```

- 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
  
```

- 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	OPTION	- SETTING MODE -
	DEFAULT INPUT SELECT	LAST
	AUTO POWER ON MODE	INACTIVE
	WARM-UP MODE	INACTIVE
	PHOSPHOR SAVER	OFF
	SIGNAL SWITCHING	SOUND MUTE ON PICTURE MUTE ON

SETTING

- 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. The projector starts counting down from 15 minutes to 0.

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.

WARM-UP MODE
INACTIVE
ACTIVE

RETURN USER MODE?
YES NO



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 52 for the explanation of the PASSCODE.
- ② Use the CURSOR  or  button to highlight the "9/OPTION" line. Press ENTER to display the "OPTION" menu. You can also select the "OPTION" menu directly by pressing the INPUT "9" button.
 - The eighth item is "8/OPTION" in stand alone adjust menu.



```



- ADJUST -
1 / SIGNAL ENTRY
2 / FOCUS
3 / ALIGNMENT
4 / CONVERGENCE
5 / WHITE BAL
6 / R,G,B GAIN
7 / HOUR METER
8 / PASSCODE
9 / OPTION
  
```

- 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
  
```

- 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	OPTION	- SETTING MODE -
	DEFAULT INPUT SELECT	LAST
	AUTO POWER ON MODE	INACTIVE
	WARM-UP MODE	INACTIVE
	PHOSPHOR SAVER	OFF
	SIGNAL SWITCHING	SOUND MUTE ON PICTURE MUTE ON

SETTING

- 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.

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.

PHOSPHOR SAVER
OFF
ON

- 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.

RETURN USER MODE?
YES NO

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 52 for the explanation of the PASSCODE.
- ② Use the CURSOR  or  button to highlight the "9/OPTION" line. Press ENTER to display the "OPTION" menu. You can also select the "OPTION" menu directly by pressing the INPUT "9" button.
 - The eighth item is "8/OPTION" in stand alone adjust menu.



```



- ADJUST -
1 / SIGNAL ENTRY
2 / FOCUS
3 / ALIGNMENT
4 / CONVERGENCE
5 / WHITE BAL
6 / R,G,B GAIN
7 / HOUR METER
8 / PASSCODE
9 / OPTION
  
```

- 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
  
```

- 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.

```

P02  OPTION  - SETTING MODE -
DEFAULT INPUT SELECT  LAST
AUTO POWER ON MODE   INACTIVE
WARM-UP MODE         INACTIVE
PHOSPHOR SAVER       OFF
SIGNAL SWITCHING     SOUND
                      MUTE ON
                      PICTURE
                      MUTE ON
  
```

SETTING

- 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.

SIGNAL SWITCHING MUTE
SOUND ON
PICTURE OFF

- 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.

SOUND MUTE
ON
OFF

- 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.

RETURN USER MODE?
YES NO

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 52 for the explanation of the PASSCODE section.
- ② Use the CURSOR  or  button to highlight the "9/OPTION" line and then press ENTER to display the "OPTION" menu. You can also select the "OPTION" menu directly by pressing the INPUT "9" button.
 - The eighth item is "8/OPTION" in stand alone adjust menu.



```



- ADJUST -
1 / SIGNAL ENTRY
2 / FOCUS
3 / ALIGNMENT
4 / CONVERGENCE
5 / WHITE BAL
6 / R,G,B GAIN
7 / HOUR METER
8 / PASSCODE
9 / OPTION
  
```

- 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
  
```

- ④ Use the CURSOR  or  button to select the "AUTOMATIC DATA STORE" item on Page 3, 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 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	OPTION	- SETTING MODE -
	AUTOMATIC DATA STORE	DISABLE
	DIRECT ENTRY ACCESS	DISABLE
	ASTIG ADJUSTMENT	OFF
	FOCUS EDGE MODE	ALL

SETTING

- 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.

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.

AUTOMATIC DATA STORE
DISABLE
ENABLE

- 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.







RETURN USER MODE?
YES NO

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 52 for the explanation of the PASSCODE.
- ② Use the CURSOR  or  button to highlight the "9/OPTION" line. Press ENTER to display the "OPTION" menu. You can also select the "OPTION" menu directly by pressing the INPUT "9" button.
 - The eighth item is "8/OPTION" in stand alone adjust menu.
- 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 "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.

```

- ADJUST -
1 / SIGNAL ENTRY
2 / FOCUS
3 / ALIGNMENT
4 / CONVERGENCE
5 / WHITE BAL
6 / R,G,B GAIN
7 / HOUR METER
8 / PASSCODE
9 / OPTION
  
```

```

- OPTION -
1 / SETTING MODE
2 / MENU MODE
3 / SEQUENCER
4 / PJ ADDRESS
5 / VERSION
  
```

P03	OPTION	- SETTING MODE -
	AUTOMATIC DATA STORE	DISABLE
	DIRECT ENTRY ACCESS	DISABLE
	ASTIG ADJUSTMENT	OFF
	FOCUS EDGE MODE	ALL

SETTING

- 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.

DIRECT ENTRY ACCESS

DISABLE
ENABLE

- 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.

RETURN USER MODE?







YES **NO**

ASTIG Adjustment



This function is used to set ASTIG ADJUSTMENT on/off.

NOTE: You can carry out ASTIG CROSS and ASTIG CORNER adjustment in focus mode only when the ASTIG ADJUSTMENT is set to on.

To set this function, proceed as follows:

- ① Press the ADJUST button to display the "ADJUST" menu.
 - The projector may ask you to enter your passcode.
See page 52 for the explanation of the PASSCODE.
- ② Use the CURSOR  or  button to highlight the "9/OPTION" line. Press ENTER to display the "OPTION" menu. You can also select the "OPTION" menu directly by pressing the INPUT "9" button.
 - The eighth item is "8/OPTION" in stand alone adjust menu.
- 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 "ASTIG ADJUSTMENT" item on Page 3, then press ENTER to display the "ASTIG ADJUSTMENT" menu.

NOTE: The SETTING MODE has three menus. The "ASTIG ADJUSTMENT" 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.

```

- ADJUST -
1 / SIGNAL ENTRY
2 / FOCUS
3 / ALIGNMENT
4 / CONVERGENCE
5 / WHITE BAL
6 / R,G,B GAIN
7 / HOUR METER
8 / PASSCODE
9 / OPTION
  
```

```

- OPTION -
1 / SETTING MODE
2 / MENU MODE
3 / SEQUENCER
4 / PJ ADDRESS
5 / VERSION
  
```

P03	OPTION	- SETTING MODE -
	AUTOMATIC DATA STORE	DISABLE
	DIRECT ENTRY ACCESS	DISABLE
	ASTIG ADJUSTMENT	OFF
	FOCUS EDGE MODE	ALL

SETTING

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

Items to select

- OFF Astig Cross and Astig Corner adjustments are not possible in FOCUS mode.
- ON Astig Cross and Astig Corner adjustments are included in the focus menu. These adjustments are possible in FOCUS mode.

ASTIG ADJUSTMENT

OFF
ON



FOCUS MENU when OFF is selected

- FOCUS -
1 / CENTER
2 / EDGE ALL

FOCUS MENU when ON is selected

- FOCUS -
1 / CENTER
2 / EDGE ALL
3 / ASTIG CROSS
4 / ASTIG CORNER

- 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.

RETURN USER MODE?

YES NO

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 52 for the explanation of the PASSCODE.

- ② Use the CURSOR  or  button to highlight the "9/OPTION" line. Press ENTER to display the "OPTION" menu. You can also select the "OPTION" menu directly by pressing the INPUT "9" button.

- The eighth item is "8/OPTION" in stand alone adjust menu.



```



- ADJUST -
1 / SIGNAL ENTRY
2 / FOCUS
3 / ALIGNMENT
4 / CONVERGENCE
5 / WHITE BAL
6 / R,G,B GAIN
7 / HOUR METER
8 / PASSCODE
9 / OPTION
  
```

- 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
  
```

- ④ Use the CURSOR  or  button to select the "FOCUS EDGE MODE" item on Page 3, 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 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	OPTION	- SETTING MODE -
	AUTOMATIC DATA STORE	DISABLE
	DIRECT ENTRY ACCESS	DISABLE
	ASTIG ADJUSTMENT	OFF
	FOCUS EDGE MODE	ALL

SETTING

- 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

FOCUS EDGE MODE
ALL
SEPARATE

- 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.







RETURN USER MODE?
YES NO

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 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 52 for the explanation of the PASSCODE.
- ② Use the CURSOR  or  button to highlight the "9/OPTION" line. Press ENTER to display the "OPTION" menu. You can also select the "OPTION" menu directly by pressing the INPUT "9" button.
 - The eighth item is "8/OPTION" in stand alone adjust menu.
- 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.

```

- ADJUST -
1 / SIGNAL ENTRY
2 / FOCUS
3 / ALIGNMENT
4 / CONVERGENCE
5 / WHITE BAL
6 / R,G,B GAIN
7 / HOUR METER
8 / PASSCODE
9 / OPTION
  
```

```

- OPTION -
1 / SETTING MODE
2 / MENU MODE
3 / SEQUENCER
4 / PJ ADDRESS
5 / VERSION
  
```

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
DATE, TIME PRESET	

- 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.

MESSAGE MODE

AUTO
MANUAL

OFF TIME

3 SEC
4 SEC
5 SEC
6 SEC
7 SEC
8 SEC
9 SEC
10 SEC

- 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.



RETURN USER MODE?

YES **NO**

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 52 for the explanation of the PASSCODE.
- ② Use the CURSOR  or  button to highlight the "9/OPTION" line. Press ENTER to display the "OPTION" menu. You can also select the "OPTION" menu directly by pressing the INPUT "9" button.
 - The eighth item is "8/OPTION" in stand alone adjust menu.



```

- ADJUST -
1 / SIGNAL ENTRY
2 / FOCUS
3 / ALIGNMENT
4 / CONVERGENCE
5 / WHITE BAL
6 / R,G,B GAIN
7 / HOUR METER
8 / PASSCODE
9 / OPTION
    
```

- 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
    
```

- 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
MESSAGE COLOR	COLOR
DATE, TIME DISPLAY	DATE : ON
DATE : MM/DD/YY	DAY : OFF
TIME : 24HOUR	TIME : ON
DATE, TIME PRESET	

SETTING

- 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".

MESSAGE COLOR
COLOR
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.

RETURN USER MODE?
YES NO

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 52 for the explanation of the PASSCODE.
- ② Use the CURSOR  or  button to highlight the "9/OPTION" line. Press ENTER to display the "OPTION" menu. You can also select the "OPTION" menu directly by pressing the INPUT "9" button.
 - The eighth item is "8/OPTION" in stand alone adjust menu.
- 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 / WHITE BAL
6 / R,G,B GAIN
7 / HOUR METER
8 / PASSCODE
9 / OPTION
  
```

```

- OPTION -
1 / SETTING MODE
2 / MENU MODE
3 / SEQUENCER
4 / PJ ADDRESS
5 / VERSION
  
```

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
DATE, TIME PRESET	

```

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.

DATE DISPLAY

MM/DD/YY
MONTH/DD/YY
OFF

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

DAY DISPLAY

ON
OFF

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.

TIME DISPLAY

HH:MM:SS AM/PM
HH:MM:SS 24HOUR
OFF

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.







RETURN USER MODE?

YES NO

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 52 for the explanation of the PASSCODE.
- ② Use the CURSOR  or  button to highlight the "9/OPTION" line. Press ENTER to display the "OPTION" menu. You can also select the "OPTION" menu directly by pressing the INPUT "9" button.
 - The eighth item is "8/OPTION" in stand alone adjust menu.
- 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 / WHITE BAL
6 / R,G,B GAIN
7 / HOUR METER
8 / PASSCODE
9 / OPTION
  
```

```

- OPTION -
1 / SETTING MODE
2 / MENU MODE
3 / SEQUENCER
4 / PJ ADDRESS
5 / VERSION
  
```

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
DATE, TIME PRESET	

SETTING

- 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.

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.

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

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.

Auto Sequence Setting



You can program the projector to change sources.

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 52 for the explanation of the PASSCODE.
- ② Use the CURSOR  or  button to highlight the "9/OPTION" line. Press ENTER to display the "OPTION" menu. You can also select the "OPTION" menu directly by pressing the INPUT "9" button.
 - The eighth item is "8/OPTION" in stand alone adjust menu.



```

- ADJUST -
1 / SIGNAL ENTRY
2 / FOCUS
3 / ALIGNMENT
4 / CONVERGENCE
5 / WHITE BAL
6 / R,G,B GAIN
7 / HOUR METER
8 / PASSCODE
9 / OPTION
  
```

- 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
  
```



- 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 -		
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

- 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	SMTWTFS
01	M-10	S-01	12:00:00	X○○○○○X
02	M-02	S-02	14:00:00	X○○○○○X
03	M-01	S-02		X○○○○○X
04	WAIT		00:10:00	
05	M-01	S-01		X○○○○○X
06	WAIT		00:20:00	
07	LOOP	03	COUNT 05	
08	M-02	S-02	15:50:00	X○○○○○X
09	P-OFF		18:00:00	X○○○○○X
10	P-ON		09:00:00	X○○○○○X
			START	EDIT

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



Items to select

- INPUT Enter new data.
- 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.



INPUT
WAIT
GOTO
LOOP
P-ON
P-OFF
INSERT
DELETE

■ Selecting “INPUT”

When using in stand alone application:

- 1) Use the CURSOR  or  button to select “INPUT” and press ENTER.
 - The “VIDEO/RGB/S-VIDEO” terminal menu is displayed.



INPUT
WAIT
GOTO
LOOP
P-ON
P-OFF
INSERT
DELETE

- 2) Use the CURSOR  or  button to select either “VIDEO”, “RGB”, or “S-VIDEO” and press ENTER.
 - The “TIME” input screen is displayed.

VIDEO
RGB
S-VIDEO

- 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 “VIDEO/RGB/S-VIDEO” terminal menu then start from step 2).
 - The “WEEK SELECT” screen will appear.



TIME __:__:__

- 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.



WEEK SELECT	
DAILY	
SUN	NO
MON	YES
TUE	YES
WEN	YES
THU	YES
FRI	YES
SAT	NO
END	

NOTE: Typing 99:99:99 in the time input menu will execute the program immediately. (See the examples in the "WAIT" section on page 103)

When using with a single ISS-6010/ISS-6010G Switcher:

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



INPUT
WAIT
GOTO
LOOP
P-ON
P-OFF
INSERT
DELETE

- 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.

MASTER	
SLOT-01	
SLOT-02	
SLOT-03	
SLOT-04	
SLOT-05	
SLOT-06	
SLOT-07	
SLOT-08	
SLOT-09	
SLOT-10	

- 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.

TIME	__:	__:	__
------	-----	-----	----



- 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.

WEEK SELECT	
DAILY	
SUN	NO
MON	YES
TUE	YES
WEN	YES
THU	YES
FRI	YES
SAT	NO
END	

NOTE: Typing 99:99:99 in the time input menu will execute the program immediately. (See the examples in the "WAIT" section on page 103)



SETTING

When using with two or more ISS-6010/ISS-6010G Switchers:



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

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

INPUT
WAIT
GOTO
LOOP
P-ON
P-OFF
INSERT
DELETE

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

MASTER
SLOT-01
SLOT-02
SLOT-03
SLOT-04
SLOT-05
SLOT-06
SLOT-07
SLOT-08
SLOT-09
SLOT-10

- 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.

MASTER	SLAVE
SLOT-01	SLOT-01
SLOT-02	SLOT-02
SLOT-03	SLOT-03
SLOT-04	SLOT-04
SLOT-05	SLOT-05
SLOT-06	SLOT-06
SLOT-07	SLOT-07
SLOT-08	SLOT-08
SLOT-09	SLOT-09
SLOT-10	SLOT-10

- 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).

TIME _:_:__:__



- The "WEEK SELECT" screen will appear.

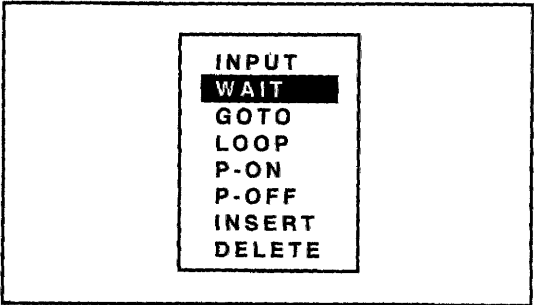
- 5) Use the CURSOR  or  button to select any day of the week, then select either "YES" or "NO" with ENTER.
 - When "DAILY" selected, the entire week is changed to "YES".
 - When "END" is selected, the current setting is saved.
 - To return to Step 4), press the END button. In that case, the changed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

WEEK SELECT	
DAILY	
SUN	NO
MON	YES
TUE	YES
WEN	YES
THU	YES
FRI	YES
SAT	NO
END	

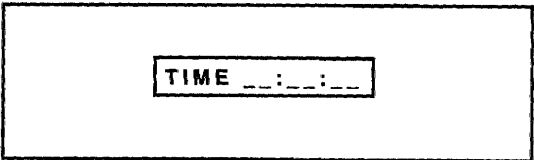
NOTE: Typing 99:99:99 in the time input menu will execute the program immediately. (See the example in the following "WAIT" section.)

■ 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.



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.

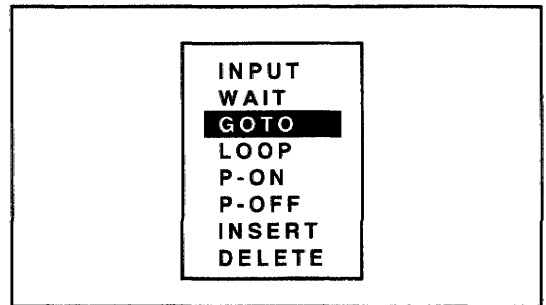
The “WAIT” function is used to execute the command immediately.

OPTION - SEQUENCER -			
P01			
NO	INPUT	TIME	SMTWTFS
01	VIDEO		○○○○○○○
02	WAIT	00:20:00	
03	P-OFF		○○○○○○○
04			
05			
06			
07			
08			
09			
10			
		START	EDIT

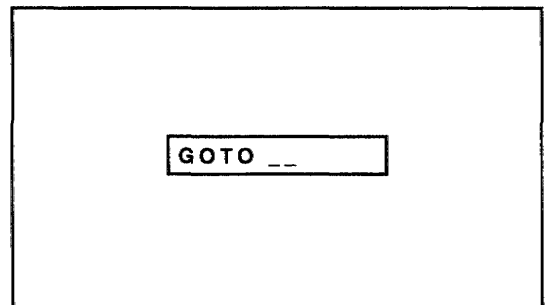
SETTING

■ Selecting “GOTO”



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

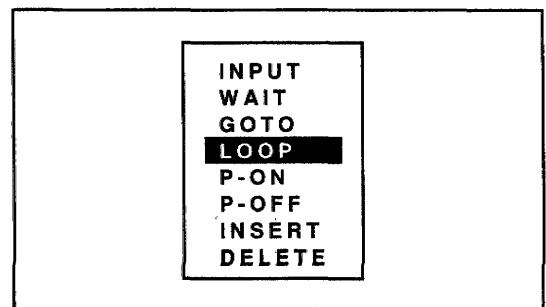


- 2) Enter the scan number line to which you want to jump to using the INPUT button and press ENTER.
 - If you have made an error, press END to return to the Program menu, then start again.
 - The “SEQUENCER” screen will be restored to its last setting.

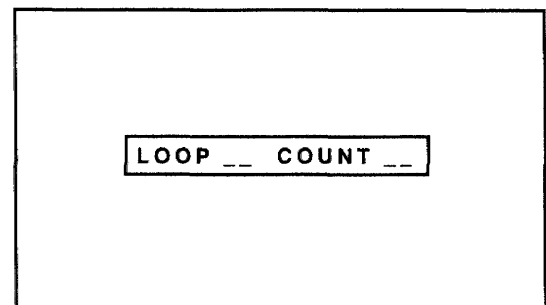


■ Selecting “LOOP”



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

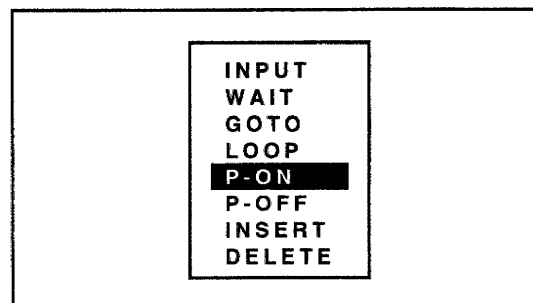


- 2) Enter the number of the destination line (LOOP) and the number of the loop times (COUNT) in this order using the INPUT button and press ENTER.
 - If you have made an error, press END to return to the Program menu, then start again.
 - The “SEQUENCER” screen will be restored to its last setting.

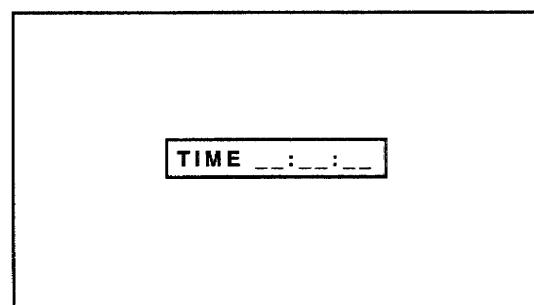


■ Selecting “P-ON”

- 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.





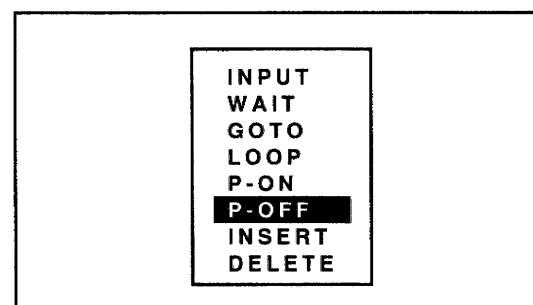
NOTE 1: Typing 99:99:99 in the time input menu will execute the program immediately.

NOTE 2: The P-ON command is available only when the projector is off (in the standby condition)

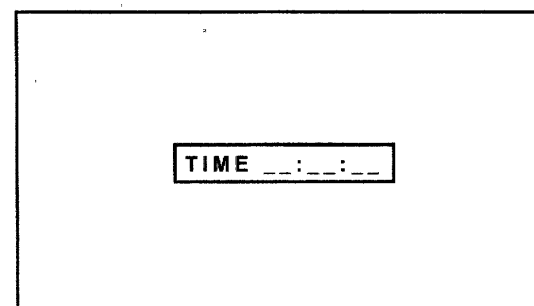
The P-ON command is ignored if set in the first line. In this case, the program will start its execution from the second line.

■ 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 103)

SETTING

■ 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.





INPUT
WAIT
GOTO
LOOP
P-ON
P-OFF
INSERT
DELETE

OPTION - SEQUENCER -

P01

NO	INPUT	TIME	SMTWTFSS
01	M-10 S-01	12:00:00	x○○○○○x
02	M-02 S-02	14:00:00	x○○○○○x
03	M-01 S-02		x○○○○○x
04	WAIT	00:10:00	
05	M-01 S-01		x○○○○○x
06	WAIT	00:20:00	
07	LOOP 03 COUNT 05		
08	M-02 S-02	15:50:00	x○○○○○x
09	P-OFF	18:00:00	x○○○○○x
10	P-ON	09:00:00	x○○○○○x
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.

INPUT
WAIT
GOTO
LOOP
P-ON
P-OFF
INSERT
DELETE

OPTION - SEQUENCER -

P01

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

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.

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
			START	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.



RETURN USER MODE?

YES 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 52 for the explanation of the PASSCODE.
- ② Use the CURSOR  or  button to highlight the "9/OPTION" line. Press ENTER to display the "OPTION" menu. You can also select the "OPTION" menu directly by pressing the INPUT "9" button.
 - The eighth item is "8/OPTION" in stand alone adjust menu.

```
- ADJUST -  
1 / SIGNAL ENTRY  
2 / FOCUS  
3 / ALIGNMENT  
4 / CONVERGENCE  
5 / WHITE BAL  
6 / R,G,B GAIN  
7 / HOUR METER  
8 / PASSCODE  
9 / OPTION
```

- 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" screen directly by pressing the INPUT "4" button.

```
- OPTION -  
1 / SETTING MODE  
2 / MENU MODE  
3 / SEQUENCER  
4 / PJ ADDRESS  
5 / VERSION
```

- 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)
```

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.

RETURN USER MODE?	
<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO

SETTING

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 52 for the explanation of the PASSCODE.
- ② Use the CURSOR ☐ or ☐ button to highlight the “9/OPTION” line. Press ENTER to display the “OPTION” menu. You can also select the “OPTION” menu directly by pressing the INPUT “9” button.
 - The eighth item is “8/OPTION” in stand alone adjust menu.
- 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 “POINT” and “SWITCHER” items are available only when the point convergence is set to the ENABLE and the connect condition to the SW 1 or 2 LEVEL.
- ④ 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 time, you will not need to re-enter your passcode.

```
- ADJUST -  
1 / SIGNAL ENTRY  
2 / FOCUS  
3 / ALIGNMENT  
4 / CONVERGENCE  
5 / WHITE BAL  
6 / R,G,B GAIN  
7 / HOUR METER  
8 / PASSCODE  
9 / OPTION
```

```
- OPTION -  
1 / SETTING MODE  
2 / MENU MODE  
3 / SEQUENCER  
4 / PJ ADDRESS  
5 / VERSION
```

```
OPTION  
- VERSION NUMBER -  
HARDWARE VERSION  3.00  
SOFTWARE VERSION  
  BIOS              3.00  
  APPLICATION       3.00  
  DATA             3.00  
  SUB-CPU           2.00  
  POINT             3.00  
  SWITCHER          2.00
```

```
RETURN USER MODE?  
YES NO
```


Step Through Menu for Projector Set up

The "ADJUST" mode has a STEP THROUGH MENU. This is the mode which the projector automatically guides you through the adjustment items. The order is based on the Set-Up Procedure shown on page 31.

Proceed as follows:

- ① Press and hold the CTL button then press the ADJUST button to display the "STEP THROUGH MENU".
 - The projector may ask you to enter your passcode. See page 52 for the explanation of the PASSCODE.
 - At the start "1/SIGNAL ENTRY" is highlighted.
- ② Press ENTER at this moment to change the screen to the SIGNAL ENTRY menu. Perform a signal entry.
 - See the Signal Entry section on page 16 thru 23 for more details.

```

STEP THROUGH MENU
1 / SIGNAL ENTRY
2 / FOCUS
3 / ALIGNMENT
4 / STATIC
5 / CONVERGENCE
6 / WHITE BAL
7 / R,G,B GAIN
8 / POSITION
9 / PICTURE
*:ADJUSTMENT FINISH
  
```

- ③ After finishing the Signal Entry, press END and the "STEP THROUGH MENU" will return.
 - The item "SIGNAL ENTRY" is flagged with an asterisk. The highlighted indicator moves to the next item "FOCUS".
 - Similarly, other finished items are flagged with an asterisk. The highlight moves to the next item in order.
 - To go back to the previous item or to skip items, use the CURSOR or button to select the item.

```

STEP THROUGH MENU
1 / SIGNAL ENTRY
2 / FOCUS
3 / ALIGNMENT
4 / STATIC
5 / CONVERGENCE
6 / WHITE BAL
7 / R,G,B GAIN
8 / POSITION
9 / PICTURE
*:ADJUSTMENT FINISH
          - FOCUS -
          1 / CENTER
          2 / EDGE ALL
  
```

- ④ To stop this mode, press END.
 - The display will return to the 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.

```

RETURN USER MODE?
YES  NO
  
```

Appendix

Timing Charts:

CONTENTS

Pre-set Signals	3-8-2
Input Signal Reference Chart	3-8-3
Input Signal Timing	3-8-4

TIMING CHARTS

Pre-set Signals

The following signals have been set by factory.

■ MultiSync 6PG XTRA

P01 INPUT SELECT			
STANDALONE			
NO	INPUT	NAME	DATE
01	VIDEO	NTSC3.58	
02	VIDEO	NTSC4.43	
03	VIDEO	PAL	
04	VIDEO	SECAM	
05	RGB	VGA480	
06	S-VIDEO	NTSC3.58	
07	S-VIDEO	PAL	
08			
09			
10			

■ MultiSync 9PG XTRA

P01 INPUT SELECT			
STANDALONE			
NO	INPUT	NAME	DATE
01	VIDEO	NTSC3.58	
02	VIDEO	NTSC4.43	
03	VIDEO	PAL	
04	VIDEO	SECAM	
05	RGB	VGA480	
06	S-VIDEO	NTSC3.58	
07	S-VIDEO	PAL	
08			
09			
10			

P06 INPUT SELECT			
STANDALONE			
NO	INPUT	NAME	DATE
51	VIDEO	NTSC3.58	
52	VIDEO	PAL	
53	RGB	VGA350	
54	RGB	VGA480	
55	RGB	MAC2	
56	RGB	IDTV	
57	RGB	HDTV	
58	RGB	VESA800	
59	RGB	VESA1024	
60			

P06 INPUT SELECT			
STANDALONE			
NO	INPUT	NAME	DATE
51	VIDEO	NTSC3.58	
52	VIDEO	PAL	
53	RGB	VGA350	
54	RGB	VGA480	
55	RGB	MAC2	
56	RGB	IDTV	
57	RGB	HDTV	
58	RGB	VESA800	
59	RGB	VESA1024	
60	RGB	QUADRA	

P07 INPUT SELECT			
STANDALONE			
NO	INPUT	NAME	DATE
61			
62			
63			
64			
65			
66			
67			
68			
69			
70			

P07 INPUT SELECT			
STANDALONE			
NO	INPUT	NAME	DATE
61	RGB	HP-WS	
62			
63			
64			
65			
66			
67			
68			
69			
70			

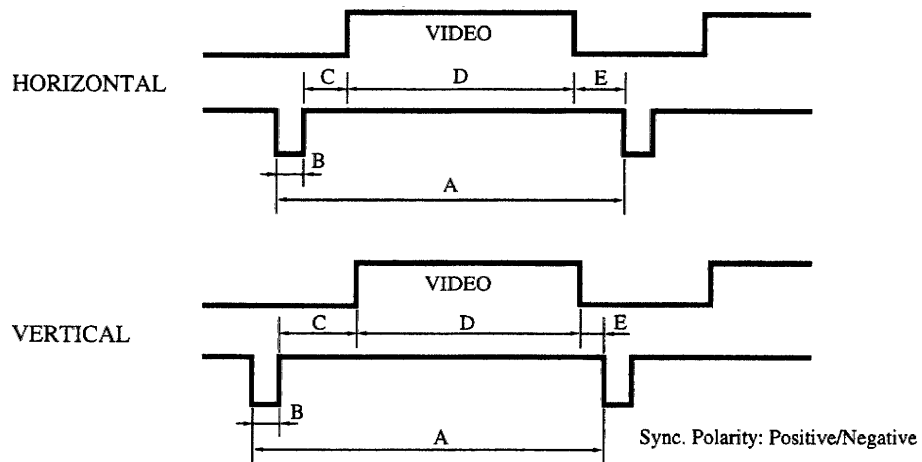
P08 INPUT SELECT			
STANDALONE			
NO	INPUT	NAME	DATE
71	VIDEO	NTSC(F)	
72	RGB	VGA(F)	
73			
74			
75			
76			
77			
78			
79			
80			

P08 INPUT SELECT			
STANDALONE			
NO	INPUT	NAME	DATE
71	VIDEO	NTSC(F)	
72	RGB	VGA(F)	
73			
74			
75			
76			
77			
78			
79			
80			

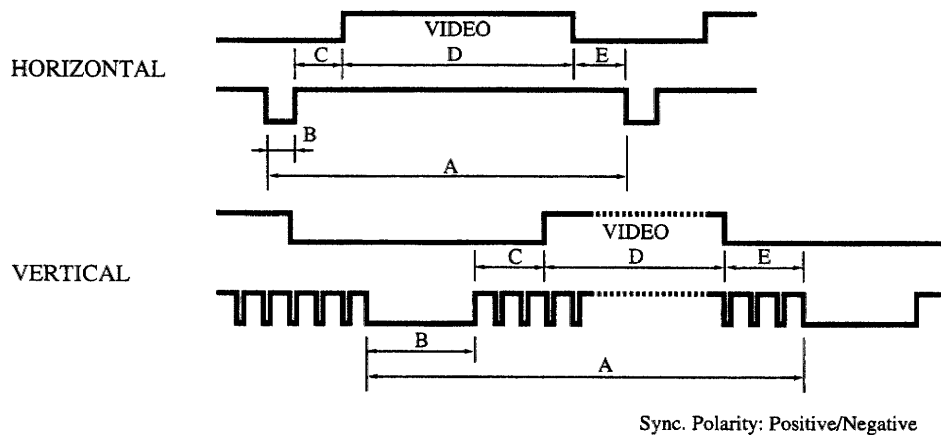
TIMING CHARTS

Input Signal Reference Chart

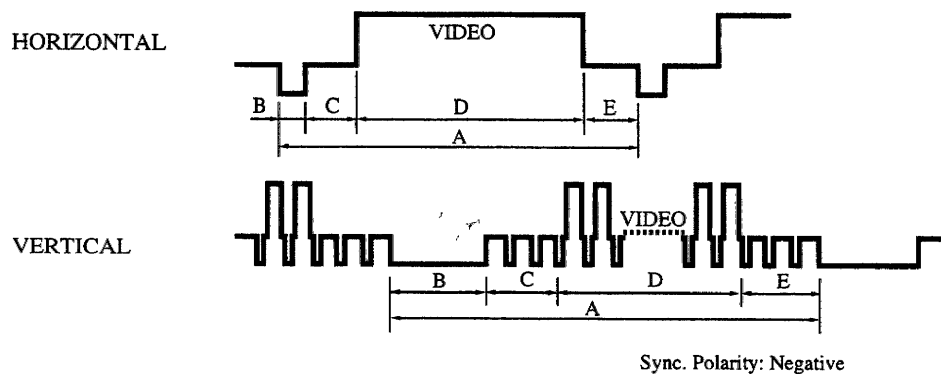
Separate Sync.



Composite Sync.



Composite Sync. & Video (Sync. on Green)



Input Signal Timing

		A	B	C	D	E	Polarity
IBM VGA 350	H μ 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 μ 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 μ 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 μ 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 μ 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 μ 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 μ 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 μ 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.

