

# **Installation Manual**

**MultiSync 6PG PLUS**

**MultiSync 9PG PLUS**

**Multiple Frequency Projection Monitor**

**Model Number:**

**PG-6100/PG-9100/PG-6100G/PG-9100G**

**Installation Manual**  
**MultiSync 6PG PLUS**  
**MultiSync 9PG PLUS**  
**Multiple Frequency Projection Monitor**

**Model Number:**  
**PG-6100/PG-9100/PG-6100G/PG-9100G**

To be used by authorized service personnel

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### Setup

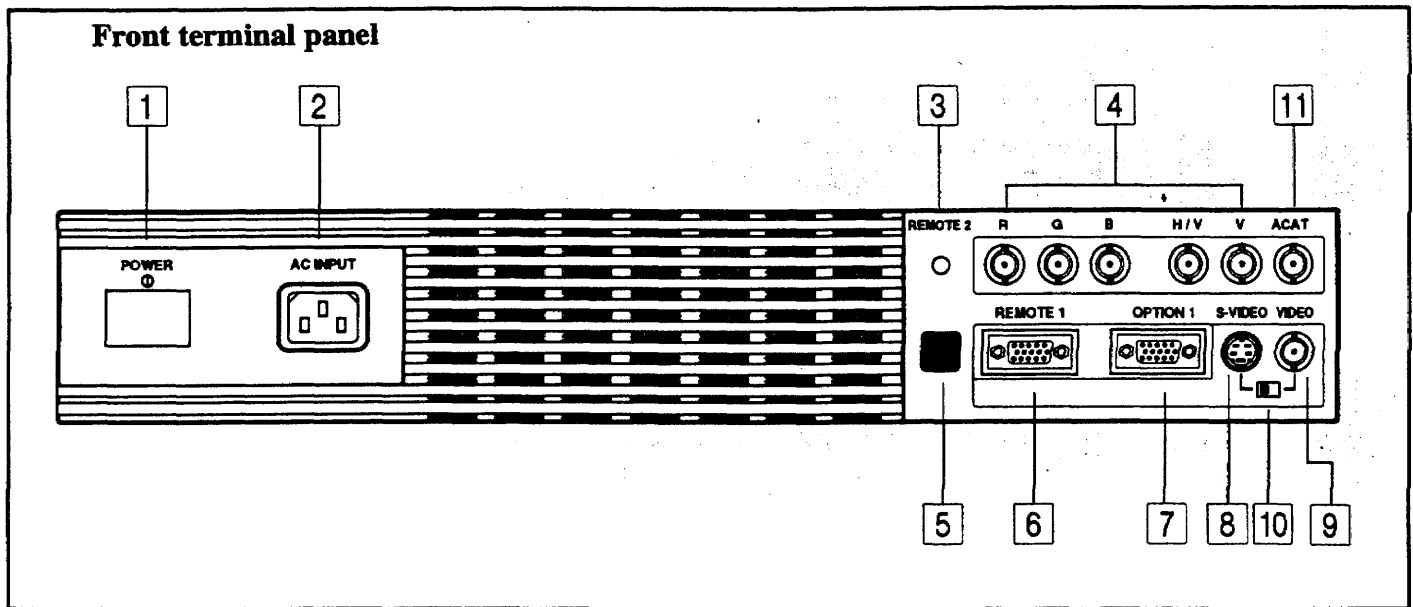
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# PART NAMES AND FUNCTIONS



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

**NOTE:** The ISS-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.

## 9 VIDEO Input Terminal

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

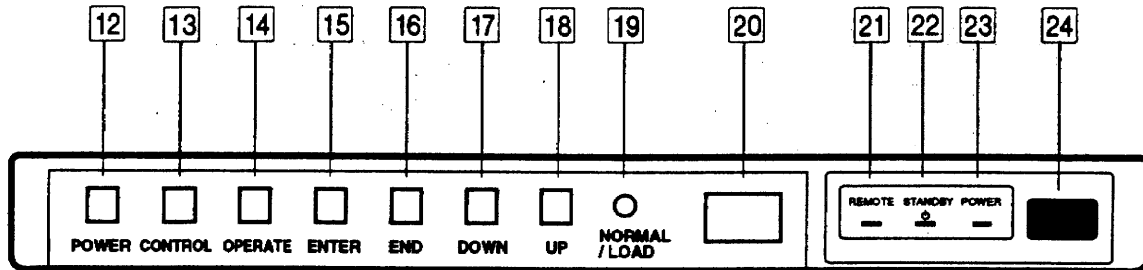
## 10 S-VIDEO/ VIDEO Select Switch

Selects either the S-VIDEO input or the VIDEO input terminal.

## 11 ACAT Terminal

This is a video output connector for the optional built-in CCD camera. Connect to the video capture board of your computer for convergence adjustments using the optional ACAT (automatic convergence) software.

**Rear control panel**



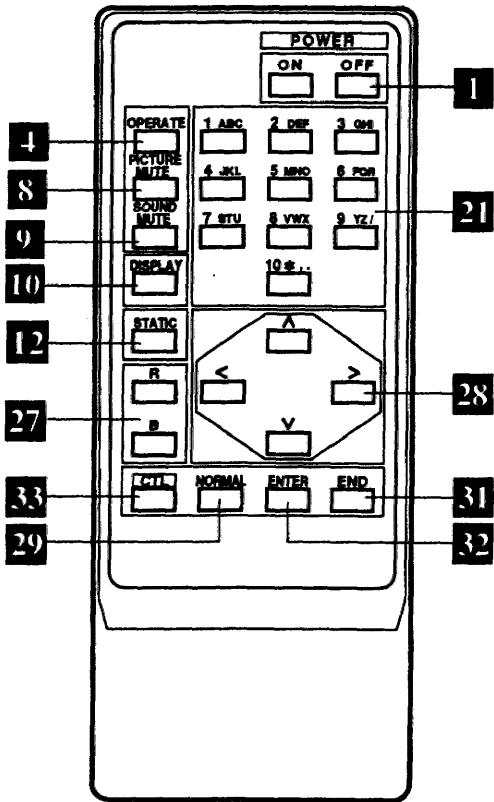
- 12 POWER Button**  
Turns the projector on or off when the projector is in the standby condition (Main Power switch must be on and the Standby indicator lit).
- 13 CONTROL Button**  
Used with other buttons, similar to a shift key on a computer. This is referred to as the CTL button in this manual 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

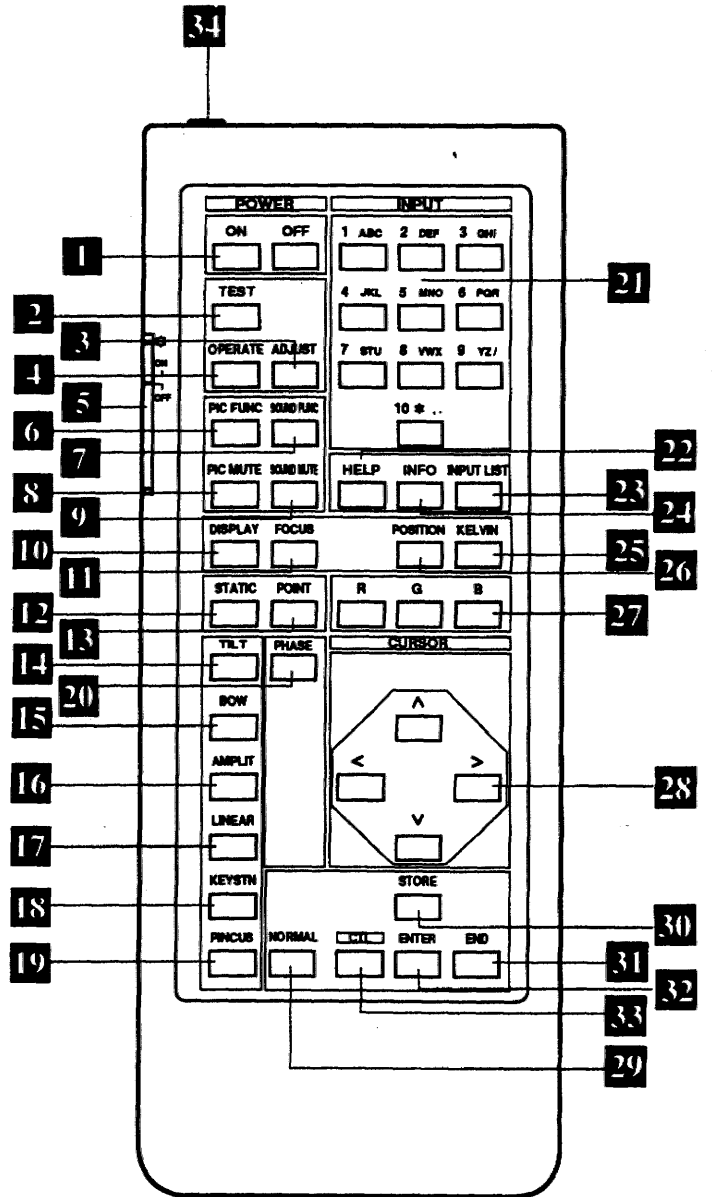
**NOTE:**"3/SOUND" is not included in stand alone operate menu.
- 15 ENTER Button**  
Executes menu selection and switches input.
- 16 END Button**  
Exits the adjustment mode.
- 17 DOWN Button**  
Used to decrease values or move the cursor downward. When used with the CONTROL button, the DOWN button 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 2 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.

# PART NAMES AND FUNCTIONS

## Remote control unit



User Remote Control  
RC-6020



Full Function Remote Control  
RC-6051

### **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 pressed 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 used 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 is still being done in the projector's memory.

This mode is available even when the input is switched or the power is turned off. Turning off the main power cancels this mode.

### **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 ALIGNMENT 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 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.



## **PART NAMES AND FUNCTIONS**

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### **24 INFO Button**

Press to display the various parameters and settings of the currently displayed image.

### **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 VIDEO or RGB input 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 VIDEO or RGB input 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.

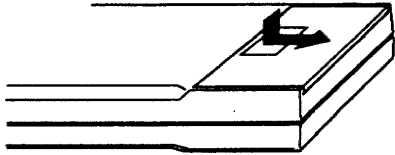
### **34 Remote Control Jack**

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

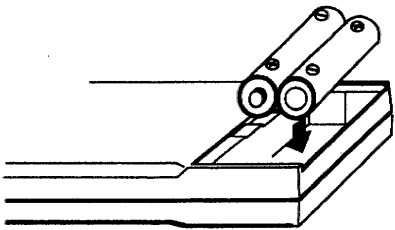
### Battery installation and replacement

#### User remote control (RC-6020)

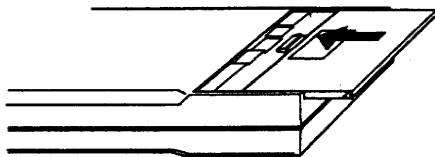
- 1 Press down on the battery compartment cover and slide the cover in the direction of the arrow.



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

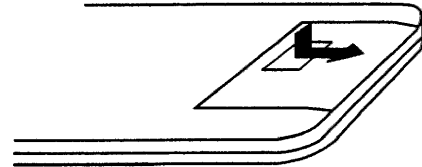


- 3 Close the battery compartment cover.

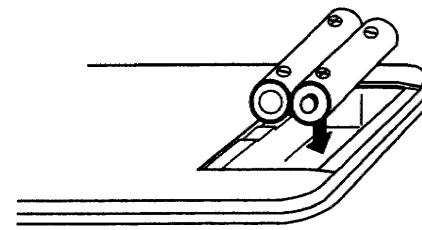


#### Full function remote control (RC-6051)

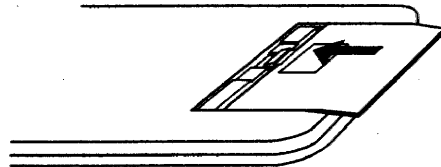
- 1 Press down on the battery compartment cover and slide the cover in the direction of the arrow.



- 2 Install the two new batteries, making sure that their polarity matches the (+) (-) 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.

### 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

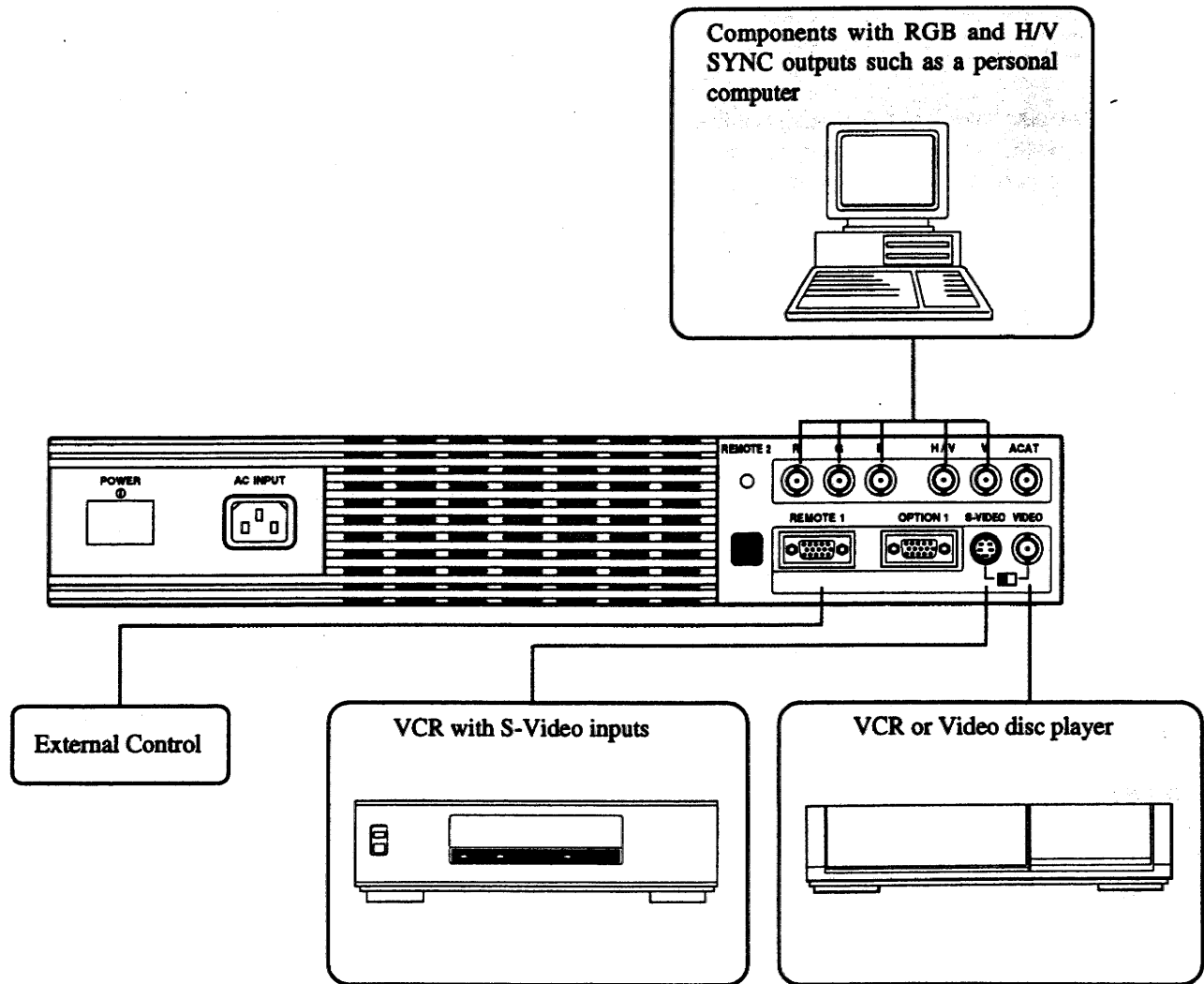
- Do not drop or mishandle the remote.
- Do not get the remote wet. If the remote gets wet, wipe it dry immediately.
- Avoid heat and humidity.
- When not using the remote for a long period, remove the batteries.
- Do not use new and old batteries together, or use different types together.
- Do not take 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.

# EXAMPLES OF CONNECTIONS

## CAUTIONS ON CONNECTIONS:

- Unplug the projector and other equipment from the AC supply before making connections.
- Make sure that the plug of the power cord is properly connected to the power outlet. A loose connection may cause hum or noise.
- Confirm your connection layout with the user's manual accompanying the equipment to be connected with the ISS-6010/ISS-6010G Switcher.

## When Used in Stand Alone Operation

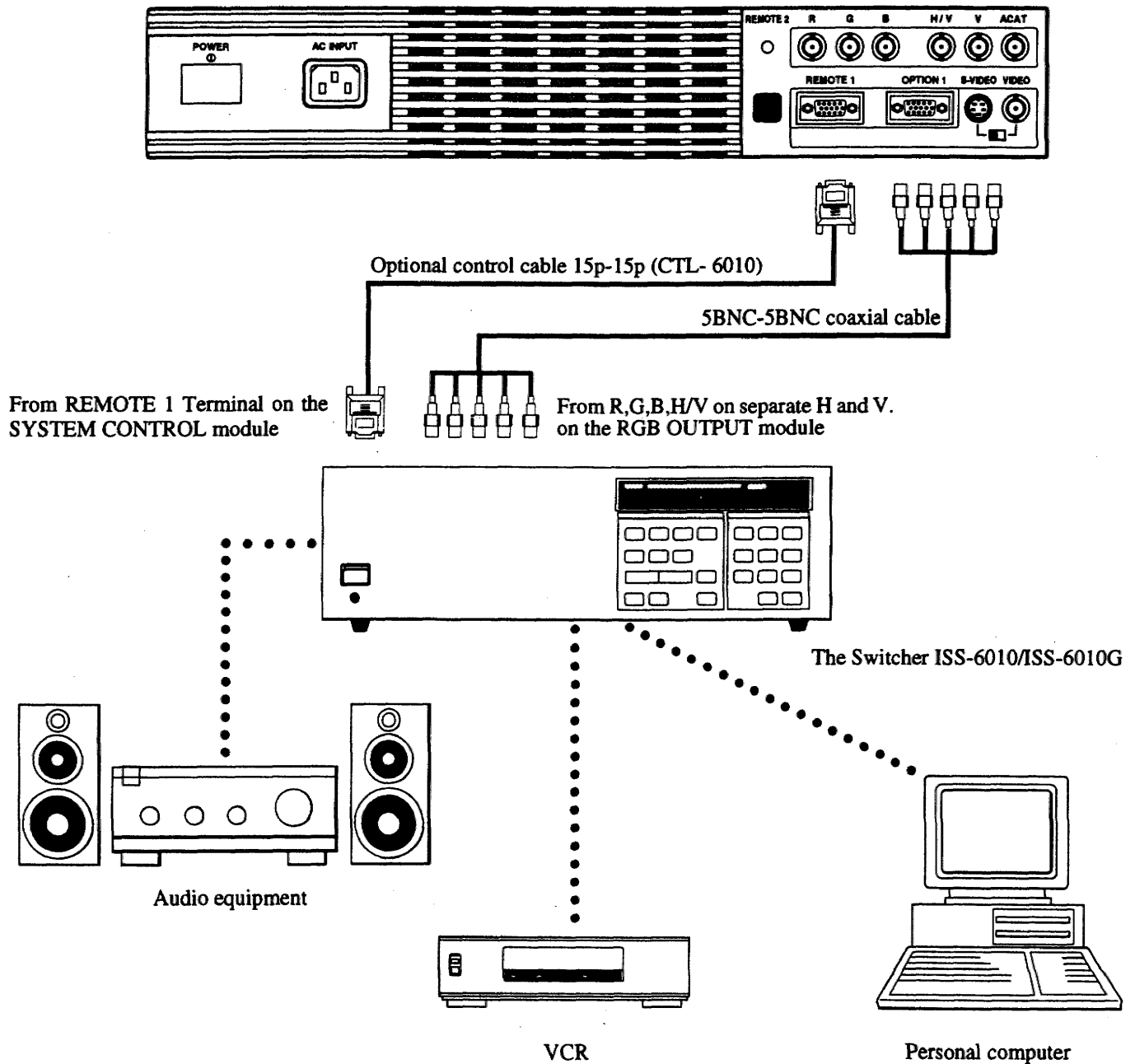


**NOTE:** This projector does not have built-in speakers.

- Make sure that the STANDALONE mode is selected from the CONNECT CONDITION menu. See Page 83.

**When Used with One Switcher (ISS-6010/ISS6010G)**

Up to 10 input signals can be accepted when the projector is connected to one Switcher.  
Using the projector with the Switcher allows easy adjustment and signal selection.



- Make sure that the SW1 LEVEL mode is selected from the CONNECT CONDITION menu. See page 83.
- For more information on the Switcher, refer to the user's manual accompanying the ISS-6010/ISS-6010G Switcher.
- All cables mentioned above are optional.

## EXAMPLES OF CONNECTIONS

### When Used with Two Switchers or More (100 Inputs)

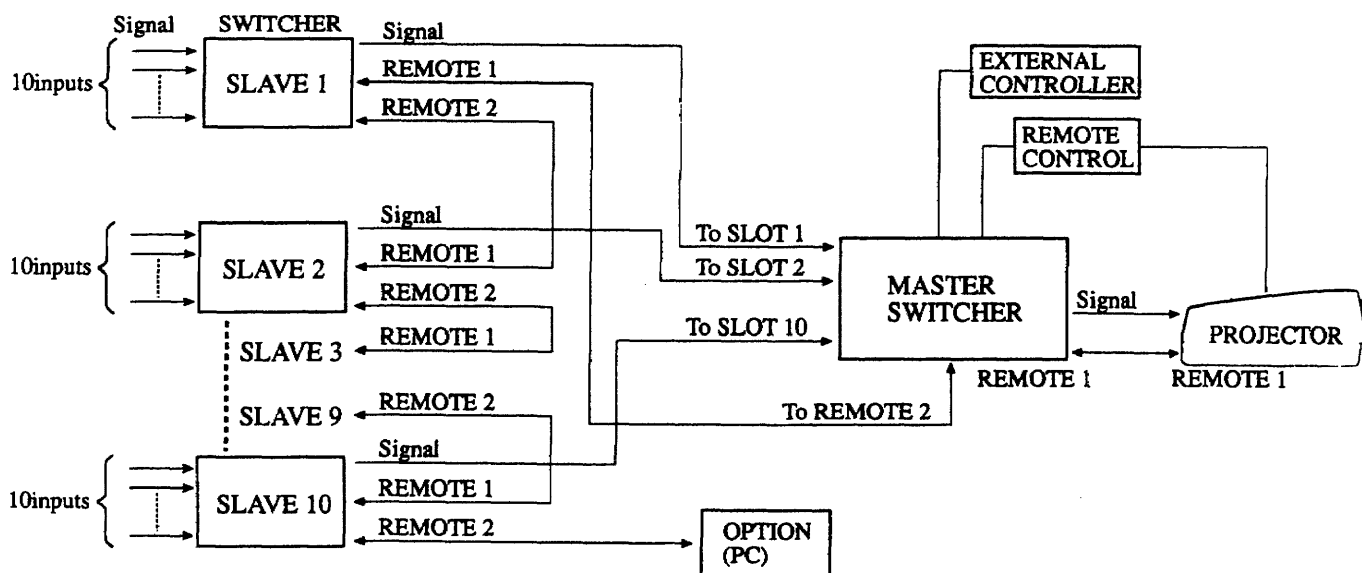
Up to 100 inputs can be accepted using the Switcher.

#### How to make connections:

- ① Connect the REMOTE 1 terminal of the master Switcher to the REMOTE 1 of the projector using the optional control cable(15p-15p/CTL-6010).
- ② First connect the REMOTE 2 terminal of the master Switcher to the REMOTE 1 terminal of the first slave Switcher using the same optional control cable as mentioned above. Second connect the REMOTE 2 terminal of the first slave to the REMOTE 1 of the second slave, and the REMOTE 2 terminal of the second slave to the REMOTE 1 terminal of the third slave (--- and the REMOTE 2 of the ninth slave to the REMOTE 1 of the tenth slave). Connect all the Switchers with optional control cables.

#### NOTE:












- Be sure to set all the Slide switches (S8603) of the Switcher to RS-422 positions. Set the one on the last slave Switcher to the appropriate position to match the connected equipment such as a personal computer. (RS-422/RS232 for PC control of projector)
- Set the DIP switch S8601 of the Switcher.
- This operation does not work with the NEC GP-3000/GP-3000G and the GP-5000/GP-5000G projectors.



- Make sure that the SW2 LEVEL mode is selected from the CONNECT CONDITION menu. See Page 83.
- Refer to the user's manual accompanying the Switcher.
- Cables mentioned are not included with the projector.

## EXAMPLES OF CONNECTIONS

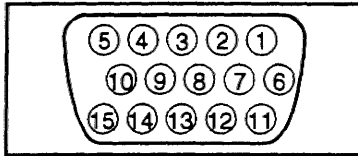
Set the DIP switch(S8601) of the Switcher as follows:

ISS-6010 ISS-6010G	Output to	Setting of S8601
Master	The Projector	
Slave 1	Slot 1 of the Master	
Slave 2	Slot 2 of the Master	
Slave 3	Slot 3 of the Master	
Slave 4	Slot 4 of the Master	
Slave 5	Slot 5 of the Master	
Slave 6	Slot 6 of the Master	
Slave 7	Slot 7 of the Master	
Slave 8	Slot 8 of the Master	
Slave 9	Slot 9 of the Master	
Slave 10	Slot 10 of the Master	

**NOTE:** Slave numbers 1 to 10 must correspond to the master's slot numbers 1 to 10.

## PART NAMES AND FUNCTIONS

### REMOTE 1 Terminal



This terminal is used for either connecting the ISS-6010/ISS-6010G Switcher or a third party external control device. When the Switcher is used, connect it with the optional control cable (15-15 pin; 50 ft./16m; CTL- 6010) to this terminal.

When used with the Switcher.

Pin No.	FUNCTION
1, 2, 6 and 7	Sending and receiving data when the Switcher is used.
9	Used inside the Switcher
3, 8, 11 and 12	Used inside the Projector. Normally set to OPEN.
15	Ground

When used in stand alone operation.

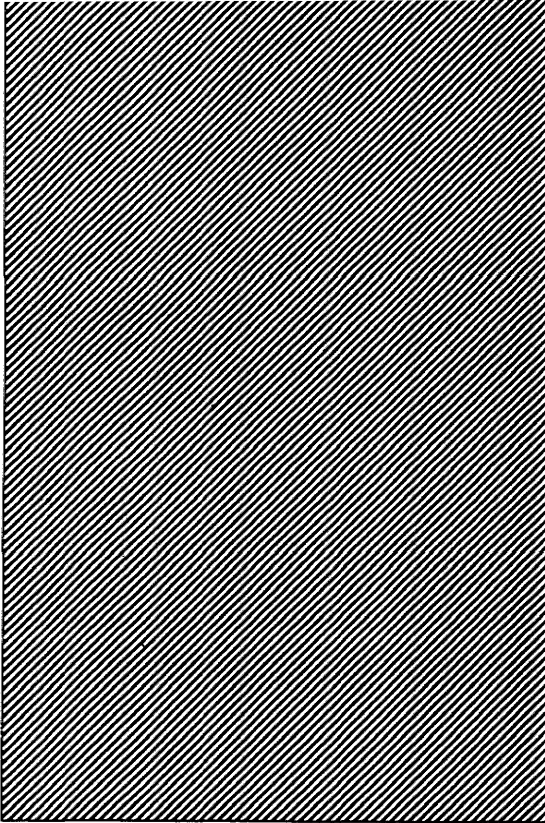
Pin No.	SHORT/OPEN	FUNCTION
14	SHORT OPEN	External control mode ON External control mode OFF
5	SHORT OPEN	POWER ON POWER OFF
10	SHORT OPEN	PICTURE MUTE ON PICTURE MUTE OFF
4	SHORT OPEN	VIDEO RGB

The term "SHORT" means to connect with pin 15

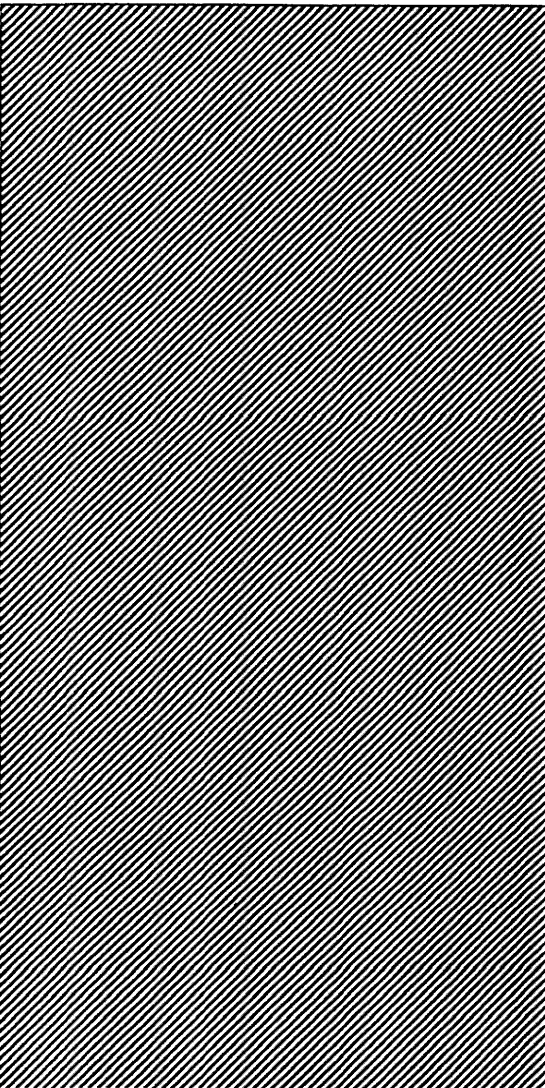
- When in the external control mode, the POWER, INPUT and PICTURE MUTE buttons on the remote control will not function.

**NOTE:** Pin 13 is the external remote signal terminal. The projector can be controlled by the same format signal as the supplied remote control from the external controller regardless of setting Pin 14.

**NOTE:** When turning the power on using the external control, short Pin 5 about three seconds after supplying the AC power to the projector; when turning the power off using the external control, power off the AC supply to the projector about three seconds after opening Pin 5. These procedures are to protect your projector and the connected equipment.



# Installation



## Installation

The Installation Setup Instruction chapter covers how to install the projector and gives you the details about the relative position of the projector and the screen.

The Projection Configuration Change chapter gives you the procedures for adjustments such as image polarity change, proper adjustment of the focus rings and CRT angle adjustment. You must reconfigure the projector for your application when it differs from the factory setting.

### CONTENTS

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# INSTALLATION SETUP INSTRUCTION

## Before Installation

**NOTE:**

- The ceiling must have sufficient strength to support the projector weight (57 kg/125.7 lbs.)
- To assure safety, when a ceiling bracket is installed, be sure to use the supplied ceiling mounting kit.

The installation procedure is different according to the projection system and screen size. Installation and preliminary adjustments are required as shown on table below.

Projection type	Screen size (diagonal)	Adjustment items	Various adjustments	Polarity change	Decorative lens panel, focus ring and CRT angle change
Ceiling mounting type/Front projection	100 inch		None	None	None (Set the focus ring when changing projection angle)
	other than 100 inch		Yes	None	Yes
Desk top type /Front projection type	100 inch		Yes	Yes	None (Set the focus ring when changing projection angle)
	other than 100 inch		Yes	Yes	Yes
Ceiling mounting /Rear projection	100 inch		Yes	Yes	None (Set the focus ring when changing projection angle)
	other than 100 inch		Yes	Yes	Yes
Desk top type /Rear projection	100 inch		Yes	Yes	None (Set the focus ring when changing projection angle)
	other than 100 inch		Yes	Yes	Yes

**NOTE:** The "100 inch" covers the range of screen size between 91 and 130 inches.

**NOTE:** Knob adjustment on page 28.

## Note on Installation

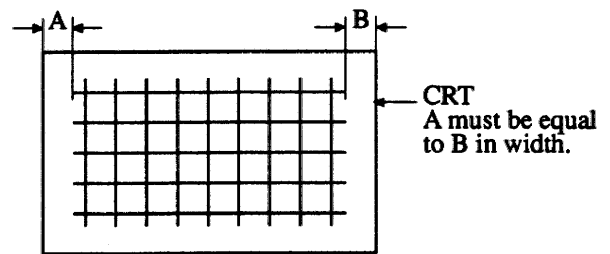
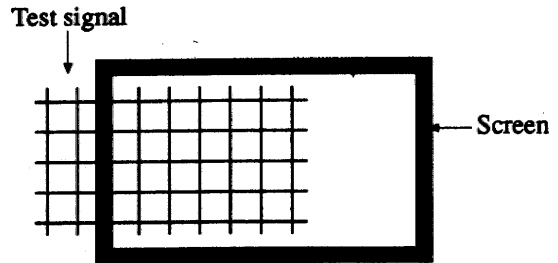
### ■ Adjusting the centering magnet

If the screen and the raster(the test signal) are not aligned, make sure that they are positioned correctly.

If the test signal is aligned with the screen, and the video signal is not, adjust picture SHIFT.

The projector is factory preset for ceiling mount, 100 inch diagonal screen size. When the projector is used in any other configuration, the screen and raster may not be aligned.

If this happens, lower the brightness and contrast and look into the CRT and visually check the test signal. Make sure that A is equal to B. A and B represent an unused blank phosphor area on the tube. If A and B are not equal, adjust the centering magnet of the G-CRT so that the green pattern is aligned with the screen. This must be done for the red and blue pattern. (See page 55 for more details.)



### CAUTION ON INSTALLATION

Position the projector according to the procedures specified in the following pages. Be sure to maintain the correct projection distance, direction and angle for optimum performance. Deviating from the correct installation could degrade the performance of the projector and may cause reliability problems.

### WARNING

Static displays that are left on for extended periods may cause CRT burns that are not covered under warranty.

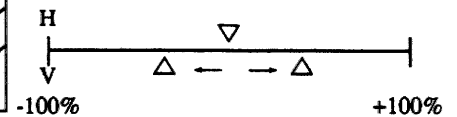
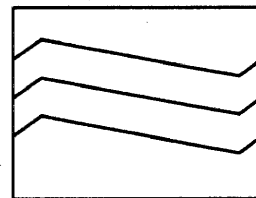
### CAUTION ON ALIGNMENT ADJUSTMENT

The adjustment value of the items on the right must be within the recommended range of the values on the right. If it is hard or impossible to adjust the items on the right within the recommended range of values, the most probable cause of this is incorrect position of the projector. Check for correct projection distance, direction and angle, and reposition as recommended in this manual.

#### Value Recommendation

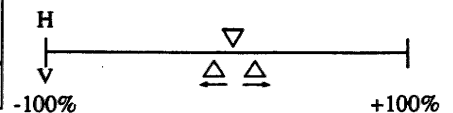
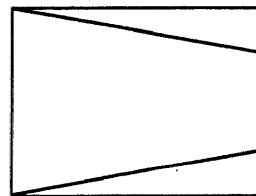
##### •TILT

within  $\pm 50\%$



##### •V-KEY

within  $\pm 10\%$



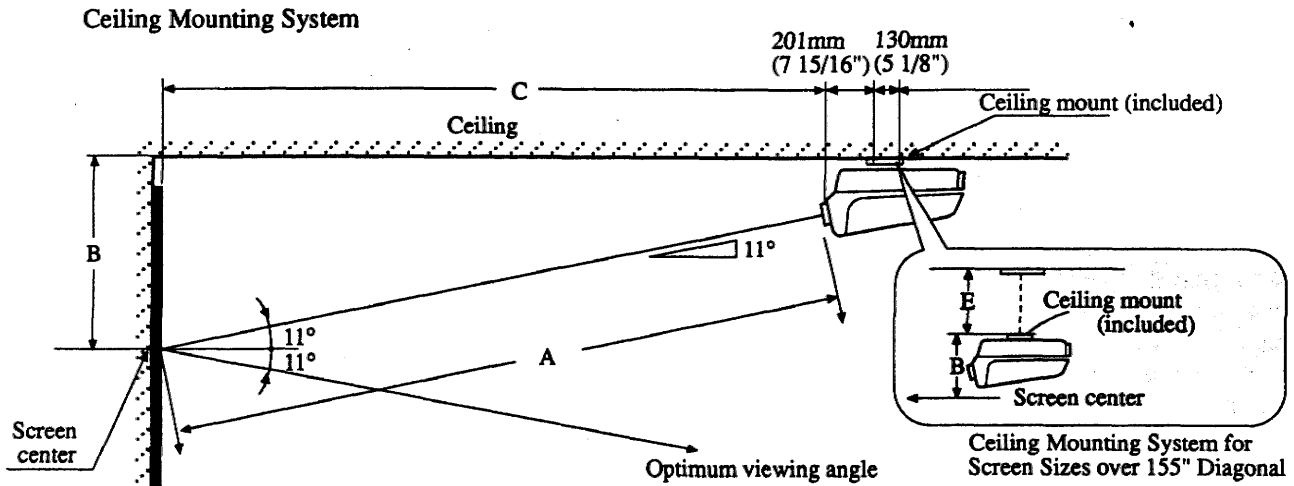
•V-BOW within  $\pm 50\%$

•H-BOW within  $\pm 50\%$

# INSTALLATION SETUP INSTRUCTION

## Projection Distance and Screen Size for Ceiling Mount

- The following shows the relative position relationship of the projector with the screen. See table below.
- See page 21 for ceiling mounting instructions.



- A: Distance between the lens and the screen center
- B: Distance between the top of the supplied ceiling mount bracket and the screen center
- C: Distance between the screen surface and the lens
- E: Distance between the ceiling and the top of the supplied ceiling mount bracket

Screen size H-Width (4:3 Diagonal)		48" (60")	56" (70")	64" (80")	72" (90")	80" (100")	96" (120")	120" (150")	144" (180")	160" (200")	192" (240")	216" (270")	240" (300")
A	inch mm	78 3/8 1990	90 1/8 2288	101 13/16 2585	113 1/2 2882	123 7/16 3135	148 5/8 3775	183 3/4 4667	218 7/8 5559	242 5/16 6154	289 3/16 7344	324 5/16 8236	359 7/16 9129
B	inch mm	25 7/16 645	27 11/16 702	29 7/8 758	32 1/8 815	34 1/16 864	38 13/16 985	45 1/2 1155	52 1/4 1326	56 11/16 1439	65 5/8 1666	72 3/8 1837	79 1/16 2007
C	inch mm	76 15/16 1953	88 7/16 2246	99 15/16 2538	111 7/16 2829	121 3/16 3077	145 15/16 3706	180 3/8 4581	214 7/8 5457	237 7/8 6041	283 7/8 7209	318 5/16 8085	352 13/16 8961
D	inch mm	23 1/16 585	25 5/16 642	27 1/2 698	29 3/4 755	31 11/16 804	36 7/16 925	43 1/8 1095	49 7/8 1266	54 5/16 1379	63 1/4 1606	70 1777	76 11/16 1947
E	inch mm								At least 1 7/8 46	At least 3 2/1 86	At least 6 1/2 163	At least 8 3/4 221	At least 11 5/8 280

**NOTE:**

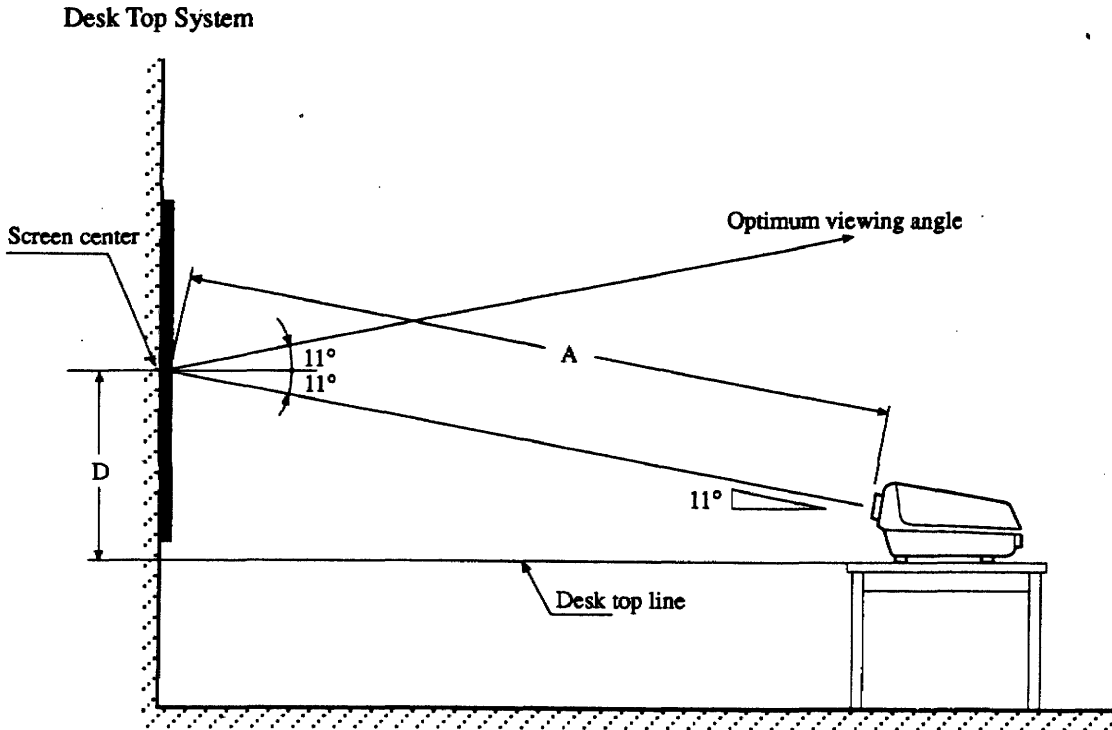
- The projection distance is based on the screen width.
- For screen sizes over 155 inch diagonal, the projector will need to be mounted with an adjustable suspension adaptor at a minimum distance from the ceiling equal to E.
- Sizes not found between 48(60) and 240(300) inches are determined by the following formula.

Units=inches    W"=Screen H-Width  
 $A=(5/18 \times W"+1) \times 5 \ 5/16"$   
 $B=0.191 \times A + 10 \ 7/16"$   
 $C=0.981 \times A$   
 $E=1/2 \times \text{screen height} - B$

Units=mm    W"=Screen H-Width  
 $A=(5/18 \times W"+1) \times 135\text{mm}$   
 $B=0.191 \times A + 265\text{mm}$   
 $C=0.981 \times A$   
 $E=1/2 \times \text{screen height} - B$

## Projection Distance and Screen Size for Desk Top

•The following shows the relative position relationship of the projector with the screen. See table below.



A:Distance between the lens and the screen center  
D:Distance between the desk top and the screen center

Screen size H-Width (4:3 Diagonal)		48" (60")	56" (70")	64" (80")	72" (90")	80" (100")	96" (120")	120" (150")	144" (180")	160" (200")	192" (240")	216" (270")	240" (300")
A	inch mm	78 3/8 1990	90 1/8 2288	101 13/16 2585	113 1/2 2882	123 7/16 3135	148 5/8 3775	183 3/4 4667	218 7/8 5559	242 5/16 6154	289 3/16 7344	324 5/16 8236	359 7/16 9129
D	inch mm	23 1/16 585	25 5/16 642	27 1/2 698	29 3/4 755	31 11/16 804	36 7/16 925	43 1/8 1095	49 7/8 1266	54 5/16 1379	63 1/4 1606	70 1777	76 11/16 1947

**NOTE:**

- The projection distance is based on the screen width.
- Sizes not found between 48(60) and 240(300) inches are determined by the following formula.

Units=inches    W"=Screen H-Width  
 $A=(5/18 \times W" + 1) \times 5 \ 5/16"$   
 $D=0.191 \times A + 8 \ 1/8"$

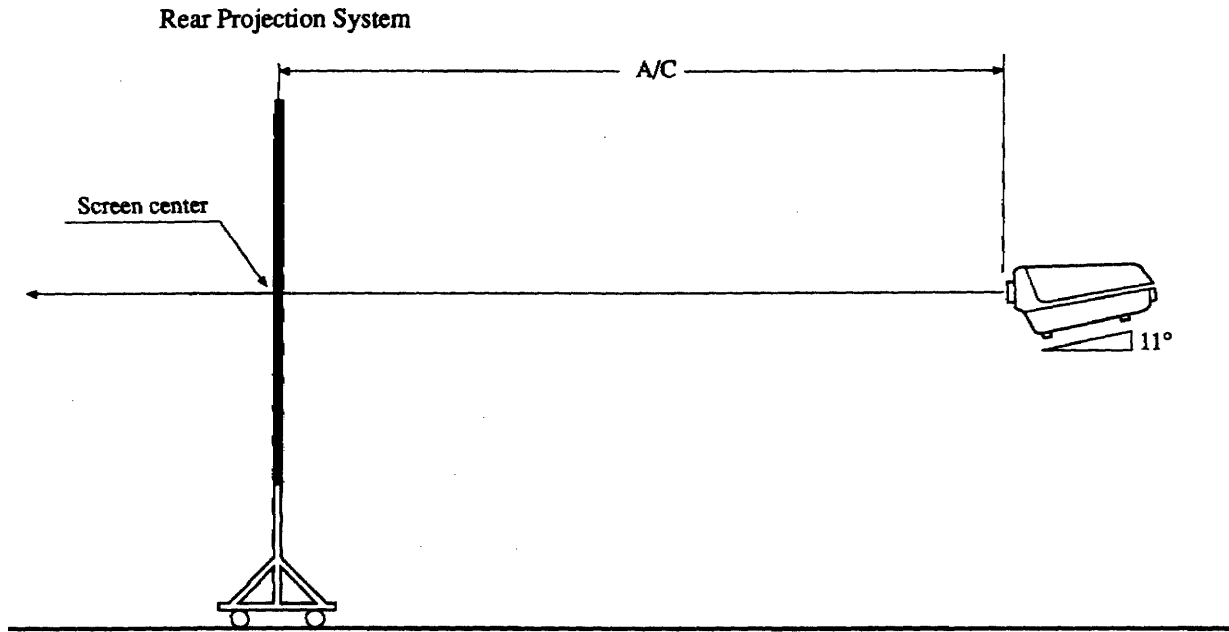
Units=mm    W"=Screen H-Width  
 $A=(5/18 \times W" + 1) \times 135\text{mm}$   
 $D=0.191 \times A + 205\text{mm}$

- When changing from ceiling mounting to desk top use, turn over the plate with the NEC trademark in the rear of the top cover. Push the catch from the inside and remove the plate. Install it in the opposite manner.

# INSTALLATION SETUP INSTRUCTION

## Projection Distance and Screen Size for Rear Projection

The following shows the relative position relationship of the projector with the screen.  
See table below.



A: Distance between the lens and the screen center

Screen size H-Width (4:3 Diagonal)		48" (60")	56" (70")	64" (80")	72" (90")	80" (100")	96" (120")	120" (150")	144" (180")	160" (200")	192" (240")	216" (270")	240" (300")
A/C	inch mm	78 3/8 1990	90 1/8 2288	101 13/16 2585	113 1/2 2882	123 7/16 3135	148 5/8 3775	183 3/4 4667	218 7/8 5559	242 5/16 6154	289 3/16 7344	324 5/16 8236	359 7/16 9129

**NOTE:**

- The projection distance is based on the screen width.
- Sizes not found between 48(60) and 240(300) inches are determined by the following formula.  
 Units=inches    W"=Screen H-Width                      Units=mm    W"=Screen H-Width  
 $A=(5/18 \times W" + 1) \times 5 \ 5/16"$                        $A=(5/18 \times W" + 1) \times 135\text{mm}$

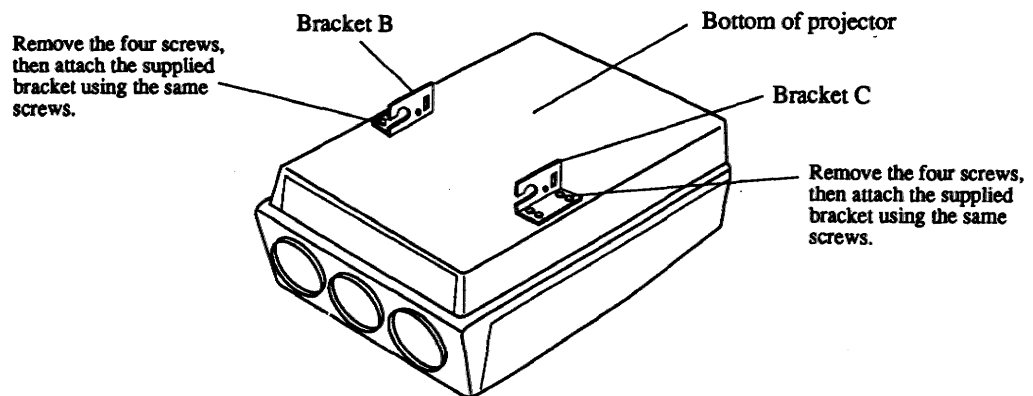
## Ceiling Installation

### NOTE:

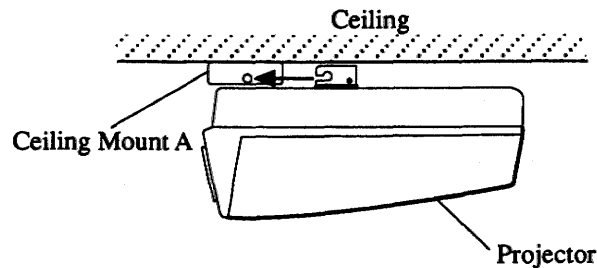
- The ceiling must have sufficient strength to support the projector weight (57 kg/125.7 lbs).
- To assure safety, when a ceiling bracket is installed, be sure to use the supplied ceiling mounting kit. Bolts and nuts must be tightened securely.

To install the projector on the ceiling, proceed as follows:

- ① Determine the relative relationship between the projector and the screen according to the screen size. ( See page 18)
- ② Attach brackets B and C to the bottom of the projector.



- ③ Line up the projector brackets with the protruding section of mount A and slide the projector into place.

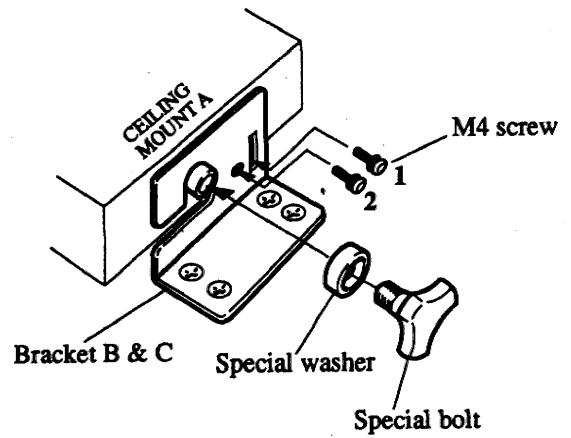


Continued on the next page.

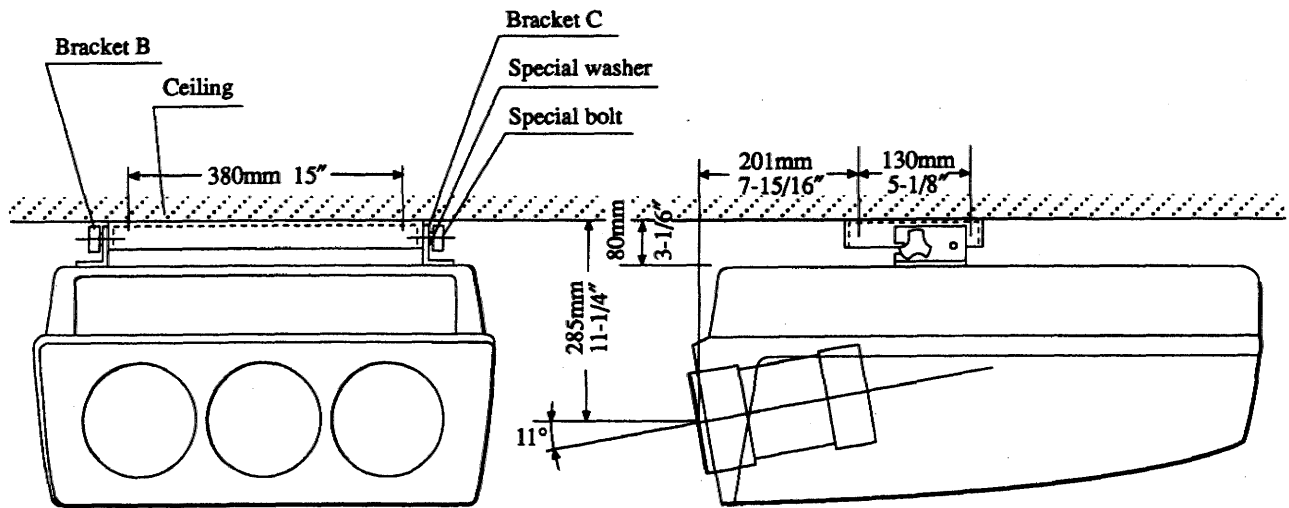
## INSTALLATION SETUP INSTRUCTION

④ Install the special bolt and the M4 screws as shown in the drawing on the right.

- M4 screws are used to adjust the projection angle. If mounting for 11 degree projection angle, the bottom face of the projector is set parallel to the ceiling, attach two M4 screws(1 and 2) to each B and C bracket as shown in the diagram on the right. If setting for other than a 11 degree projection angle, attach only one M4 screw(1) to the outer slot of each B and C bracket.



Drawing for projector attached to ceiling installation position



# PROJECTION CONFIGURATION CHANGE

## Before Installation Change

The projector is electrically and mechanically set for 100 inch diagonal screen, front throw ceiling mount and a projection angle of 11 degrees. If your application is different from the factory setting (for example, ceiling to floor and screen size between 60 and 300 inch), you will have to reconfigure the projector for your application. Follow the change procedures according to the instructions below.

### To change screen size only:

<b>1) Set the focus ring to the proper position.</b>	
For 60" screen size R—A-2, B-2 G—A-1, B-2 B—A-2, B-2	For 200-300" R—A-5, B-5 G—A-1, B-5 B—A-5, B-5
<b>2) Adjust the angle of the CRTs</b>	
For 60" screen size Move the CRT to the 60 position.	For 200-300" Move the CRT to the 200 or 300 position.
<b>3) Adjust the decorative lens panel</b>	
For 60" screen size Adjust to match the 60 position.	For 200-300" Adjust to match the 200 or 300 position.
<b>4) Degauss the projector.</b>	

### To change to the desk top system(front)

<b>1) Reverse the scan</b>	
H—1-Red, 2-Blue V—1-Brown, 2-Yellow A—1-Blue, 2-Red B—1-Brown, 2-Yellow	
<b>2) Set the focus ring to the proper position.</b>	
For 60" screen size R—A-2, B-2 G—A-1, B-2 B—A-2, B-2	For 200-300" R—A-5, B-5 G—A-1, B-5 B—A-5, B-5
<b>3) Adjust the angle of the CRTs</b>	
For 60" screen size Move the CRT to the 60 position.	For 200-300" Move the CRT to the 200 or 300 position.
<b>4) Adjust the decorative lens panel</b>	
For 60" screen size Adjust to match the 60 position.	For 200-300" Adjust to match the 200 or 300 position.
<b>5) Degauss the projector.</b>	



# PROJECTION CONFIGURATION CHANGE

## To change to the ceiling mount system(rear)

<b>1) Reverse the scan</b>	
H—1-Red, 2-Blue V—1-Yellow, 2-Brown A—1-Blue, 2-Red B—1-Yellow, 2-Brown	
▼	
<b>2) Set the focus ring to the proper position.</b>	
For 60" screen size R—A-2, B-2 G—A-1, B-2 B—A-2, B-2	For 200-300" R—A-5, B-5 G—A-1, B-5 B—A-5, B-5
▼	
<b>3) Adjust the angle of the CRTs</b>	
For 60" screen size Move the CRT to the 60 position.	For 200-300" Move the CRT to the 200 or 300 position.
▼	
<b>4) Adjust the decorative lens panel</b>	
For 60" screen size Adjust to match the 60 position.	For 200-300" Adjust to match the 200 or 300 position.
▼	
<b>5) Degauss the projector.</b>	

## To change to the front desk top system (rear, 0 projection angle)

<b>1) Reverse the scan</b>	
H—1-Blue, 2-Red (same as ceiling front type) V—1-Brown, 2-Yellow A—1-Red, 2-Blue B—1-Brown, 2-Yellow	
▼	
<b>2) Set the focus ring to the proper position.</b>	
For 60" screen size R—A-2, B-1 G—A-1, B-1 B—A-2, B-1	For 200-300" R—A-5, B-1 G—A-1, B-1 B—A-5, B-1
▼	
<b>3) Adjust the angle of the CRTs</b>	
For 60" screen size Move the CRT to the 60 position.	For 200-300" Move the CRT to the 200 or 300 position.
▼	
<b>4) Adjust the decorative lens panel</b>	
For 60" screen size Adjust to match the 60 position.	For 200-300" Adjust to match the 200 or 300 position.
▼	
<b>5) Degauss the projector.</b>	

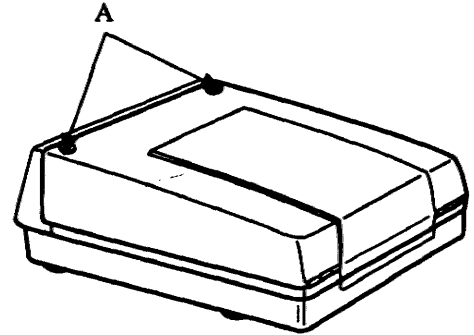
## Opening Top Cover

### NOTE:

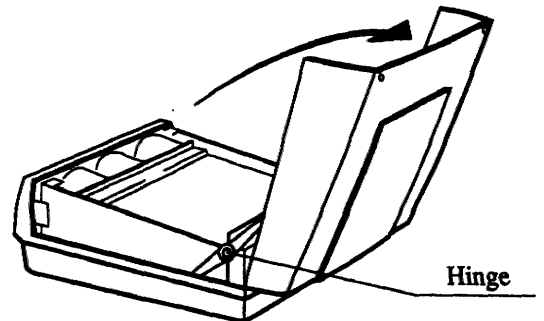
- Be sure to turn off the projector and unplug the power cord before opening the top cover.

To open the top cover, proceed as follows:

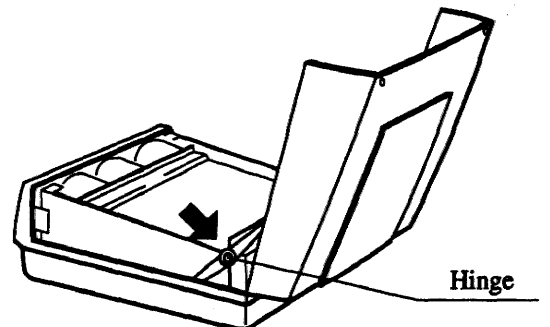
- ① Loosen two screws A.
  - Screws A are a retaining screw.



- ② Raise the top front of the projector in the direction of the arrow.
  - Be sure to open the top cover until the hinges lock.



- ③ To close it, push the hinges in the direction of the arrow, then close the top cover.
- ④ Tighten the two A screws.



# PROJECTION CONFIGURATION CHANGE

## Scan Reversal

You will have to reverse the horizontal, vertical and convergence polarity when changing the projector's configuration.

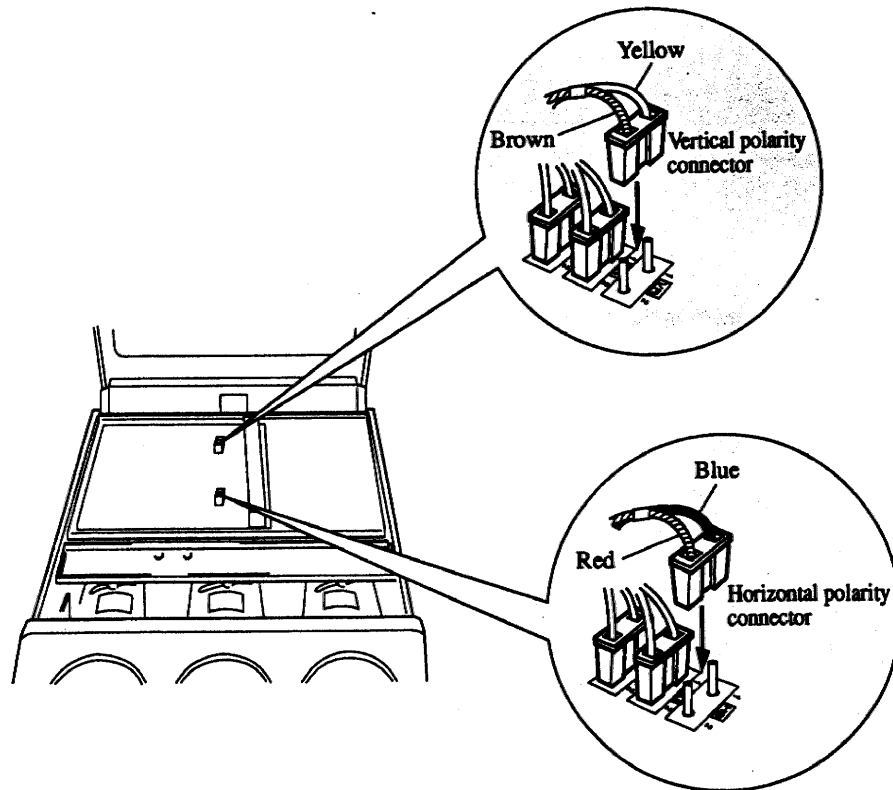
To reverse the scan, proceed as follows:

- ① Open the top cover.
  - See Opening Top Cover section.
- ② Reverse the vertical and horizontal scan.
  - To reverse the scan there are two sets of plugs on the sweep board. VR, VG and VB are the vertical connectors (V=vertical and RGB=color) and HR, HG and HB are the horizontal connectors (H=horizontal and RGB=color). Remove the plug and turn it 180 degrees, then reinstall. Do this for all three of either horizontal or vertical connectors depending upon your application (See Table below)

Connector pin Setting	HR, HG, HB		VR, VG, VB	
	① Lead	② Lead	① Lead	② Lead
Ceiling front	Blue	Red	Yellow	Brown
Desk top front	Red	Blue	Brown	Yellow
Ceiling rear	Red	Blue	Yellow	Brown
Desk top rear	Blue	Red	Brown	Yellow

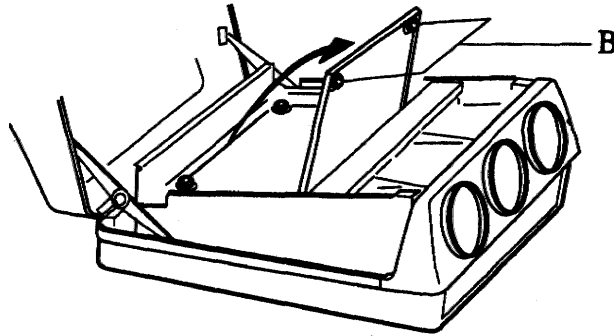
NOTE: The table is for non mirror applications.

### Horizontal and Vertical polarity



## PROJECTION CONFIGURATION CHANGE

- ③ Loosen screw B, then lift the upper chassis(DFC).  
 • Screws B are a retaining screw.

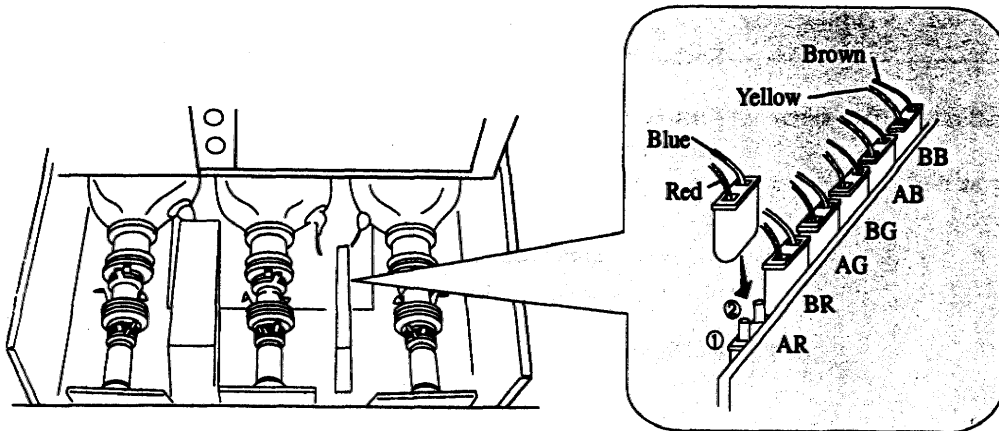


- ④ Reverse the convergence connectors(AR, BR, AG, BG, AB and BB) on CONV-DRIVE.  
 See Table below.

Connector pin / Setting	AR,AG,AB		BR,BG,BB	
	① Lead	② Lead	① Lead	② Lead
Ceiling front	Red	Blue	Yellow	Brown
Desk top front	Blue	Red	Brown	Yellow
Ceiling rear	Blue	Red	Yellow	Brown
Desk top rear	Red	Blue	Brown	Yellow

NOTE: The table is for non mirror applications.

### Convergence polarity change



- ⑤ Close the upper chassis(DFC). Tighten the two screws B.

# PROJECTION CONFIGURATION CHANGE

## Screen Size Change (Adjusting Focus Rings and CRT Angle)

The projector can project an image from 60 to 300 inches diagonal. From the factory the projector is set for ceiling mount, 100 inch diagonal screen size and a projection angle of 11 degrees. The projector can be used in either 11 or zero degree application.

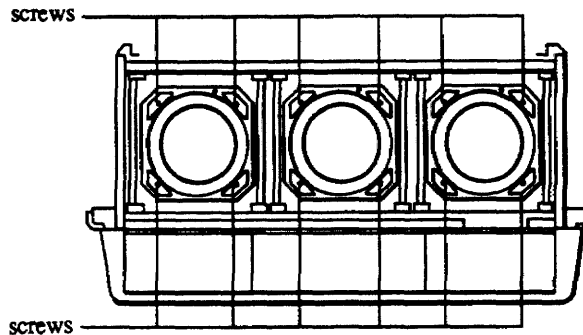
### •Adjusting Focus Rings

There are three sets of adjusting focus rings, two between each CRT and lens. These focus rings are used for maintaining optimum edge focus for the various screen sizes and projection angles.

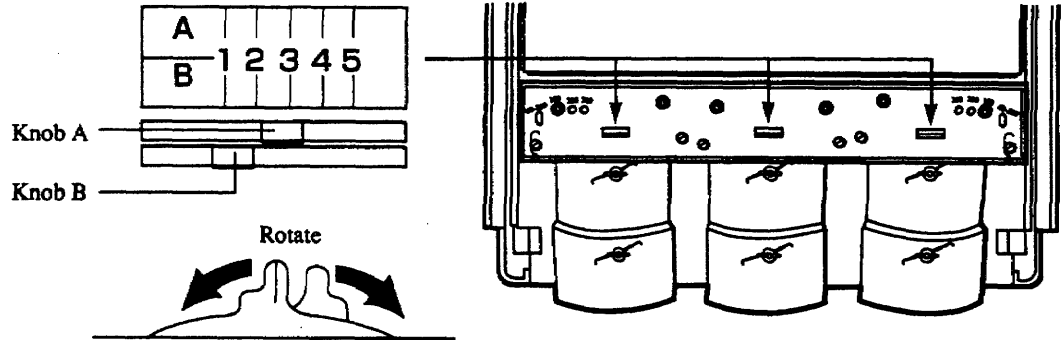
\*When setting the focus rings or changing CRT angle, you must first remove the front panel.

1. Loosen the four screws at the lens.

**CAUTION:** Be careful not to remove any of the four screws completely. A falling lens can cause serious injury especially when the projector is installed on the ceiling.



2. Rotate and set the knobs (A and B) to the right position. The table below lists which position the knob should be set to for any given screen size and angle. The similar table is also on the back of the top cover.



3. Tighten the four screws.

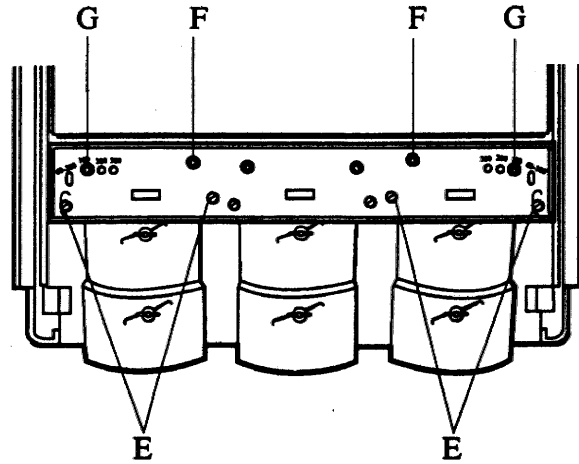
Position of Knobs

Projection angle and screen size	CRT					
	R		G	B		
	Knob A	Knob B	Knob A	Knob B		
11°	60" ~ 90"	2	2	1	2	2
	91" ~ 130"	3	3	1	3	3
	131" ~ 170"	4	4	1	4	4
	171" ~ 300"	5	5	1	5	5
0°	60" ~ 90"	2	1	1	1	2
	91" ~ 130"	3	1	1	1	3
	131" ~ 170"	4	1	1	1	4
	171" ~ 300"	5	1	1	1	5

## PROJECTION CONFIGURATION CHANGE

### •Adjusting Angle of CRTs

To adjust the angle of the CRTs, remove screws G and loosen screws E and F.



Now you can move the tube and lens assembly to one of the three other positions. Then replace screws G and tighten screws E and F. This process needs to be done for the red and blue CRTs. The green CRT is never repositioned. Use the table below to select the proper setting for your screen size.

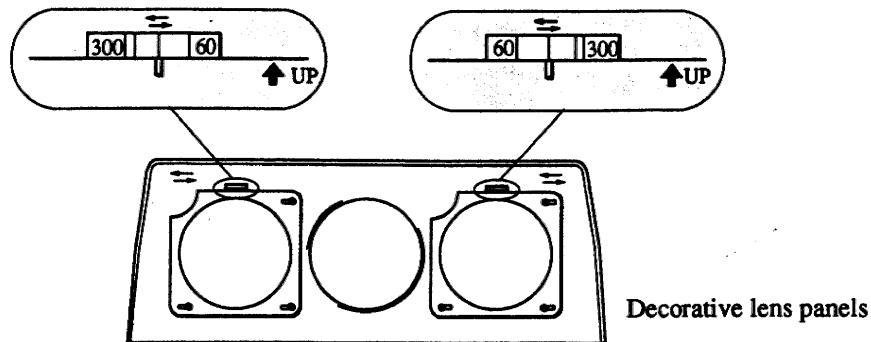
•The threaded hole marked "60-300" is drilled lengthwise so you can move the CRT assembly to any screen size. Adjust the red and blue lens so that the red or blue beam is aligned with the green beam. Then tighten the screws G.

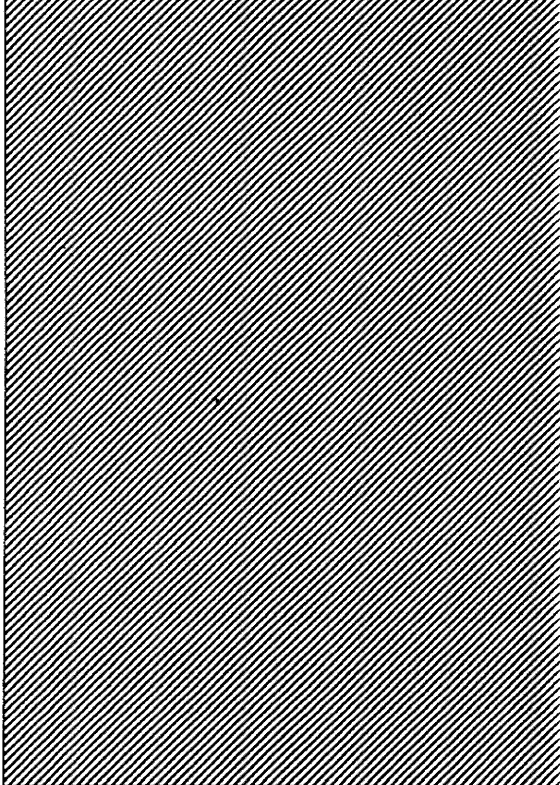
Metal impression stamp screen size	60-300	100	200	300
Range of screen size (diagonal)	60"-300"	100"	200"	300"

Before replacing the front panel adjust the decorative lens panels to match the screen size so that they do not touch the lens barrels or interfere with the normal operations of the lens.

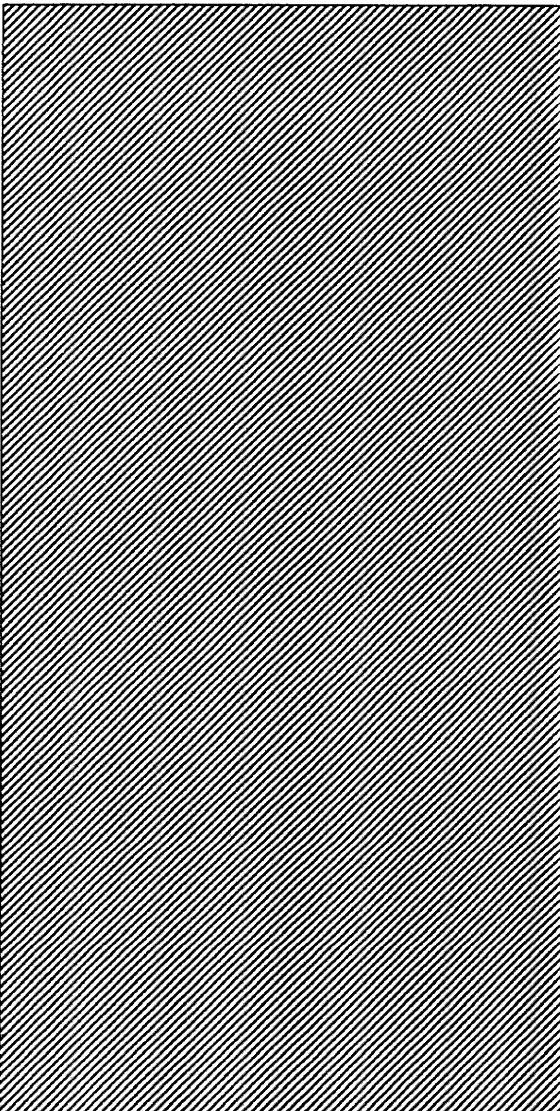
Loosen the screws at the three points on the two left and right decorative lens panels, then slide the panels to match the screen size.

•Tighten the three screws after completing the above procedures.





# Setup



## Setup

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.

<b>CONTENTS</b>	
Before Setup .....	32
Signal Entry .....	36
Adjustment .....	50
Setting .....	83





# BEFORE SETUP

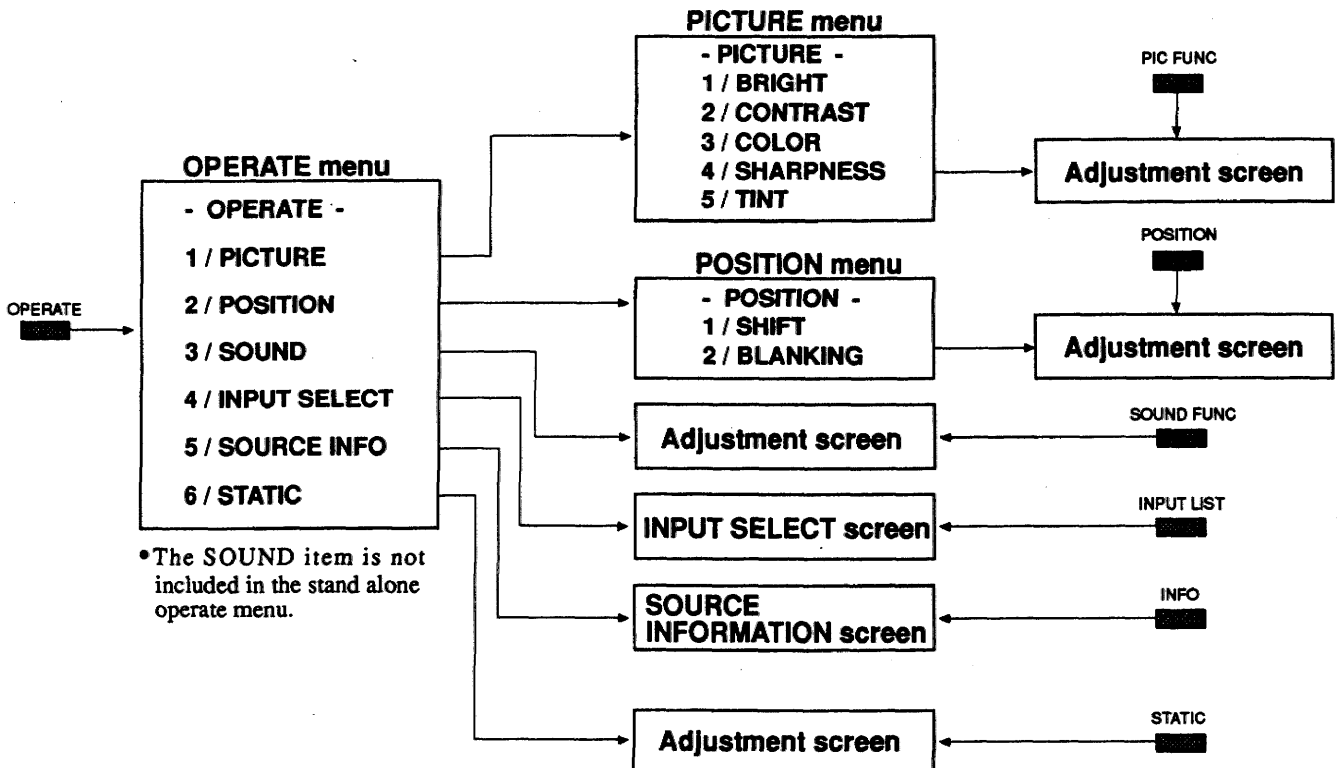
## Displaying the Menu and Adjustment Screens

Access of all functions is done through the menu system.

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

■ **OPERATE menu** (Refer to pages 11-22 of the User's Manual for more information about the OPERATE menu.)

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

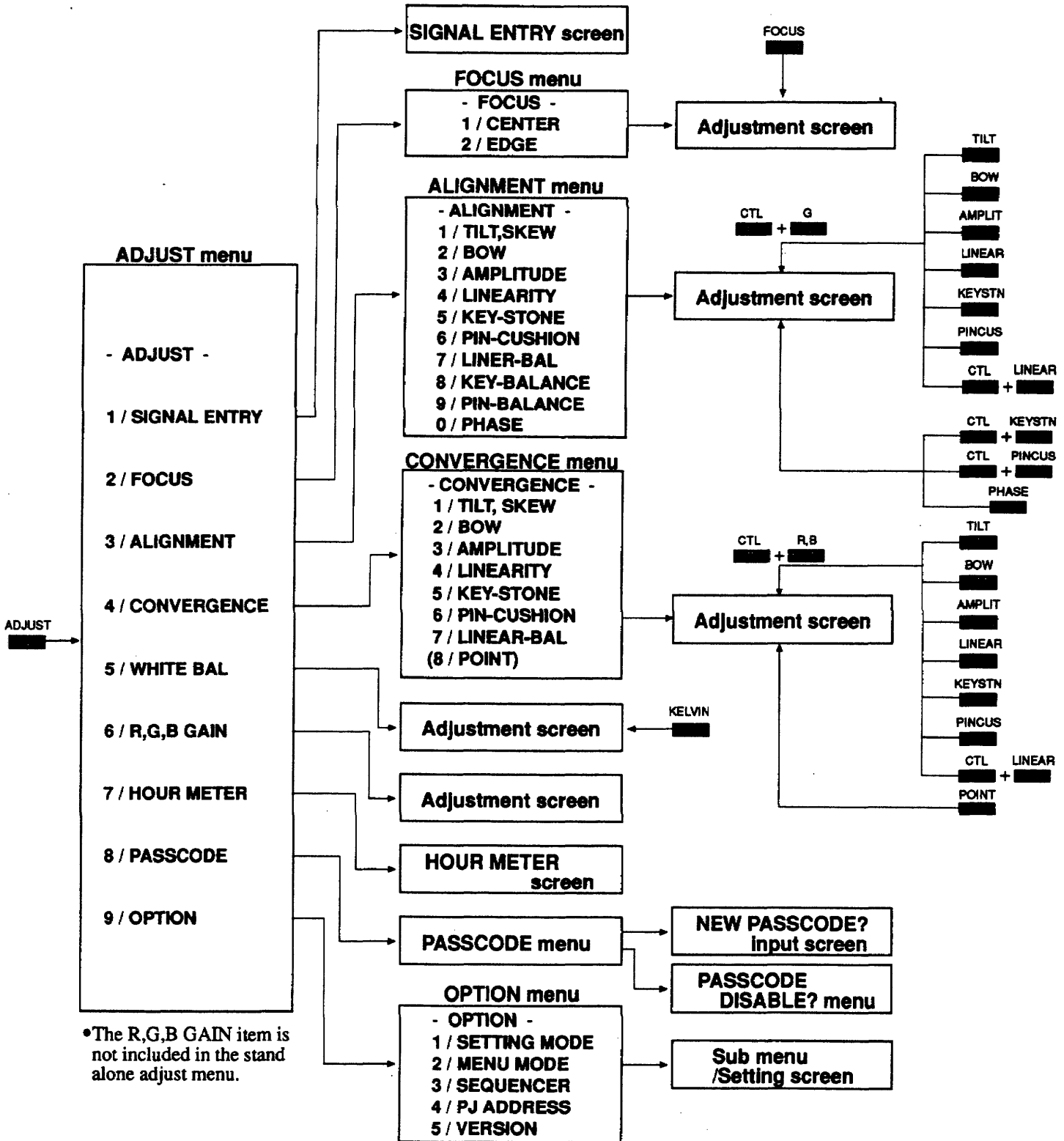


•The PIC FUNC, POSITION, SOUND FUNC, INPUT LIST, and INFO buttons are on the full function remote control only.

**NOTE:** The OPERATE or the ADJUST menu cannot be accessed when the picture is muted.

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

## BEFORE SETUP

### On ADJUST MODE

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

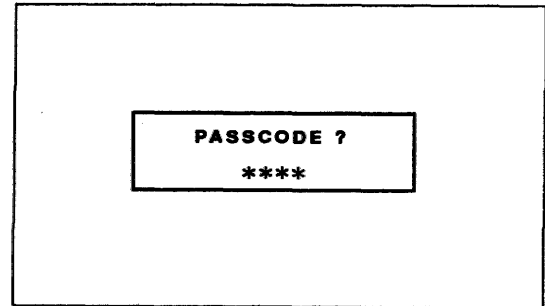
- ① Press the ADJUST button.
  - The projector may ask for your passcode.
- ② Enter your registered passcode.

**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 76 through 82.

**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".





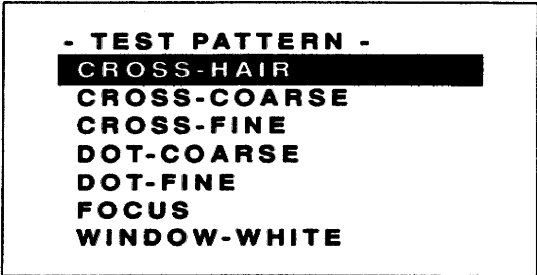
Service Passcode  
is 2580 - BUT - must  
be in passcode mode first.  
Therefore, you must register  
a passcode. If one exists, you  
can delete it with service  
code.

**Test Pattern**

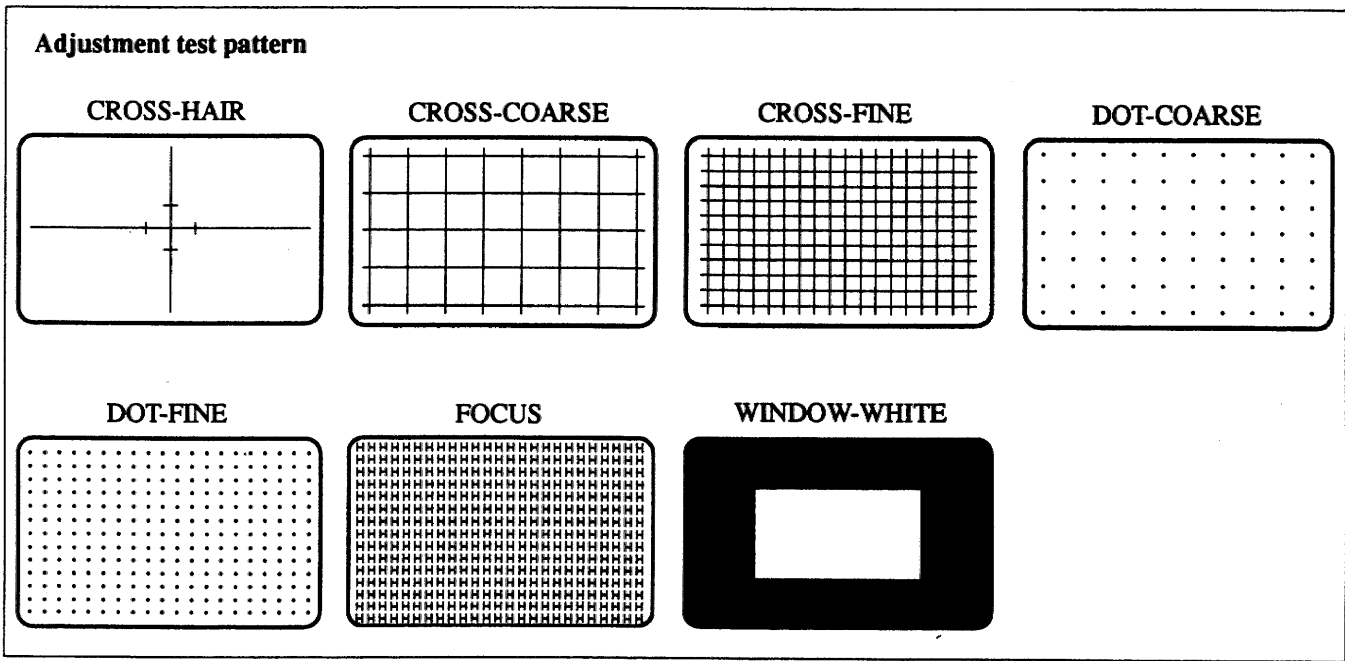
This projector will generate a selection of test signals. Seven kinds of internal test patterns can be selected from the TEST PATTERN menu.

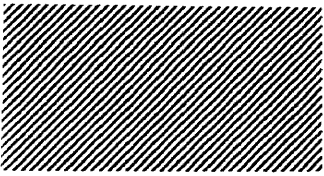
To display the TEST PATTERN menu, proceed as follows:

- 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.



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





# 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 recorded into the micro-processor beforehand to ensure the video signals are recognized and adjusted to optimum quality.

The Signal Entry records 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 record the video signals before making any adjustments. If the current input signal(s) has not been registered, the "CHECK INPUT LIST" 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 record 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.

- 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:** When a vacant line is selected, the Input terminal menu ("VIDEO/RGB" on standalone mode, the "MASTER" menu on SW1 level mode and the "MASTER" and "SLAVE" menus on SW2 level mode) will be displayed instead of the Signal entry menu.

**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.

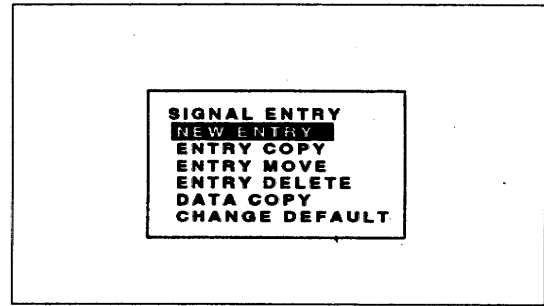
- ADJUST -
1 SIGNAL ENTRY
2 / FOCUS
3 / ALIGNMENT
4 / CONVERGENCE
5 / WHITE BAL
6 / R,G,B GAIN
7 / HOUR METER
8 / PASSCODE
9 / OPTION

P01	SIGNAL ENTRY		
ISS-6010	SW 2 LEVEL		
NO	INPUT	NAME	DATE
01	M-01 S-01	VTR-1	12/01/92
02	M-01 S-02	VTR-2	12/03/92
03	M-01 S-03	VIDEO-1	12/11/92
04	M-01 S-04	VTR-3	12/24/92
05	M-01 S-05	RGB-1	12/25/92
06			
07			
08			
09			
10			

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

**Items to select**

- NEW ENTRY -----Registers a new signal.
- ENTRY COPY -----Copies any registered signal entry to another line.
- ENTRY MOVE -----Move any registered signal entry to another line.
- 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.



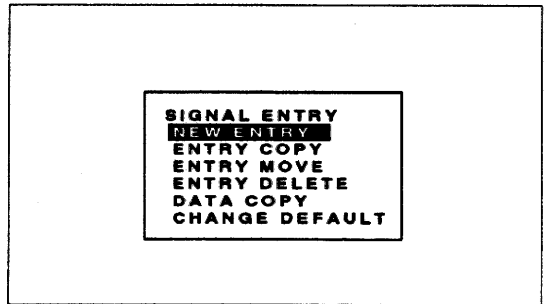
- The Input terminal menu will be displayed.

**■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.



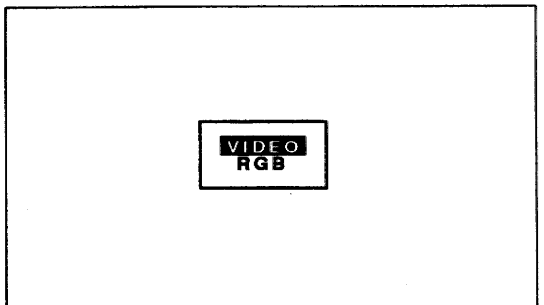
**When using the projector in stand alone application:**

Use the CURSOR  or  button to select either "VIDEO" or "RGB" 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

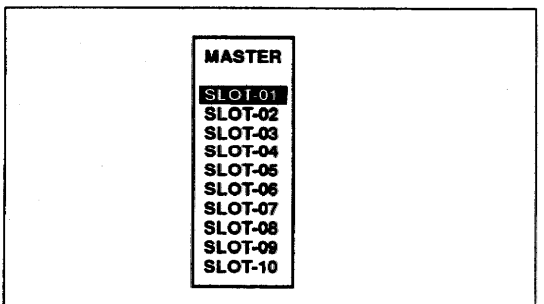


- Go on to Step 2).

**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).



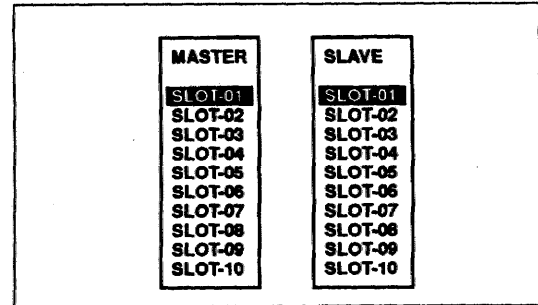
**Continued on the next page.**


## SIGNAL ENTRY

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

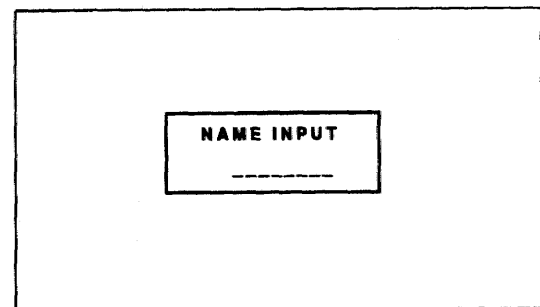
Use the CURSOR  or  button to select the input slot number of the master Switcher and press ENTER. Then select the slot number of the slave Switcher and press ENTER.

- 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 moving the cursor with the CURSOR  button. After finishing the selection of the characters, press ENTER.

- Up to eight characteres 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 -

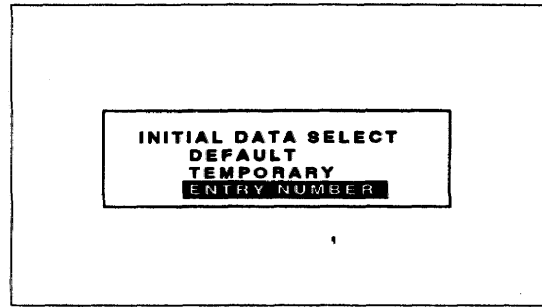
- If you have made an error in the input of a character, use the CURSOR  button and enter the correct letter or number.  
To delete one character, move the CURSOR  button to the character to be deleted and then press the NORMAL button.  
To delete all the entered name, hold down the CTL button then press 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 ? TO 01" 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 44.



P01 SIGNAL ENTRY

ISS-6010 SW 2 LEVEL

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

DATA COPY ? TO 01

SOURCE INFORMATION

M-01 S-01	NAME	LOCK
	*****	OFF
FREQUENCY	SYNC DETECT	
fh = ***.KHz	AUTO	COMP.
fv = *** Hz		
SYNC	COLOR TEMP	AKB
HD (+) VD (+)	3200K	ON
VIDEO MODE	COUNTER	TIMER
NTSC 3.58	*****	*****
	ASTIG	DEFAULT



# SIGNAL ENTRY

## ■ When selecting "ENTRY COPY"

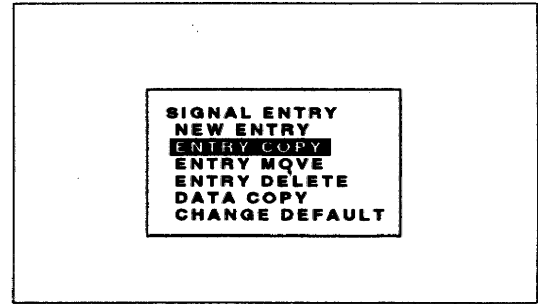
You can copy the signal from one input that has already been registered to another line.  
To do this, proceed as follows:

- 1) Use the CURSOR  or  button to select "ENTRY COPY" and then press ENTER.
  - The "ENTRY COPY 01 TO ?" message is displayed at the left bottom of the screen.

- 2) Use the CURSOR  or  button to select a line you wish to copy to and then press ENTER.
  - When there is already a registered signal in the line you wish to copy to, the "ENTRY DATA OVERWRITE?" prompt is displayed. Use the CURSOR  or  button to select "YES/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

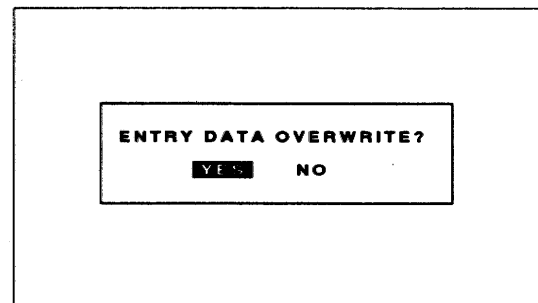
- YES ----- Overwrites the selected signal that has already been registered.
- NO ----- Stops the procedure.



P01 SIGNAL ENTRY  
ISS-6010 SW 2 LEVEL

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

ENTRY COPY 01 TO ?



## ■ When selecting "ENTRY MOVE"

To move a signal that has already been registered from one line to another, proceed as follows:

1) Use the CURSOR  or  button to select "ENTRY MOVE" and then press ENTER.

- The "ENTRY MOVE 01 TO ?" message will be displayed at the left bottom of the screen.

2) Use the CURSOR  or  button to select the line you wish to move to and then press ENTER.

- When there is already a registered signal in the line you wish to move to, the "ENTRY DATA OVERWRITE?" prompt is displayed. Use the CURSOR  or  button to select "YES/NO" and then press ENTER.

- When the "ENTRY MOVE END" message is 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 the procedure

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
01	M-01 S-01	VTR-1	12/01/90
02	M-01 S-02	VTR-2	12/03/90
03	M-01 S-03	VIDEO-1	12/11/90
04	M-01 S-04	VTR-3	12/24/90
05	M-01 S-05	RGB-1	12/25/90
06	M-01 S-06	VIDEO-2	12/30/90
07	M-01 S-07	VIDEO-3	12/31/90
08	M-01 S-08	NTSC	01/15/91
09	M-01 S-09	PAL	01/16/91
10	M-01 S-10	SECAM	01/29/91

ENTRY MOVE 01 TO ?

ENTRY DATA OVERWRITE?  
 YES     NO

## ■ When selecting "ENTRY DELETE"

To delete a signal that has already been registered from the "SIGNAL ENTRY" list, 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

SELECT LINE DELETE?  
 YES     NO

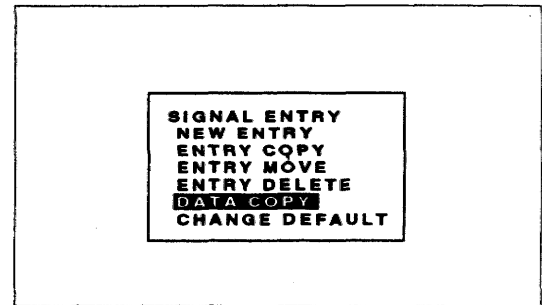
## SIGNAL ENTRY

### ■ 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 01 TO ?" 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.
  - When "GAIN DATA COPY END" message is displayed, this completes the DATA COPY mode.
  - The "SIGNAL ENTRY" list will be displayed. Go on to Step ⑤.



A screenshot of a screen titled "P01 SIGNAL ENTRY" and "ISS-6010 SW 2 LEVEL". It displays a table of signal inputs with columns for NO, INPUT, NAME, and DATE. The table lists 10 inputs, with the first row highlighted. Below the table, the text "DATA COPY 01 TO ?" is displayed.

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

### ■ When selecting "CHANGE DEFAULT"

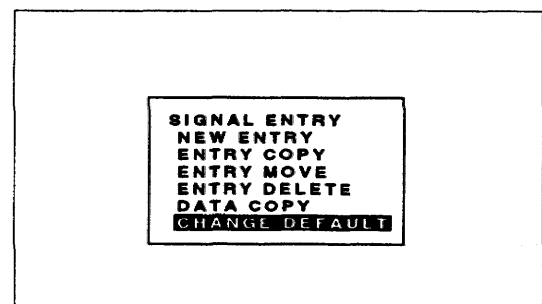
All of the adjustment data of the selected signal will be stored in the DEFAULT AREA.

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.

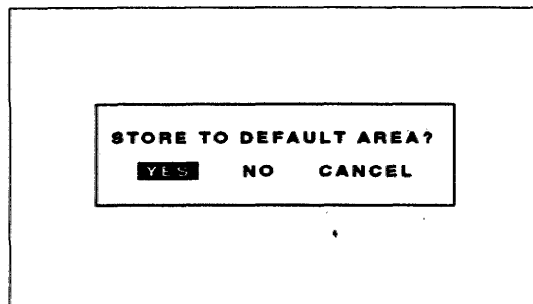


2) Use the CURSOR  or  button to select an item and press ENTER.

**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.

- If the "SIGNAL ENTRY" list is displayed, this completes the CHANGE DEFAULT mode.
- To end the "SIGNAL ENTRY" list, go on to Step ⑤.

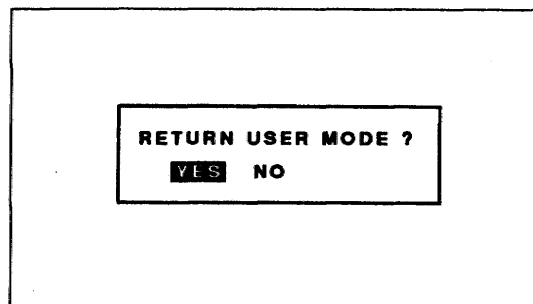


⑤ To complete the signal entry, press the END button.

- 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 .

**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 76 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.

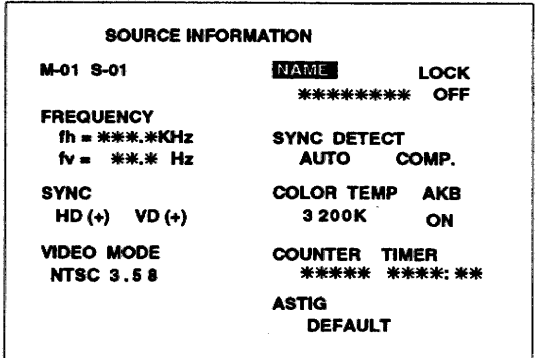
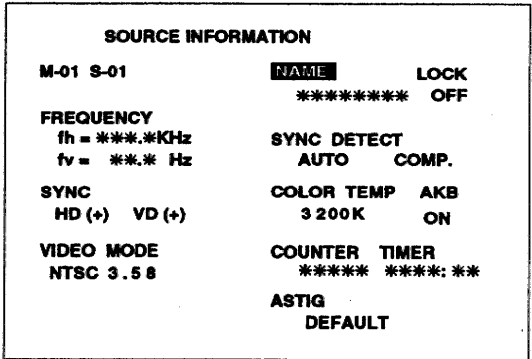
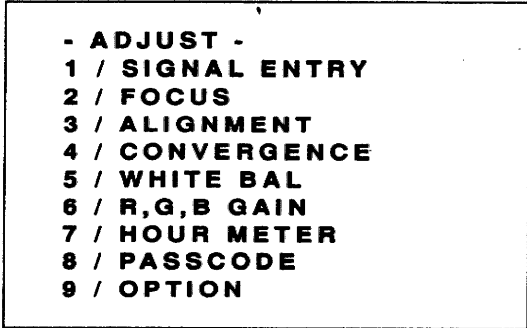
- 3) Check and / or set the various parameters of the signal currently projected.  
The menu items you can modify are NAME, LOCK, SYNC DETECT, COLOR TEMP, AKB ON/OFF, COUNTER, TIMER, and ASTIG. See the following pages for an explanation of each setting.


### ■ Setting "NAME"


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


To do this, proceed as follows:

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



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

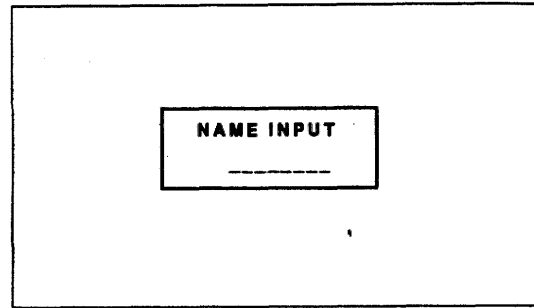
- If you have made an error, use the CURSOR  button and re-enter the correct letter or number.

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 the NORMAL button.

- The above is the same procedure of the signal entry. See page 38 for more details.

- The screen will return to the "SOURCE INFORMATION" screen.



## ■ 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.

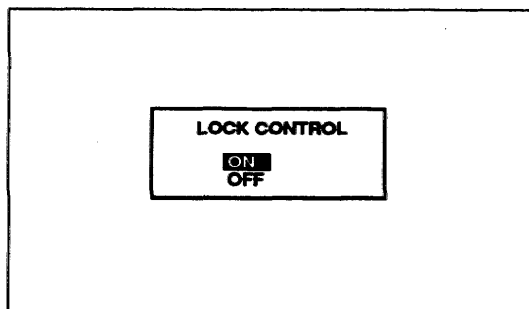
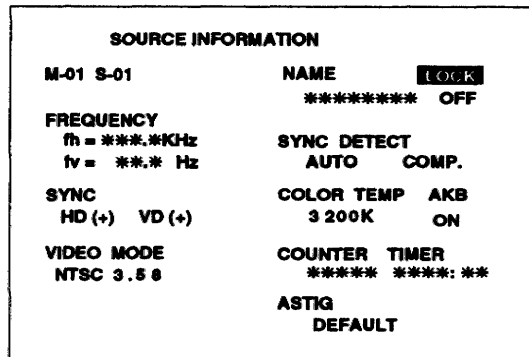
1) Use the CURSOR buttons to select "LOCK" and press ENTER.

- 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.



### Items to select

- YES ----- Deactivates the projector's automatic signal discrimination of RGB signals.
- NO ----- Activates the projector's automatic signal discrimination of RGB signals.

# SIGNAL ENTRY

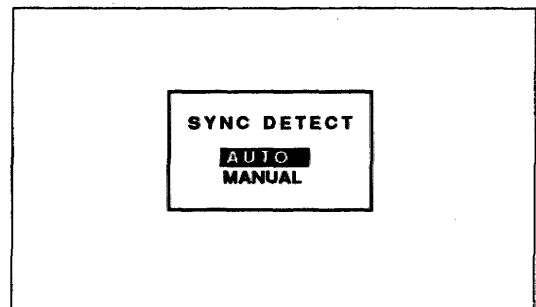
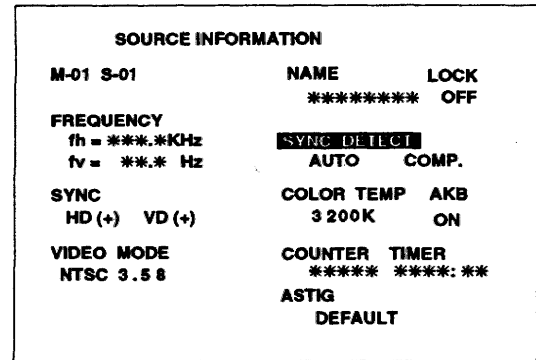
## ■Setting "SYNC DETECT"

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 then 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.



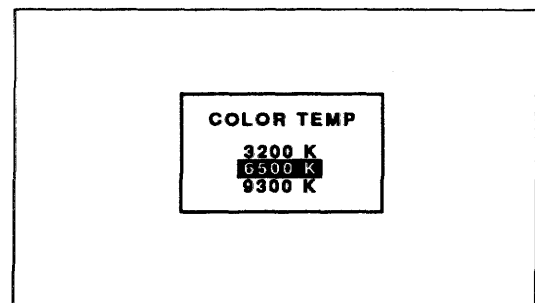
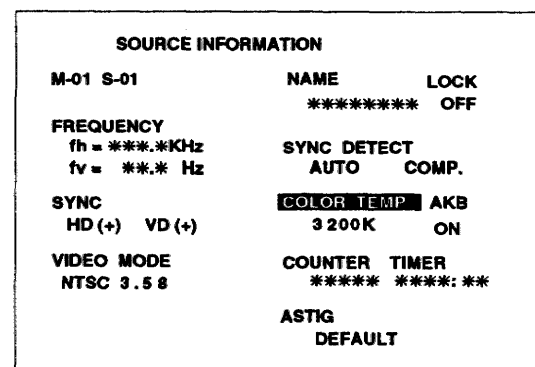
## ■Setting "COLOR TEMP"

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 ----- Reddish-Tungsten film photography
- 6500 K ----- Normal white-VIDEO images
- 9300 K ----- Bluish white-Computer images

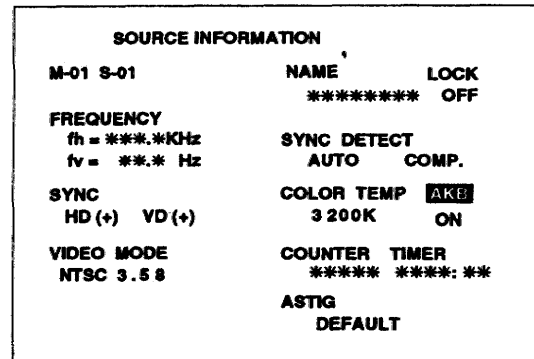


**■ Setting "AKB"**

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.

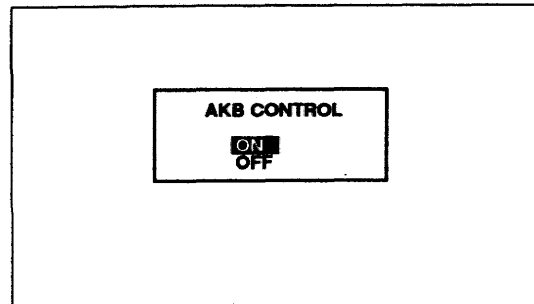


2) Use the CURSOR  or  button to select either "ON" or "OFF" and then press ENTER.

- 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.



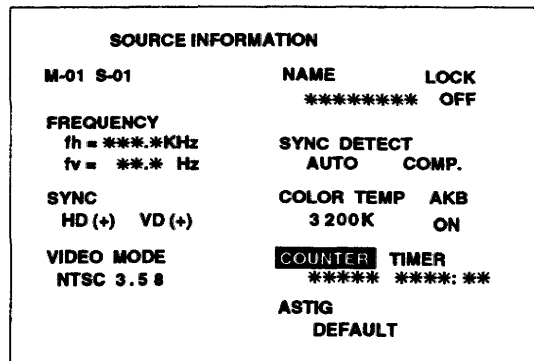
**■ Setting "COUNTER"**

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.

Continued on the next page.

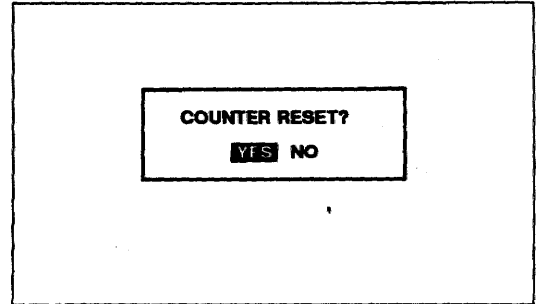




## SIGNAL ENTRY

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.

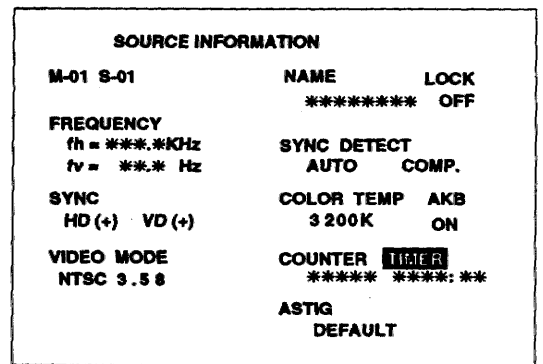


### ■ Setting "TIMER"

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

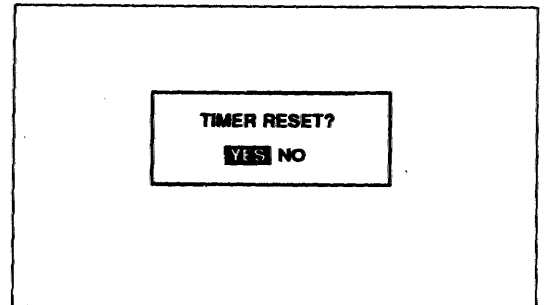
1) Use the CURSOR buttons to select "TIMER" and then press ENTER.

- The "TIMER RESET ?" screen will be displayed.



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.

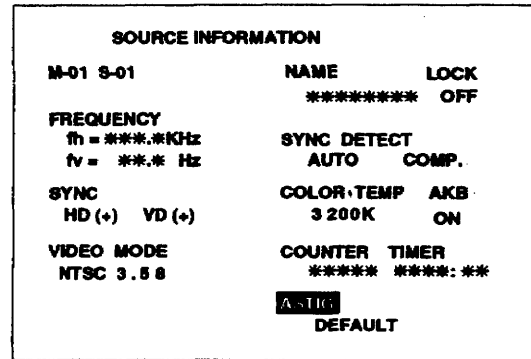


## ■ Setting "ASTIG"

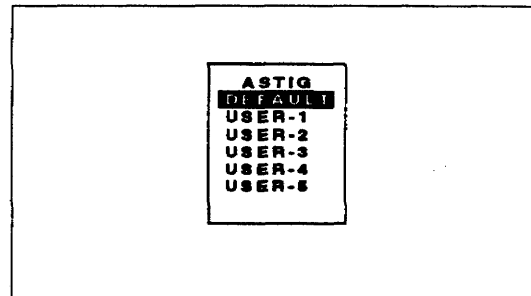
This function is used to set memory space that is used for ASTIG data storage.

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

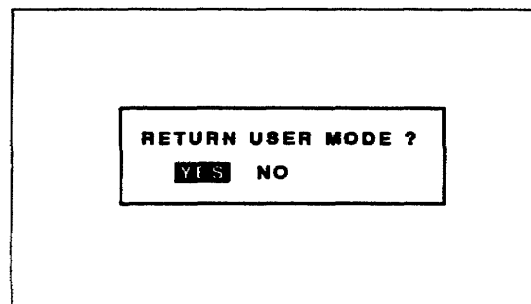
- 1) Use the CURSOR buttons to select "ASTIG" and then press ENTER.
  - The ASTIG memory area menu is displayed.



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



- 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.



**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.

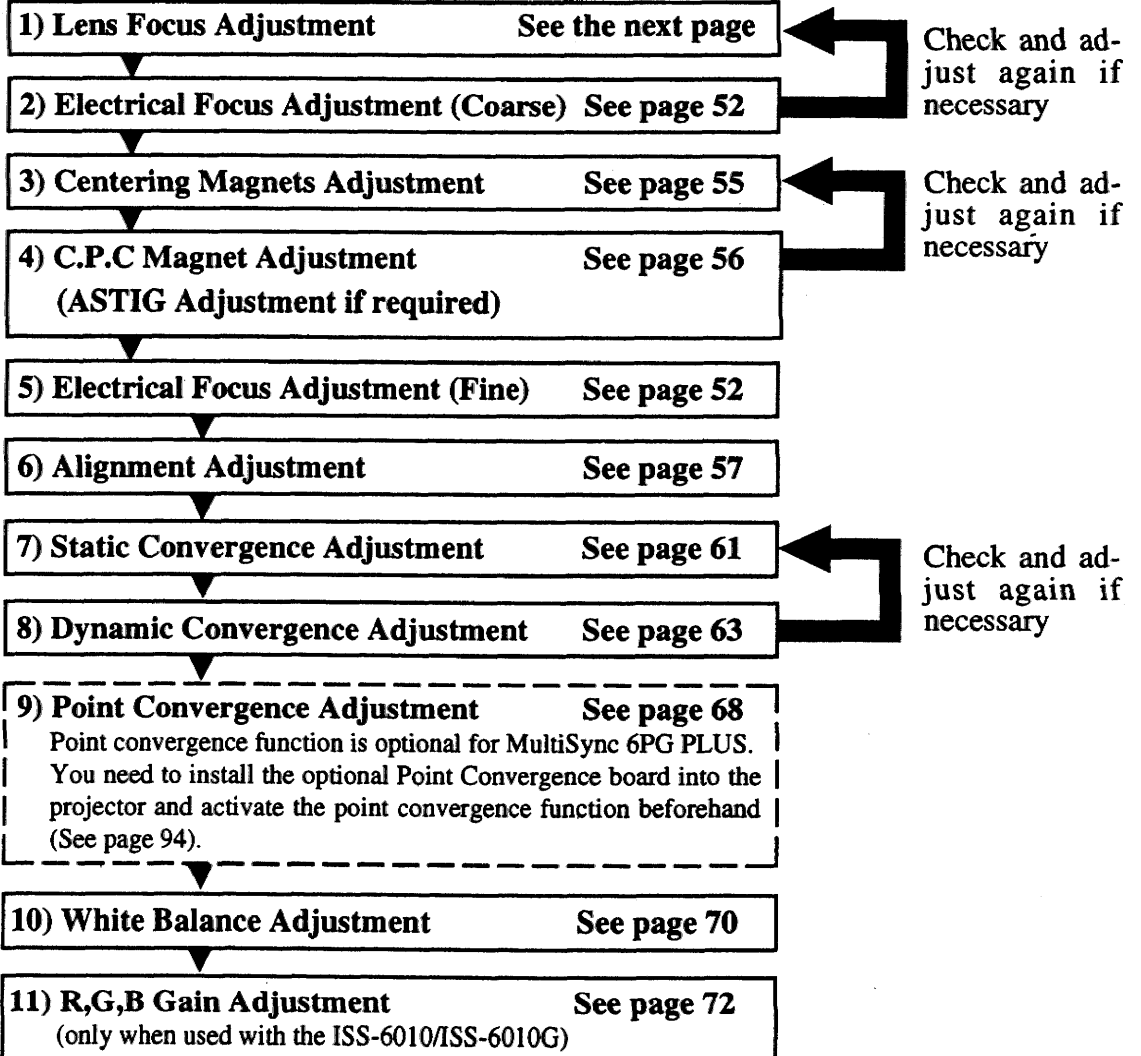
# ADJUSTMENT

## Setup Procedure

### Before adjusting

- ① Installation of the projector. (See pages 16 to 29)
  - 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 from Step 5).
- ② Connect to the external equipment.
- ③ Turn on the external equipment power.
  - 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 36.

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 pressed correctly, an error message will appear.

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

## Lens Focus Adjustment

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

### NOTE:

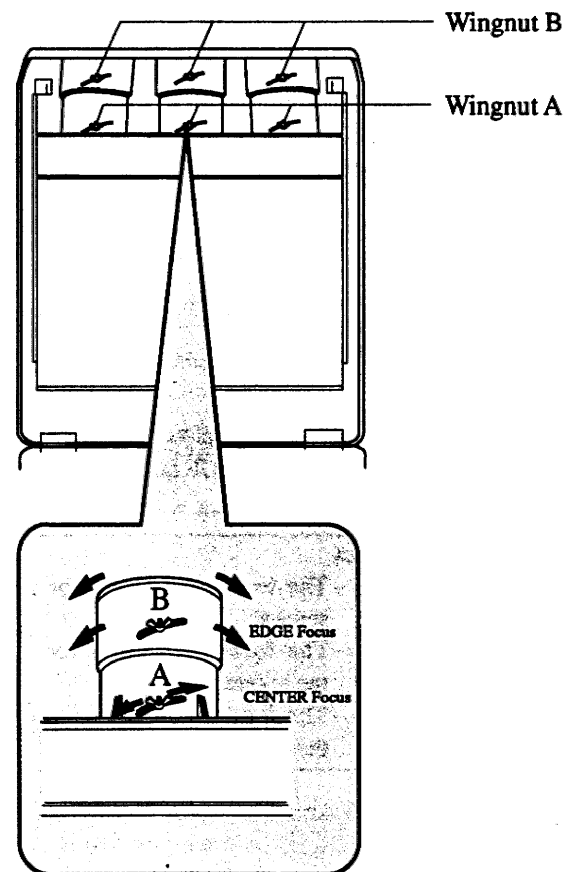
- The lens focus adjustment must be performed for each lens.
- Select the FOCUS test pattern using the TEST button on the full function remote control.

Proceed as follows:

- ① Press the R, G, B button to project the CRT beam to be adjusted.
  - You can turn on or off each CRT beam (R,G and B) separately.
- ② Adjust the CENTER focus.
  - Loosen the wing nut A. Rotate the lens using the wing nut A until the center of the screen is in focus. When you get the best center focus, tighten the wing nut A.

**NOTE:** Do not over-tighten the wing nut.

- ③ Adjust the EDGE focus.
  - Loosen the wing nut B. Rotate the lens barrel until the edge area of the screen is focused. Tighten the wing nut B.
- ④ Recheck center focus.
  - If it is out of focus, repeat steps ② and ③.
- ⑤ Repeat steps ① to ④ for the other CRTs.



# 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 76 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 96.)

### 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 or 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 +  ----- D (Down)


CTL +  ----- R (Right)

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:

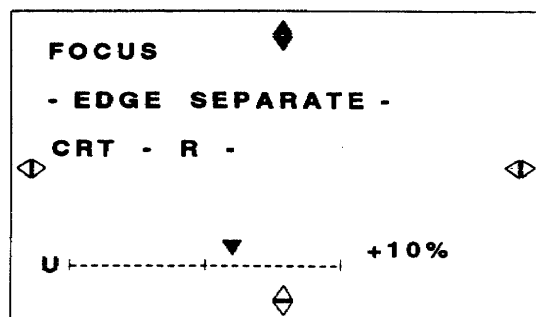
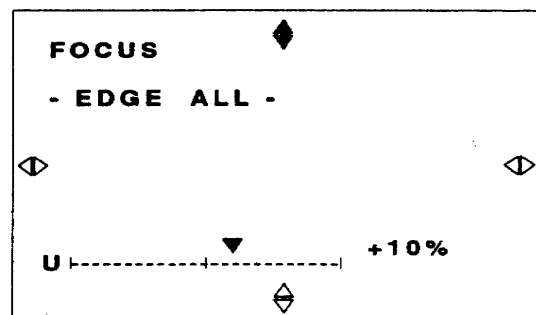
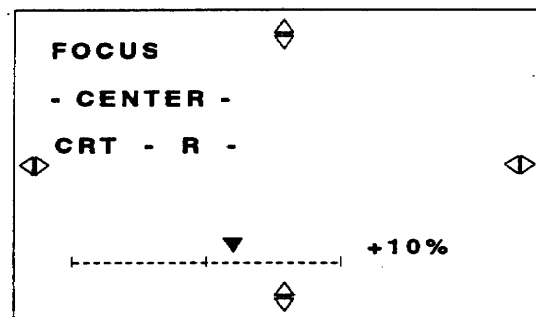
press and hold CTL, then press CURSOR . Therefore you need to press them twice to change to the EDGE DOWN adjustment.

- ⑦ Repeat steps ④ to ⑥ for the other CRTs if necessary.

- ⑧ To end this adjustment, press the END button to display the "STORE ?" menu.

- Whenever the END button is pressed, the menu will sequence in this order:

"FOCUS" menu → "ADJUST" menu → "STORE?" menu



Continued on the next page.

## ADJUSTMENT



- ⑨ Use the CURSOR  or  button to select either "YES" or "NO" and then press ENTER.

- To exit this mode without storing the current settings, select "NO".

### Items to select

- YES --- The data will be stored
- NO ---- The data will not be stored

**NOTE:** If the focus adjustments have not been changed, the "STORE ?" menu will not be displayed.

- 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.

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

**NOTE:** Prior to this adjustment, the C.P.C magnet adjustment must be done.

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.

- 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 to a solid color.)


CTL+  ----- U(Up)

CTL+  ----- D(Down)

CTL+  ----- R(Right)

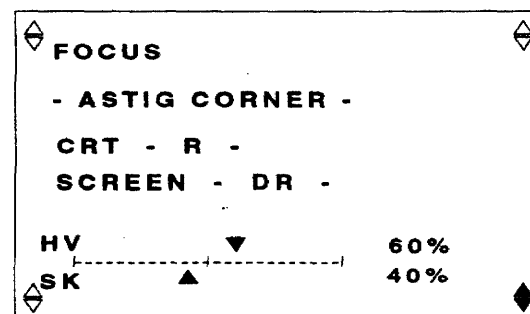
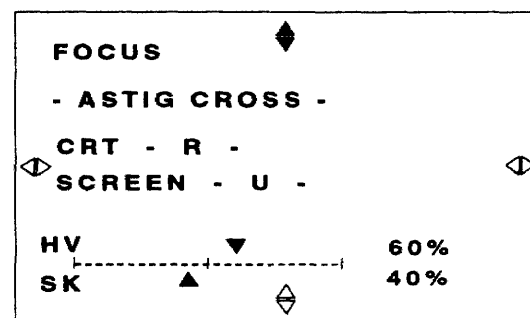
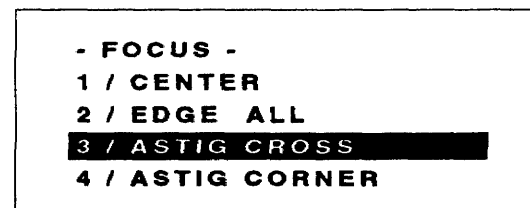
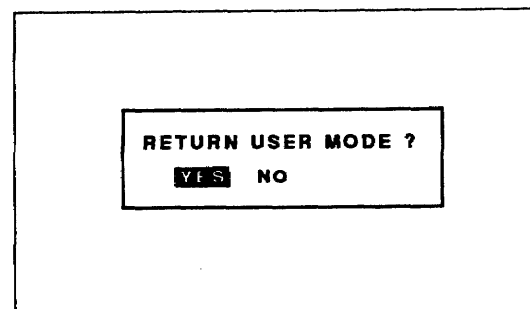
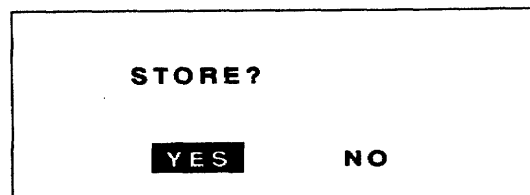
CTL+  ----- L(Left)

 ----- 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.

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



## Centering Magnet Adjustment

The centering magnets are an important adjustment to avoid any convergence drift or static convergence problems. These magnets are located on each of the CRTs and are part of the deflection yokes.

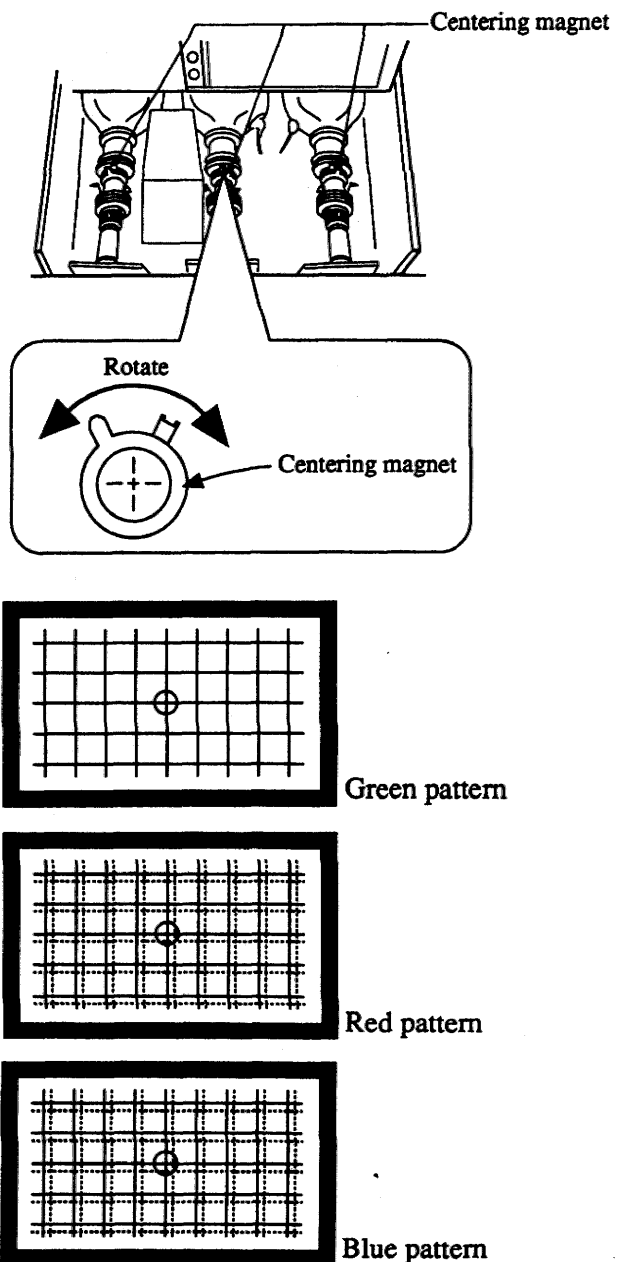
**NOTE:**

- Select the **STATIC** mode by pressing the **STATIC** button on the full function remote control, then cancel the **STATIC** convergence data for all of the CRTs.  
To cancel the static data, select "**LOAD/CANCEL**" menu by pressing and holding the **CTL** button then pressing the **NORMAL** button. Select "**CANCEL**" then "**YES**" with the **CURSOR** button. Press **ENTER** to execute the **CANCEL** function.
- The centering magnet adjustment should be performed for each CRT separately.
- Select the **CROSS-COARSE** test pattern using the **TEST** button on the full function remote control.

Proceed as follows:

- ① Project the Green pattern using the R, G and B buttons.
  - You can turn on or off each CRT beam (R, G and B) separately.
- ② Align the center of the Green pattern with the center of the screen using the centering magnet of the Green CRT.
- ③ Project the Red pattern by pressing the R button.
- ④ Align the center of the Red pattern with the center of the Green pattern by rotating the centering magnet of the Red CRT.
- ⑤ Project the Blue pattern by pressing the B button.
- ⑥ Align the center of the Blue pattern with the center of the Green pattern by rotating the centering magnet of the Blue CRT.

**NOTE:** Adjusting the centering magnet may cause the electrical focus adjustments to change. Recheck the electrical focus.





## ADJUSTMENT

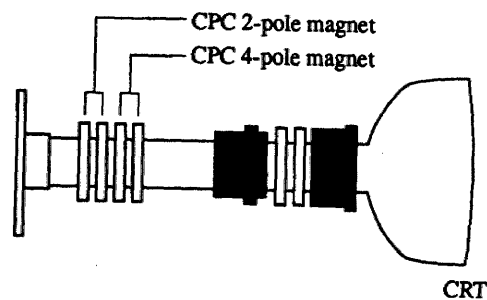
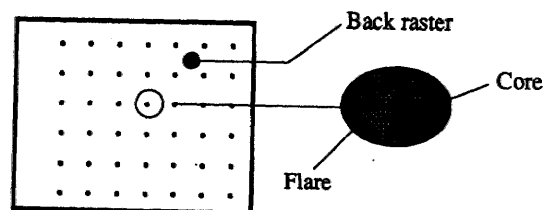
### C.P.C Magnet Adjustment

#### NOTE:

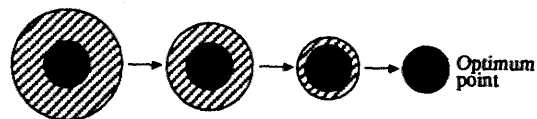
- The C.P.C magnet adjustment should be performed for each CRT separately only if you cannot obtain a good electrical focus for that CRT.
- Select the DOT-COARSE test pattern using the TEST button on the full function remote control.

Proceed as follows:

- ① Press the R, G or B button to project the CRT beam to be adjusted.
  - You can turn on or off each CRT beam (R, G and B) separately.
- ② Adjust the focus control so the flare appears around the spot.
  - See page 52 for the electrical focus adjustment.
  - Adjust to darken the back raster, if necessary.
- ③ Adjust the 2-pole magnet to produce a core at the center of the flare.  
Adjust the 4-pole magnet so the flare forms a circular shape.



- ④ Adjust the focus control to make the flare disappear from the spot. Note that you should be sure to make the flare disappear by degrees.



**NOTE:** When the C.P.C. magnet adjustment has been done, the adjustment of the centering magnet, the ASTIG adjustment, and the electrical focus is slightly changed. If this happens, repeat the steps described on the centering, the electrical focus and the ASTIG adjustments.

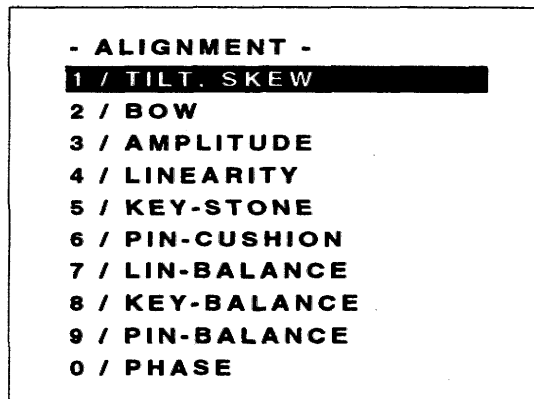
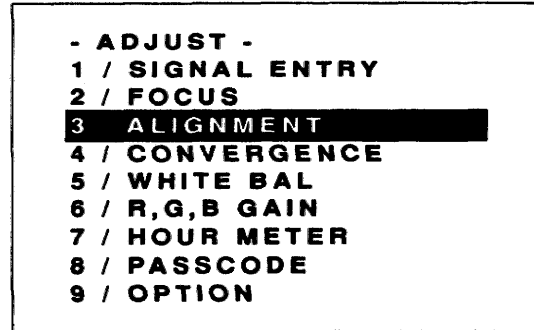
**Alignment Adjustment**

Correct the horizontal and vertical error for the projected image.

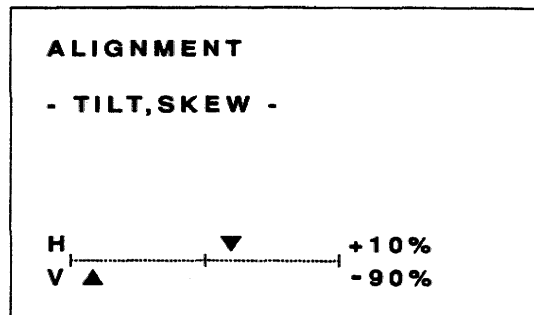
**NOTE:** Select the CROSS-COARSE test pattern using the TEST button on the full function remote control.

Proceed as follows:

- ① Press the ADJUST button to display the "ADJUST" menu.
  - The projector may ask you to enter your passcode.
  - See page 76 for the explanation of the PASSCODE.
- ② Use the CURSOR  $\Delta$  or  $\nabla$  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  $\Delta$  or  $\nabla$  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 pages 59 and 60 for the explanation of the selected adjustment.



- Any adjustment to the red and blue CRTs is not possible in the vertical-KEY-STONE and PIN-BALANCE mode.



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 63), 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.

Continued on the next page.

# ADJUSTMENT

- ④ Press the R, G and B buttons to display only the Green pattern.
- You can turn on or off each CRT beam (R, G or B) separately.
  - To access the CONVERGENCE screen (see page 63), 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

- Use the CURSOR  or  button to adjust the tilt phase ( for horizontal line).
- Use the CURSOR  or  button to adjust the cursor phase (for vertical line).

To adjust the CURSOR PHASE:

When the point Convergence Board is installed:

- Align the point peak with the screen center using CTL and CURSOR buttons.
- Align the vertical center line of the point cursor with the point peak using the CURSOR  or  button.

When using the optional automatic convergence software, ACAT or operating without the Point Convergence Board:

Align the vertical center line of the point cursor with the screen center using the CURSOR  or  button.

- When operating with the Point Convergence Board, align the point peak with the screen center using CURSOR  or  button.

**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.

- ⑥ To end this adjustment, press the END button to display the "STORE ?" menu.
- Whenever the END button is pressed, the menus will sequence in this order:  
"ALIGNMENT" menu → "ADJUST" menu → "STORE ?" menu
- ⑦ Use the CURSOR  or  button to select either "YES" or "NO" and then press ENTER.
- To exit this mode with the current status suspending, select "NO".

#### Items to select

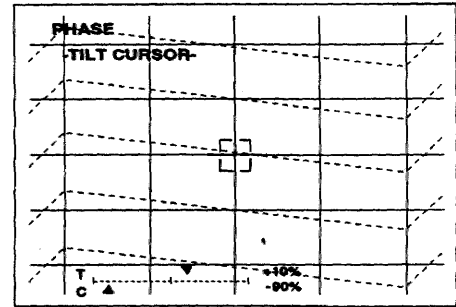
- YES ----- The data will be stored
- NO ----- The data will not be stored

**NOTE:** If you have not changed the adjustment data, the "STORE ?" menu will not be displayed.

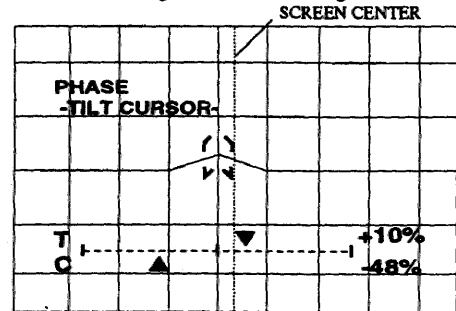
- If the "RETURN USER MODE ?" menu appears, use the CURSOR  or  button to select either "YES" or "NO" and then press ENTER. This will exit the ADJUST mode.

#### Items to select

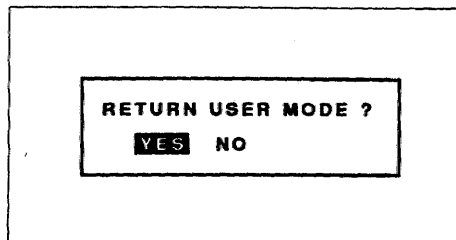
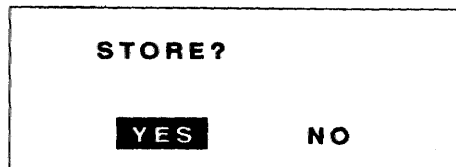
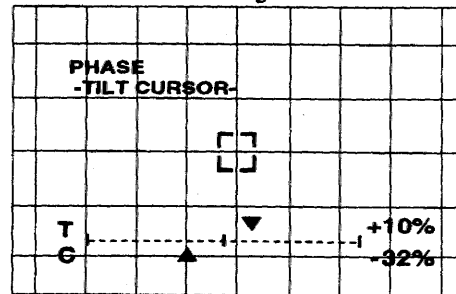
- YES --- When you try to enter the ADJUST mode again, you will need to re-enter your passcode.
- NO ---- When you try to enter the ADJUST mode again, you will not need to re-enter your passcode.



When installing the Point Convergence board:



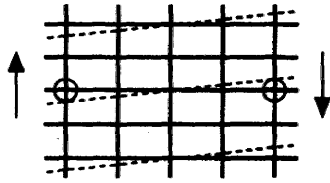
When using the optional ACAT or operating without the Point Convergence board:



**Alignment Adjustment Items**

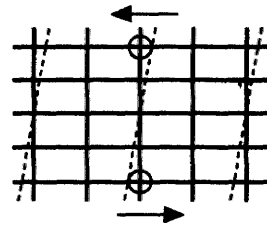
**TILT**

Adjust horizontal center line.



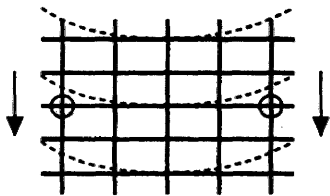
**SKEW**

Adjust vertical center line.



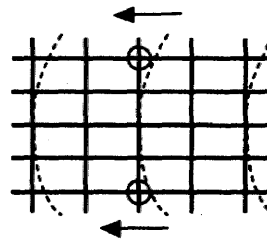
**Vertical BOW**

Adjust horizontal center line bow.



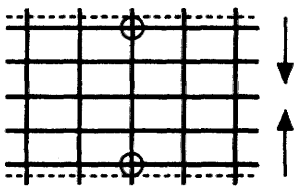
**Horizontal BOW**

Adjust vertical center line bow.



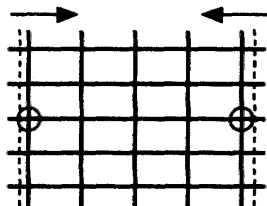
**Vertical AMPLITUDE**

Adjust vertical height of image.



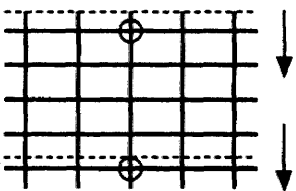
**Horizontal AMPLITUDE**

Adjust horizontal size of image.



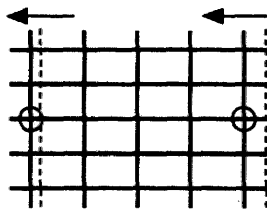
**Vertical LINEARITY**

Adjust top and bottom linearity. (Test pattern)



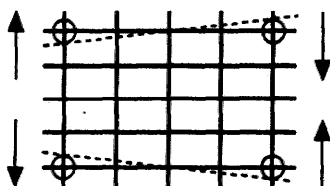
**Horizontal LINEARITY**

Adjust left and right linearity. (Test pattern)



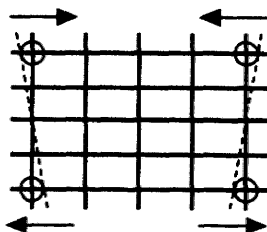
**Vertical KEYSTONE (Only G-CRT is possible)**

Adjust top and bottom key-stone error.



**Horizontal KEYSTONE**

Adjust left and right key-stone error.

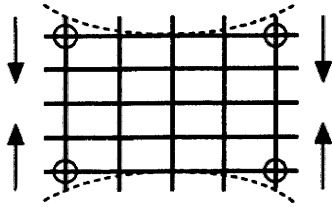


# ADJUSTMENT

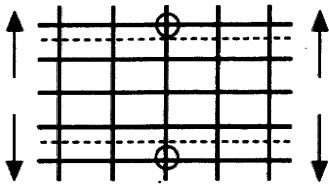
## Alignment Adjustment Items

### Vertical PINCUSHION

Adjust top and bottom pin-cushion error.

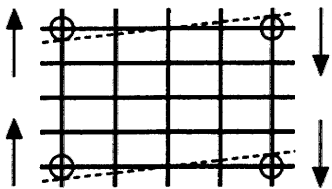


### Vertical LINEAR-BALANCE



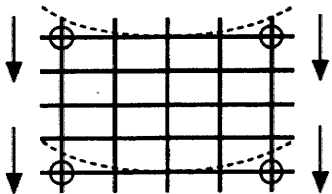
### Vertical KEY-BALANCE

Equalize top and bottom key-stone error.



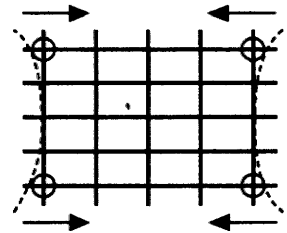
### Vertical PIN-BALANCE (Only G-CRT is possible)

Equalize top and bottom pin-cushion error.

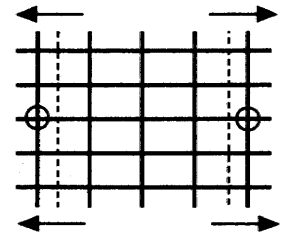


### Horizontal PINCUSHION

Adjust left and right pin-cushion error.

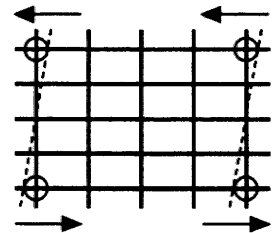


### Horizontal LINEAR-BALANCE



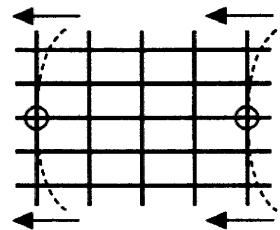
### Horizontal KEY-BALANCE

Equalize left and right key-stone error.



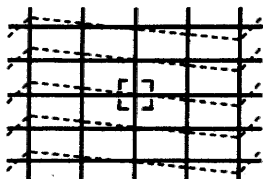
### Horizontal PIN-BALANCE (Only G-CRT is possible)

Equalize left and right pin-cushion error.



### TILT PHASE

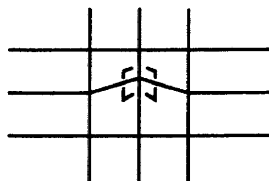
Adjust the pattern so the sharp turns at the left and right edges in the diagonal lines are equal.



### CURSOR PHASE

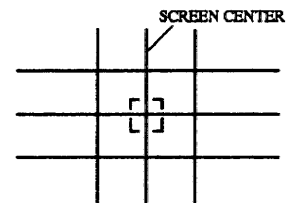
(when the Point Convergence board is installed.)  
Align the vertical center line of the point cursor with the point peak.

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



(when the Point Convergence board is not installed.)  
Align the vertical center line of the point cursor with the screen center.

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





## 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.

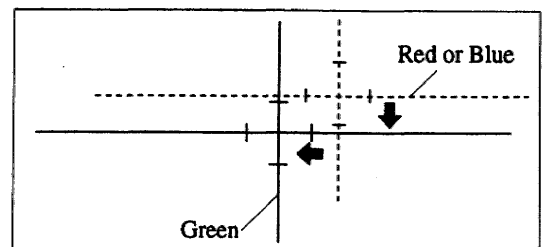
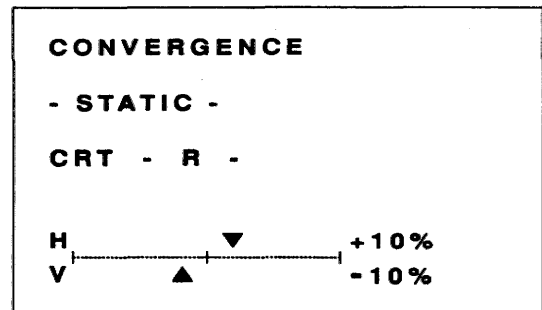
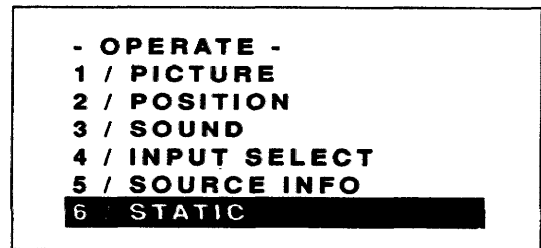
**NOTE:** When you are in the ADJUST mode, selecting the STATIC mode will not automatically select the CROSS-HAIR test pattern. Reselect the pattern using the TEST button.

**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.

- 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.



Continued on the next page.

## ADJUSTMENT

---

- ⑥ Repeat steps ③ to ⑤ for the other CRTs if necessary.
- ⑦ To end this adjustment, press the END button to display the "STORE?" menu.
- Whenever the END button is pressed, the menus will sequence in this order:  
"OPERATE" menu → "STORE?" menu
- ⑧ Use the CURSOR  or  button to select either "YES" or "NO" and press ENTER.

### Items to select

- YES ----- The data will be stored
- NO ----- The data will not be stored

**NOTE:** If the STATIC convergence data has not been changed, the "STORE?" menu will not be displayed.

- To exit this mode without storing the current settings, select "NO".
- You will return to the source screen.

<b>STORE?</b>	
<b>YES</b>	<b>NO</b>

## 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 76 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 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 66 and 67 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 57), 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.

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

```

- ADJUST -
1 / SIGNAL ENTRY
2 / FOCUS
3 / ALIGNMENT
4 / CONVERGENCE
5 / 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
  
```

Continued on the next page.

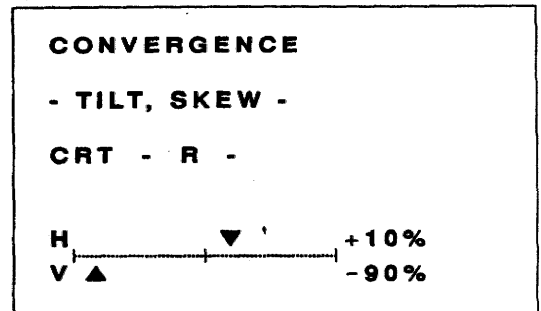


## ADJUSTMENT

- 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 57), press and hold down the CTL button then press the G button.

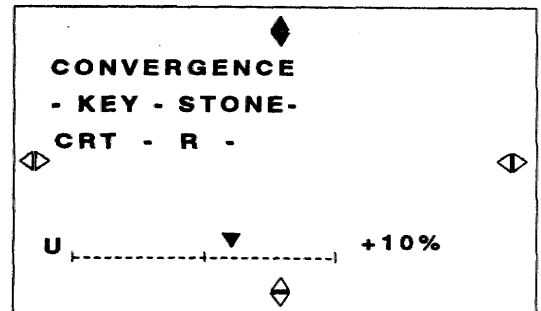


- ⑥ Align the Red or the Blue pattern with the Green pattern using the CURSOR buttons.

- 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 returns 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 → "STORE?" menu

- ⑨ Use the CURSOR  or  button to select either "YES" or "NO" and press ENTER.

**Items to select**

- YES ----- The data will be stored
- NO ----- The data will not be stored

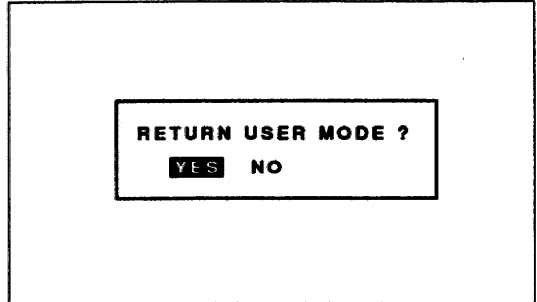
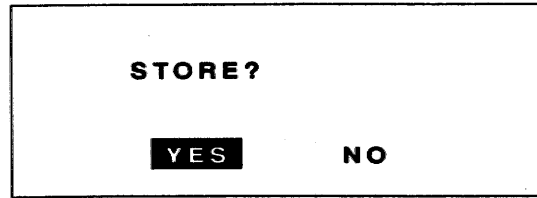
**NOTE:** If the dynamic convergence data has not been changed, the "STORE ?" menu will not be displayed.

- To exit this mode without storing the current settings, select "NO".
- 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:** Adjusting the dynamic convergence may cause the static convergence settings to change. If this happens, adjust the static convergence again.

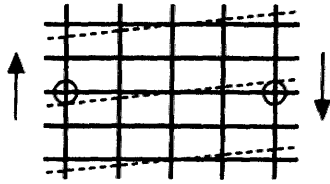


# ADJUSTMENT

## Convergence Adjustment Items

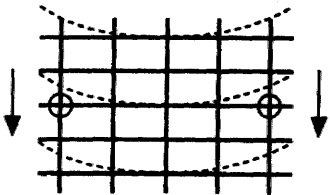
### TILT

Adjust center horizontal line.



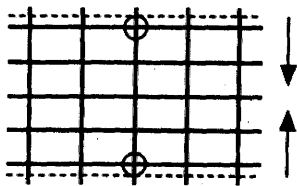
### Vertical BOW

Adjust center horizontal bow.



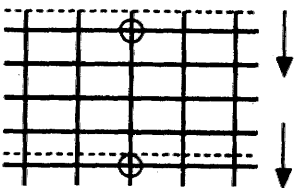
### Vertical AMPLITUDE

Adjust top and bottom height.



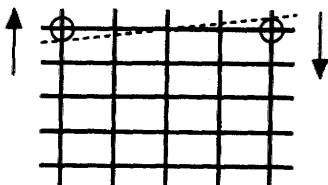
### Vertical LINEARITY

Adjust top and bottom linearity.



### KEYSTONE

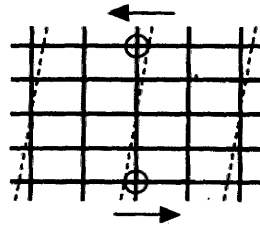
Adjust the selected part.



When U (Up) is selected

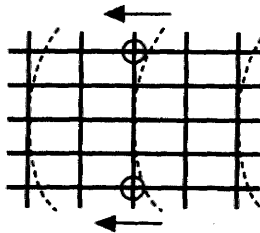
### SKEW

Adjust center vertical tilt.



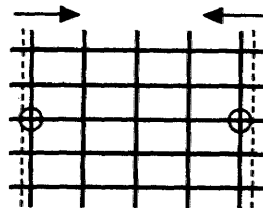
### Horizontal BOW

Adjust center vertical bow.



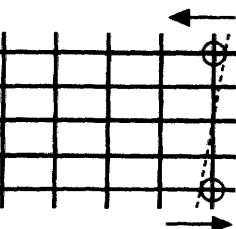
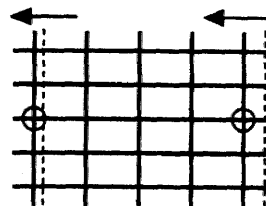
### Horizontal AMPLITUDE

Adjust left and right width.



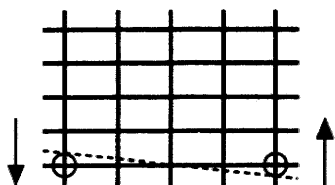
### Horizontal LINEARITY

Adjust left and right linearity.

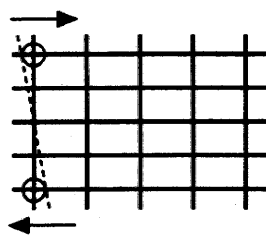


When R (Right) is selected

**Convergence Adjustment Items**

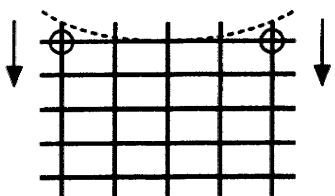


When D (Down) is selected

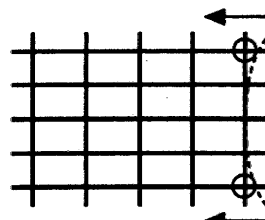


When L (Left) is selected

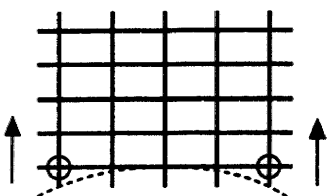
**PINCUSHION**



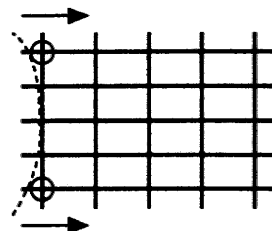
When U (Up) is selected



When R (Right) is selected



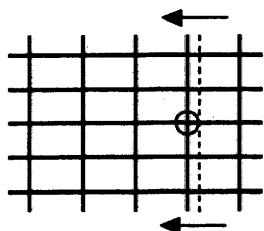
When D (Down) is selected



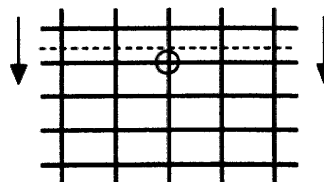
When L (Left) is selected

**LINEAR-BALANCE**

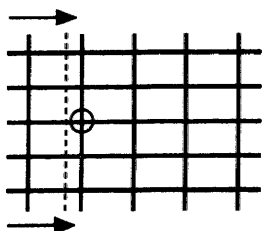
Adjust the selected part



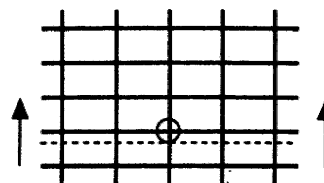
When R (Right) is selected



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 PLUS, you need to install the Point Convergence board and set to activate the point convergence for the MultiSync 6PG PLUS. See page 94 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 reduce 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 76 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.

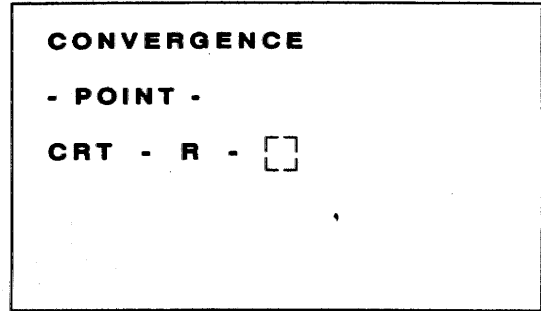
**NOTE:** The "POINT" adjustment can be also displayed by pressing the POINT button on the full function remote control.
- ④ Press the R or B button to display the CRT to be aligned with the Green pattern.
  - You can turn on or off each CRT beam (R, G and B) separately.

```
- 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
```

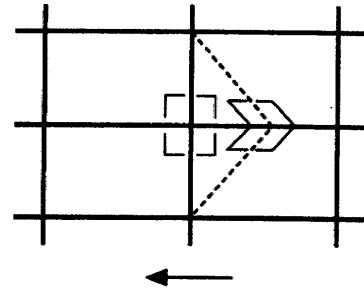
- ⑤ Hold down the CTL button then select the CRT you wish to adjust with the R and B buttons.

**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.



- 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 to display the "STORE ?" menu.

- Whenever END is pressed, the menus will sequence in this order: "CONVERGENCE" menu → "ADJUST" menu → "STORE?" menu

- ⑩ Use the CURSOR or button to select either "YES" or "NO" and press ENTER.

**Items to select**

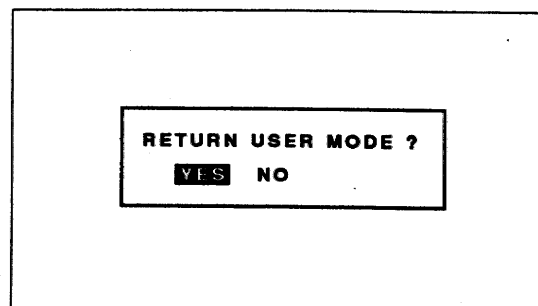
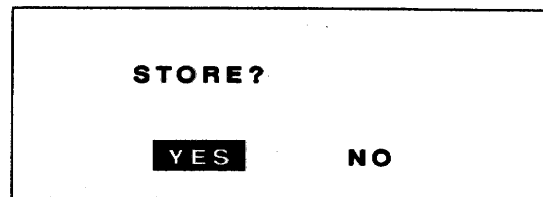
- YES ----- The data will be stored
- NO ----- The data will not be stored

**NOTE:** If the point convergence data has not been changed, the " STORE ?" menu is not displayed.

- To exit this mode without storing the current settings, select "NO".
- 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







## White Balance Adjustment

Adjusts the white balance.

### NOTE:

- The white balance adjustment should be performed for each CRT (R,G and B) separately.
- 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 76 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 to display the "STORE?" menu.
  - Whenever the END button is pressed, the menus will sequence in this order:  
"ADJUST" menu → "STORE?" 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
```

### WHITE BALANCE

CRT - R -

W  60%  
B  10%

⑦ Use the CURSOR  or  button to select either "YES" or "NO" and press ENTER.

**Items to select**

- YES ----- The data will be stored
- NO ----- The data will not be stored

**NOTE:** If the white balance data has not been changed, the "STORE ?" menu is not displayed.

- To exit this mode without storing the current settings, select "NO".
- If the "RETURN USER MODE ?" menu appears, use the CURSOR  or  button to select either "YES" or "NO" and then press the ENTER button. 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.

STORE ?

YES      NO

RETURN USER MODE ?

YES      NO





## ADJUSTMENT

### 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 76 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.

```
- 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 Hold down the CTL button then select the CRT you wish to adjust with the R, G and B buttons.
- ④ Use the CURSOR buttons to adjust the level of the input signal.
  - The CURSOR  ,  button increases the input level.
  - The CURSOR  ,  button decreases the input level.

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

- ⑤ Repeat steps ③ and ④ for other input signals if necessary.
- ⑥ To end this adjustment, press END to display the "STORE?" menu.
  - Whenever the END button is pressed, the menus will sequence in this order:  
"ADJUST" menu → "STORE?" menu

R, G, B GAIN

CRT - R -

 10%

- ⑦ Use the CURSOR  or  button to select either "YES" or "NO" and then press ENTER.

**Items to select**

YES ----- The data will be stored  
NO ----- The data is not stored

**NOTE:** If the R, G, B gain adjustment has not been changed, the "STORE ?" menu will not be displayed.

- To exit this mode without storing the current status, select "NO".
- 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.

STORE ?

YES      NO

RETURN USER MODE ?

YES      NO

## 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 76 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.
  - The sixth item is "6/HOUR METER" in stand alone adjust menu.
  - You can also select the "HOUR METER" screen directly by pressing the INPUT "7" button.

### Items to select

- PJ RUNNING TIME  
The amount of operating time of the projector.
- CRT RUNNING TIME  
The amount of operating time of CRT.
- USER PJ RUNNING TIME  
The amount of operating time of the projector. User resetable
- USER CRT RUNNING TIME  
The amount of operating time of CRT. User resetable

### How to reset the user projector or CRT running time:

- 1) Use the CURSOR buttons to select the item and then press ENTER.
  - The "PJ RUNNING TIME RESET ?" or "CRT RUNNING TIME RESET ?" menu is displayed.

- 2) Use the CURSOR  or  button to select either "YES" or "NO" and then press ENTER.

### Items to select

- YES ----- The time will be reset
- NO ----- The time will not be reset.

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

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

### HOUR METER

```
PJ RUNNING TIME  
****H **M
```

```
CRT RUNNING TIME  
****H **M
```

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

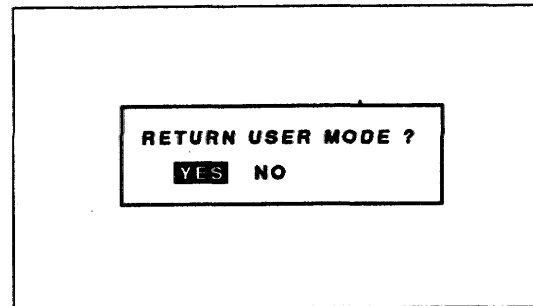
```
USER CRT RUNNING TIME  
****H **M
```

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

- 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 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

### 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:

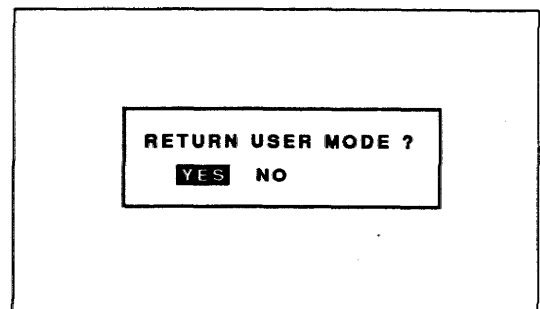
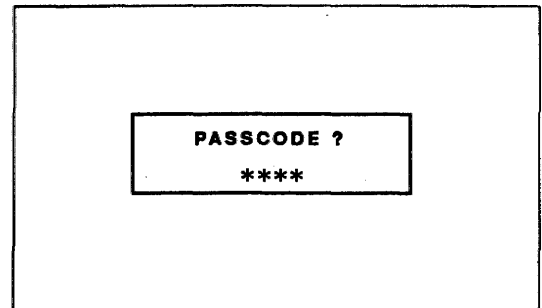
- ① Press the ADJUST button.
  - The "PASSCODE ?" screen is displayed.
- ② Enter the four digit passcode you have already recorded by using the "1" through "0" buttons.
  - 1) Each time you press the INPUT button, an asterisk appears under the "PASSCODE ?" message.
  - 2) After you have finished entering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

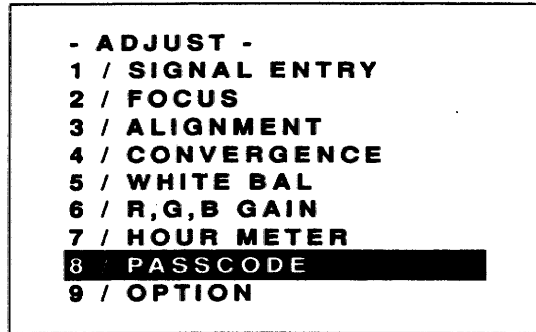




## Registering Passcode

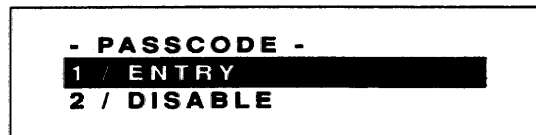
When the projector is shipped from the factory, no passcode is registered. If you want to use the passcode option, you must register a passcode.

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.

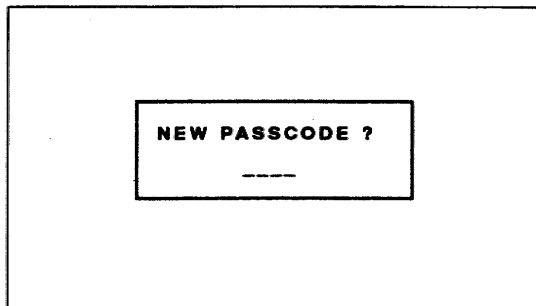
- 2) Once you have finished entering your four digit passcode, press ENTER to store the code.

**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 DIFFERENT PASSCODE !!" message will be displayed. You will be required to enter the passcode correctly.



Continued on the next page.

## ADJUSTMENT

⑤ Enter the new passcode again .

1) Each time you press the INPUT button, an asterisk will appear under the "CONFIRM NEW PASSCODE?" message.

2) Once you have finished entering the new four digit passcode, press ENTER.

**NOTE:** If you have made an error, press the NORMAL button to delete the asterisk "\*". Then re-enter the correct passcode.

To delete all the entered digits, hold down the CTL button then press the NORMAL button.

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

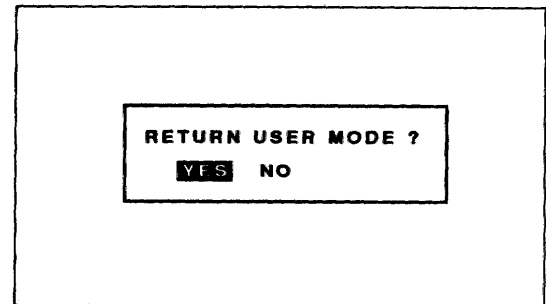
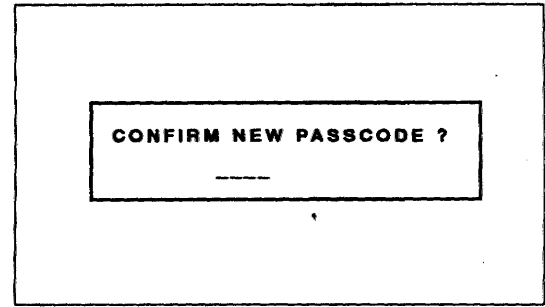
**NOTE:** If the passcode is not correct, the "WARNING DIFFERENT PASSCODE !!" message will be displayed. You are required to enter the new passcode correctly.

⑥ To complete, press the END button.

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

**Items to select**

- YES -- When you try to enter the ADJUST mode 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.



## 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.

```

- 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
  
```

- 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.

```

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

- 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 pass code, 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 PASS CODE?" 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.

```

CURRENT PASSCODE ?
*****
  
```

Continued on the next page.



## ADJUSTMENT

- 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 DIFFERENT PASSCODE !!" message will be displayed. You will be 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.

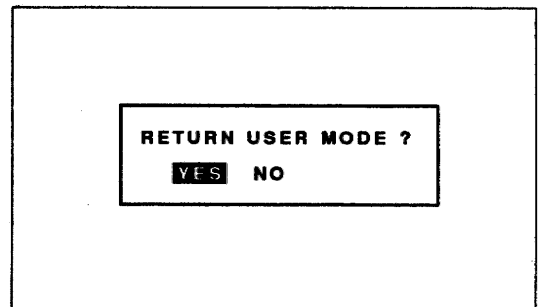
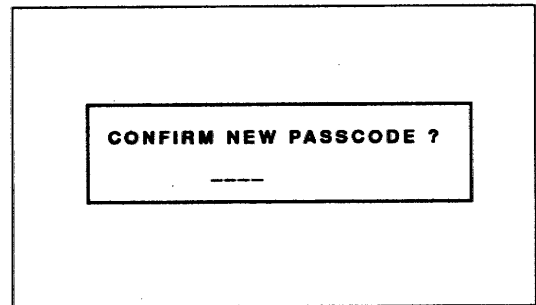
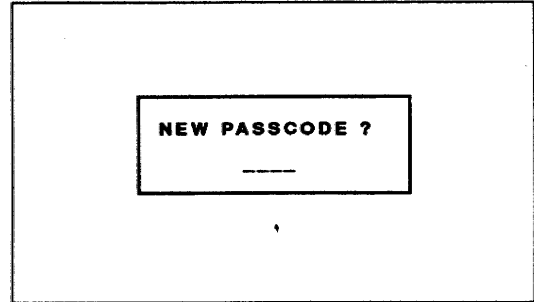
- 3) If the entered passcode is correct, the "CHANGE PASSCODE COMPLETE !!" message is displayed.

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

- ⑧ 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 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.





## 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.

```

- 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
  
```

- 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.

```

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

- 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.

```

CURRENT PASSCODE ?
      ****
  
```

- 3) If the entered passcode is correct, the "PASSCODE DISABLE ?" menu will be displayed.

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

Continued on the next page.

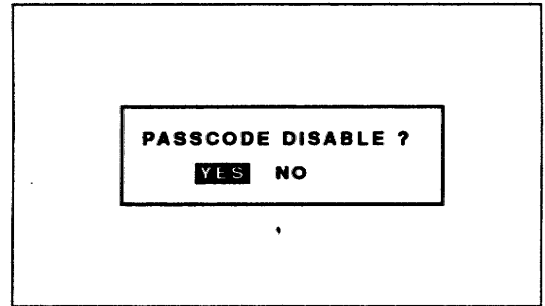
## ADJUSTMENT

---

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

### Items to select









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



# SETTING

## 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 76 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 "CONNECT CONDITION" line. Press ENTER to display the "CONNECT CONDITION" menu.
- ⑤ Use the CURSOR  or  button to select your desired connection condition of Switcher and 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
  
```

P01	OPTION	- SETTING MODE -
<b>CONNECT CONDITION</b>		STANDALONE
AUTO POWER ON MODE		INACTIVE
DEFAULT INPUT SELECT		LAST
WARM-UP MODE		INACTIVE
SIGNAL SWITCHING		SOUND MUTE ON PICTURE MUTE OFF

```

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

### Items to select

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

Continued on the next page.

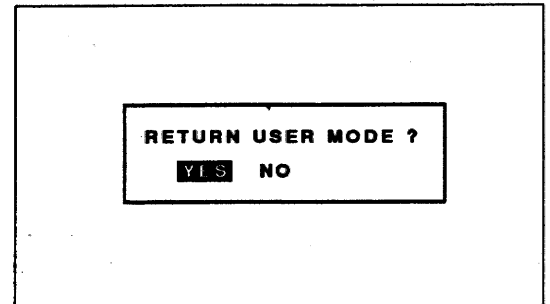
## SETTING

---

- 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 "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.



## 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 76 for the explanation of the PASSCODE.
- ② Use the CURSOR  $\Delta$  or  $\nabla$  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  $\Delta$  or  $\nabla$  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  $\Delta$  or  $\nabla$  button to select the "AUTO POWER ON MODE" line. Press ENTER to display the "AUTO POWER ON 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
    
```

P01	OPTION	- SETTING MODE -
	CONNECT CONDITION	STANDALONE
	AUTO POWER ON MODE	INACTIVE
	DEFAULT INPUT SELECT	LAST
	WARM-UP MODE	INACTIVE
	SIGNAL SWITCHING	SOUND MUTE ON PICTURE MUTE OFF

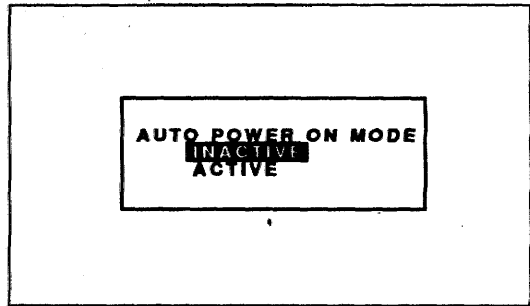
Continued on the next page.

## SETTING

- ⑤ Use the CURSOR  or  button to select either "ACTIVE" or "INACTIVE" and press the ENTER button to execute it.

### 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.

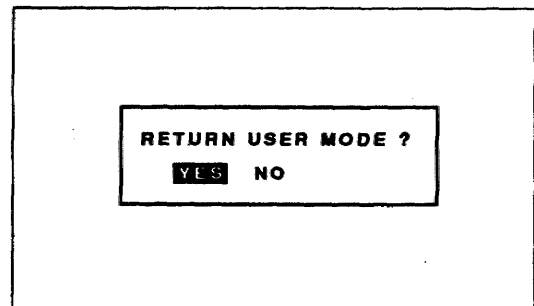


- ⑥ To complete, press the END button.

- 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.



**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 76 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" line. Press ENTER to display the "DEFAULT INPUT SELECT" menu.

P01	OPTION	- SETTING MODE -
	CONNECT CONDITION	STANDALONE
	AUTO POWER ON MODE	INACTIVE
	<b>DEFAULT INPUT SELECT</b>	LAST
	WARM-UP MODE	INACTIVE
	SIGNAL SWITCHING	SOUND MUTE ON PICTURE MUTE OFF

**Continued on the next page.**

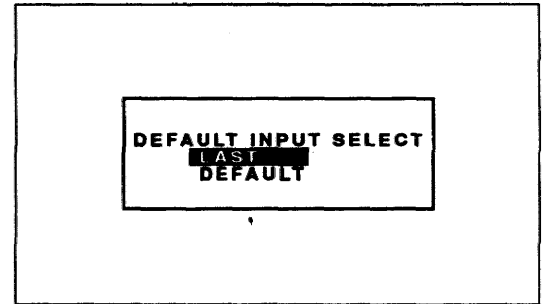


## SETTING

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

### Items to select

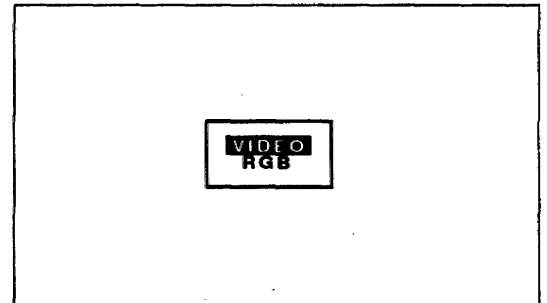
- LAST ----- Sets the projector to default to the previous last active input each time the projector is turned on. Note: An input must be active for a minimum of 10 minutes before it is recognized as the last active signal.
- DEFAULT ---- Displays the same source input every time the projector is started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



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

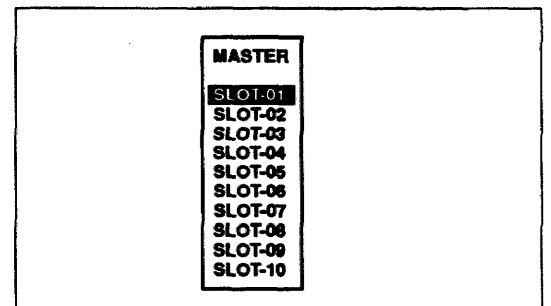
### ■ When used in stand alone operation:

The "VIDEO/RGB" default input screen will be displayed. Use the CURSOR  or  button to select either "VIDEO" or "RGB" and press ENTER.



### ■ When used with a single Switcher:

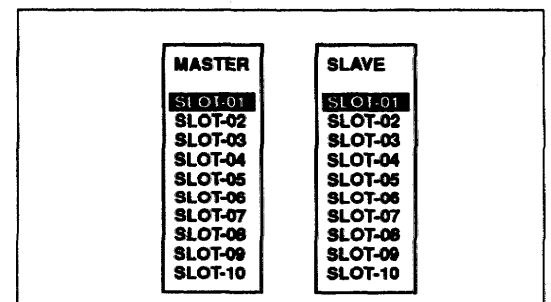
The "MASTER" slot menu will be displayed. Use the CURSOR  or  button to select the desired slot number "1" through "10 (0)" and then press ENTER.



### ■ When used with two or more Switchers:

The "MASTER" and "SLAVE" slot number menu will be displayed.

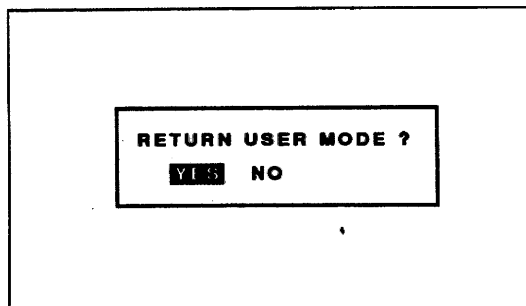
Use the CURSOR  or  button to select the master slot number first and then select the slave slot number "1" through "10(0)". Press ENTER.



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

**Items to select**

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



# SETTING

## Warm-up Mode Setting

This function allows you to automatically warm up the projector for 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 76 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 "WARM-UP MODE" line. Press ENTER to display the "WARM-UP 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
  
```

```

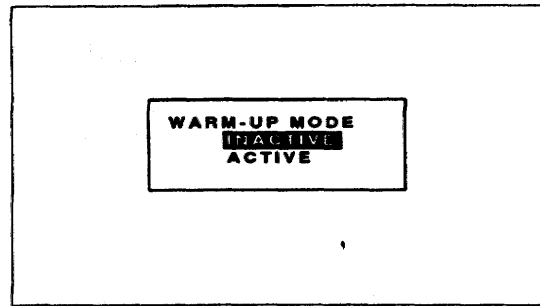
- OPTION -
1 / SETTING MODE
2 / MENU MODE
3 / SEQUENCER
4 / PJ ADDRESS
5 / VERSION
  
```

P01	OPTION	- SETTING MODE -
	CONNECT CONDITION	STANDALONE
	AUTO POWER ON MODE	INACTIVE
	DEFAULT INPUT SELECT	LAST
	WARM UP MODE	INACTIVE
	SIGNAL SWITCHING	SOUND MUTE ON PICTURE MUTE OFF

- ⑤ Use the CURSOR  or  button to select either "ACTIVE" or "INACTIVE", once selected 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.

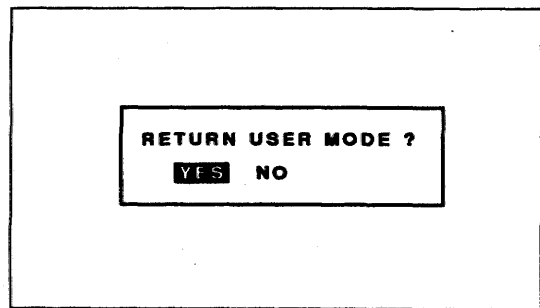


**NOTE:** To interrupt and cancel the warm-up cycle, press the END button.

- 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.



## SETTING

### 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 76 for the explanation of the PASSCODE.
- ② Use the CURSOR  $\blacktriangle$  or  $\blacktriangledown$  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  $\blacktriangle$  or  $\blacktriangledown$  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  $\blacktriangle$  or  $\blacktriangledown$  button to select the "SIGNAL SWITCHING" line. Press ENTER to display the "SIGNAL SWITCHING" 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
```

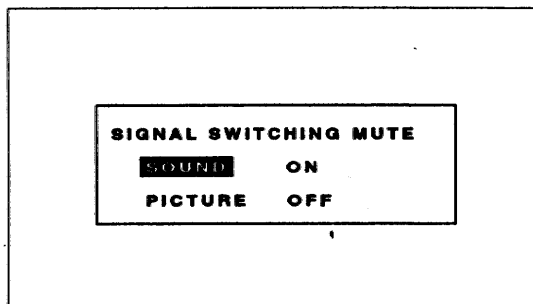
```
- OPTION -  
1 / SETTING MODE  
2 / MENU MODE  
3 / SEQUENCER  
4 / PJ ADDRESS  
5 / VERSION
```

P01	OPTION	- SETTING MODE -
	CONNECT CONDITION	STANDALONE
	AUTO POWER ON MODE	INACTIVE
	DEFAULT INPUT SELECT	LAST
	WARM-UP MODE	INACTIVE
	SIGNAL SWITCHING	SOUND MUTE ON PICTURE MUTE OFF

- ⑤ Use the CURSOR  or  button to select either "SOUND" or "PICTURE", then either "ON" or "OFF". Press ENTER.

**Items to select**

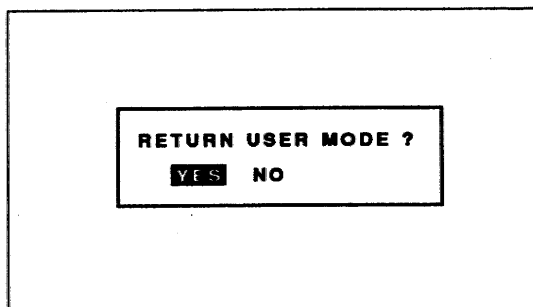
- MUTE ON -----Mutes a picture and/or sound during switching signals
- MUTE OFF -----Outputs a picture and/or sound during switching signals



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

**Items to select**

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



## SETTING

### 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 MultiSync 6PG PLUS. This function should always be enabled for the 9PG PLUS.

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 76 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 "POINT CONVERGENCE" on Page 2. Press ENTER to display the "POINT CONVERGENCE" menu.
  - The "POINT CONVERGENCE" menu is on the next screen(P02). To access P02 from P01, 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
```

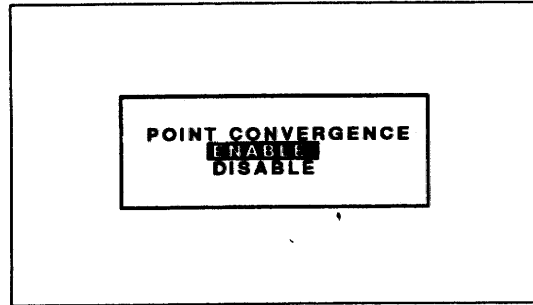
```
- OPTION -  
1 / SETTING MODE  
2 / MENU MODE  
3 / SEQUENCER  
4 / PJ ADDRESS  
5 / VERSION
```

P02	OPTION	- SETTING MODE -
	POINT CONVERGENCE	ENABLE
	FOCUS EDGE MODE	ALL
	DEGAUSS	
	ASTIG OUTPUT	CEILING FRONT
	ASTIG ADJUSTMENT	OFF
	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

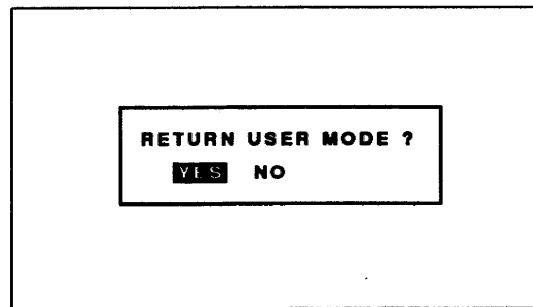


- ⑥ To end, press the END button.

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

**Items to select**

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





## SETTING

### Focus Edge Mode

This function allows you to set either of two electrical edge focus modes; one affects all test pattern 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 76 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 "FOCUS EDGE MODE" item, then press ENTER to display the "FOCUS EDGE MODE" menu.
  - The "FOCUS EDGE MODE" item is on the next screen(P02). To access P02 from P01, 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
```

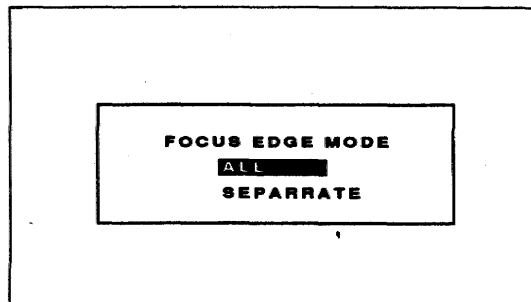
```
- OPTION -  
1 / SETTING MODE  
2 / MENU MODE  
3 / SEQUENCER  
4 / PJ ADDRESS  
5 / VERSION
```

P02	OPTION	- SETTING MODE -
	POINT CONVERGENCE	ENABLE
	FOCUS EDGE MODE	ALL
	DEGAUSS	
	ASTIG OUTPUT	CEILING FRONT
	ASTIG ADJUSTMENT	OFF
	VIDEO MODE SELECT	AUTO

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

**Items to select**

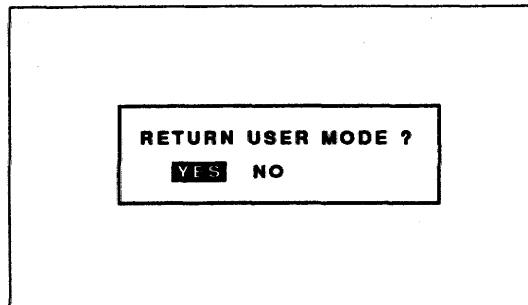
- ALL ----- Affects all of the CRTs at the same time
- SEPARATE ---- Affects each CRT separately



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

**Items to select**

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



# SETTING

## 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 76 for the explanation of the PASSCODE.
  
- ② Use the CURSOR  $\Delta$  or  $\nabla$  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  $\Delta$  or  $\nabla$  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  $\Delta$  or  $\nabla$  button to select the "DEGAUSS" item, then press ENTER to display the "DEGAUSS START ?" menu.
  - The "DEGAUSS" item is on the next screen(P02). To access P02 from P01, press and hold down the CTL button then press the  $\nabla$  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
```

P02	OPTION	- SETTING MODE -
	POINT CONVERGENCE	ENABLE
	FOCUS EDGE MODE	ALL
	DEGAUSS	
	ASTIG OUTPUT	CEILING FRONT
	ASTIG ADJUSTMENT	OFF
	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.

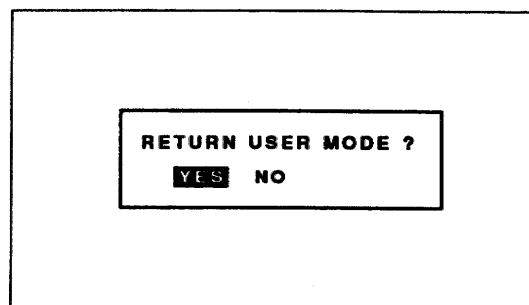
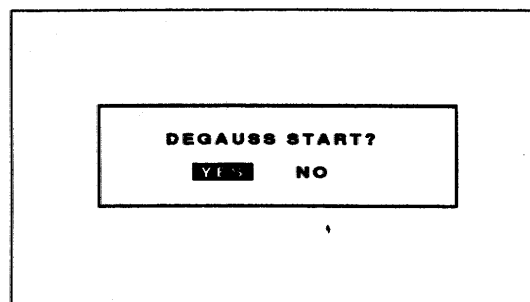
**Items to select**

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

- ⑥ To complete this, 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

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 76 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 OUTPUT" item, then press ENTER to display the "ASTIG OUTPUT MODE" menu.
  - The "ASTIG OUTPUT" item is on the next screen(P02). To access P02 from P01, 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
    
```

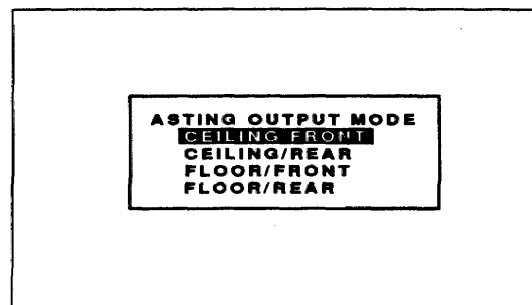
P02	OPTION	- SETTING MODE -
	POINT CONVERGENCE	ENABLE
	FOCUS EDGE MODE	ALL
	DEGAUSS	
	ASTIG OUTPUT	CEILING FRONT
	ASTIG ADJUSTMENT	OFF
	VIDEO MODE SELECT	AUTO

- ⑤ Use the CURSOR  or  button to select one of the four projector installation type 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

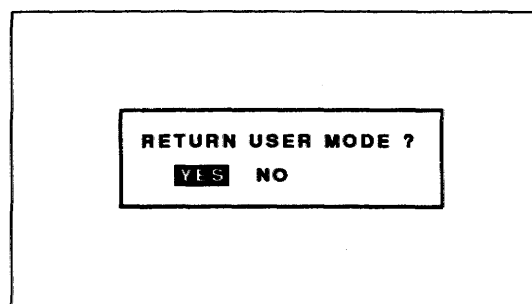
**NOTE:** Pressing ENTER demagnetizes the CRTs.



- 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.



# SETTING

## 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 76 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" line. Press ENTER to display the "ASTIG ADJUSTMENT" menu.
  - The "ASTIG ADJUSTMENT" item is on the next screen (P02).
  - To access P02 from P01, 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
```

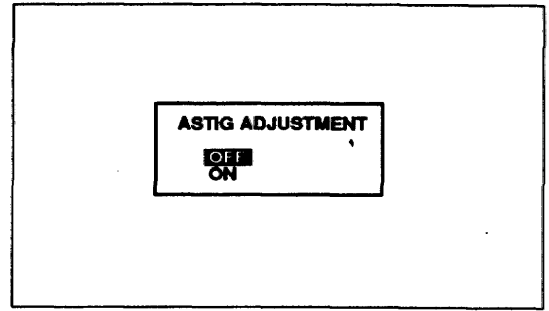
```
- OPTION -  
1 / SETTING MODE  
2 / MENU MODE  
3 / SEQUENCER  
4 / PJ ADDRESS  
5 / VERSION
```

P02	OPTION	- SETTING MODE -
POINT CONVERGENCE		ENABLE
FOCUS EDGE MODE		ALL
DEGAUSS		
ASTIG OUTPUT		CEILING FRONT
ASTIG ADJUSTMENT		OFF
VIDEO MODE SELECT		AUTO

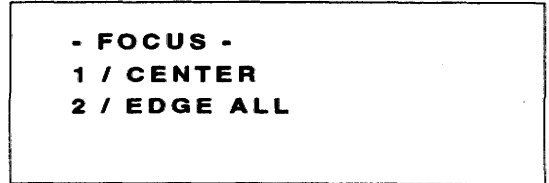
⑤ Use the CURSOR  or  button to select either "OFF" or "ON" and press ENTER.

**Items to select**

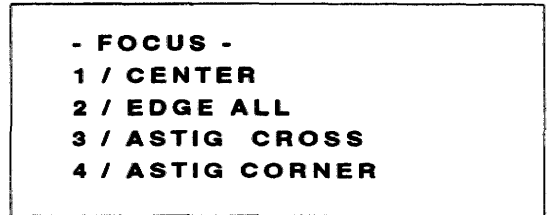
- OFF ----- Astig Cross and Astig Corner adjustments are not possible in FOCUS mode.
- ON ----- Astig Cross and Astig Corner adjustments are included in the focus menu. These adjustments are possible in FOCUS mode.



FOCUS MENU when OFF is selected.



FOCUS MENU when ON is selected.

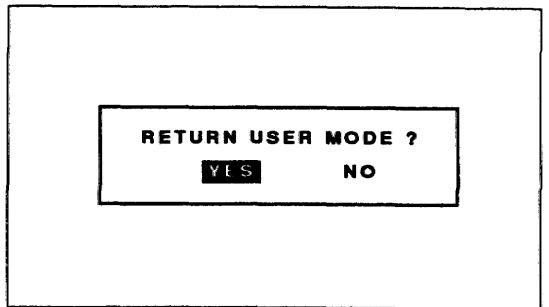


⑥ To complete this, press ENTER.

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

**Items to select**

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





## SETTING

### 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 76 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 "VIDEO MODE SELECT" line. Press ENTER to display the "VIDEO MODE SELECT" menu.
  - The "VIDEO MODE SELECT" menu is on the next screen(P02). To access P02 from P01, press and hold down the CTL button then press the  button.

P02	OPTION	- SETTING MODE -
	POINT CONVERGENCE	ENABLE
	FOCUS EDGE MODE	ALL
	DEGAUSS	
	ASTIG OUTPUT	CEILING FRONT
	ASTIG ADJUSTMENT	OFF
	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.

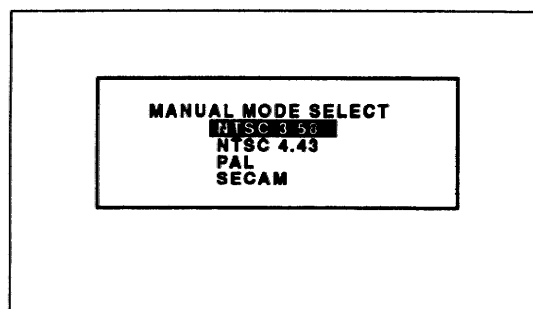
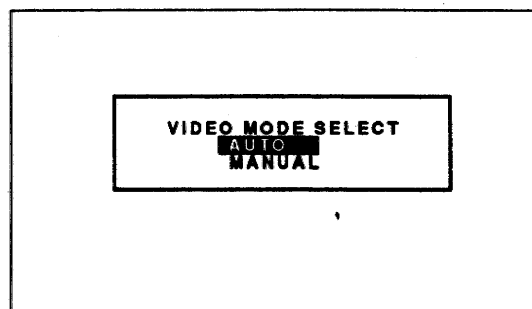
### When selecting "MANUAL"

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

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

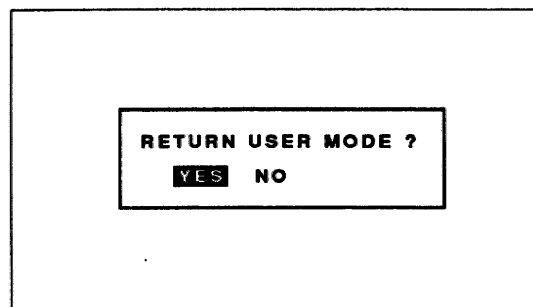


**NOTE:** The projector may not function correctly with a monochrome signals in the AUTO mode.

- ⑥ To complete, press the END button.
- Whenever the END button is pressed, the menus will sequence in this order:  
"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

## 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. In both modes the DISPLAY button will turn on the on-screen display.

Proceed as follows:

- ① Press the ADJUST button to display the "ADJUST" menu.
  - The projector may ask you to enter your passcode.
  - See page 76 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" line. 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
```

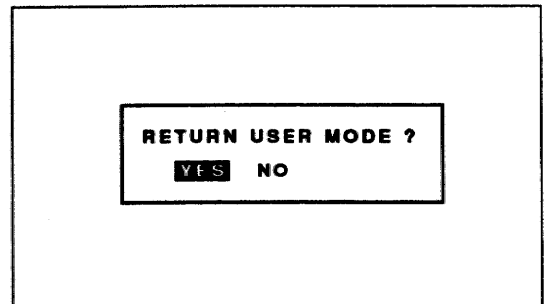
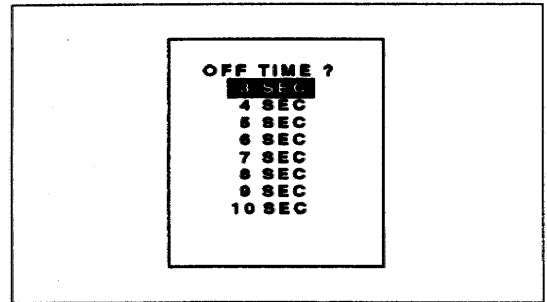
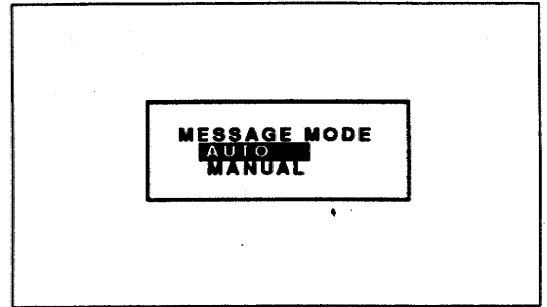
```
- OPTION -  
1 / SETTING MODE  
2 / MENU MODE  
3 / SEQUENCER  
4 / PJ ADDRESS  
5 / VERSION
```

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.



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

**Items to select**

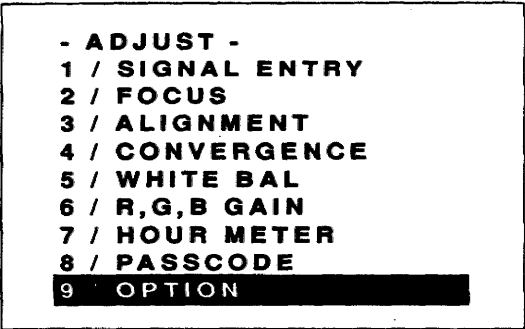
- **YES** ---- When you try to enter the ADJUST mode the next time, you will need to re-enter your passcode.
- **NO**----- When you try to enter the ADJUST mode the next time, you will not need to re-enter your passcode.

# SETTING

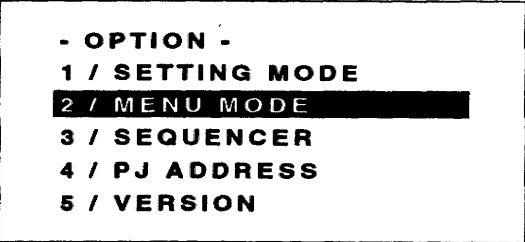
## On-screen Display Color Setting

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

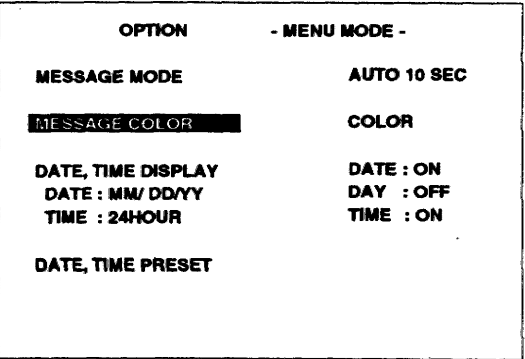
- ① Press the ADJUST button to display the "ADJUST" menu.
  - The projector may ask you to enter your passcode.
  - See page 76 for the explanation of the PASSCODE.
- ② Use the CURSOR  or  button to highlight the "9/OPTION" line. Press ENTER to display the "OPTION" menu. You can also select the "OPTION" 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 COLOR" line. Press ENTER to display the "MESSAGE COLOR" menu.



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

**Items to select**

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

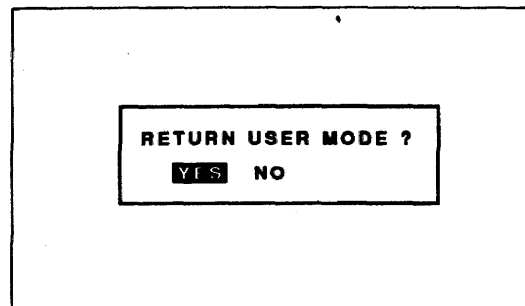
**NOTE:** It is recommended, if the on-screen message interferes with the display image in the "COLOR" mode, that you select "GREEN".



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

**Items to select**

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



# SETTING

## Date, Time Display Setting

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

Proceed as follows:

- ① Press the ADJUST button to display the "ADJUST" menu.
  - The projector may ask you to enter your passcode.
  - See page 76 for the explanation of the PASSCODE.
- ② Use the CURSOR  $\Delta$  or  $\nabla$  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  $\Delta$  or  $\nabla$  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  $\Delta$  or  $\nabla$  button to highlight the "DATE, TIME DISPLAY" line. Press ENTER to display the "DATE, TIME DISPLAY" menu.

- ⑤ Use the CURSOR  $\Delta$  or  $\nabla$  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	

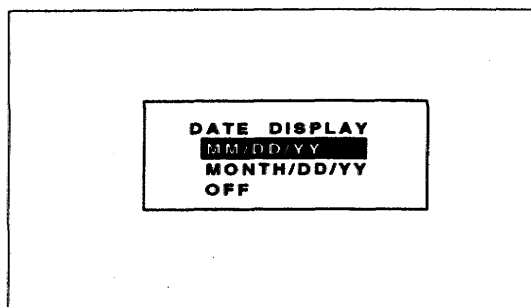
```
DATE, TIME DISPLAY  
DATE ON  
DAY OFF  
TIME ON
```

## ■ 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.

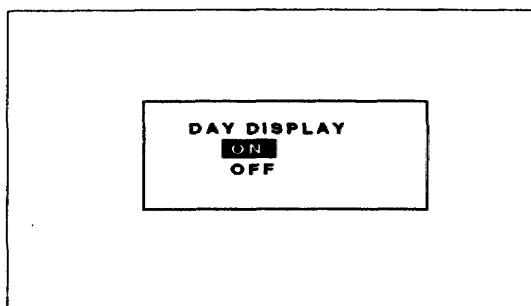


## ■ When selecting "DAY"

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

### Items to select

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

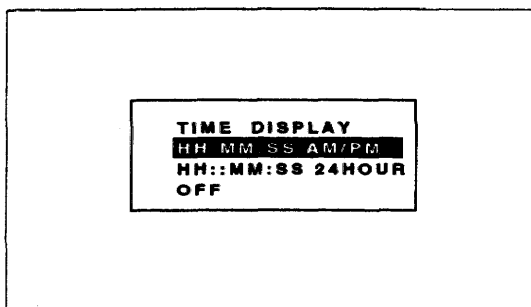


## ■ When selecting "TIME"

Use the CURSOR  or  button to select any one of the three items:HH/MM/SS AM/PM, HH/MM/SS 24HOUR, 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 24HOUR --- Is the time in hours/minutes/seconds/24-hour format
- OFF----- Does not display the time.

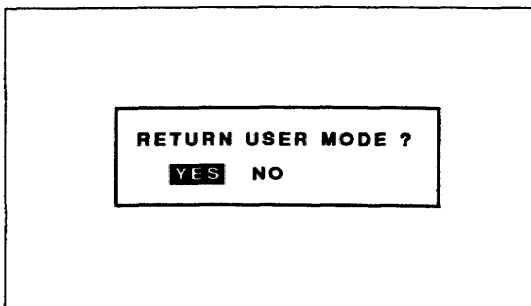


## ⑥ To end this mode, press END.

- 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.





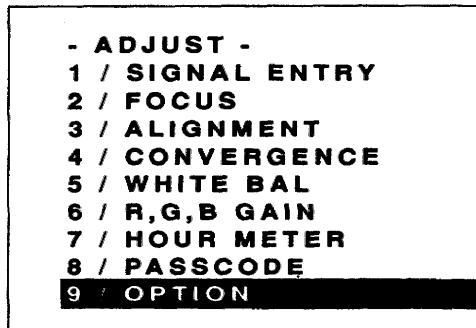
## SETTING

### Entering Date and Time

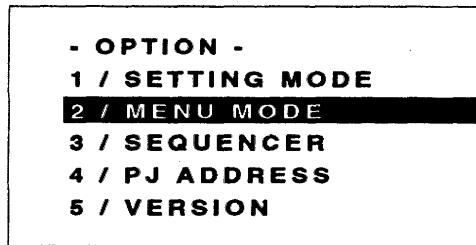
You can enter the year, date and time to display them on the screen.

Proceed as follows:

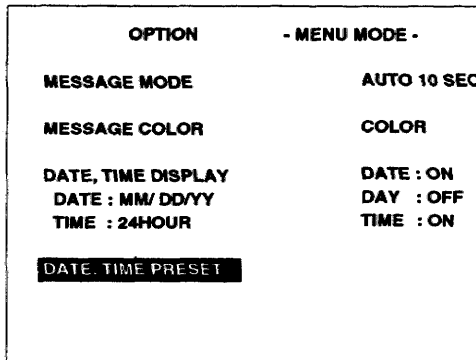
- ① Press the ADJUST button to display the "ADJUST" menu.
  - The projector may ask you to enter your passcode.
  - See page 76 for the explanation of the PASSCODE.
- ② Use the CURSOR  $\Delta$  or  $\nabla$  button to highlight the "9/OPTION" line. Press ENTER to display the "OPTION" menu. You can also select the "OPTION" menu directly by pressing the INPUT "9" button.
  - The eighth item is "8/OPTION" in stand alone adjust menu.



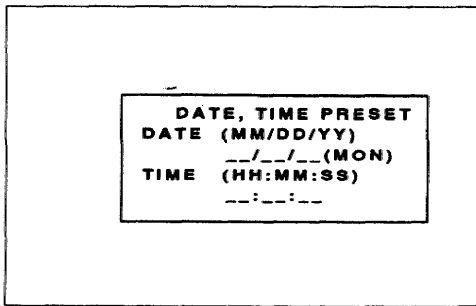
- ③ Use the CURSOR  $\Delta$  or  $\nabla$  button to highlight the "2/MENU MODE" line. Press ENTER to display the "MENU MODE" menu. You can also select the "MENU MODE" menu directly by pressing the INPUT "2" button.



- ④ Use the CURSOR  $\Delta$  or  $\nabla$  button to highlight the "DATE, TIME PRESET" line. Press ENTER to display the "DATE, TIME PRESET" screen.



- ⑤ Use INPUT buttons to enter 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.

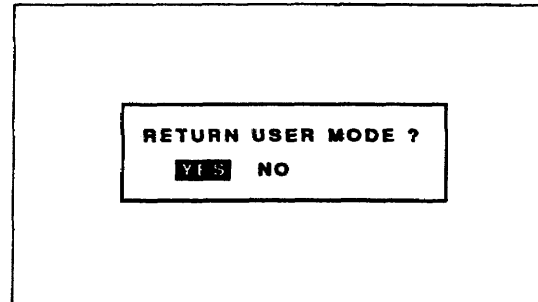


- ⑥ To end this mode, press END.
- Whenever the END button is pressed, the menus will sequence in this order:  
"OPTION" menu → "ADJUST" menu → Source screen
  - If the "RETURN USER MODE ?" menu appears, use the CURSOR  or  button to select either "YES" or "NO" and press ENTER. This will exit the ADJUST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

**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.



# SETTING

## 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 76 for the explanation of the PASSCODE.
- ② Use the CURSOR  $\Delta$  or  $\nabla$  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  $\Delta$  or  $\nabla$  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  $\leftarrow$  or  $\rightarrow$  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 SMTWTF
01 M-10 S-01 12:00:00 X00000
02 M-02 S-02 14:00:00 X00000
03 M-01 S-02
04 WAIT 00:10:00
05 M-01 S-01 X00000
06 WAIT 00:20:00
07 LOOP 03 COUNT 05
08 M-02 S-02 15:50:00 X00000
09 P-OFF 18:00:00 X00000
10 P-ON 09:00:00 X00000
START EDIT
  
```

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

```

OPTION - SEQUENCER -
P01
NO INPUT TIME SMTWTF
01 M-10 S-01 12:00:00 X00000
02 M-02 S-02 14:00:00 X00000
03 M-01 S-02
04 WAIT 00:10:00
05 M-01 S-01 X00000
06 WAIT 00:20:00
07 LOOP 03 COUNT 05
08 M-02 S-02 15:50:00 X00000
09 P-OFF 18:00:00 X00000
10 P-ON 09:00:00 X00000
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.

■ **Selecting "INPUT"**

When using in stand alone application:

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



- The "VIDEO/RGB" terminal menu is displayed.

- 2) Use the CURSOR  or  button to select either "VIDEO" or "RGB" and press ENTER.

- The "TIME" input screen is displayed.

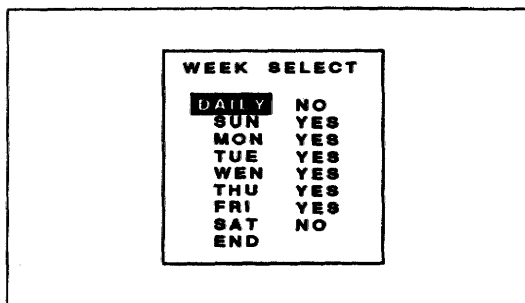
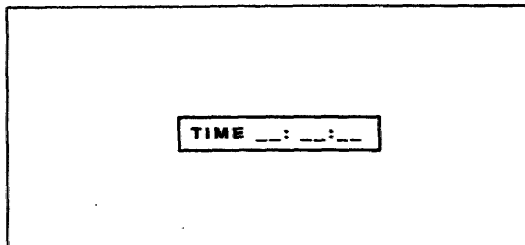
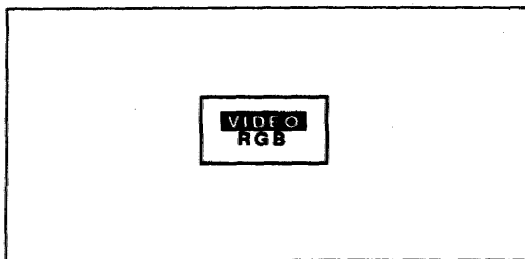
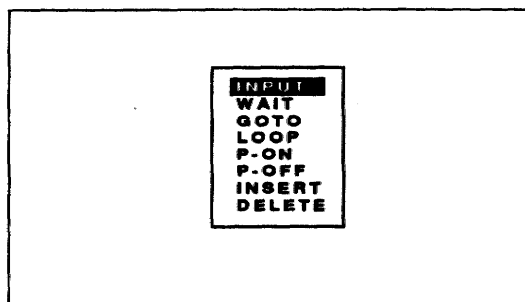
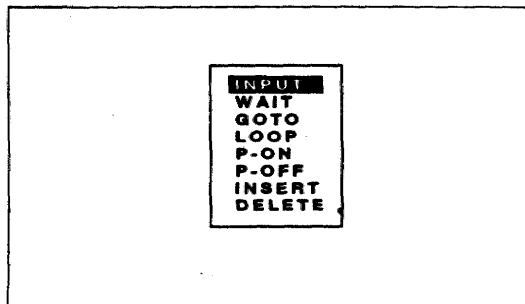
- 3) Enter the starting time using INPUT buttons and press ENTER.

- Type the time in hours(24 hours), minutes, and seconds.
- If you have made an error in the input of numbers, press the END button to return to the "VIDEO/RGB terminal menu then start from step 2).
- The "WEEK SELECT" screen will appear.

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

- When "DAILY" selected , the entire week is changed to "YES".
- When "END" is selected, the current setting is saved.
- To return to Step 3), press the END button. In that case, the changed setting is invalid.



**NOTE:** Typing 99:99:99 in the time input menu will execute the program immediately. ( See the examples in the "WAIT" section on page 117)



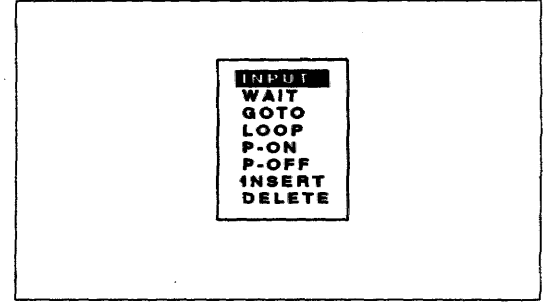
Continued on the next page.



## SETTING

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

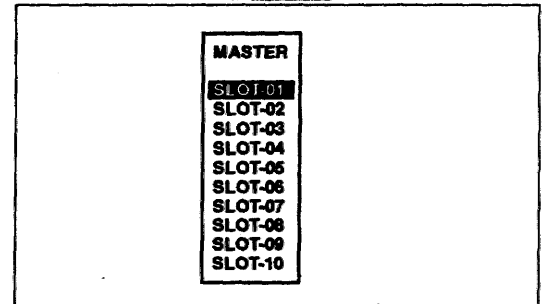
1) Use the CURSOR  or  button to select "INPUT" and press ENTER.

- The "MASTER" menu will be displayed.



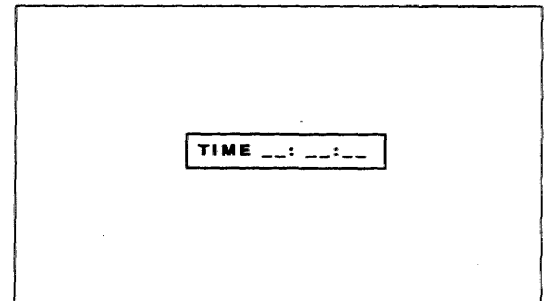
2) Use the CURSOR  or  button to select the input slot number of the Switcher and press ENTER.

- The "TIME" input screen will be displayed.





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

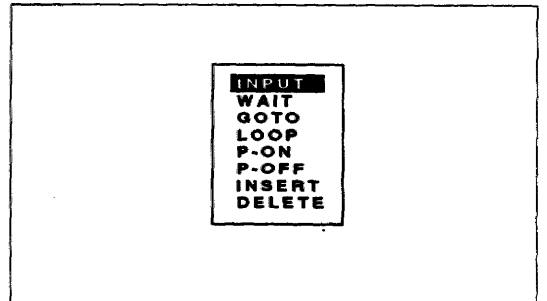
- Type the time in hours (24 hours), minutes, and seconds.
- If you have made an error in the input of numbers, press the END button to return to the "MASTER" menu then start from step 2).





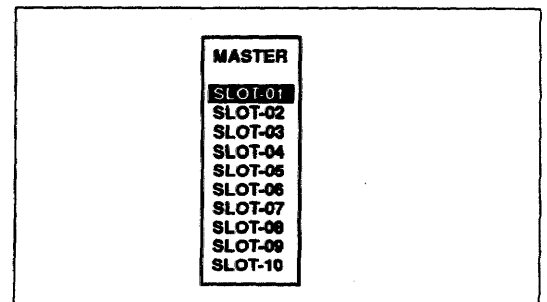
When using with two or more ISS-6010/ISS-6010G Switchers:

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

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

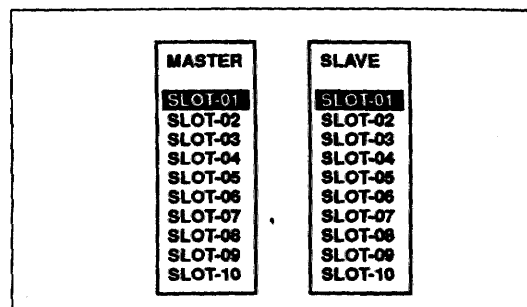


2) Use the CURSOR  or  button to select the input slot number of the master Switcher from the "MASTER" menu and press ENTER.



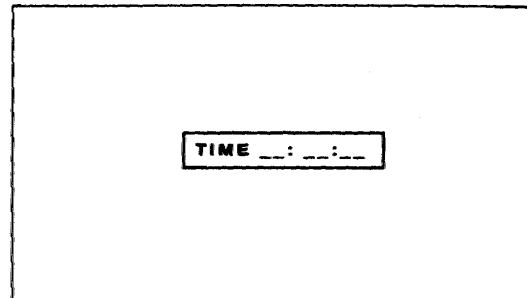
3) Use the CURSOR  or  button to select the input slot number of the slave Switcher from the "SLAVE" menu and press ENTER.

- The "TIME" input screen will be displayed.



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

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

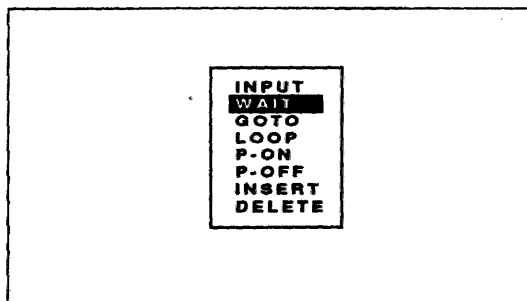


**NOTE:** Typing 99:99:99 in the time input menu will execute the program immediately. (See the examples in the following "WAIT" section.)

■ Selecting "WAIT"

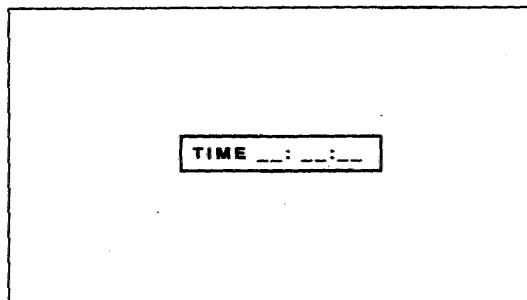
1) Use the CURSOR  or  button to select "WAIT" and press ENTER.

- The "TIME" input screen will appear.



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.



• Examples:

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.

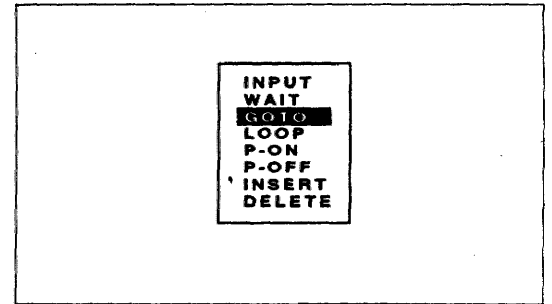
OPTION		- SEQUENCER -	
P01			
NO	INPUT	TIME	SMTWTF5
01	VIDEO		0000000
02	WAIT	00:20:00	
03	P-OFF		0000000
04			
05			
06			
07			
08			
09			
10			
START		EDIT	

## SETTING

### ■Selecting "GOTO"

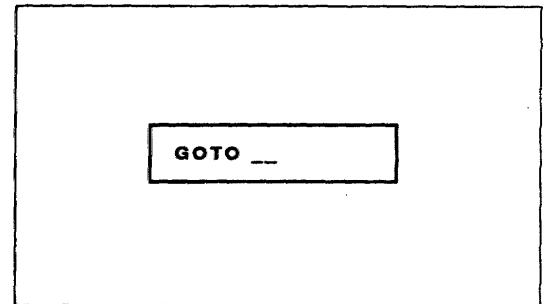
1) Use the CURSOR  $\Delta$  or  $\nabla$  button to select "GOTO" and press ENTER.

- The "GOTO" input screen displayed.



2) Enter the scan number line to which you want to jump to using the INPUT button and press ENTER.

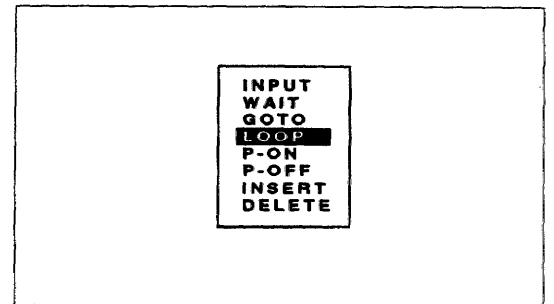
- If you have made an error, press END to return to the Program menu, then start again.
- The "SEQUENCER" screen will be restored to its last setting.



### ■Selecting "LOOP"

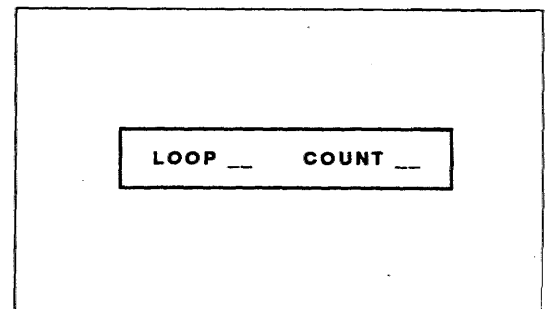
1) Use the CURSOR  $\Delta$  or  $\nabla$  button to select "LOOP" and press ENTER.

- 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.

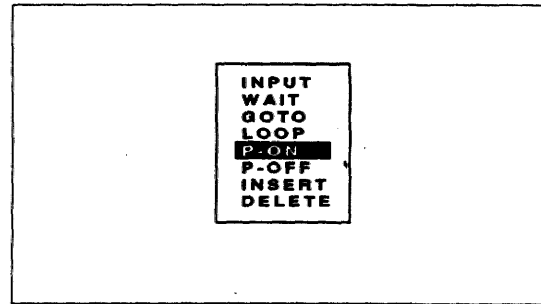
- If you have made an error, press END to return to the Program menu, then start again.
- The "SEQUENCER" screen will be restored to its last setting.



**■Selecting "P- ON"**

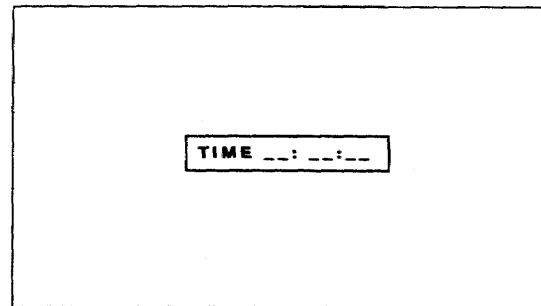
1) Use the CURSOR  or  button to select "P- ON" and press ENTER.

- 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.



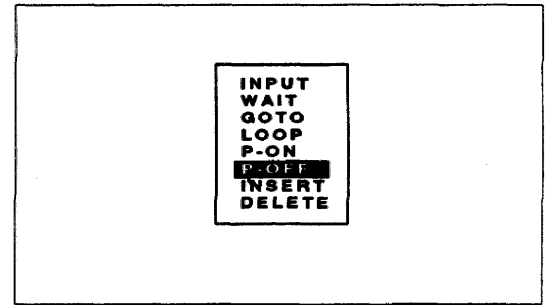
## SETTING

---

### ■ Selecting "P- OFF"

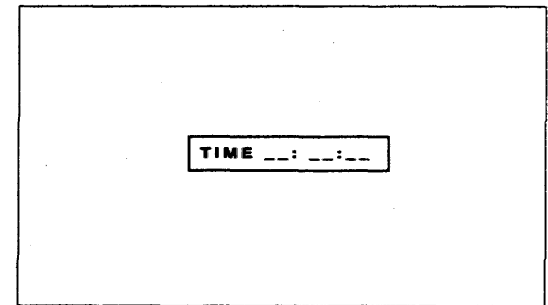
1) Use the CURSOR  or  button to select "P- OFF" and press ENTER.

- The POWER OFF input screen will be displayed.



2) Enter the POWER OFF TIME you wish to turn off the projector using INPUT buttons and press ENTER.

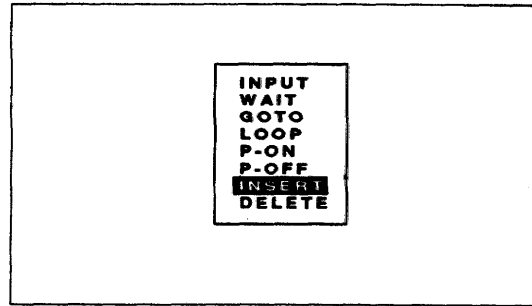
- Type the time in hours (24 hours), minutes, and seconds.
- If you made an error, press END return to the Program menu, then start again.



**NOTE:** Typing 99:99:99 in the time input menu will execute the program immediately. (See examples in the "WAIT" section on page 117)

■Selecting "INSERT"

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



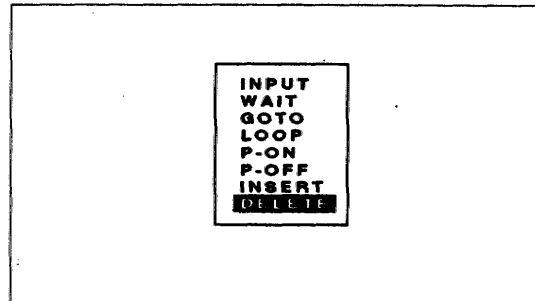
2)Use the CURSOR  or  button to select where you wish to insert a vacant line and press ENTER.

- The highlighted line will be switched to a vacant line and the original line(s) will be moved down.

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

■Selecting "DELETE"

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



2)Use the CURSOR  or  button to select the line you wish to delete and press ENTER.

- The selected line will be deleted and the following line(s) will move up.

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

## SETTING

- ⑦ Pressing the END button will exit the "EDIT" mode.  
 Select "START" and press ENTER to execute the program.
- The "\*\*EXECUTING NO. XX\*\*" will appear during program execution. When the program is finished, the "\*\*SEQUENCER END\*\*" message will appear for about 5 seconds.  
 To cancel the program, hold down the CTL button then press END. The "\*\*SEQUENCER MANUAL END\*\*" will appear for about 5 seconds.

- ⑧ To end this mode, press the END button.
- Whenever the END button is pressed, the menus will sequence in this order:  
 "SEQUENCER" screen → "ADJUST" menu → Source screen  
 (No highlighted line)
  - 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.

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		
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

RETURN USER MODE ?

## 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 76 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 "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.

- 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.

```

- 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
-PJ ADDRESS-

01 (01-64)
  
```

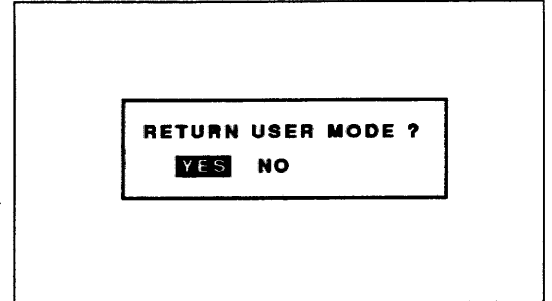
## SETTING

---

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

### Items to select

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



## 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 76 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.

```

- 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  1.0
SOFTWARE VERSION
  BIOS             1.00
  APPLICATION      1.00
  DATA            1.00
  SUB-CPU          1.00
  POINT            1.00
  SWITCHER        1.00
  
```

```

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.

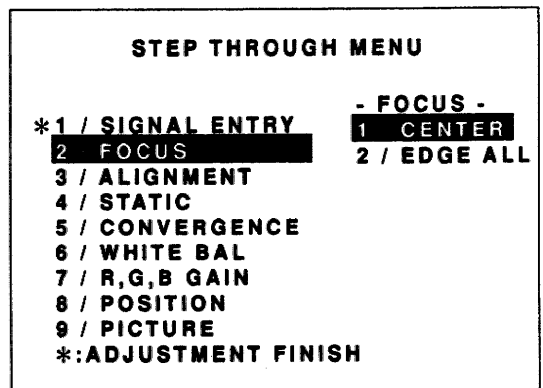
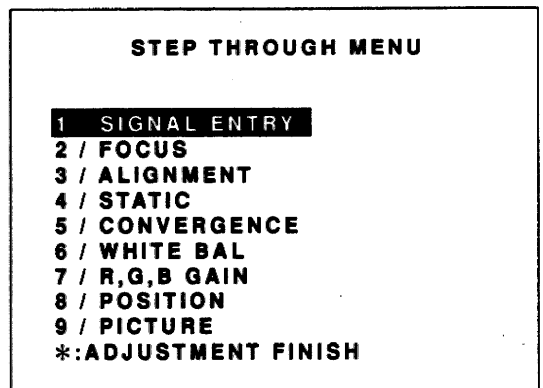
## SETTING

### 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 Setup Procedure shown on page 50.

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 76 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 36 for more details.
- 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.
- ④ To stop this mode, press END.
  - When you try to exit this mode, the "STORE ?" menu will be displayed.



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

**Items to select**

- YES ---The data will be stored
- NO -----The data will not be stored

- To exit this mode without storing the current settings, select "NO".
- 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 re-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.

**STORE?**

YES      NO

**RETURN USER MODE ?**

YES      NO







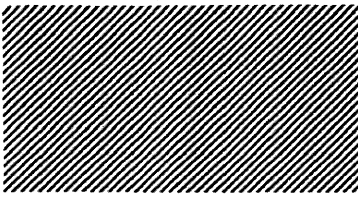
# Appendix



## Timing Charts

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# TIMING CHARTS

## Pre-set Signals

The following signals have been set by factory.

### ■ MultiSync 6PG PLUS

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			
07			
08			
09			
10			

P06 INPUT SELECT			
STANDALONE			
NO	INPUT	NAME	DATE
51	VIDEO	NTSC3.58	**/**/**
52	VIDEO	PAL	**/**/**
53	RGB	CGA	**/**/**
54	RGB	EGA	**/**/**
55	RGB	VGA350	**/**/**
56	RGB	VGA400	**/**/**
57	RGB	MAC2	**/**/**
58	RGB	IDTV	**/**/**
59	RGB	HDTV	**/**/**
60	RGB	VESA800	**/**/**

P07 INPUT SELECT			
STANDALONE			
NO	INPUT	NAME	DATE
61	RGB	VESA1024	**/**/**
62			**/**/**
63			**/**/**
64			**/**/**
65			**/**/**
66			**/**/**
67			**/**/**
68			**/**/**
69			**/**/**
70			**/**/**

■ MultiSync 9PG PLUS

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			
07			
08			
09			
10			

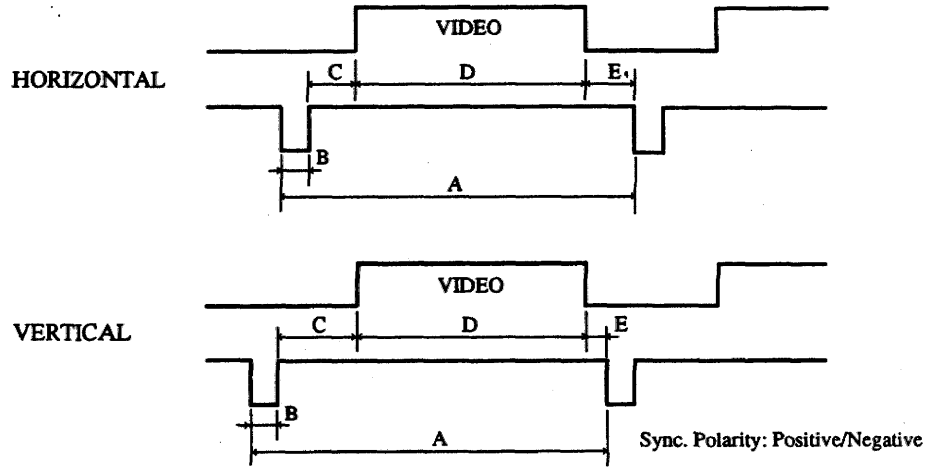
P06 INPUT SELECT			
STANDALONE			
NO	INPUT	NAME	DATE
51	VIDEO	NTSC3.58	****/*
52	VIDEO	PAL	****/*
53	RGB	CGA	****/*
54	RGB	EGA	****/*
55	RGB	VGA350	****/*
56	RGB	VGA400	****/*
57	RGB	MAC2	****/*
58	RGB	IDTV	****/*
59	RGB	HDTV	****/*
60	RGB	VESA800	****/*

P07 INPUT SELECT			
STANDALONE			
NO	INPUT	NAME	DATE
61	RGB	VESA1024	****/*
62	RGB	QUADRA	****/*
63	RGB	HP-WS	****/*
64			****/*
65			****/*
66			****/*
67			****/*
68			****/*
69			****/*
70			****/*

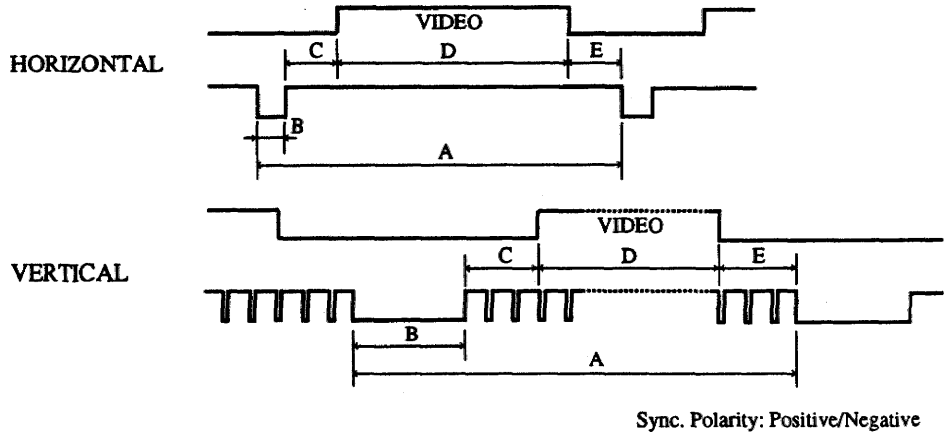
# TIMING CHARTS

## Input Signal Reference Chart

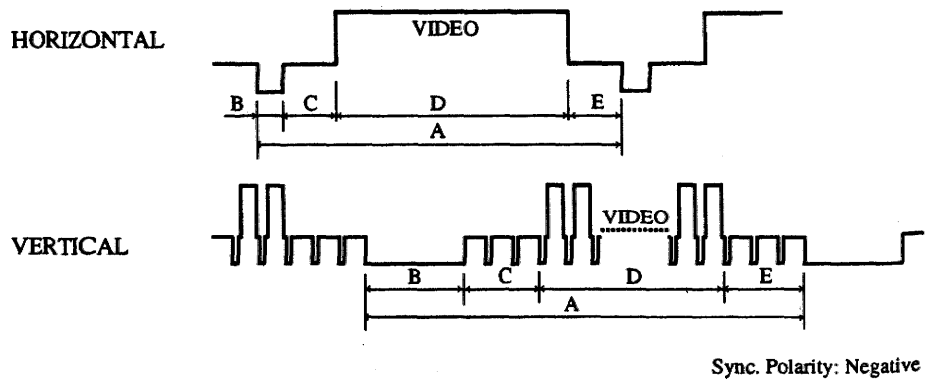
### Separate Sync.



### Composite Sync.



### Composite Sync. & Video (Sync. on Green)



## Input Signal Timing

		A	B	C	D	E	Polarity
IBM CGA	H $\mu$ s	63	4.2	7.2	45	6.6	+
	V ms	16.4	0.075	1.525	12.6	2.2	+
IBM EGA	H $\mu$ s	45.5	4.9	1.6	39	0	+
	V ms	16.68	0.6	0.08	16	0	-
IBM VGA 350	H $\mu$ s	31.8	3.8	1.6	26.1	0.3	+
	V ms	14.3	0.06	1.72	11.53	0.99	-
IBM VGA 400	H $\mu$ s	31.8	3.8	1.6	26.1	0.3	-
	V ms	14.3	0.06	0.89	13.19	0.16	+
IDTV	H $\mu$ s	31.78	2.76	1.6	26.29	1.13	-
	V ms	16.67	0.64	0.77	15.14	0.12	-
Macintosh II	H $\mu$ s	28.57	2.12	3.17	21.16	2.12	
	V ms	15	0.09	1.11	13.71	0.09	
IBM VGA 480	H $\mu$ s	31.8	3.8	1.6	26.1	0.3	-
	V ms	16.7	0.06	0.79	15.79	0.06	-
Macintosh Quadra	H $\mu$ s	14.64	1.30	1.32	11.56	0.46	
	V ms	13.342	0.044	0.574	12.68	0.044	
VESA 800x600 (72Hz)	H $\mu$ s	20.8	2.4	1.28	16.00	1.12	
	V ms	13.887	0.124	0.479	12.510	0.722	
VESA 1024x768 (60Hz)	H $\mu$ s	20.677	2.092	2.462	15.754	0.369	
	Vms	16.667	0.124	0.600	15.880	0.062	

- IBM CGA, EGA and VGA are registered trademarks of International Business Machines Corporation.
- Apple and Macintosh are registered trademarks of Apple Computer Inc. Macintosh II and Macintosh Quadra are trademarks of Apple Computer Inc.
- VESA is an abbreviation for Video Electronics Standards Association.

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