

INTRODUCTION

Before operating this projector, please read this manual carefully and completely. This manual will provide you with the basic instructions for operation of the projector. Installation, preliminary adjustments and procedures which require the opening of the projector and contact with electrical components should be performed by service personnel. For continued safe and reliable operation, use only cables supplied by the manufacturer for power. Adhere to all notes and warnings.

Features

- ▶ Multi scan circuit automatically locks on video, superdata from 15 to 69 kHz (PG-6200/6200G) and graphics signals from 15 to 100 kHz (PG-9200/9200G).
You can interface video and high resolution RGB signals from various computers, workstations and graphics boards.
- ▶ 7" CRTs with deflection angle 90 degrees produce a detailed picture with a resolution of 1600×1200 pixels (PG-9200/PG-9200G) and 1280×1024 pixels (PG-6200/PG-6200G).
- ▶ Newly developed video output circuit makes possible 100 MHz of Video Bandwidth and 1000 lumens of light output.
- ▶ ECP lens produces an image with true color reproduction.
- ▶ AKB circuit provides stable white balance.
- ▶ Display size can be altered to accommodate any picture size from 60" to 300" diagonal. In addition to ceiling mounting, floor, desk top and rear installations are possible. (The ceiling mounting kits can be purchased as an optional item for ceiling installation.)
- ▶ Digital point convergence provides high accuracy for a projecting fine graphic displays. (This can be purchased as an optional item for the PG-6200/PG-6200G.)
- ▶ On-screen menus provide easy access to adjustment items.
- ▶ ISS-6010/ISS-6010G interface allows 10-100 inputs.
- ▶ Video system compatible with NTSC, PAL, SECAM and NTSC 4.43.
- ▶ Up to 100 convergence patterns can be stored in the stand alone mode in digital memory.
- ▶ Quick copy convergence for fast easy set up from one pre-set signal.
- ▶ Built in self diagnostics for on-sight troubleshooting.
- ▶ Built in "CROSS HAIR", "CROSS HATCH", "DOT", "WINDOW" and "H (FOCUS)" test patterns for accurate setup.
- ▶ Source information status display.
- ▶ The SEQUENCER function allows the projector to automatically select input signals one after another as programmed by the user.

Important Safeguards

The following are important safety instructions designed to ensure the long life of your projector and to prevent fire and shock hazards. Be sure to read these safety instructions carefully and follow all warnings given below.

Installation

The projector must be installed by trained personnel.

Place the projector on a flat, level surface and in a dry area free from dust and moisture. Do not place the projector in direct sunlight, near stoves or other heat radiating appliances. Smoke, steam and exposure to direct sunlight could adversely affect the internal components. Avoid rough handling when moving your equipment as a strong shock could damage its internal components. If installing the projector on the ceiling, use only optional ceiling kits (two types) supplied by the manufacturer. Observe all instructions and warnings. Since installing the projector on the ceiling requires special techniques and a optional ceiling kit, users must not try to install it. Contact your dealer for ceiling installation. When ordering the ceiling kit, specify the part name, PG CMKIT-F or PG CMKIT.

Power supply

The PG-6200 and PG-9200 projector are designed to operate on 120 V 60 Hz, and the PG-6200G and PG-9200G are designed to operate on 220-240 V 50 Hz AC power supply. Make sure your local power supply matches these requirements before operation.

Handle the power cord carefully and avoid excessive bending. A damaged cord may cause electric shock or fire. If the projector is not to be used for an extended period, remove the plug from the power outlet.

Cleaning

Unplug the projector from the power outlet before cleaning.

Clean the cabinet and front panel periodically with a soft cloth. If heavily stained, use a mild detergent solution. Never use strong detergents or solvents such as alcohol or thinner to clean your projector.

Lens cleaning: Avoid touching the lens surfaces.

Special coating is applied to the lens surfaces.

Consult your dealer for lens cleaning.

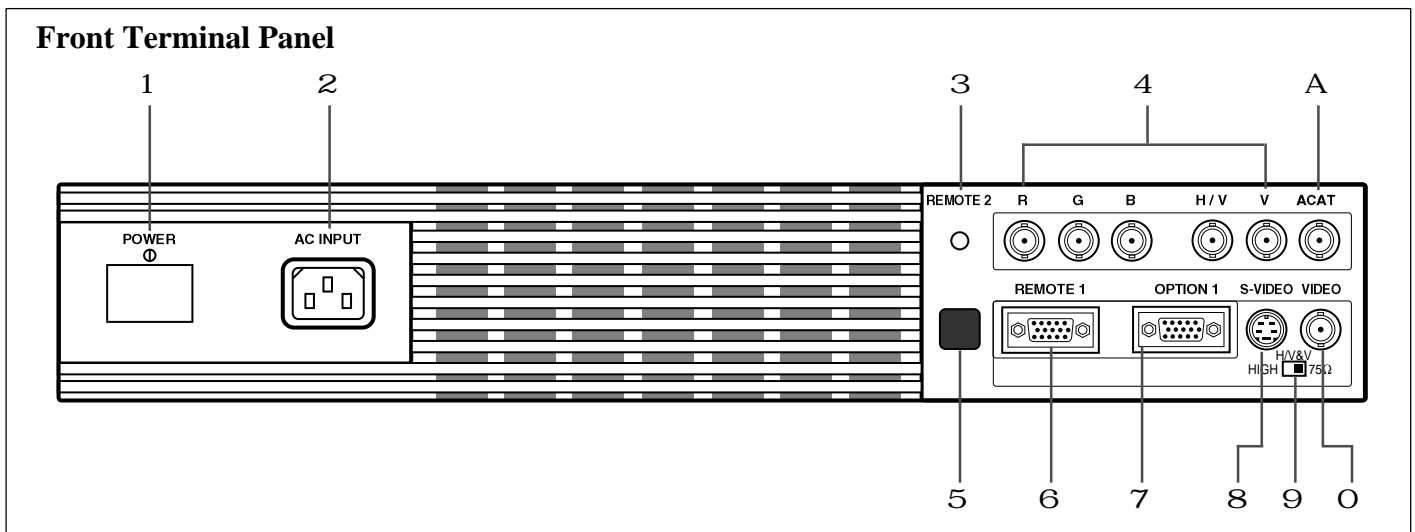
Fire and Shock Precautions

Adequate ventilation must be provided to prevent heat build-up inside the projector. Make sure the ventilation holes are unobstructed.

Keep the inside of the projector free from foreign objects, such as paper clips, nails, paper, etc. Do not attempt to retrieve such objects yourself or insert metal objects such as wire and screw-drivers inside the projector. If a hazardous object falls inside the projector, unplug it immediately and call a qualified electrical repairman for removal.

Do not set liquids on top of the projector.

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

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

7 OPTION 1 Input Terminal

For future system expansion.

8 S-VIDEO Input Terminal

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

9 H/V, V Impedance Switch(HIGH/75 Ω)

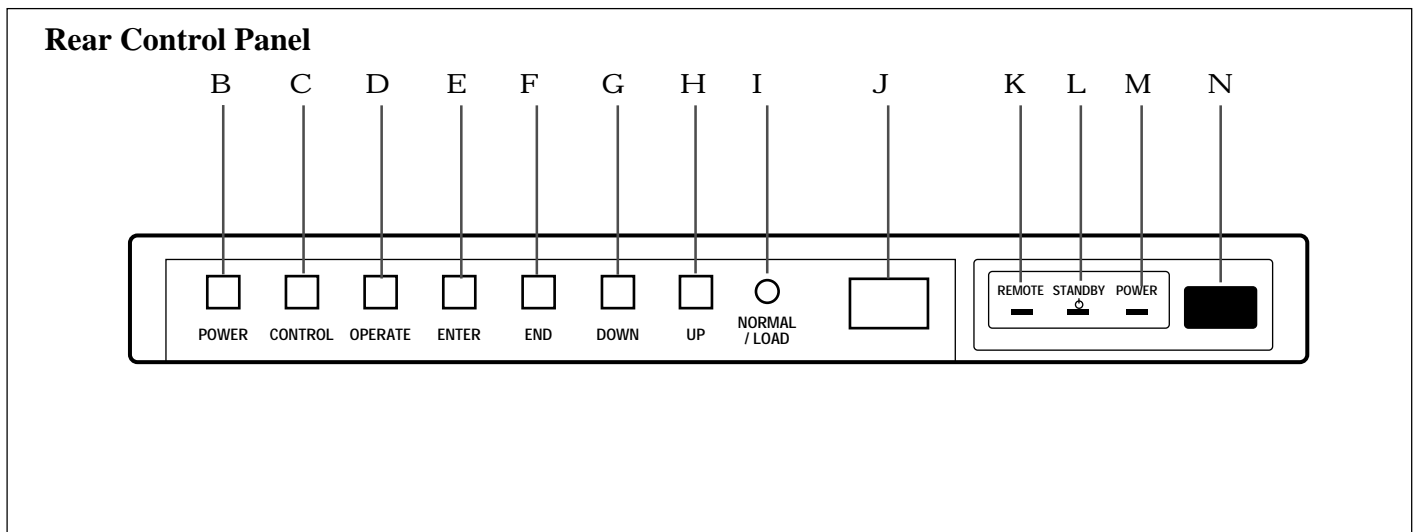
Selects the impedance of the H/V and the V terminals. In normal operation, set at the “75Ω” position. Slide the switch to the “HIGH” position when inputting a TTL signal.

0 VIDEO Input Terminal

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

A ACAT Terminal

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



B 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).

C 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.

D 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.


E ENTER Button

Executes menu selection and switches input.


F END Button

Exits the adjustment mode.

G 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.

H 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.

I 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).

J Two Digit Display

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

K REMOTE Indicator

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

L 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.

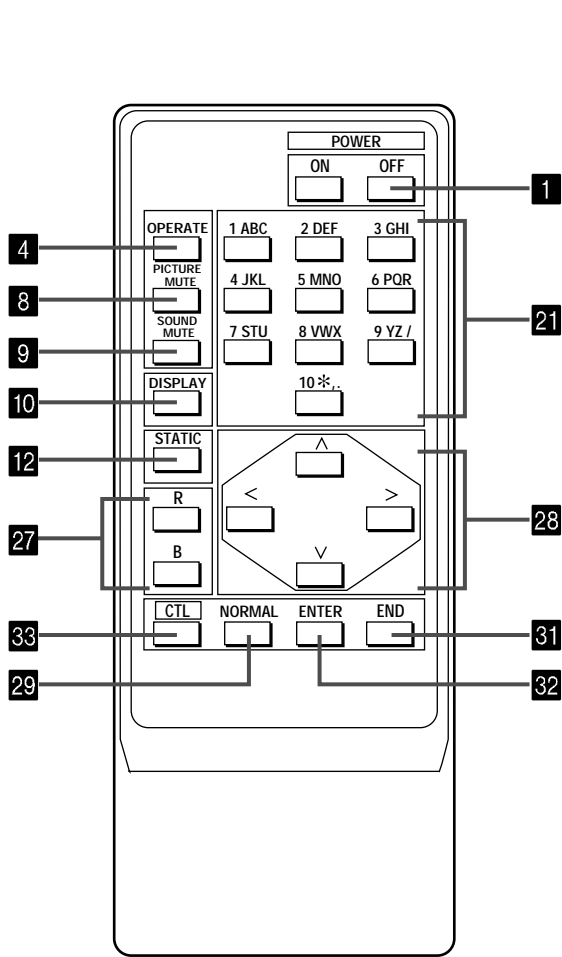
M POWER Indicator

Lights up when the projector is turned on.

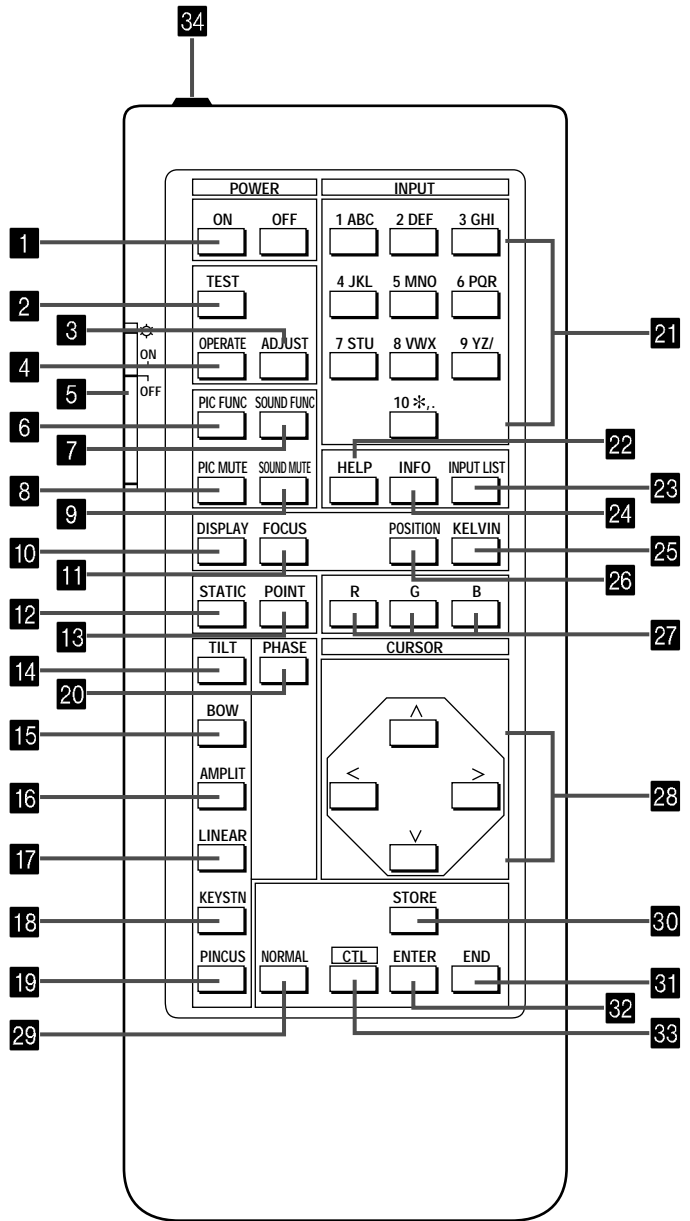
N Remote Sensor

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

Remote control unit



User Remote Control
RC-6020



Full Function Remote Control
RC-6051

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

1 POWER Buttons (ON/OFF)

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

2 TEST Button

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

3 ADJUST Button

Press to display the “ADJUST” menu.

4 OPERATE Button

Press to display the “OPERATE” menu.

5 Backlight Switch

Turns the backlight on and off.

If another button operation is not made within 30 seconds during the Backlight ON, the Backlight is normally turned off to conserve the batteries.

6 PIC FUNC Button

Press to display the picture adjustment screen.

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

7 SOUND FUNC Button

Press to display the VOLUME adjustment screen. You can adjust the volume of the ISS-6010/ISS-6010G Switcher.

8 PICTURE (PIC) MUTE Button

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

9 SOUND MUTE Button

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

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

○ DISPLAY Button

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

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

A FOCUS Button

Press to enter the FOCUS mode.

B STATIC Button

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

C POINT Button

(When the point convergence board installed)

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

D TILT Button

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

E BOW Button

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

F AMPLIT Button

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

G LINEAR Button

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

H KEYSTN Button

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

I PINCUS Button

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

J PHASE Button

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

K INPUT Button

Selects menus and switches input signals.

L HELP Button

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

M INPUT LIST Button

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

N INFO Button

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

O KELVIN Button

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

P POSITION Button

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

Q R, G, and B Buttons

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

R CURSOR Buttons

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

S NORMAL Button

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

T STORE Button

Memorizes the adjustments setting of each signal separately.

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

U END Button

Ends the adjustment mode.

V ENTER Button

Executes menu selection and switches to selected input.

W CTL Button

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

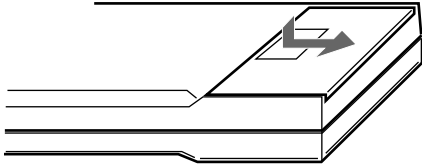
X Remote Control Jack



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

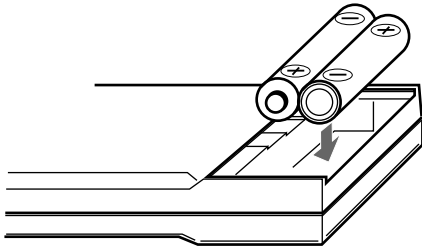
Battery installation and replacement

User remote control (RC-6020)

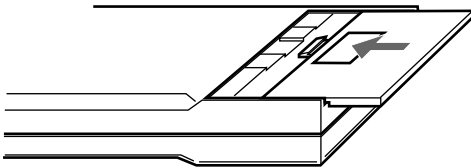
- 1 Press down on the battery compartment cover and slide the cover in the direction of the arrow.



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



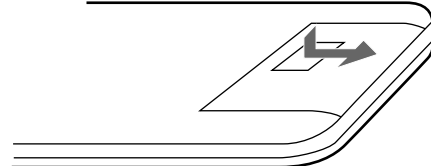
- 3 Close the battery compartment cover.





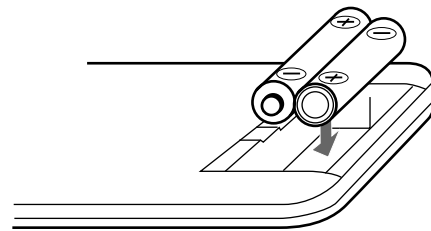
NOTE: The remote control is powered by two alkaline 1.5V AA batteries.

Full function remote control (RC-6051)

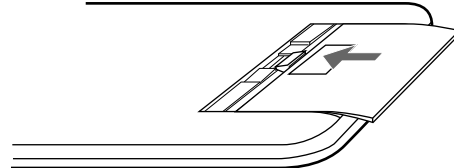
- 1 Press down on the battery compartment cover and slide the cover in the direction of the arrow.



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



- 3 Close the battery compartment cover.



Remote control cautions

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

Handling remote control and batteries

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

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 12 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 :

1) Set the focus ring to the proper position.	
For 60" screen size R —A-2, B-2 G —A-1, B-2 B —A-2, B-2	For 200-300" screen size R —A-5, B-5 G —A-1, B-5 B —A-5, B-5
2) Adjust the angle of the CRT's.	
For 60" screen size Move the CRT to the 60 position	For 200-300" screen size Move the CRT to the 200 or 300 position
3) Adjust the decorative lens panel.	
For 60" screen size Adjust to match the 60 position	For 200-300" screen size Adjust to match the 200 or 300 position
4) Degauss the projector. See "Degaussing" on page 64 in the set-up manual.	

To change to the desk top system (front)

1) Reverse the scan.	
H —1-Red, 2-Blue V —1-Brown, 2-Yellow A —1-Blue, 2-Red B —1-Brown, 2-Yellow	
2) Set the focus ring to the proper position.	
For 60" screen size R —A-2, B-2 G —A-1, B-2 B —A-2, B-2	For 200-300" screen size R —A-5, B-5 G —A-1, B-5 B —A-5, B-5
3) Adjust the angle of the CRT's.	
For 60" screen size Move the CRT to the 60 position	For 200-300" screen size Move the CRT to the 200 or 300 position
4) Adjust the decorative lens panel.	
For 60" screen size Adjust to match the 60 position	For 200-300" screen size Adjust to match the 200 or 300 position
5) Degauss the projector. Select installation type from ASTIG OUTPUT. See "ASTIG OUTPUT" on page 62 in the set-up manual.	

To change to the ceiling mount system (rear)

1) Reverse the scan.	
H — 1-Red, 2-Blue V — 1-Yellow, 2-Brown A — 1-Blue, 2-Red B — 1-Yellow, 2-Brown	
▼	
2) Set the focus ring to the proper position.	
For 60" screen size R — A-2, B-2 G — A-1, B-2 B — A-2, B-2	For 200-300" screen size R — A-5, B-5 G — A-1, B-5 B — A-5, B-5
▼	
3) Adjust the angle of the CRT's.	
For 60" screen size Move the CRT to the 60 position.	For 200-300" screen size Move the CRT to the 200 or 300 position
▼	
4) Adjust the decorative lens panel.	
For 60" screen size Adjust to match the 60 position	For 200-300" screen size Adjust to match the 200 or 300 position
▼	
5) Degauss the projector. See "Degaussing" on page 64 in the set-up manual.	

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

1) Reverse the scan.	
H — 1-Blue, 2-Red V — 1-Brown, 2-Yellow A — 1-Red, 2-Blue B — 1-Brown, 2-Yellow	
▼	
2) Set the focus ring to the proper position.	
For 60" screen size R — A-2, B-1 G — A-1, B-1 B — A-2, B-1	For 200-300" screen size R — A-5, B-1 G — A-1, B-1 B — A-5, B-1
▼	
3) Adjust the angle of the CRT's.	
For 60" screen size Move the CRT to the 60 position.	For 200-300" screen size Move the CRT to the 200 or 300 position
▼	
4) Adjust the decorative lens panel.	
For 60" screen size Adjust to match the 60 position	For 200-300" screen size Adjust to match the 200 or 300 position
▼	
5) Degauss the projector. Select installation type from ASTIG OUTPUT. See "ASTIG OUTPUT" on page 62 in the set-up manual.	

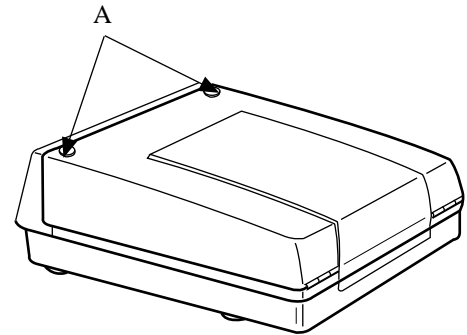
Opening Top Cover

CAUTION:

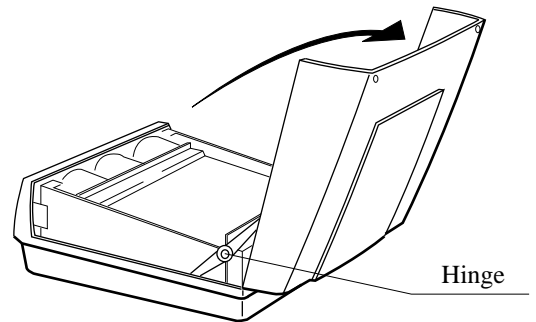
- Be sure to turn off the projector and unplug the power cord before opening the top cover.

To open the top cover, proceed as follows:

- 1 Loosen two screws A.
 - A is a retaining screw.

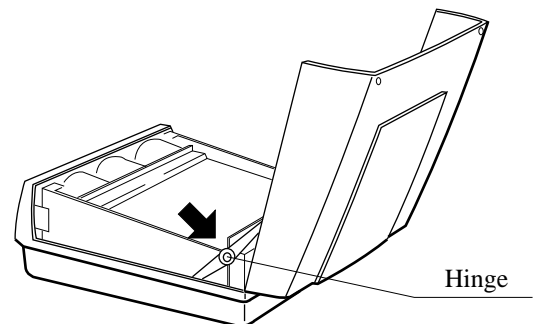


- 2 Raise the top front of the projector in the direction of the arrow.
 - Be sure to open the top cover until the hinges lock.



- 3 To close it, push the hinges in the direction of the arrow, then close the top cover.

- 4 Tighten the two A screws.



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:

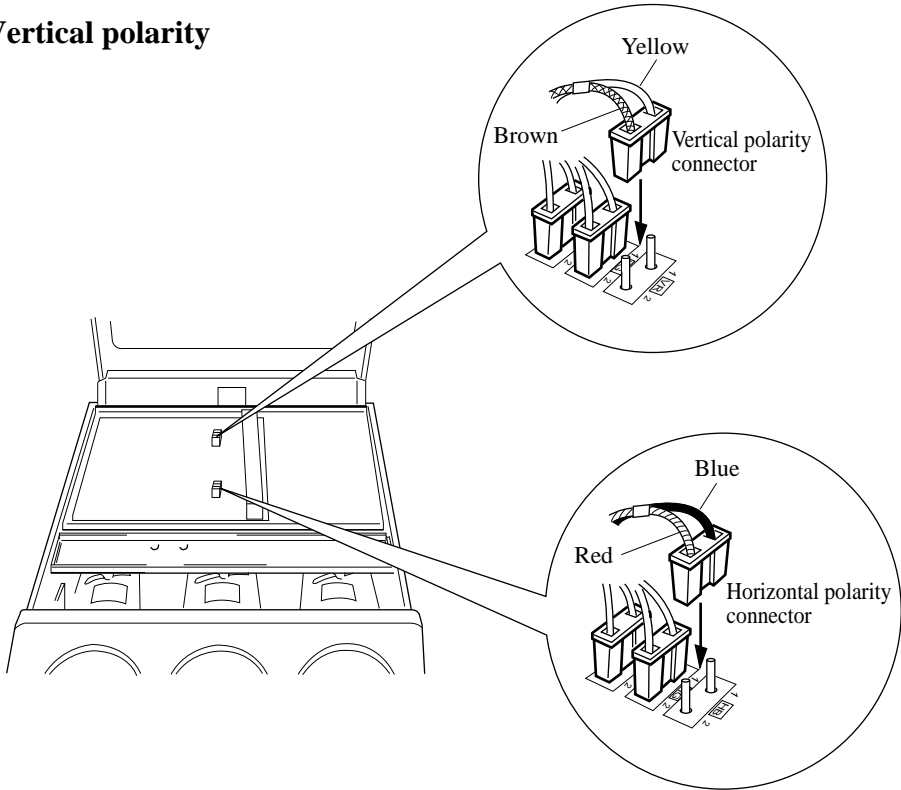
CAUTION: Always disconnect the projector from the AC source before reversing the plug. Failure to observe this precaution may result in electric shock or damage to the projector.

- 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)

Setting \ Connector pin	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

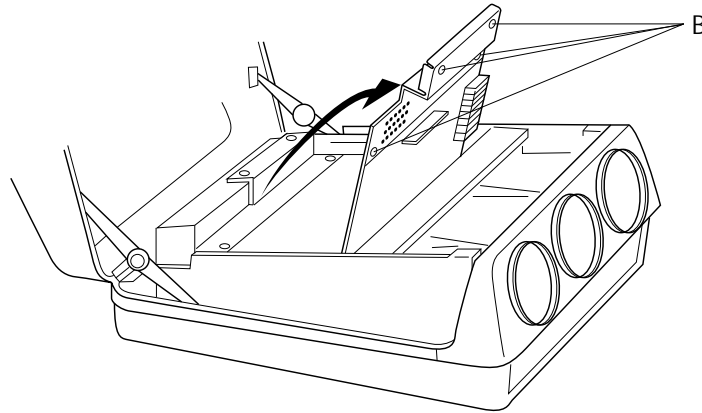
NOTE: The table is for non mirror applications.

Horizontal and Vertical polarity



PROJECTION CONFIGURATION CHANGE

- 3 Loosen the four screws B, then lift the upper chassis(DFC).
 • B is a retaining screw.

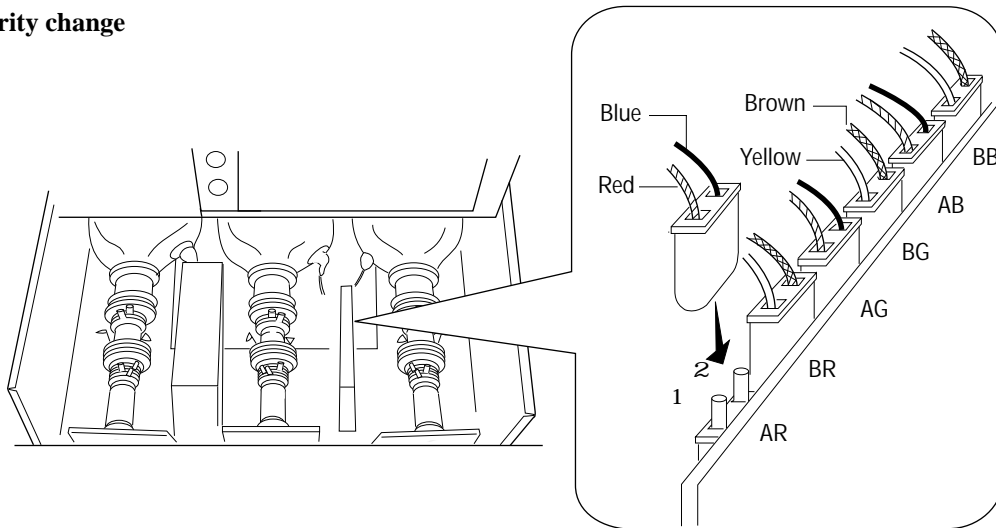


- 4 Reverse the convergence connectors (AR, BR, AG, BG, AB and BB) on CONV-DRIVE.
 See Table below.

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.

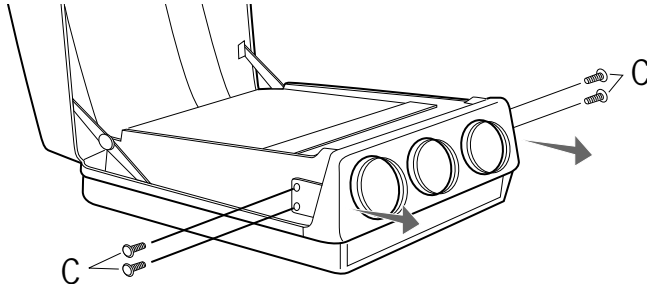
Convergence polarity change



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

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 12 degrees. The projector can be used in either 12 or zero degree application. Before the following procedures, remove the front panel by removing the four screws C which hold the front panel. There are two screws on each side.

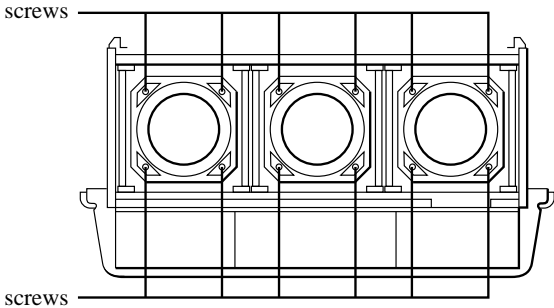


• Adjusting Focus Rings

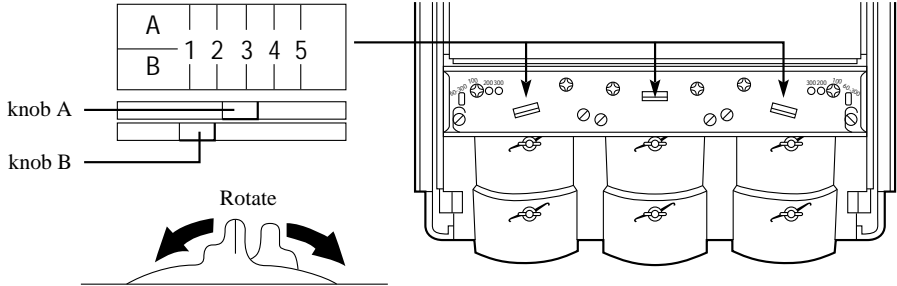
There are three sets of adjusting focus rings, two between each CRT and lens. These focus rings are used for maintaining optimum edge focus for the various screen sizes and projection angles. *When setting the focus rings or changing CRT angle, you must first remove the front panel.

- 1 Loosen the four screws at the lens.

CAUTION: Be careful not to remove any of the four screws completely. The 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 at the lens.

Position of Knobs

Projection angle and screen size(Diagonal)	CRT	R		G		B	
		Knob		Knob		Knob	
		A	B	A	B	A	B
12°	60" – 90"	2	2	1	2	2	2
	91" – 130"	3	3	1	3	3	3
	131" – 170"	4	4	1	4	4	4
	171" – 300"	5	5	1	5	5	5
0°	60" – 90"	2	1	1	1	2	1
	91" – 130"	3	1	1	1	3	1
	131" – 170"	4	1	1	1	4	1
	171" – 300"	5	1	1	1	5	1

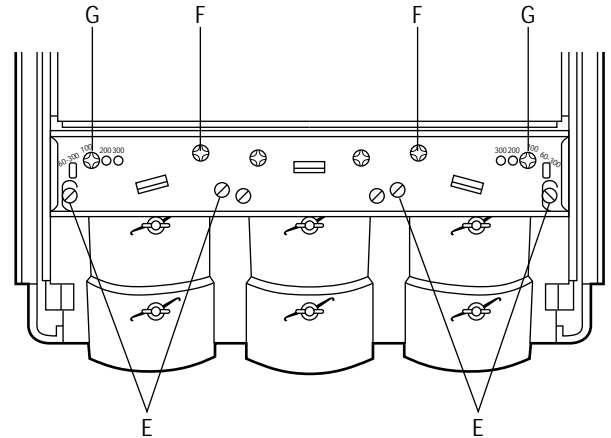
PROJECTION CONFIGURATION CHANGE

• 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.

NOTE: 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. After doing this, adjust the static convergence and the lens focus (see the next page).



Then tighten the screws G.

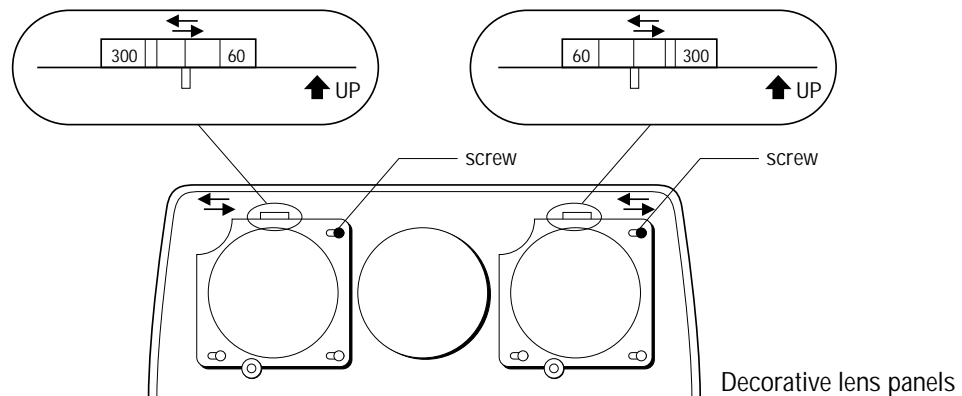
Metal impression stamp screen size	60-300	100	200	300
Range of screen size (diagonal)	60"-300"	100"	200"	300"

• Adjusting Decorative Lens Panels

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

- Tighten the screws after completing the above procedures.
- Reinstall the front panel, then replace and tighten the four screws.



Lens Focus Adjustment

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

NOTE:

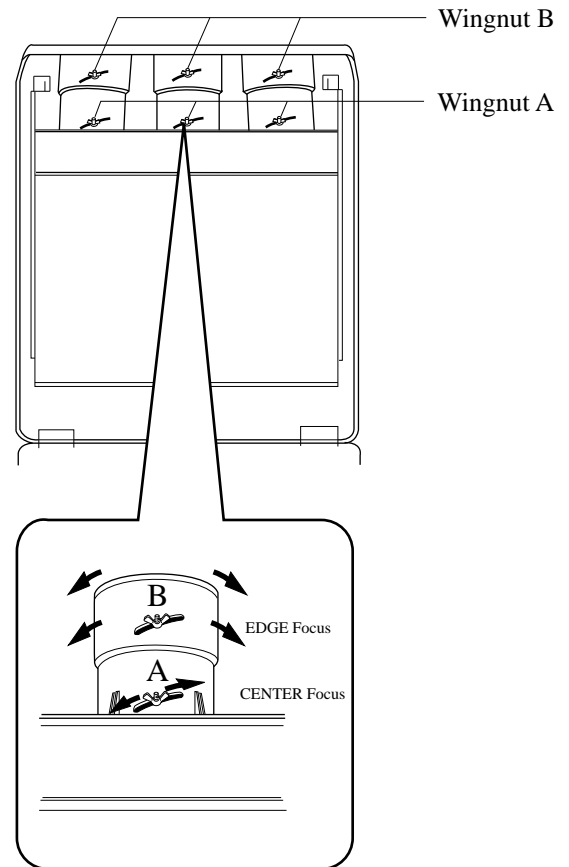
- Plug the power cord and turn on the projector before adjustment.
- The lens focus adjustment must be performed for each lens.
- Select the FOCUS test pattern using the TEST button on the full function remote control.

Proceed as follows:

- 1 Press the R, G, or B button on the full function remote control 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.
- 6 Close the top cover.

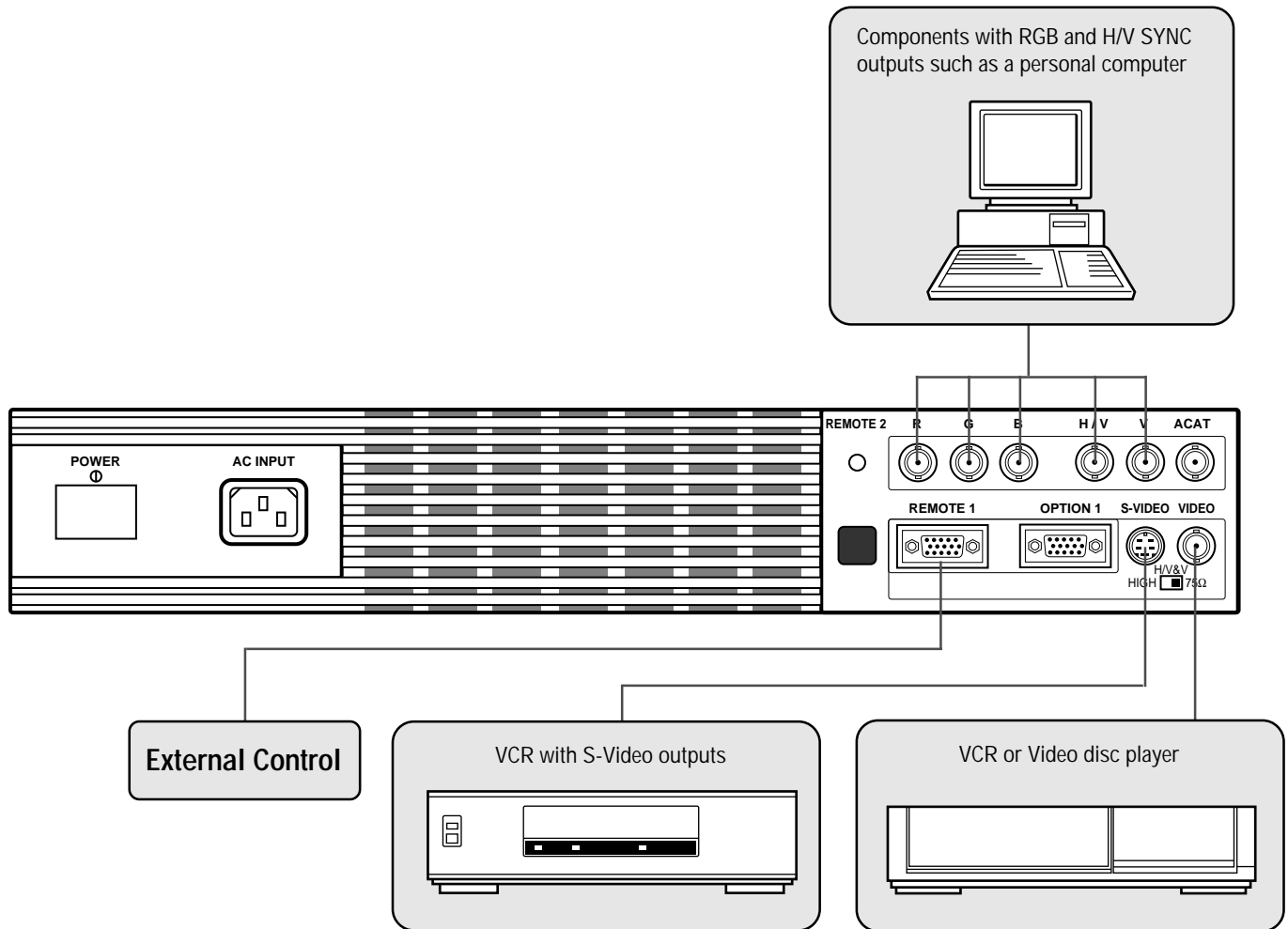


EXAMPLES OF CONNECTIONS

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

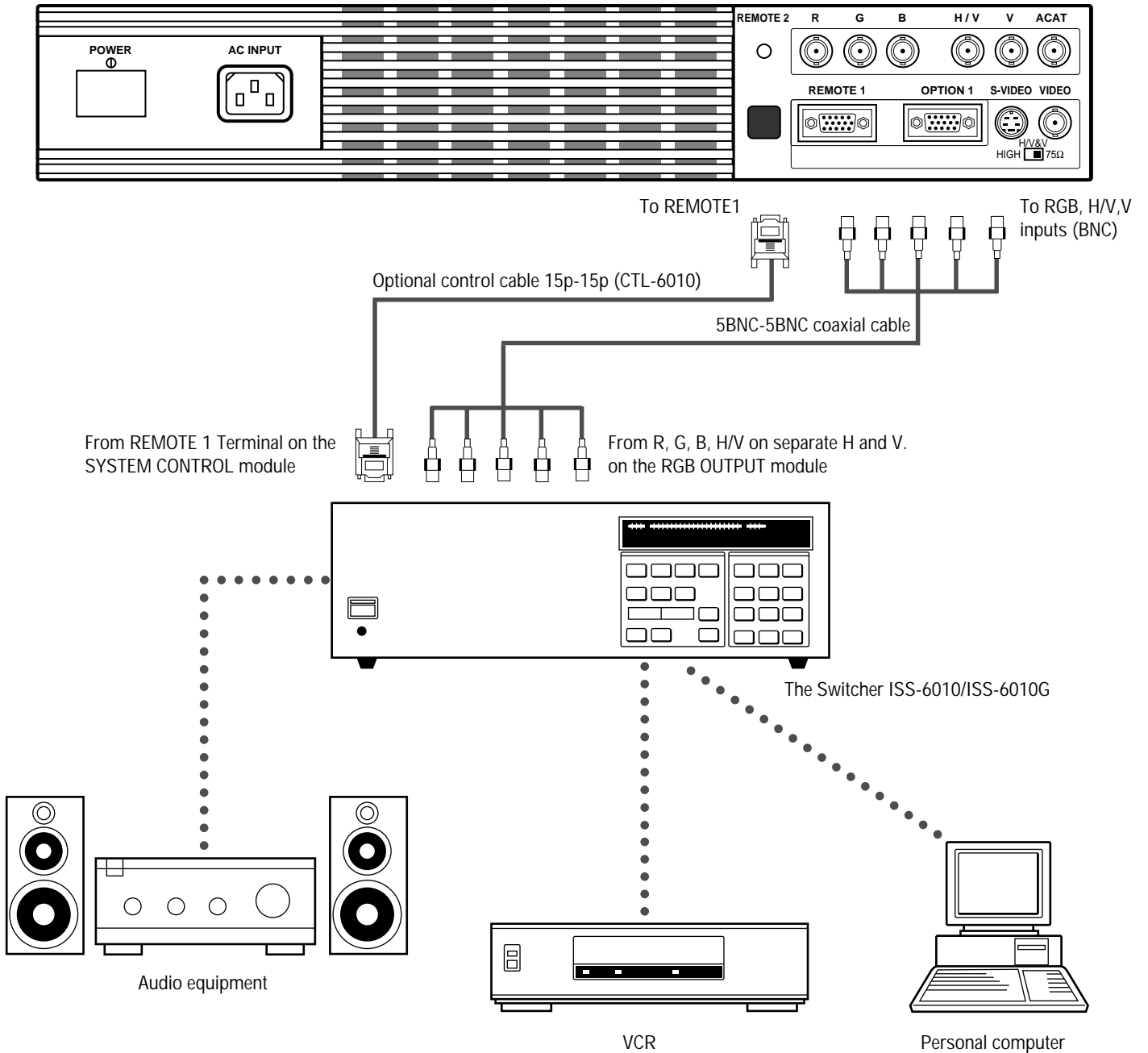


NOTE: This projector does not have built-in speakers.

- Make sure that the STANDALONE mode is selected from the CONNECT CONDITION menu. Contact your dealer for the information in detail.

When Used with One Switcher (ISS-6010/ISS-6010G)

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. Contact your dealer for the information in detail.
- 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)

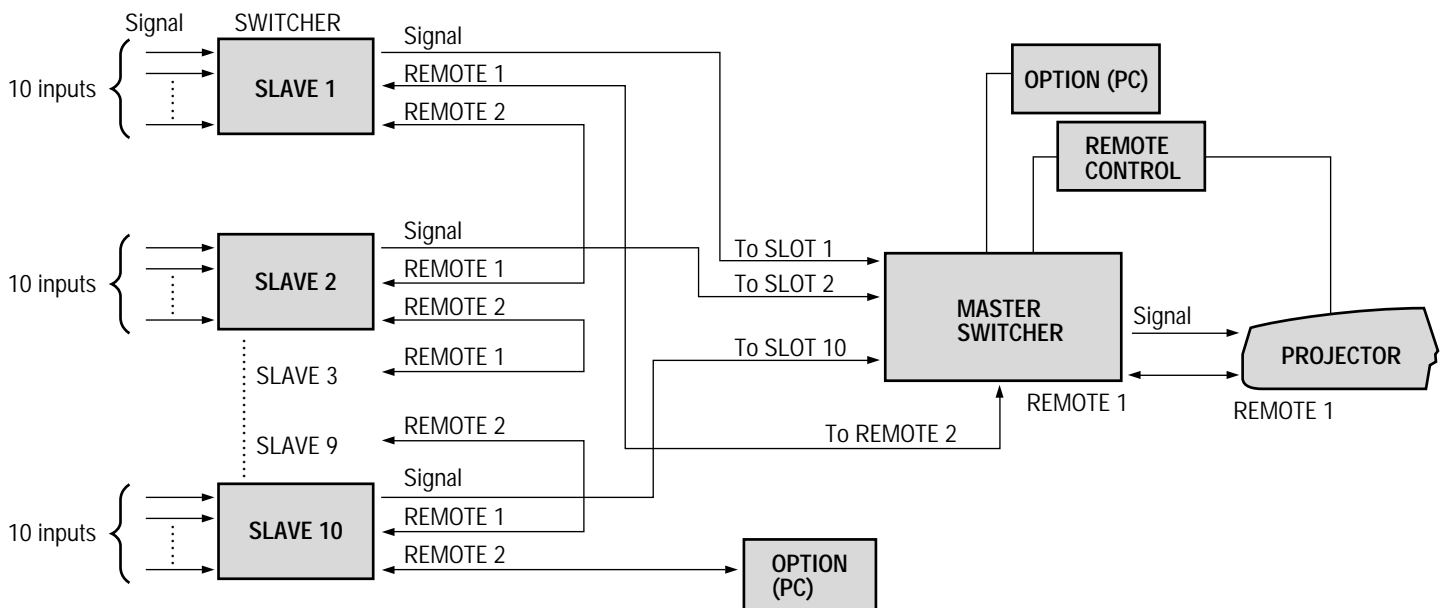
Up to 100 inputs can be accepted using the Switcher.

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 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/RS-232C 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. Contact your dealer for the information in detail.
- Refer to the user's manual accompanying the Switcher.
- Cables mentioned are not included with the projector.

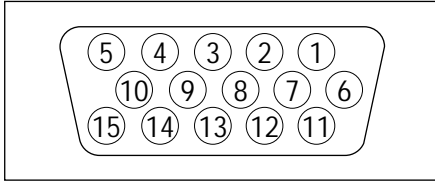
Set the DIP switch (S8601) of the Switcher as follows:

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

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	

EXAMPLES OF CONNECTIONS

REMOTE 1 Terminal

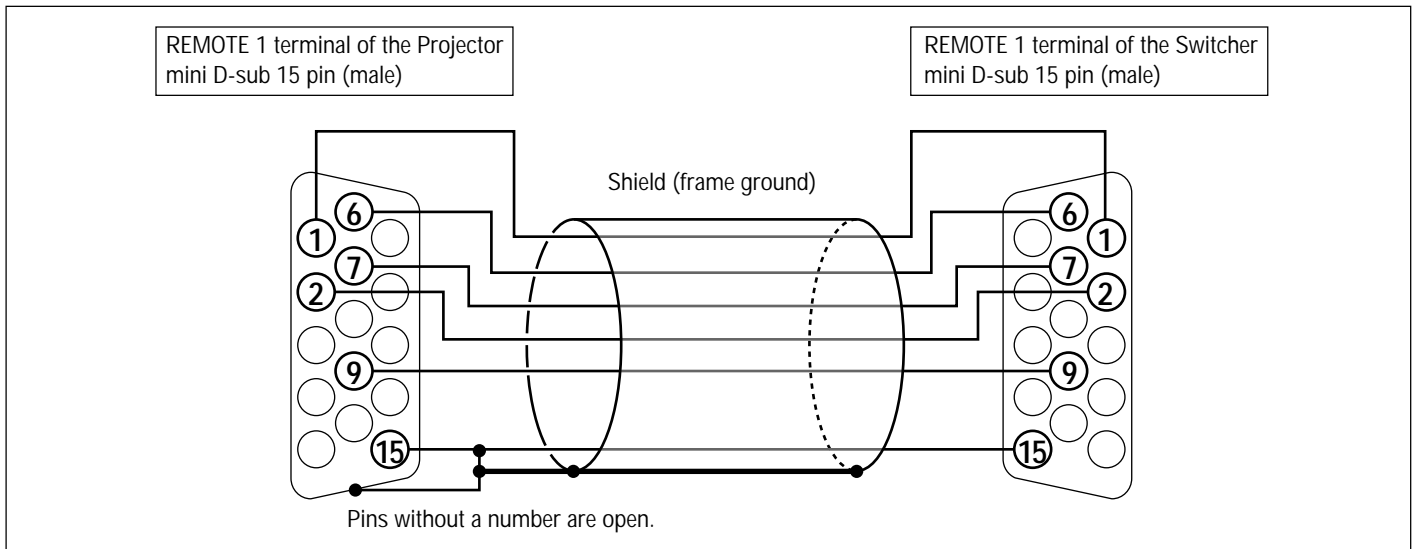


This terminal is used for either connecting the ISS-6010/ISS-6010G Switcher or a third party external control device. When the Switcher is used, connect it with the optional control cable (15-15 pin; 50 ft./16m; CTL-6010) to this terminal.

When used with the Switcher.

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

When using with the Switcher ISS-6010/ISS-6010G, connect no. 1,2,6,7,9 and 15 pins of the projector to the same no. pins of the switcher as shown below.



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 SET-UP INSTRUCTION

Before Installation

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	Adjustment items		Various adjustments	Polarity change	Decorative lens panel, focus ring and CRT angle change
	Screen size (diagonal)				
Ceiling mounting Front projection	100 inch		None	None	None (Set the focus ring when changing projection angle)
	other than 100 inch		Yes	None	Yes
Desk top 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 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 13.

Note on Installation

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.

For screen sizes other than 100", 200", and 300" diagonal, adjust the CRT angle using the threaded holes marked "60-300". See page 14 for detailed procedures.

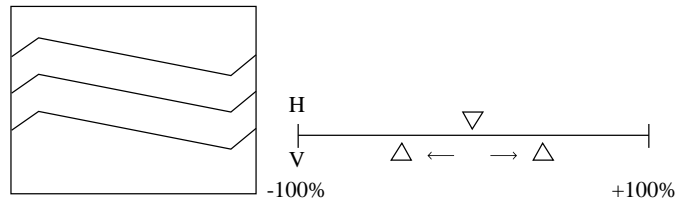
CAUTION ON ALIGNMENT ADJUSTMENT

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

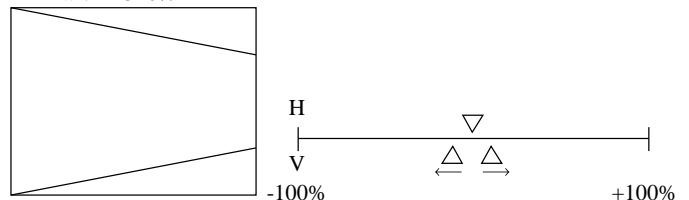
• TILT

within 550%



• V-KEY

within 510%



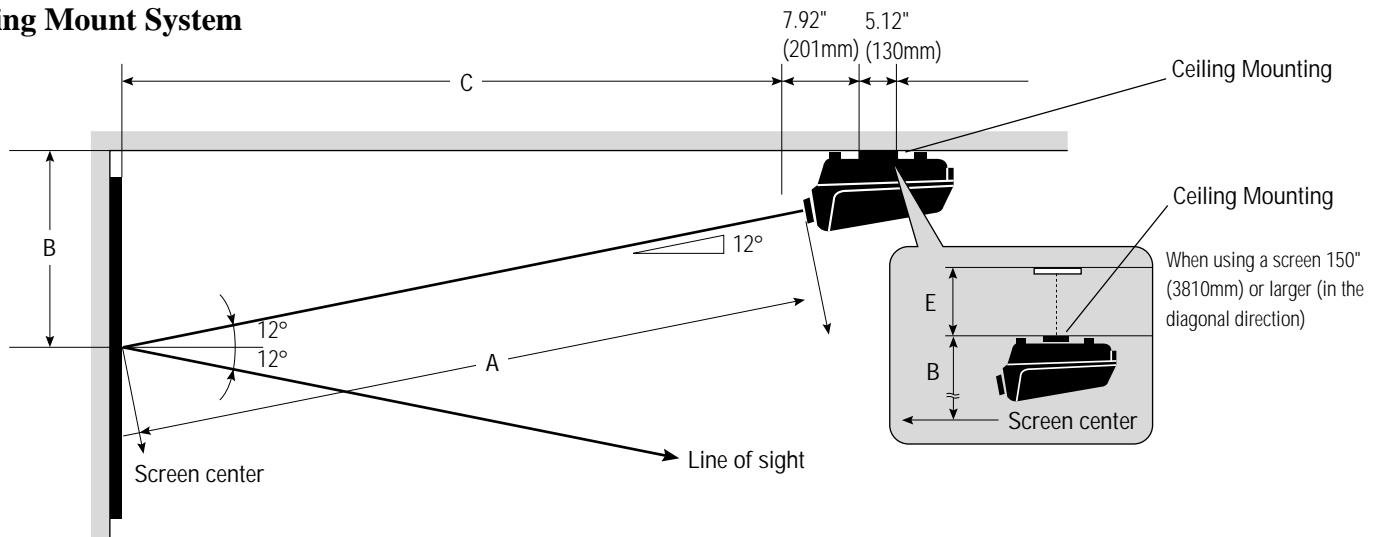
- V-BOW within $\pm 50\%$
- H-BOW within $\pm 50\%$

Projection Distance and Screen size for Ceiling Mount

- Install in such a way that the projector and screen are positioned in the proper direction and at the proper angle. If not, the projector's performance will be affected and its reliability will decrease. Be sure to position the projector properly. The manufacture will not be held responsible for any problems occurring when the projector is not installed in the proper position.

The following shows the proper relative positions of the projector and screen. Refer to the table to determine the position of installation.

Ceiling Mount System



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	74.41	85.51	96.59	107.68	118.75	140.91	174.15	207.40	229.55	273.86	307.10	340.36
	mm	1890	2172	2453	2735	3016	3579	4423	5268	5830	6956	7800	8645
B	inch	25.51	27.82	30.13	32.43	34.73	39.34	46.25	53.16	57.77	66.98	73.89	80.81
	mm	648	707	765	824	882	1000	1175	1351	1468	1702	1877	2053
C	inch	72.79	83.65	94.48	105.33	116.16	137.86	170.35	202.87	224.53	267.88	300.40	332.92
	mm	1849	2125	2400	2676	2951	3502	4327	5153	5704	6804	7630	8457
E	inch	-	-	-	-	-	-	-	0.84	2.24	5.03	7.11	9.2
	mm	-	-	-	-	-	-	-	22	57	128	181	234

NOTE:

- For screen 150 inches (3810mm) or larger (in the diagonal direction), set so that the distance between the surface of installation of the mounting A and the ceiling is E.
- Set the projection distance based on the width of the screen.
- If the figures on the table do not match the figures in the formulae, use the figures on the table.
- For screen sizes of 60 to 300 inches not indicated on the table, use the following proportional formulae.

Units=inches W"=Screen H-Width
 $A = [(5/18 \times W" - 12.5) \times 4.99] + 70.28$
 $B = (0.208 \times A) + 10.04$
 $C = 0.979 \times A$
 $E = (1/2 \times \text{Screen Height}) - B$

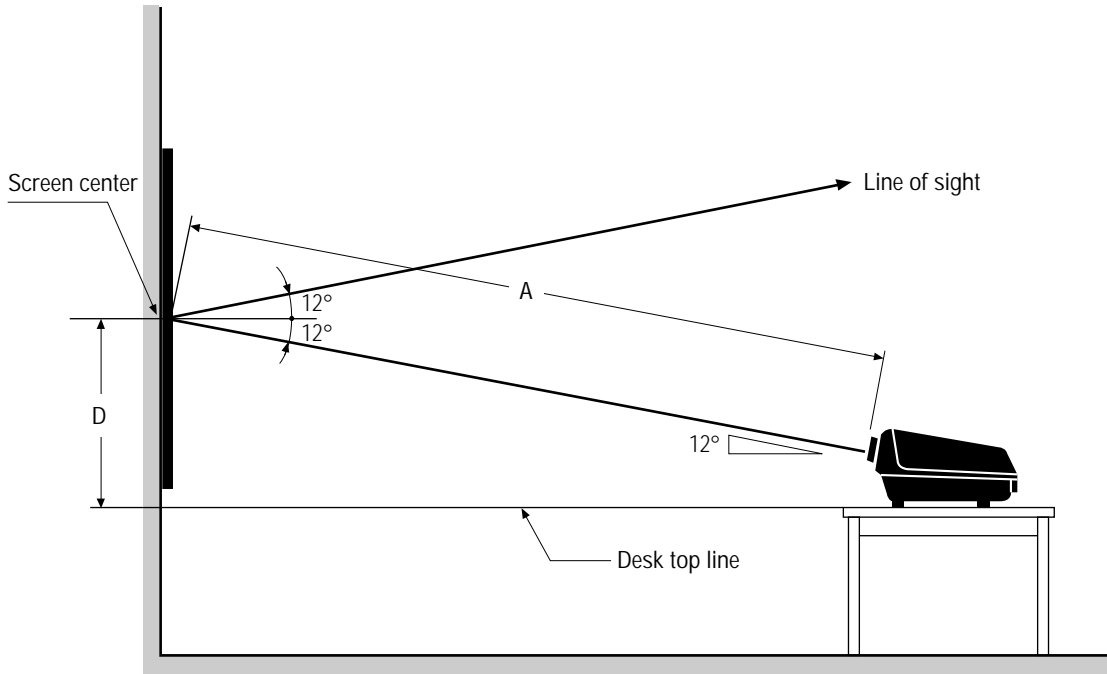
Units=mm W"=Screen H-Width
 $A = [(5/18 \times W" - 12.5) \times 126.64] + 1785$
 $B = (0.208 \times A) + 255$
 $C = 0.979 \times A$
 $E = (1/2 \times \text{Screen Height}) - B$

- The margin of error for projection distance (A) is $\pm 3\%$

Projection Distance and Screen Size for Desk Top

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

Desk Top System



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	74.41	85.51	96.59	107.68	118.75	140.91	174.15	207.40	229.55	273.86	307.10	340.36
	mm	1890	2172	2453	2735	3016	3579	4423	5268	5830	6956	7800	8645
D	inch	23.94	26.25	28.55	30.86	33.16	37.77	44.68	51.59	56.19	65.41	72.32	79.23
	mm	608	667	725	784	842	960	1135	1311	1428	1662	1837	2013

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
 $A = [(5/18 \times W" - 12.5) \times 4.99] + 70.28$
 $D = (0.208 \times A) + 8.47$

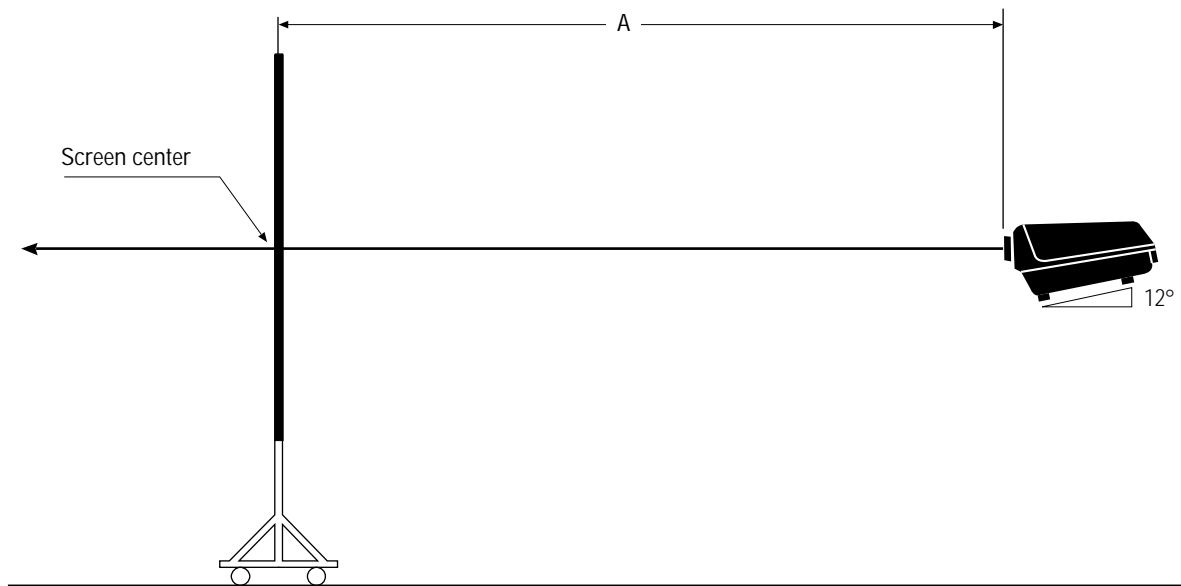
Units=mm W"=Screen H-Width
 $A = [(5/18 \times W" - 12.5) \times 126.64] + 1785$
 $D = (0.208 \times A) + 215$

- 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.

Projection Distance and Screen Size for Rear Projection

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

Rear Projection System



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	inch	74.41	85.51	96.59	107.68	118.75	140.91	174.15	207.40	229.55	273.86	307.10	340.36
	mm	1890	2172	2453	2735	3016	3579	4423	5268	5830	6956	7800	8645

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
 $A = [(5/18 \times W" - 12.5) \times 4.99] \times 70.28$

Units=mm W"=Screen H-Width
 $A = [(5/18 \times W" - 12.5) \times 126.64] \times 1785$

BEFORE SET-UP

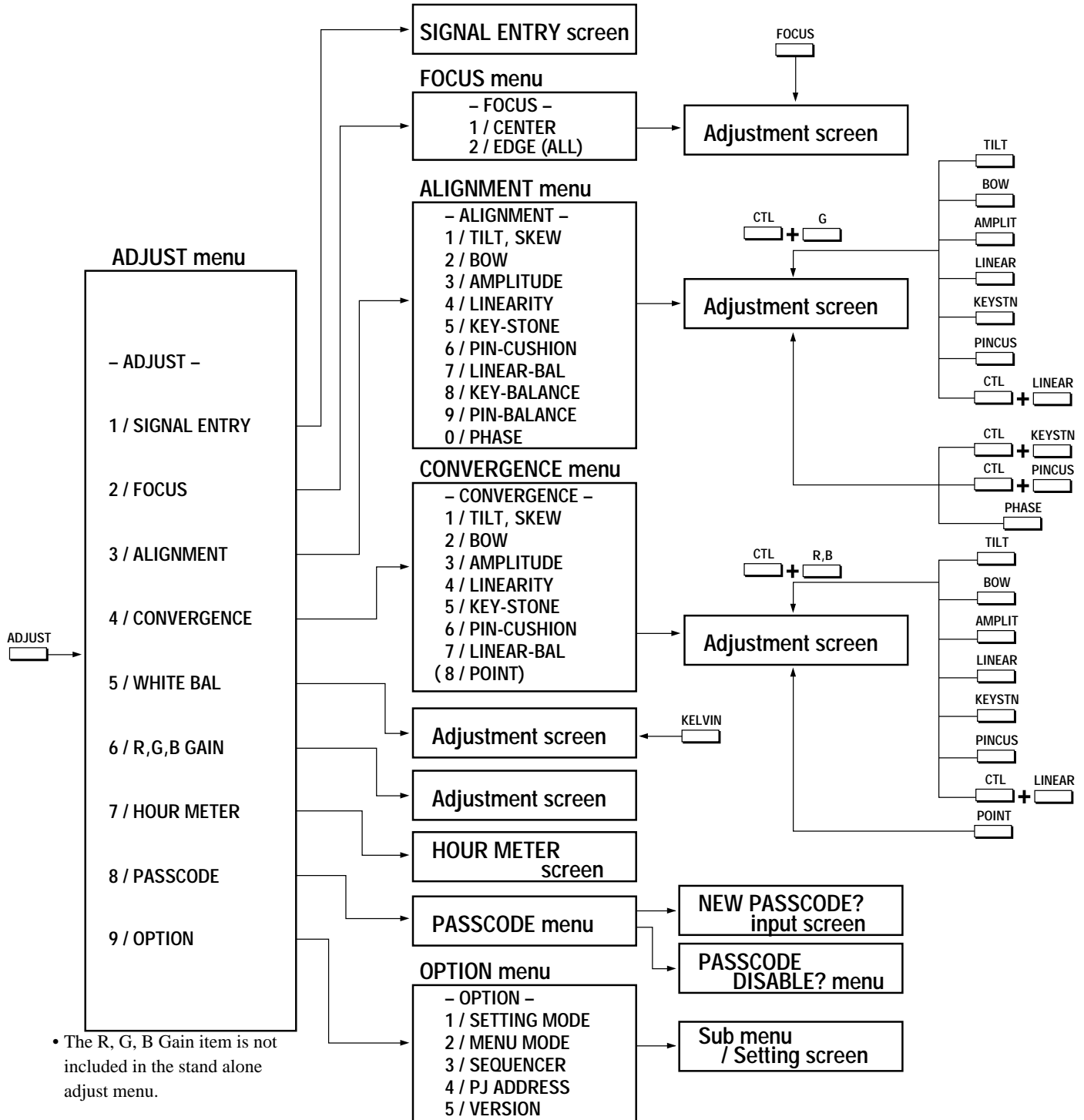
Displaying the Menu and Adjustment Screens

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

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

ADJUST menu

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



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

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

Storing Projector Settings (Automatic Save Feature)

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

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

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

- The END button is pressed several times to return the adjustment screen to the source screen.
- One input is switched to another.
- The projector is turned off.

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

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

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

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



On ADJUST MODE

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

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

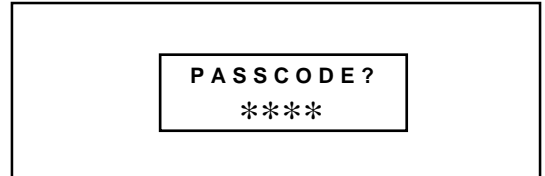
- 2 Enter your registered passcode.

When a passcode has not been registered:

- Since no passcode is programmed at the factory, pressing the ADJUST button will open the ADJUST menu.
- See “Entering Passcode”, “Registering Passcode”, “Changing Your Passcode” and “Canceling Your Passcode” on pages 52 through 58.

When your passcode has already been registered:

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





Test Pattern

This projector will generate a selection of test signals.

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

To display the TEST PATTERN menu, proceed as follows:

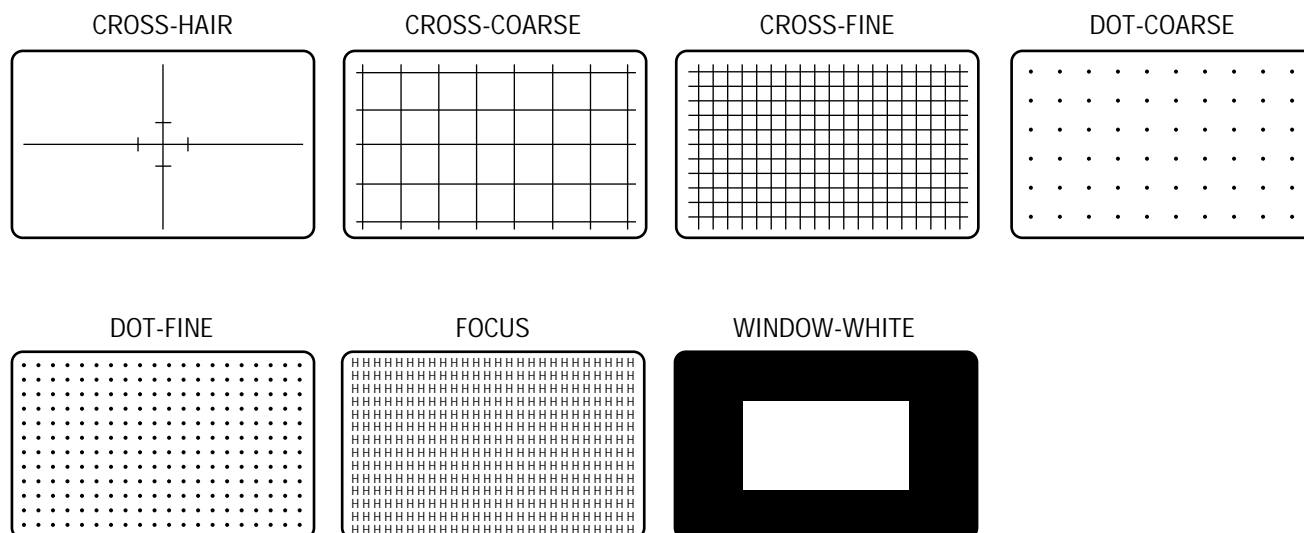
- 1 Press the TEST button on the Full function remote control.
 - The “TEST PATTERN” menu will be displayed.
 - When the END button is pressed, the “TEST PATTERN” menu will disappear.
- 2 Use the CURSOR  or  button to highlight the test pattern you wish to use and press ENTER.
 - The selected test pattern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

```

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

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

Adjustment test pattern



SIGNAL ENTRY

On Signal Entry

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

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

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

Signal Entry Procedures

To make the signal entry, proceed as follows:

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

NOTE: The projector may ask you to enter your passcode. See 52 for the explanation of the PASSCODE.



- 2 Use the CURSOR or button to highlight the “1/SIGNAL ENTRY” line and press ENTER.
 - The “SIGNAL ENTRY” list will be displayed.
 - You can also select the “SIGNAL ENTRY” list directly by pressing the INPUT “1” button.
 - When the projector is used in stand alone operation, the “6/R, G, B GAIN” item is not included in the ADJUST menu.

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

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

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

P01	SIGNAL ENTRY			
ISS-6010	SW 2 LEVEL			
NO	INPUT	NAME	DATE	
0 1	M-01 S-01	VTR - 1	12 / 01 / 92	
0 2	M-01 S-02	VTR - 2	12 / 03 / 92	
0 3	M-01 S-03	VIDEO-1	12 / 11 / 92	
0 4	M-01 S-04	VTR - 3	12 / 24 / 92	
0 5	M-01 S-05	RGB-1	12 / 25 / 92	
0 6				
0 7				
0 8				
0 9				
1 0				

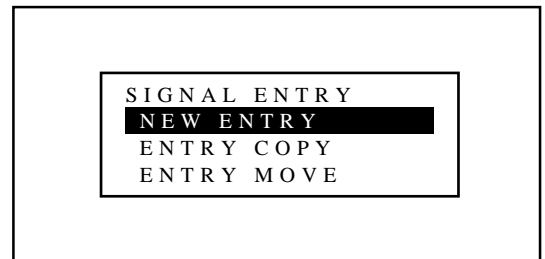
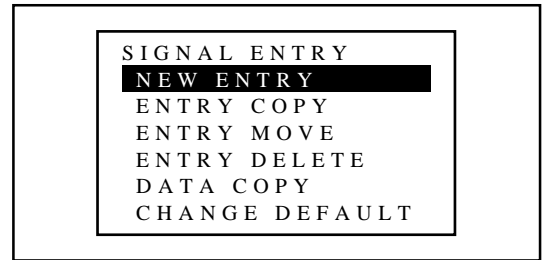
4 Use the CURSOR  or  button to select the item and then press ENTER.

- The Input terminal menu will be displayed.

Items to select

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



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

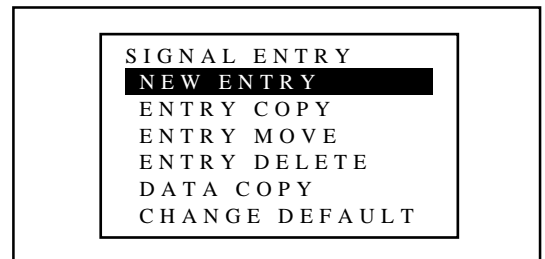


■ **Selecting "NEW ENTRY"**



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

To do this, proceed as follows:

- 1) Use the CURSOR  or  button to select "NEW ENTRY" and press ENTER.
 - The Input terminal menu will be displayed.



When using the projector in stand alone application:

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

- The "NAME INPUT" screen will be displayed.



Items to select

- VIDEO Selects the VIDEO input signal of this projector
- RGB Selects the RGB input signal of this projector
- S-VIDEO .. Selects the S-VIDEO input signal of this projector.

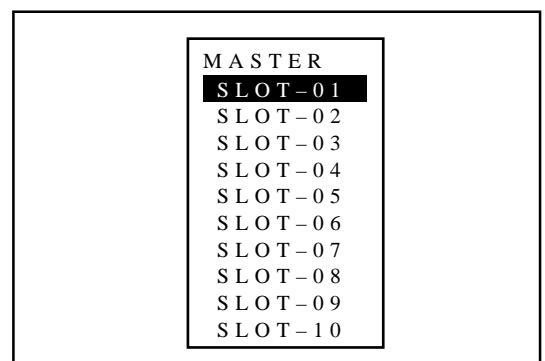
- Go on to Step 2).



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



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

- Input slot numbers are from 1 through 10.
- The "NAME INPUT" screen will be displayed when you finish entering the slot number.
- Go on to Step 2).

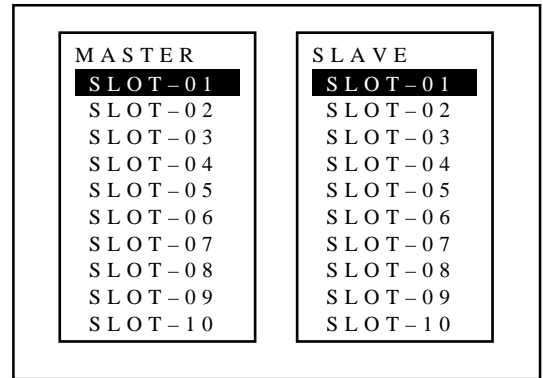



SIGNAL ENTRY

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

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

- The “MASTER” menu will be displayed when the slot number of the master Switcher is selected.
- The “SLAVE” menu will be displayed when the slot number of the slave Switcher is selected.
- Input slot numbers are from 1 through 10.
- The “NAME INPUT” screen will be displayed when you finish entering the slot number.
- Go on to Step 2).



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

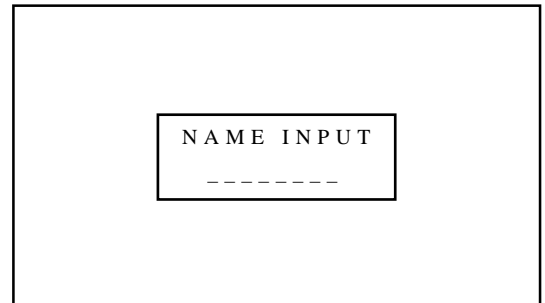
- Up to eight characters can be selected.
- Eight characters are assigned to one INPUT button.
- Whenever the INPUT button is pressed, characters will be rotated.

For example: A → B → C → 1 → A



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

For example: a → b → c → ! → a

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



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

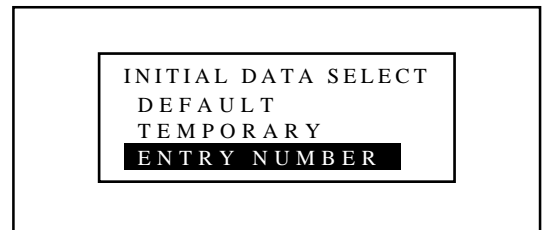
- If you have made an error in the input of a character, use the CURSOR  button and enter the correct letter or number.
To delete one character, move the CURSOR  button to the character to be deleted and then press the NORMAL button.
To delete all the entered name, hold down the CTL button then press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

- 3) Use the CURSOR or button to select an item and press ENTER.
- When selecting “ENTRY NUMBER”, the “DATA COPY SELECT SOURCE” message will be displayed at the bottom of the screen. Use the CURSOR or button to select the signal you wish to copy the initial settings from and press ENTER.
 - The “SOURCE INFORMATION” screen will be displayed.
 - Pressing END will return to the “SIGNAL ENTRY” list. Go on to Step 5.

Items to select

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

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



P01 SIGNAL ENTRY

ISS-6010 SW 2 LEVEL

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

DATA COPY SELECT SOURCE

SOURCE INFORMATION

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

SIGNAL ENTRY

■ When selecting “ENTRY COPY”

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

To do this, proceed as follows:

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

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

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

Items to select

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

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



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

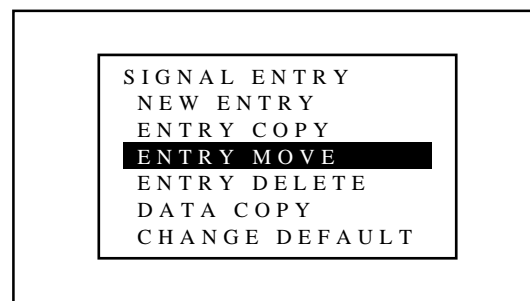
ENTRY COPY SELECT SOURCE



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

■ When selecting “ENTRY MOVE”

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

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





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



P01 SIGNAL ENTRY

ISS-6010 SW 2 LEVEL

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

ENTRY MOVE SELECT SOURCE

- 3) Use the CURSOR  or  button to select a line you wish to move to and press ENTER.

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







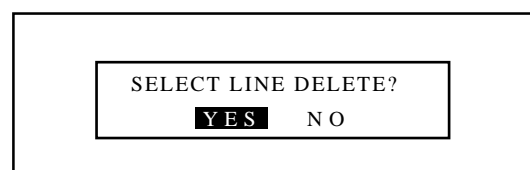
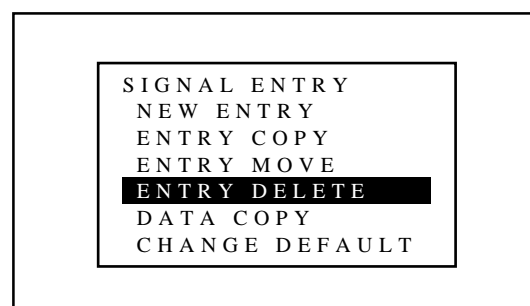
Items to select

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

■ When selecting “ENTRY DELETE”

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

- 1) Use the CURSOR  or  button to select “ENTRY DELETE” and then press ENTER.
 - The “SELECT LINE DELETE?” menu will be displayed.
- 2) Use the CURSOR  or  button to select either “YES” or “NO” and then press ENTER.
 - The “SIGNAL ENTRY” list will be displayed. Go on to Step 5 .



Items to select

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

SIGNAL ENTRY

■ When selecting “DATA COPY”

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

To do this, proceed as follows:

- 1) Use the CURSOR or button to select “DATA COPY” and then press ENTER.
 - The “DATA COPY SELECT SOURCE” message will be displayed at the bottom of the screen.
- 2) Use the CURSOR or button to select the signal to copy from and then press ENTER.
 - The “DATA COPY SELECT DESTINATION” message will be displayed at the bottom of the screen.
- 3) Use the CURSOR or button to select the signal you wish to copy to and press ENTER.
 - The “INCLUDE PHASE DATA?” menu will be displayed.
- 4) Use the CURSOR or button to select either “NO” or “YES” and press ENTER.
 - Select “NO” in normal operation.

Items to select

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

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

■ When selecting “CHANGE DEFAULT”

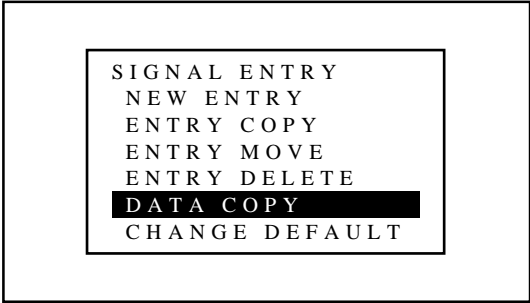
All of the adjustment data of the selected signal will be stored in the DEFAULT AREA.

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

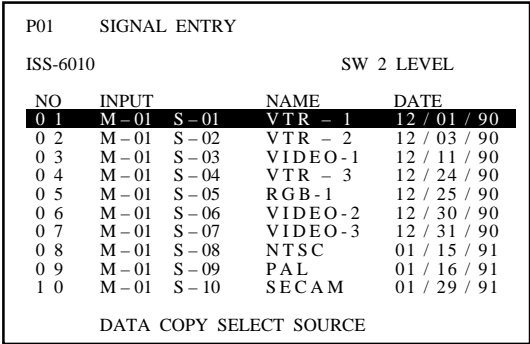
Selecting “DEFAULT” from the “INITIAL DATA SELECT” menu during signal entry will utilize the data stored in the “DEFAULT AREA”.

To do this, proceed as follows:

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



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



P01 SIGNAL ENTRY

ISS-6010 SW 2 LEVEL

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

DATA COPY SELECT SOURCE



```
INCLUDE PHASE DATA?
NO
YES
```



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

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

Items to select

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

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

STORE TO DEFAULT AREA?

YES NO CANCEL

- 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.

RETURN USER MODE?

YES NO

Checking and Setting Various Parameters

Parameters of the signal currently projected can be displayed. To view or change the parameters, proceed as follows:

- 1 Press the ADJUST button.

The “ADJUST” menu will be displayed.

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

- See page 52 for Passcode explanation.

- 2 Press the INFO button.

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

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

The menu items you can set are NAME, LOCK ON/OFF, SYNC DETECT, COLOR TEMP, AKB ON/OFF, COUNTER, TIMER, POSITION, FONT, and ASTIG. See the following pages for an explanation of each setting.

```

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

```

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



■ **Setting “NAME”**

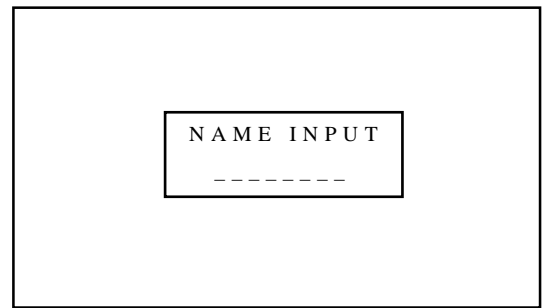
This function is used to change a user name that has previously been entered.

To do this, proceed as follows:

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

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



- 2) Input a new source name by selecting one character at a time with the INPUT buttons 1 through 10 and by moving the cursor with the CURSOR  button. Only after completely finishing the selection of the characters, press ENTER.
 - If you have made an error, use the CURSOR  button and reenter the correct letter or number.
 - To delete one character, move the under bar to the character to be deleted and then press the NORMAL button.
 - To delete all the entered name, hold down the CTL button then press the NORMAL button.
 - The above is the same procedure of the signal entry. See page 18 for more details.
 - The screen will return to the “SOURCE INFORMATION” screen.



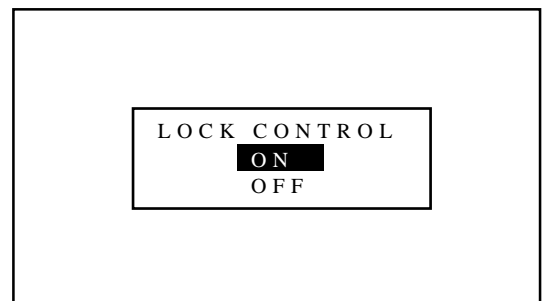
■ **Setting “LOCK”**

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

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

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

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



<p>Items to select</p> <ul style="list-style-type: none"> • ON Deactivates the projector’s automatic signal discrimination of RGB signals. • OFF Activates the projector’s automatic signal discrimination of RGB signals.

■ Setting “SYNC DETECT”

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

To do this, proceed as follows:

- 1) Use the CURSOR buttons to select “SYNC DETECT” and then press ENTER.
 - The “SYNC DETECT” menu will be displayed.
- 2) Use the CURSOR or button to select either “AUTO” or “MANUAL” and press ENTER.
 - The screen will return to the “SOURCE INFORMATION” screen.
 - When “AUTO” is selected, the sync type will be displayed.
 - Select “AUTO” in normal operation.
 - Select “MANUAL” when connecting a computer that has a non-standard signal.
 - Selecting “MANUAL” automatically switches to the G-SYNC mode.

On-screen display

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

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

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

■ Setting “COLOR TEMP”

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

To do this, proceed as follows:

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

Items to select

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

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

<table border="1"> <tr> <td style="text-align: center;"> COLOR TEMP 3 2 0 0 K 5 4 0 0 K 6 5 0 0 K 7 5 0 0 K 9 5 0 0 K </td> </tr> </table>	COLOR TEMP 3 2 0 0 K 5 4 0 0 K 6 5 0 0 K 7 5 0 0 K 9 5 0 0 K
COLOR TEMP 3 2 0 0 K 5 4 0 0 K 6 5 0 0 K 7 5 0 0 K 9 5 0 0 K	

■ Setting “AKB”

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

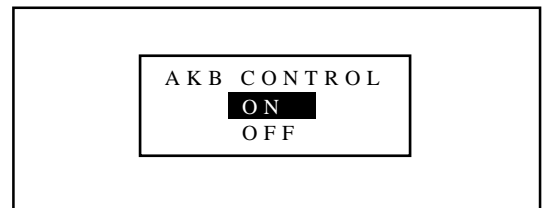
- 1) Use the CURSOR buttons to select “AKB” and then press ENTER.
 - The “AKB CONTROL” menu will be displayed.

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

- 2) Use the CURSOR or button to select either “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.



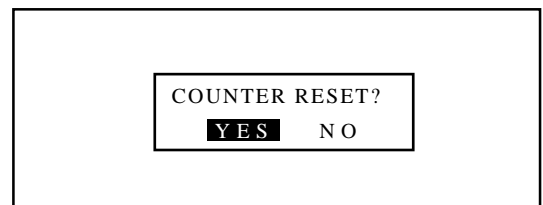
■ Setting “COUNTER”

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.

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

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



SIGNAL ENTRY

■ Setting “TIMER”

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

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

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

TIMER RESET?

YES NO

■ Selecting “POSITION”

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

To do this, proceed as follows:

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

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

POSITION

WIDE

NARROW

Items to select

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

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

■ **Setting “FONT”**

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

To do this, proceed as follows:

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

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

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

<table border="1"> <tr> <td style="text-align: center;"> FONT SIZE NORMAL SMALL </td> </tr> </table>	FONT SIZE NORMAL SMALL
FONT SIZE NORMAL SMALL	

<p>Items to select</p> <ul style="list-style-type: none"> • NORMAL . Calculates the appropriate font size with the vertical scanning lines to display the on-screen message in the appropriate size. • SMALL Displays the on-screen message in the font size of 75 percent of the NORMAL size.
--

SIGNAL ENTRY

■ Setting “ASTIG”

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

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

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

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

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

<table border="1"> <tbody> <tr> <td style="text-align: center;">A S T I G</td> </tr> <tr> <td style="text-align: center;">DEFAULT</td> </tr> <tr> <td style="text-align: center;">U S E R - 1</td> </tr> <tr> <td style="text-align: center;">U S E R - 2</td> </tr> <tr> <td style="text-align: center;">U S E R - 3</td> </tr> <tr> <td style="text-align: center;">U S E R - 4</td> </tr> <tr> <td style="text-align: center;">U S E R - 5</td> </tr> </tbody> </table>	A S T I G	DEFAULT	U S E R - 1	U S E R - 2	U S E R - 3	U S E R - 4	U S E R - 5
A S T I G							
DEFAULT							
U S E R - 1							
U S E R - 2							
U S E R - 3							
U S E R - 4							
U S E R - 5							

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

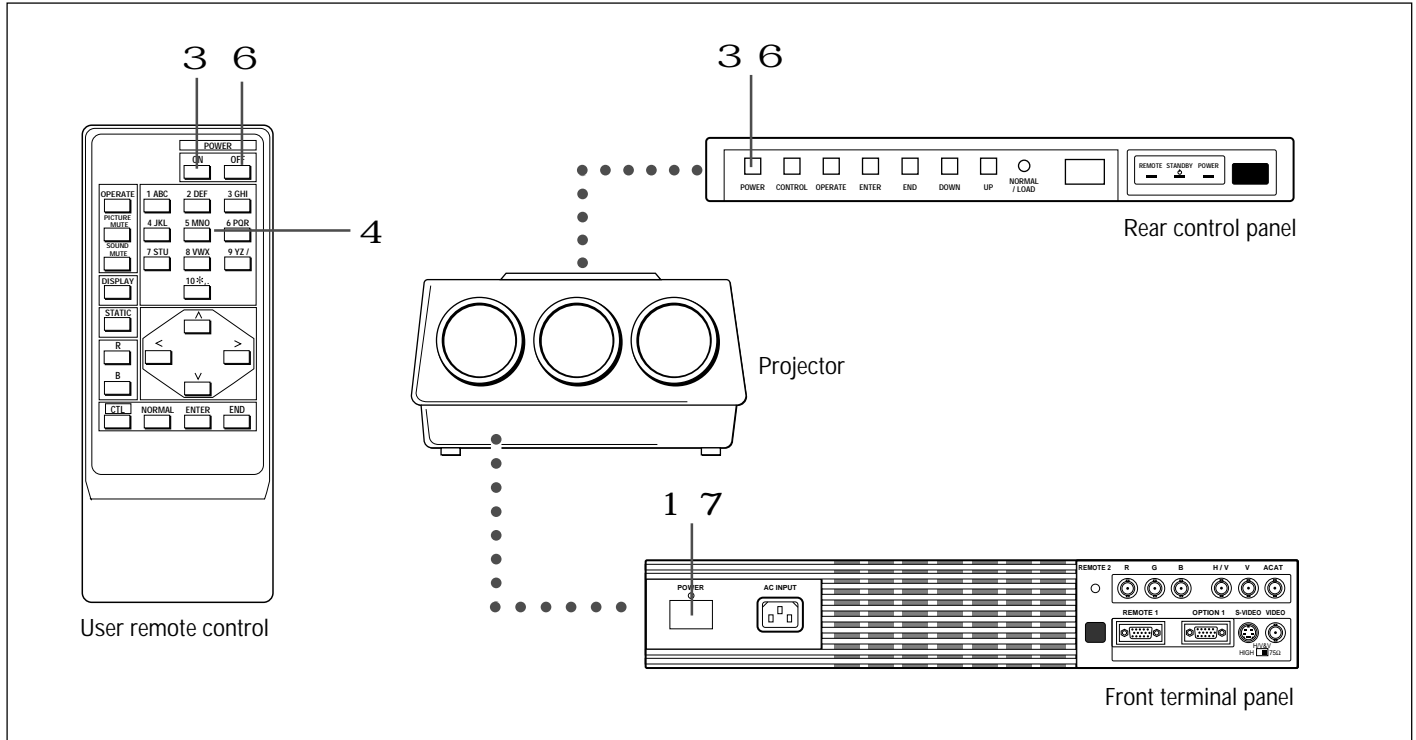
<table border="1"> <tbody> <tr> <td style="text-align: center;">RETURN USER MODE?</td> </tr> <tr> <td style="text-align: center;">YES N O</td> </tr> </tbody> </table>	RETURN USER MODE?	YES N O
RETURN USER MODE?		
YES N O		

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.

BASIC OPERATION

Picture Projection



To project a picture source, proceed as follows:

- 1 Turn on the main power of the projector.
 - Press the **POWER** switch on the front terminal panel.
- 2 Turn on the power of the connected equipments.
- 3 Turn on the power of the projector.
 - Press the **POWER ON** button on the remote control or the **POWER** button on the rear panel.
- 4 Select an input signal source by pressing one of the ten **INPUT** buttons on the remote control. You can also select a signal from the “**INPUT SELECT**” list.
 - See “**INPUT SELECTION**” on page 23 for more details.
- 5 Adjust the picture and sound.
 - See pages 19 through 22 for more details.

NOTE: The volume function works only with the ISS-6010/ISS-6010G Switcher.

- 6 To turn off the power, press the **POWER OFF** button on the remote control or the **POWER** button on the rear panel.
- 7 Press the **POWER** switch on the front terminal panel to turn off the main power of the projector.
- 8 Last, turn off the connected equipment power.

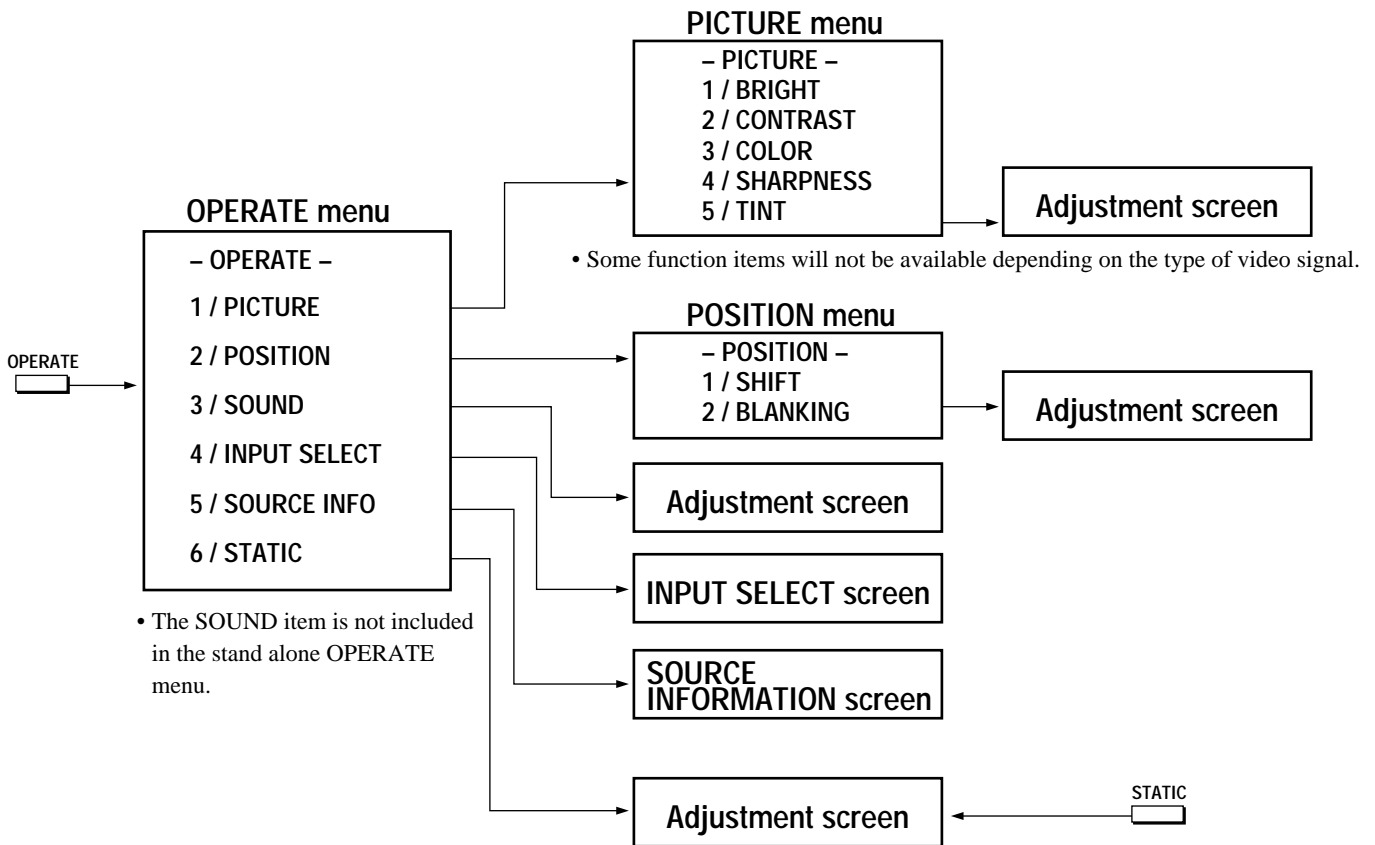
Displaying the Menu and Adjustment Screens

You can easily access your desired screen by selecting menus.

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

OPERATE menu

NOTE: The examples of the screen display in the following pages are for use with the ISS-6010/ISS-6010G Switcher.



CAUTION: Do not display a bright and still picture for longer than 20 minutes. This could damage the CRTs.

NOTE: The explanation of the operation on the following pages is for use with the remote control. You can also operate the projector using the buttons on the control panel of the projector.

Storing Projector Settings (Automatic Save Feature)



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

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

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

- The END button is pressed several times to return the adjustment screen to the source screen.
- One input is switched to another.
- The projector is turned off.

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

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

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





NOTE: The Automatic Save Feature mode has been set to DISABLE by factory. For information on setting, contact your dealer.



Picture Adjustment

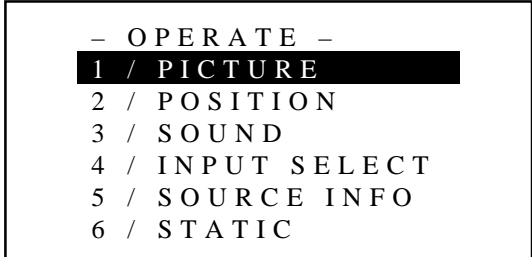
To adjust the picture for each input, proceed as follows:

NOTE: The color, sharpness, and tint controls are not included in the "PICTURE" menu for RGB signal. The tint control is not in the "PICTURE" menu for SECAM/PAL signal.

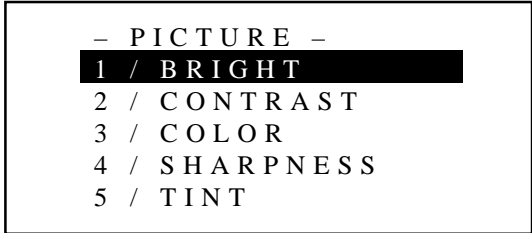
- 1 Press the OPERATE button.
 - The "OPERATE" menu is displayed.

- 2 Use the CURSOR  or  button to highlight the "1/PICTURE" line and press ENTER to display the "PICTURE" menu. You can also select the "PICTURE" menu directly by pressing the INPUT "1" button.
 - The "3/SOUND" item is not included in the stand alone operate menu.





- 3 Use the CURSOR  or  button to select a picture function and then press ENTER. You can also select an item directly by pressing the corresponding number button.
 - The picture adjustment screen will be displayed.



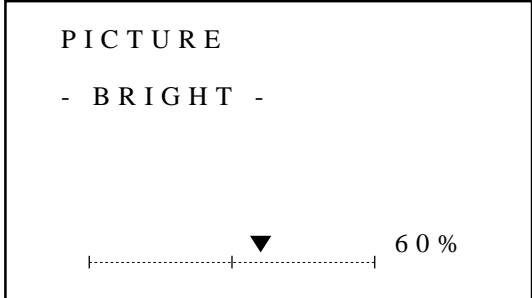
- Items to select:**
- BRIGHT (Brightness control)
 - CONTRAST (Contrast control)
 - COLOR (Color intensity control)
 - SHARPNESS (Picture detail control)
 - TINT (Red and green values control)



NOTE: When you are in the BRIGHT adjustment mode, all the CRTs will be in use. The CRT beam cannot be cut-off.

- 4 Use the CURSOR buttons to adjust a picture to your preference.
 - The CURSOR  or  button increases the level.
 - The CURSOR  or  button decreases the level.

- 5 To end this adjustment, press the END button.
 - Wherever the END button is pressed, the screen changes in this order:
 "PICTURE" menu → "OPERATE" menu → Source screen







Position Adjustment

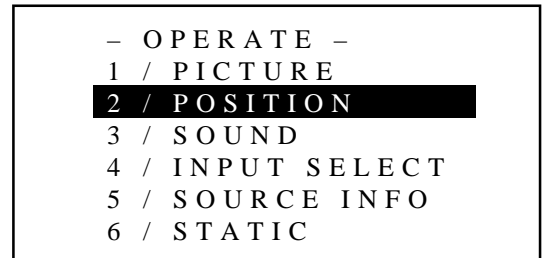
Adjust the position(SHIFT) and the screen area (BLANKING).

Proceed as follows:

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

- 2 Use the CURSOR  or  button to highlight the “2/POSITION” line and press ENTER to display the “POSITION” menu. You can also select the “POSITION” menu directly by pressing the INPUT “2” button.
 - The “3/SOUND” item is not included in the stand alone operate menu.

- 3 Use the CURSOR  or  button to select either “SHIFT” or “BLANKING” and then press ENTER. You can also select each item directly by pressing the INPUT “1” or “2” button.
 - The selected adjustment screen will be displayed.







Items to select

- SHIFT(Position of the picture)
- BLANKING(Screen area)

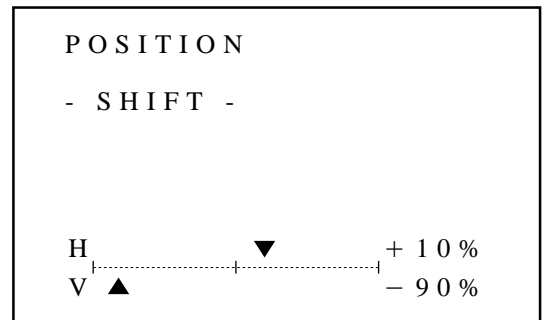
- 4 Adjust the position or screen area.

When selecting SHIFT:

Use the CURSOR buttons to move the position of the picture.

- Pressing  or  moves the picture left or right.
- Pressing  or  moves the picture up or down.





NOTE: Adjust to position the picture in the center of the raster. Over shift-adjusting to the top of the raster may cause the top of the picture to curve depending on the type of input signal.







When selecting BLANKING:

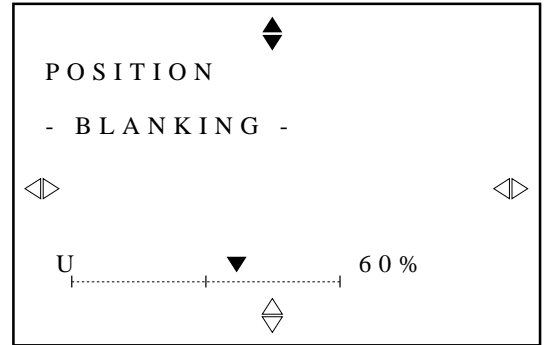
- 1) Hold down the CTL button and press CURSOR buttons to choose the right, left, top, or bottom edge.
 - The marker on the selected side will turn to a solid color.

- 2) Adjust the blanking using the CURSOR buttons.

Top (U) and Right (R) Pressing  or  increases the adjustment values.
Pressing  or  decreases the adjustment values.

Bottom (D) and Left (L) Pressing  or  increases the adjustment values.
Pressing  or  decreases the adjustment values.



- 5 To end this adjustment, press the END button.
 - Whenever the END button is pressed, the screen changes in this order:
"POSITION" menu → "OPERATE" menu → Source screen



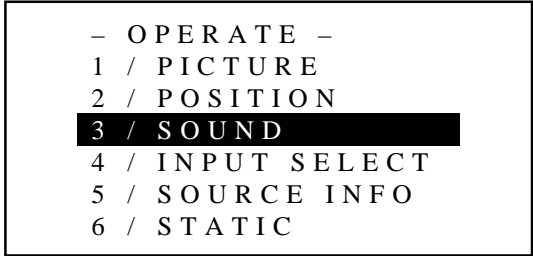
Sound Adjustment (only when used with the ISS-6010/ISS-6010G Switcher)





Adjust the volume to your preference.

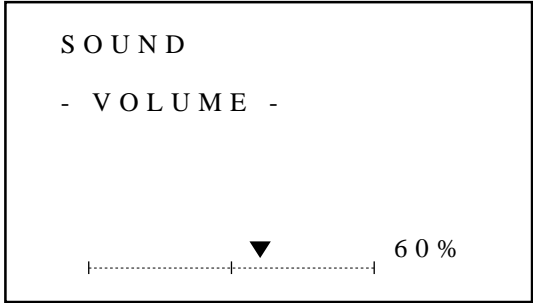
Proceed as follows:

- 1 Press the OPERATE button.
 - The “OPERATE” menu is displayed.
- 2 Use the CURSOR  or  button to highlight the “3/SOUND” line and press ENTER to display the “VOLUME” screen. You can also select the “VOLUME” screen directly by pressing the INPUT “3” button.

NOTE: You can enter the VOLUME adjustment screen directly using the SOUND FUNC button on the full function remote control.



- 3 Use the CURSOR buttons to adjust the volume.
 - The CURSOR  or  button increases the volume.
 - The CURSOR  or  button decreases the volume.
- 4 To end this adjustment, press the END button.
 - Whenever the END button is pressed, the screen changes in this order:
“OPERATE” menu → Source screen.







Input Selection

You can switch from one input to any other input signal.

Proceed as follows:



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

- 2 Use the CURSOR  or  button to highlight the “4/INPUT SELECT” line and press ENTER to display the “INPUT SELECT” list. You can also select the “INPUT SELECT” list directly by pressing the INPUT “4” button.
 - The “3/SOUND” item is not included in stand alone operate menu.
 - When the projector is used in stand alone operation, the third item is “3/INPUT SELECT”.

- 3 Use the CURSOR  or  button to highlight the signal to be switched to and press ENTER to switch to the selected input signal.

```

- O P E R A T E -
1 / P I C T U R E
2 / P O S I T I O N
3 / S O U N D
4 / I N P U T S E L E C T
5 / S O U R C E I N F O
6 / S T A T I C
    
```

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 the page, hold down the CTL button then any one of the INPUT buttons.

P01		INPUT SELECT		
ISS-6010		SW 2 LEVEL		
NO	INPUT	NAME	DATE	
0 1	M-01 S-01	VTR - 1	12 / 01 / 90	
0 2	M-01 S-02	VTR - 2	12 / 03 / 90	
0 3	M-01 S-03	VIDEO-1	12 / 11 / 90	
0 4	M-01 S-04	VTR - 3	12 / 24 / 90	
0 5	M-01 S-05	RGB-1	12 / 25 / 90	
0 6	M-01 S-06	VIDEO-2	12 / 30 / 90	
0 7	M-01 S-07	VIDEO-3	12 / 31 / 90	
0 8	M-01 S-08	NTSC	01 / 15 / 91	
0 9	M-01 S-09	PAL	01 / 16 / 91	
1 0	M-01 S-10	SECAM	01 / 29 / 91	

- 4 To end the INPUT SELECT list, press the END button.
 - Whenever the END button is pressed, the screen changes in this order:
“OPERATE” menu → Source screen

BASIC OPERATION

NOTE:

- While you are viewing a source screen, you can also select the input signal directly by pressing the INPUT "1" through "10" button. In this case INPUT buttons function as follows:

When using the projector in stand alone operation:

INPUT 1 → Selects the VIDEO input on the projector

INPUT 2 → Selects the RGB input on the projector

INPUT 3 → Selects the S-VIDEO input on the projector

When using the projector with the ISS-6010/ISS-6010G:



INPUT 1 through 10 → Selects the corresponding number slot of the ISS-6010/ISS-6010G

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

To switch to another input signal, enter the master slot number, then the slave slot number by using INPUT buttons and press ENTER.

For example: If you want to select a signal from the no.3 slot of the slave Switcher which is connected to the no.2 slot of the master Switcher, first press the INPUT "2" button, then the INPUT "3" button and finally press ENTER.

- You can switch to any input signal of NO 01 through 10 on the INPUT SELECT list by holding down the CTL button and pressing one of the INPUT buttons corresponding to the input number. Prior to this, you are required to select ENABLE in the DIRECT ENTRY ACCESS mode. For further details, contact your dealer.

- When pressing any one of the INPUT buttons to directly access one signal among two or more of the same signals, the projector will output the signal listed in the upper line automatically. To select the one listed in the lower line, use the CURSOR  or  button and press ENTER.

INPUT SELECT List Format

Page (P01 to P10)		Connection condition of the Switcher			
P01		INPUT SELECT			
ISS-6010		SW 2 LEVEL			
NO	INPUT	NAME	DATE		
0 1	M-01 S-01	VTR - 1	12 / 01 / 90		
0 2	M-01 S-02	VTR - 2	12 / 03 / 90		
0 3	M-01 S-03	VIDEO-1	12 / 11 / 90		
0 4	M-01 S-04	VTR - 3	12 / 24 / 90		
0 5	M-01 S-05	RGB-1	12 / 25 / 90		
0 6	M-01 S-06	VIDEO-2	12 / 30 / 90		
0 7	M-01 S-07	VIDEO-3	12 / 31 / 90	Date registered	
0 8	M-01 S-08	NTSC	01 / 15 / 91		
0 9	M-01 S-09	PAL	01 / 16 / 91		
1 0	M-01 S-10	SECAM	01 / 29 / 91		

The Switcher connected

Slot number of the master Switcher



Slot number of the slave Switcher

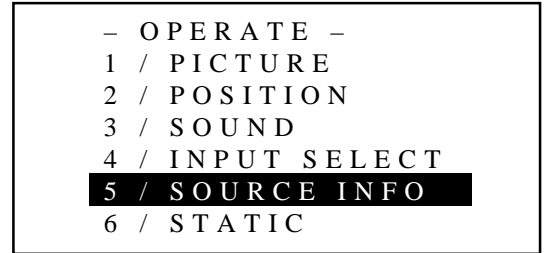
Source name of input signal

Source Information

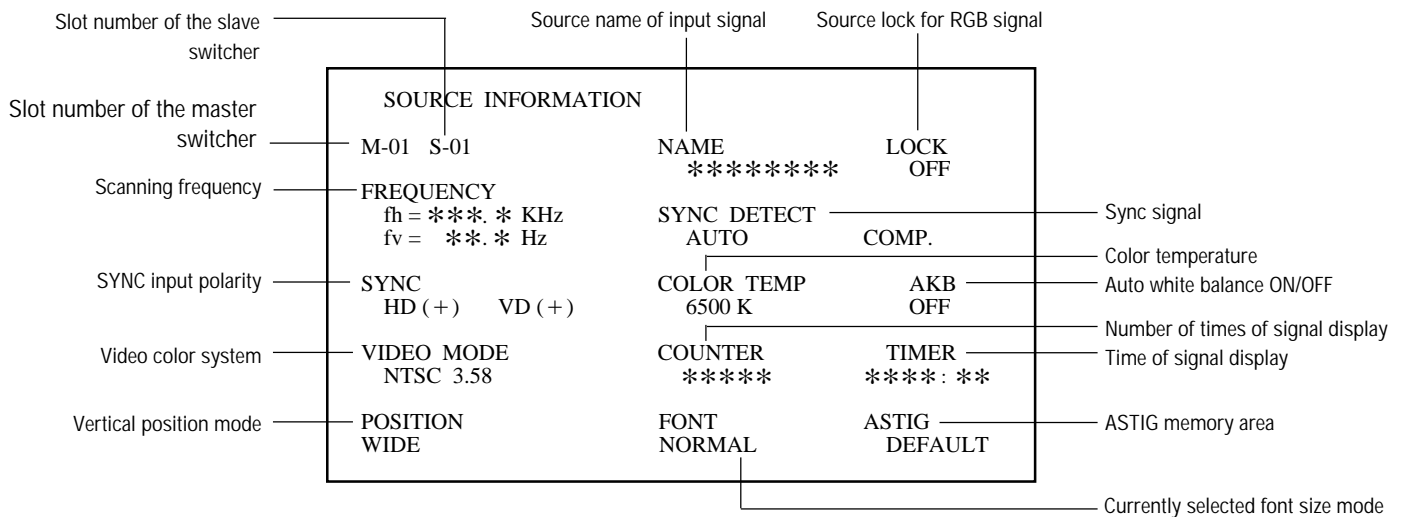
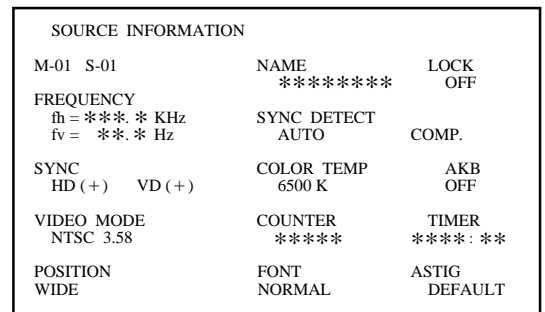
This is for viewing the signal information and the current status of various setting.

Proceed as follows:

- 1 Press the OPERATE button.
 - The “OPERATE” menu is displayed.
- 2 Use the CURSOR  or  button to highlight the “5/SOURCE INFO” line and press ENTER to display the “SOURCE INFORMATION” screen. You can also select the “SOURCE INFORMATION” screen directly by pressing the INPUT “5” button.
 - The “3/SOUND” item is not included in stand alone operate menu.
 - When the projector is used in stand alone operation, the fourth item is “4/SOURCE INFO”.
- 3 To end the “SOURCE INFORMATION” screen, press the END button.
 - Whenever the END button is pressed, the screen changes in this order:
“OPERATE” menu → Source screen



NOTE: The items below are not available in the OPERATE mode.



NOTE: The above screen display is an example when used with the ISS-6010/ISS-6010G.

Picture and Sound Mute

This function mutes a picture or sound.

To mute picture or sound:

- Pressing PICTURE MUTE mutes picture.
- Pressing SOUND MUTE mutes sound.
- Pressing again PICTURE MUTE/SOUND MUTE restores the picture or sound. Another way to restore picture or sound is to press END.

NOTE: The OPERATE and the ADJUST menus can be accessed in the PICTURE MUTE mode.

Normal, Load, and Cancel Function

Adjustment settings can be returned to the factory preset level, or the previously stored level, or can be cancelled.

To return to the standard level (NORMAL):

- 1 Press the NORMAL button.
 - A confirmation message will be displayed.
- 2 Use the CURSOR or button to select “YES”.
- 3 Press ENTER.
 - The NORMAL function is performed.
 - If you select “NO”, you will exit this mode suspending current status.



XXXXXXXXXX refers to a specific adjustment item to be normalized

To return to the last stored level (LOAD):

- 1 Press and hold the CTL button then press the NORMAL button.
 - The “LOAD/CANCEL” menu is displayed.
- 2 Use the CURSOR or button to select “LOAD”.
- 3 Use the CURSOR or button to select “YES”.
 - If you select “NO”, you will exit this mode suspending current status.
- 4 Press ENTER.
 - The LOAD function is performed.



XXXXXXXXXX refers to a specific adjustment item to be loaded or cancelled

To cancel the adjustment data (CANCEL):

- 1 Press and hold the CTL button then press the NORMAL button.
 - The “LOAD/CANCEL” menu is displayed.
- 2 Use the CURSOR or button to select “CANCEL”.
- 3 Use the CURSOR or button to select “YES”.
 - If you select “NO”, you will exit this mode suspending current status.
- 4 Press ENTER.
 - The CANCEL function is performed.



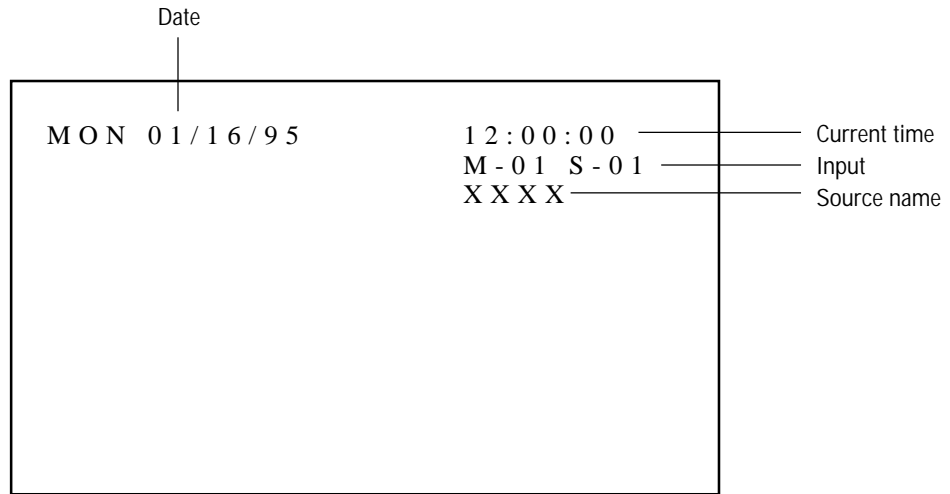
XXXXXXXXXX refers to a specific adjustment item to be loaded



XXXXXXXXXX refers to a specific adjustment item to be cancelled

Screen Format in Projecting a Picture

NOTE: The example of the screen display is only when used with the ISS-6010/ISS-6010G.



NOTE:

- Contact your dealer for changing the on-screen display mode.
- If the main power is not supplied to the projector for three days or more, the built-in clock may be reset. If this happens, contact your dealer for setting date and time.

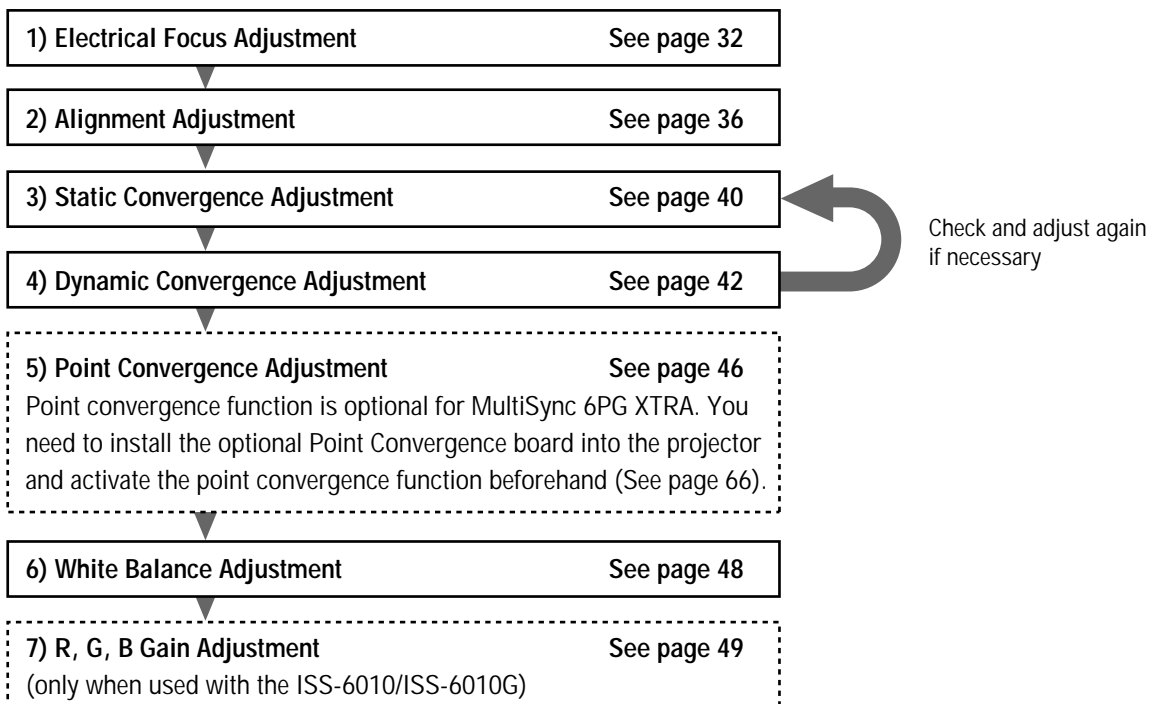
ADJUSTMENT

Set-Up Procedure

Before adjusting

- 1 Installation of the projector.
 - This projector is pre-adjusted at the factory for 100 inch screen front projection at 11 degrees and ceiling mounting. If your application is the same as the factory setting, you will not have to reconfigure the projector for your application. However, if you want to do some fine or further adjustments, carry out the following adjustments.
- 2 Connect the external equipment to the projector.
- 3 Turn on power to the external equipment and the projector.
 - If you want to institute the use of a passcode, register the passcode.
 - Carry out the adjustments after displaying an image for 20 minutes or more.
- 4 Select the input signal.
 - If your input signal has not been recorded, it is necessary to perform the signal entry beforehand. See page 16.

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



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

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

ADJUSTMENT

Electrical Focus Adjustment

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

NOTE:

- The CENTER focus adjustment should be performed for each CRT separately.
- Select the FOCUS test pattern using the TEST button on the full function remote control.

Proceed as follows:

- 1 Press the ADJUST button to display the “ADJUST” menu.
 - The projector may ask you to enter your passcode.
See page 52 for the explanation of the PASS CODE.
- 2 Use the CURSOR or button to highlight the “2/FOCUS” line. Press ENTER to display the FOCUS menu. You can also select the FOCUS menu directly by pressing the INPUT “2” button.
 - “6/R, G, B GAIN” is not included in stand alone adjust menu.
- 3 Use the CURSOR or button to highlight your preferred adjustment item. Press ENTER to display the selected adjustment screen.
 - You can also select the adjustment screen directly by pressing the INPUT “1” or “2” button.
 - For edge focus, you can select either “EDGE ALL” or “EDGE SEPA.” in the FOCUS EDGE mode of the OPTION menu. (See page 89).

Items to select

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

NOTE:

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

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

```
– FOCUS –  
1 / CENTER  
2 / EDGE ALL
```

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

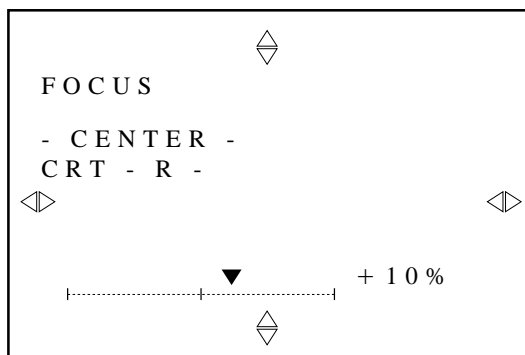
NOTE:

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

- 5 Hold down the CTL button then select the CRT you wish to adjust with the R, G, and B button.
 - The display of the corresponding CRT will change from one CRT to another.

NOTE:

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



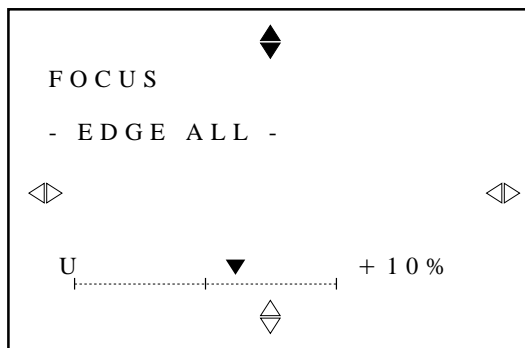
- 6 Use the CURSOR buttons to adjust the focus.

■ When selecting "CENTER"

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

To switch to the FOCUS EDGE mode:

press and hold CTL, then press CURSOR .



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

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

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

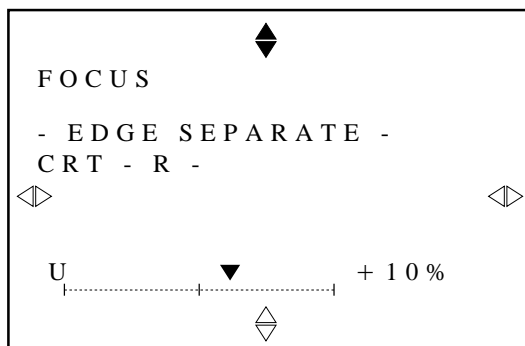
CTL + D (Down) CTL + L (Left)

Use the CURSOR buttons to adjust the focus.



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

To switch to the FOCUS CENTER mode:

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



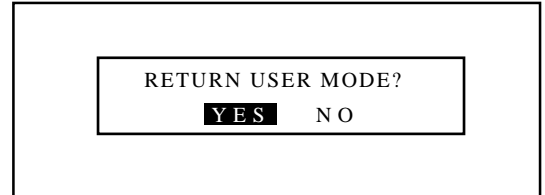
ADJUSTMENT

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

Items to select

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

NOTE: The center focus for the Blue CRT is pre-adjusted so that the best white uniformity can be obtained at the gauge center (0%). For this reason, it has been set at the factory to be slightly out of focus. Therefore you should not perform the center focus adjustment to the Blue CRT with the remote control.



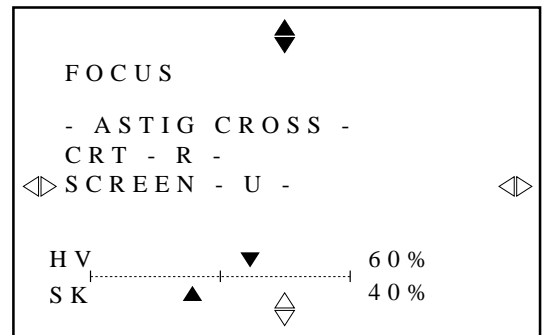
■ ASTIG Adjustment

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

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

To adjust ASTIG CROSS/CORNER:

- 1) Hold down CTL, then press FOCUS to select either ASTIG CROSS or ASTIG CORNER.
First perform the ASTIG CROSS adjustment and then the ASTIG CORNER adjustment.
 - The test pattern automatically changes to the DOT COARSE pattern.
- 2) Select the CRT you wish to adjust with R or G button.
 - The blue CRT is not adjusted.
- 3) Press the R or G button to project the only CRT beam to be adjusted.
 - You can turn on or off each CRT beam (R, G, and B)



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

CTL + U (Up)

CTL + D (Down)

CTL + R (Right)

CTL + L (Left)

- 5) Use the CURSOR buttons to adjust

..... Corrects spindle-shape dot horizontally and vertically

..... Corrects spindle-shape dot diagonally

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

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

- 7) To end this adjustment, press the END button.

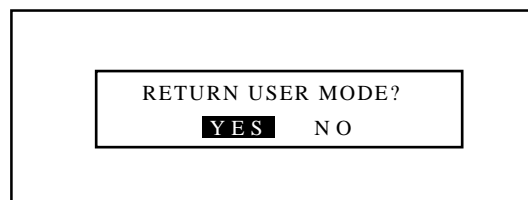
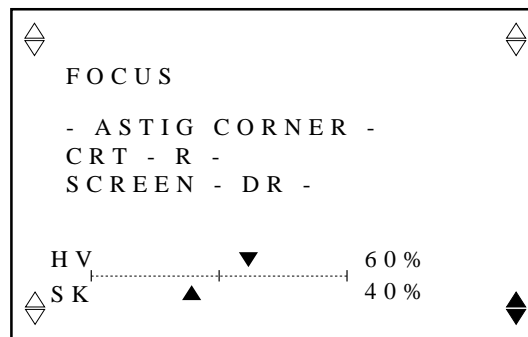
- Whenever the END button is pressed, the menu will sequence in this order:

“FOCUS” menu → “ADJUST” menu → Source screen

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

Items to select

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







ADJUSTMENT

Alignment Adjustment

Correct the horizontal and vertical error for the projected image.

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

Proceed as follows:

- 1 Press the ADJUST button to display the “ADJUST” menu.
 - The projector may ask you to enter your passcode. See page 52 for the explanation of the PASSCODE.
- 2 Use the CURSOR  or  button to highlight the “3/ALIGNMENT” line. Press ENTER to display the “ALIGNMENT” menu. You can also select the “ALIGNMENT” menu directly by pressing the INPUT “3” button.
 - “6/R, G, B GAIN” is not included in stand alone adjust menu.
- 3 Use the CURSOR  or  button to select the preferred item. Press ENTER. You can also select the alignment item directly by pressing an INPUT button.
 - The selected adjustment screen will be displayed. See page 38 and 39 for the explanation of the selected adjustment.

Items to select

- TILT SKEW Adjusts the tilt and the skew
- BOW Adjusts the horizontal and vertical bow
- AMPLITUDE Adjusts the horizontal and vertical amplitude of the projected image
- LINEARITY Adjusts the horizontal and vertical linearity
- KEY-STONE Adjusts the horizontal and vertical keystone
- PIN-CUSHION Adjusts the horizontal and vertical pincushion
- LINEAR-BAL Adjusts the horizontal and vertical linearity balance
- KEY-BALANCE Adjusts the horizontal and vertical keystone tilt balance
- PIN-BALANCE Adjusts the horizontal and vertical pincushion bow balance
- PHASE Adjusts the tilt and the cursor phase

NOTE: You can also select adjustments directly using buttons on the full function remote control. If you are in the CONVERGENCE mode (see page 42), press and hold down the CTL button then press the G button. This will bring you to the ALIGNMENT adjustment screen. To select the “LINEAR-BAL”, “KEY-BALANCE”, or “PIN-BALANCE” alignment, press and hold down the CTL button then press the LINEAR, KEYSTN, or PINCUS button respectively.

```

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

```

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

ALIGNMENT

- TILT, SKEW -





H ▼ + 10 %
 V ▲ - 90 %

ALIGNMENT

- TILT, SKEW -





H ▼ + 10 %
 V [ABNORMAL CORRECTION DATA]

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

- 4 Press the R, G, and B buttons to display only the Green pattern.
 - You can turn on or off each CRT beam (R, G or B) separately.
 - To access the CONVERGENCE screen (see page 42), press and hold down the CTL button then press the R or B button.
- 5 Use the CURSOR buttons to adjust the alignment of the projected pattern.
 - The CURSOR  or  button increases or decreases the horizontal level.
 - The CURSOR  or  button increases or decreases the vertical level.

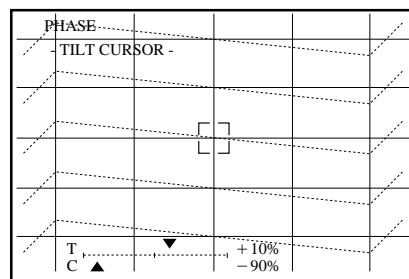
For “PHASE” adjustment, follow the instructions below.

■ PHASE Adjustment

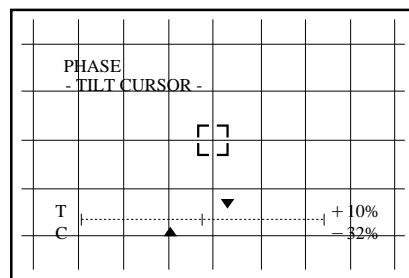
- 1) Use the CURSOR  or  button to adjust the tilt phase (for horizontal line).
Adjust the pattern so the sharp turns at the left and right edges in the diagonal lines are equal.
 - 2) Use the CURSOR  or  button to adjust the cursor phase (for vertical line).
Align the vertical center line of the point cursor with the screen center.
- (When the point Convergence Board is installed:)
- 3) Align the point peak with the screen center using CTL and CURSOR buttons.

NOTE: Since the projector has been pre-adjusted for the optimal phase adjustments at the factory, further adjustment should not be required in normal operation.

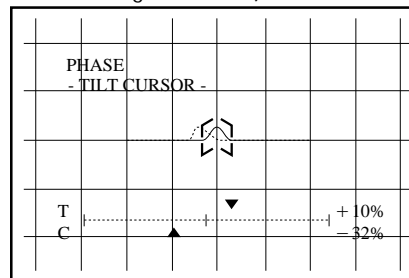
TILT PHASE





CURSOR PHASE



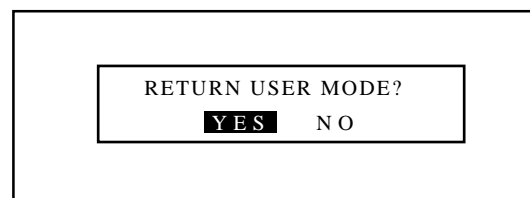
POINT PHASE (When installing the Point Convergence board.)



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

Items to select

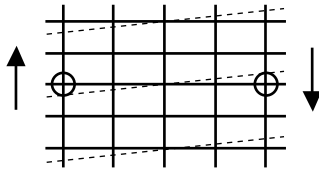
- YES When you try to enter the ADJUST mode again, you will need to re-enter your passcode.
- NO When you try to enter the ADJUST mode again, you will not need to re-enter your passcode.



Alignment Adjustment Items

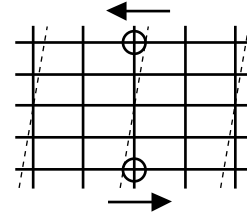
TILT

Adjust horizontal center line.



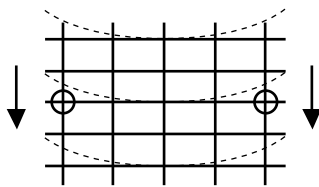
SKEW

Adjust vertical center line.



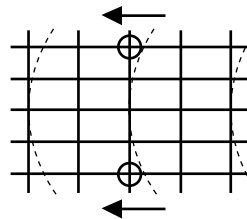
Vertical BOW

Adjust horizontal center line bow.



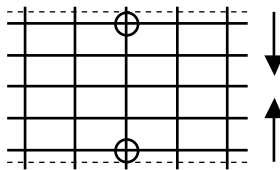
Horizontal BOW

Adjust vertical center line bow.



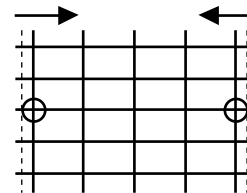
Vertical AMPLITUDE

Adjust vertical height of image.



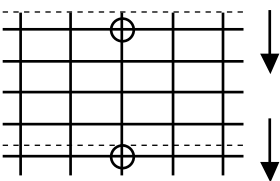
Horizontal AMPLITUDE

Adjust horizontal size of image.



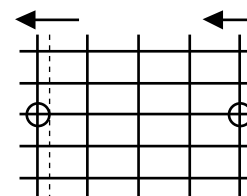
Vertical LINEARITY

Adjust top and bottom linearity.(Test pattern)



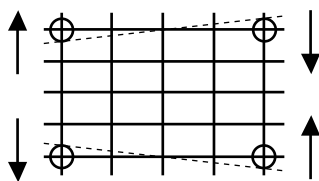
Horizontal LINEARITY

Adjust left and right linearity.(Test pattern)



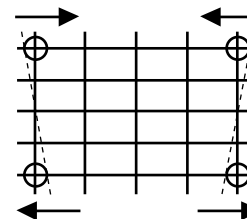
Vertical KEYSTONE

Adjust top and bottom keystone error.



Horizontal KEYSTONE

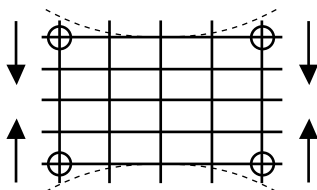
Adjust left and right keystone error.



Alignment Adjustment Items

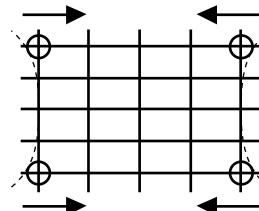
Vertical PINCUSHION

Equalize top and bottom pincushion error.



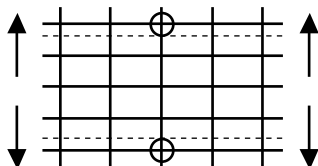
Horizontal PINCUSHION

Equalize left and right pincushion error.



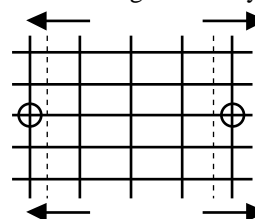
Vertical LINEAR-BALANCE

Equalize top and bottom linearity balance error.



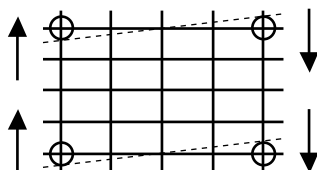
Horizontal LINEAR-BALANCE

Equalize left and right linearity balance error.



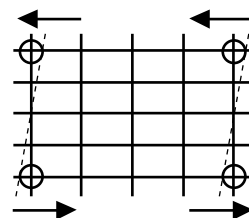
Vertical KEY-BALANCE

Equalize top and bottom keystone balance error.



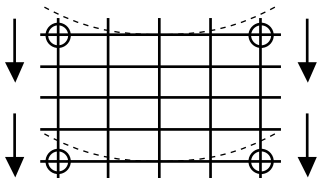
Horizontal KEY-BALANCE

Equalize left and right keystone balance error.



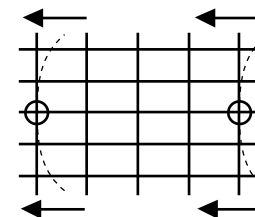
Vertical PIN-BALANCE

Equalize top and bottom pincushion balance error.



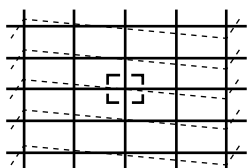
Horizontal PIN-BALANCE

Equalize left and right pincushion balance error.



TILT PHASE

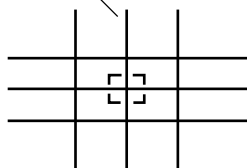
Adjust the pattern so the sharp turns at the left and right edges in the diagonal lines are equal.



CURSOR PHASE

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

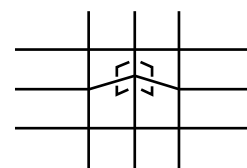
<Screen center>



POINT PHASE

When the Point Convergence board is installed;

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





ADJUSTMENT

Static Convergence Adjustment

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

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

Proceed as follows:

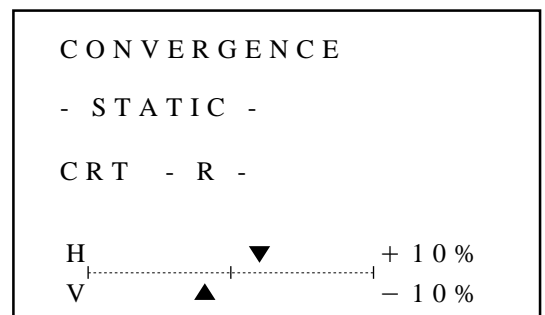
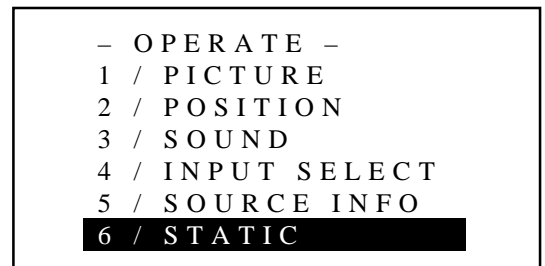
- 1 Press the OPERATE button.
 - The “OPERATE” menu is displayed.
- 2 Use the CURSOR  or  button to highlight the “6/STATIC” line. Press ENTER to display the STATIC adjustment. You can also select the STATIC adjustment screen directly by pressing the INPUT “6” button.
 - When the projector is used in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

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





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

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

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



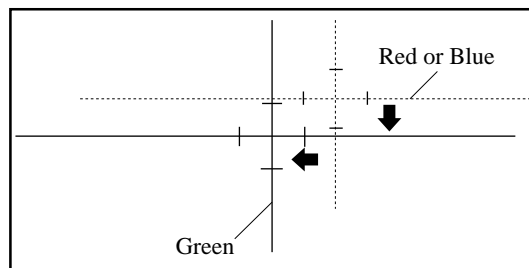
5 Align the center of the Red or the Blue pattern with the center of the Green pattern (reference color) using the CURSOR buttons.

- The CURSOR  or  button moves the pattern left or right.
The CURSOR  or  button moves the pattern up or down.

6 Repeat steps 3 to 5 for the other CRTs if necessary.

7 To end this adjustment, press the END button.

- Whenever the END button is pressed, the menus will sequence in this order:
“OPERATE” menu → Source screen







Dynamic Convergence Adjustment

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

NOTE:

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

Proceed as follows:

- 1 Press the ADJUST button to display the “ADJUST” menu.
 - The projector may ask you to enter your passcode.
See page 52 for the explanation of the PASSCODE.
- 2 Use the CURSOR  or  button to highlight the “4/CONVERGENCE” line. Press ENTER to display the “CONVERGENCE” menu. You can also select the “CONVERGENCE” menu directly by pressing the INPUT “4” button.
 - “6/R, G, B GAIN” is not included in stand alone adjust menu.
- 3 Use the CURSOR  or  button to select the preferred item and then press ENTER. You can also select directly the dynamic convergence item by pressing an INPUT button.
 - The selected adjustment will be displayed.
See pages 44 and 45 for the explanation of the selected adjustment.

NOTE: You can also select adjustments directly using buttons on the full function remote control. If you are in the ALIGNMENT mode (see page 36), press and hold down the CTL button then press the R or B button. This will bring you to the CONVERGENCE adjustment screen. To select “LINEAR-BAL” convergence, press and hold down the CTL button then press the LINEAR button.

- 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.

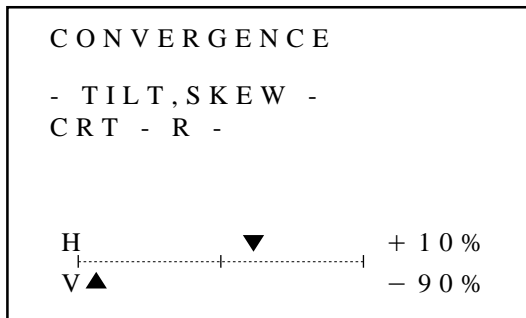
```
- ADJUST -  
1 / SIGNAL ENTRY  
2 / FOCUS  
3 / ALIGNMENT  
4 / CONVERGENCE  
5 / WHITE BAL  
6 / R, G, B GAIN  
7 / HOUR METER  
8 / PASSCODE  
9 / OPTION
```

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

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

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

- To access the ALIGNMENT screen (see page 36), press and hold down the CTL button then press the G button.



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

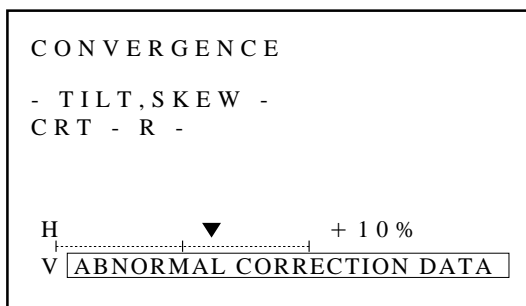
- The CURSOR button or increases or decreases H level. The CURSOR button or increases or decreases V level. The following are the description of the KEYSTONE, PIN-CUSHION, and LINEAR-BALANCE adjustments.

■ KEYSTONE, PINCUSHION, and LINEAR-BALANCE Adjustments

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

- CTL + U (Up)
- CTL + D (Down)
- CTL + R (Right)
- CTL + L (Left)

- Use the CURSOR buttons to correct the error.



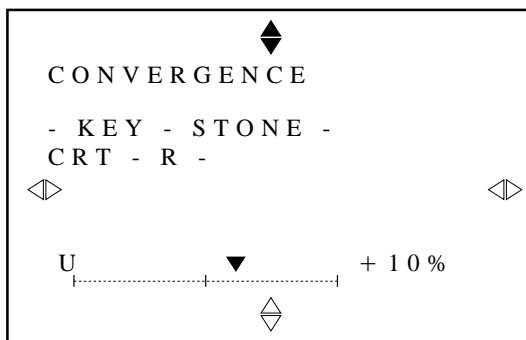
During alignment or convergence adjustment, if the projector acknowledges that your adjustment is overcorrected, the "ABNORMAL CORRECTION DATA" message appears. The data is cancelled at that moment. If this happens, reduce the total amount of the current adjustment data.

- 7 Repeat steps 3 to 6 for the other CRTs if necessary.

- Pressing the END button will bring you to the "CONVERGENCE" menu.

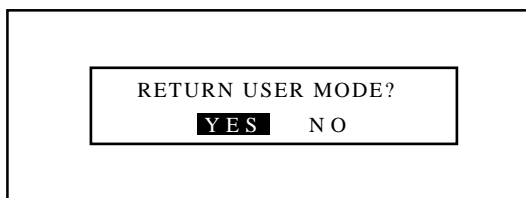
- 8 To exit, press END to display the "STORE?" menu.

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



Items to select

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

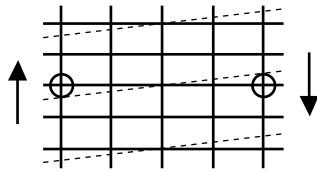


NOTE: Adjusting the dynamic convergence may cause the static convergence settings to change. If this happens, adjust the static convergence again.

Convergence Adjustment Items

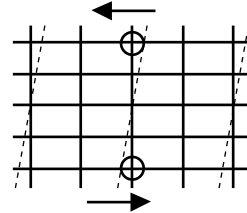
TILT

Adjust horizontal center line.



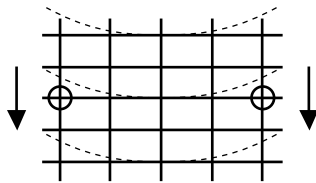
SKEW

Adjust vertical center line.



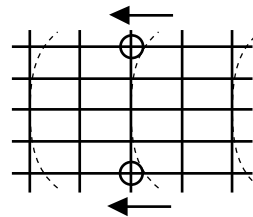
Vertical BOW

Adjust horizontal center line bow.



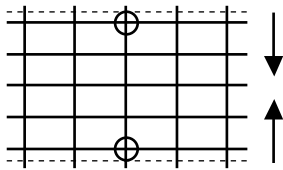
Horizontal BOW

Adjust vertical center line bow.



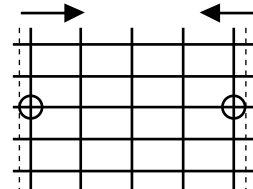
Vertical AMPLITUDE

Adjust top and bottom height.



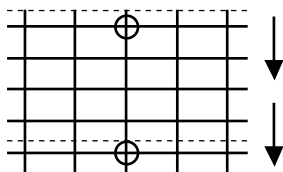
Horizontal AMPLITUDE

Adjust left and right width.



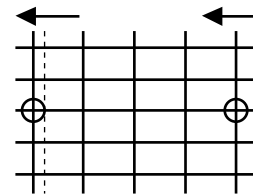
Vertical LINEARITY

Adjust top and bottom linearity.



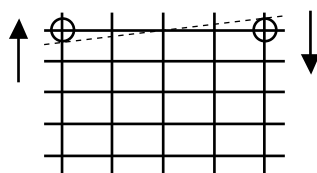
Horizontal LINEARITY

Adjust left and right linearity.

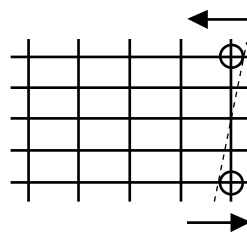


KEYSTONE

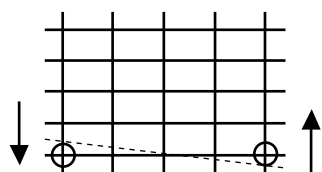
Adjust the selected part.



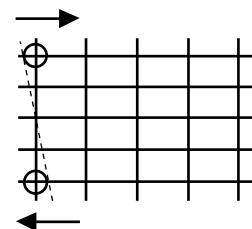
When U(Up) is selected



When R(Right) is selected

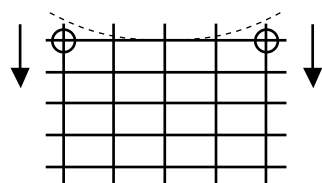


When D(Down) is selected

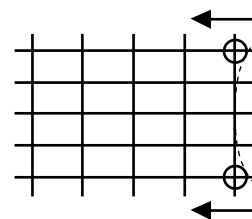


When L(Left) is selected

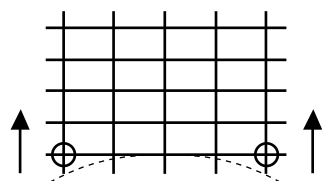
PINCUSHION



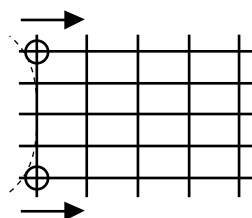
When U(Up) is selected



When R(Right) is selected



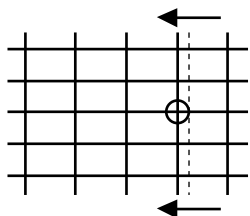
When D(Down) is selected



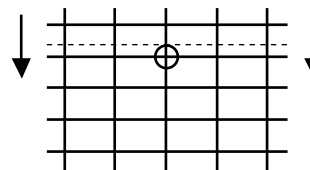
When L(Left) is selected

LINEAR-BALANCE

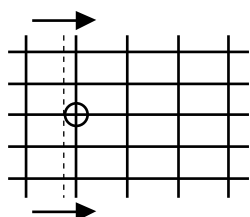
Adjust the selected part.



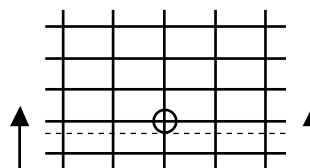
When R(Right) is selected



When U(Up) is selected



When L(Left) is selected



When D(Down) is selected





Point Convergence Adjustment

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

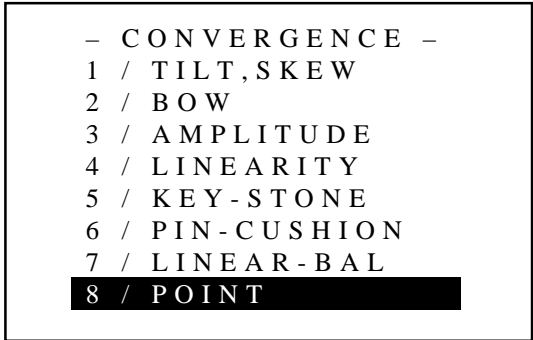
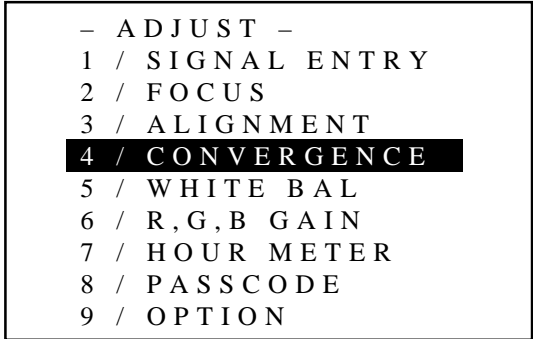
NOTE:

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

Proceed as follows:

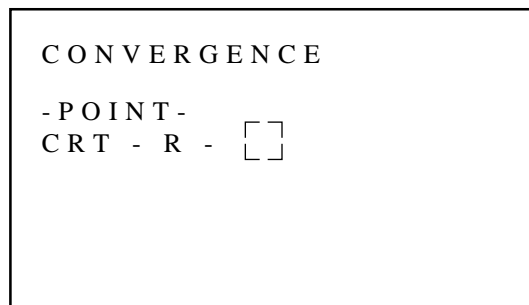
- 1 Press the ADJUST button to display the "ADJUST" menu.
 - The projector may ask you to enter your passcode. See page 52 for the explanation of the PASSCODE.
- 2 Use the CURSOR  or  button to highlight the "4/CONVERGENCE" line. Press ENTER to display the "CONVERGENCE" menu. You can also select the "CONVERGENCE" menu directly by pressing the INPUT "4" button.
 - "6/R, G, B GAIN" is not included in stand alone adjust menu.
- 3 Use the CURSOR  or  button to select the "8/POINT" line. Press ENTER. You can also select directly the point convergence by pressing the INPUT "8" button.
 - The CROSS-COARSE test pattern will be automatically displayed and the point adjustment will be displayed.
- 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.





NOTE: The "POINT" adjustment can be also displayed by pressing the POINT button on the full function remote control.



- 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.

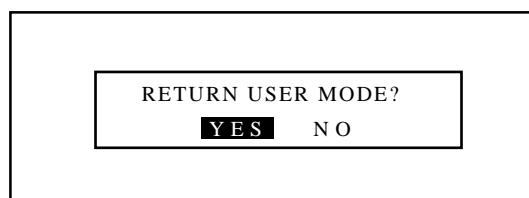
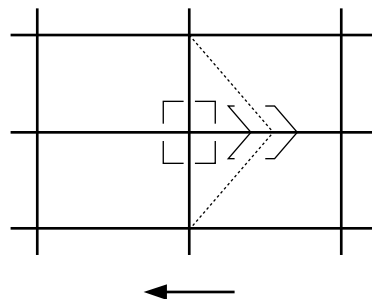
- 8 Repeat steps 4 to 7 for the other CRTs if necessary.

- 9 To end this adjustment, press END.

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

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.



ADJUSTMENT









White Balance Adjustment

Adjusts the white balance.

NOTE:

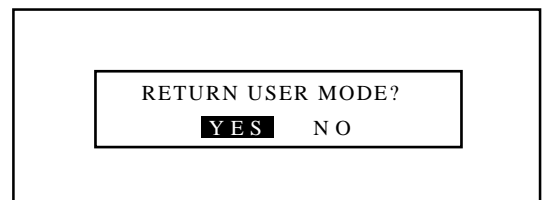
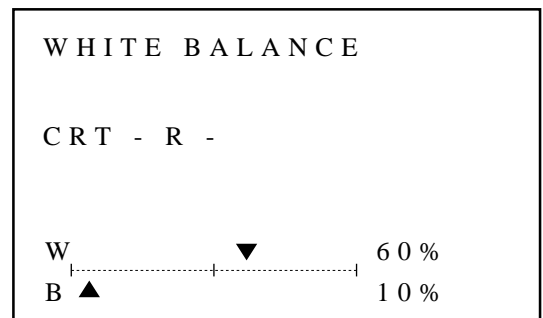
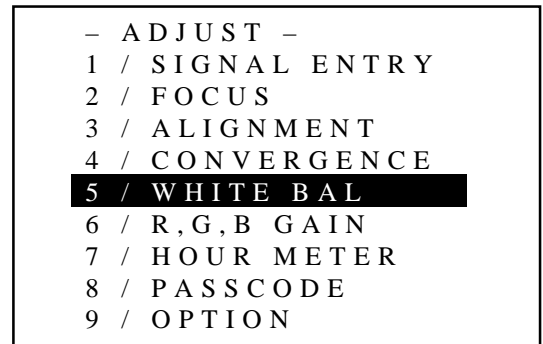
- When you are in the white balance adjustment mode, all the CRTs will be in use. The white balance adjustment should be performed for each CRT (R, G, and B) separately. The CRT beam cannot be cut-off.
- Select the WHITE-WINDOW pattern using the TEST button on the full function remote control.

Proceed as follows:

- 1 Press the ADJUST button to display the “ADJUST” menu.
 - The projector may ask you to enter your passcode.
See page 52 for the explanation of the PASSCODE.
- 2 Use the CURSOR  or  button to highlight the “5/WHITE-BAL” line. Press ENTER to switch to the “WHITE BALANCE” adjustment. You can also select the “WHITE BALANCE” adjustment directly by pressing the INPUT “5” button.
 - The “WHITE BALANCE” adjustment can be also displayed by using the KELVIN button on the full function remote control.
 - “6/R, G, B GAIN” is not included in stand alone adjust menu.
- 3 Hold down the CTL button then select the CRT you wish to adjust with the R, G and B buttons.
- 4 Use the CURSOR buttons to adjust the white and the black level.
 - The CURSOR  button increases the white level.
The CURSOR  button decreases the white level.
The CURSOR  button increases the black level.
The CURSOR  button decreases the black level.
- 5 Repeat steps 3 to 4 for the other CRTs if necessary.
- 6 To end this adjustment, press the END button.
 - Whenever the END button is pressed, the menus will sequence in this order.
“ADJUST” menu → Source screen
 - If the “RETURN USER MODE?” menu appears, use the CURSOR  or  button to select either “YES” or “NO” and then press ENTER. This will exit the ADJUST mode.

Items to select

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









R, G, and B Gain Adjustment



Adjusts the input level of the signal.

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

Proceed as follows:

- 1 Press the ADJUST button to display the “ADJUST” menu.
 - The projector may ask you to enter your passcode.
See page 52 for the explanation of the PASSCODE.
- 2 Use the CURSOR  or  button to highlight the “6/R, G, B GAIN” line. Press ENTER to display the “R, G, B GAIN” adjustment screen. You can also select the “R, G, B GAIN” adjustment screen directly by pressing the INPUT “6” button.
- 3 Hold down the CTL button then select the CRT you wish to adjust with the R, G, and B buttons.
- 4 Use the CURSOR buttons to adjust the level of the input signal.
 - The CURSOR ,  button increases the input level.
 - The CURSOR ,  button decreases the input level.

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

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

Items to select

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

```

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

R, G, B GAIN

CRT - R -

-----▼----- 60 %

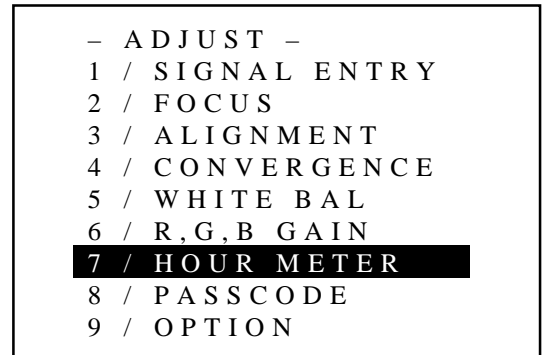
RETURN USER MODE?

YES NO

Checking and Setting the Running Time

The projector will give you the amount of operating time.
Proceed as follows:

- 1 Press the ADJUST button to display the “ADJUST” menu.
 - The projector may ask you to enter your passcode.
See page 52 for the explanation of the PASSCODE.
- 2 Use the CURSOR or button to highlight the “7/HOUR METER” line. Press ENTER to display the “HOUR METER” screen. You can also select the “HOUR METER” screen directly by pressing the INPUT “7” button.
 - The sixth item is “6/HOUR METER” in stand alone adjust menu.

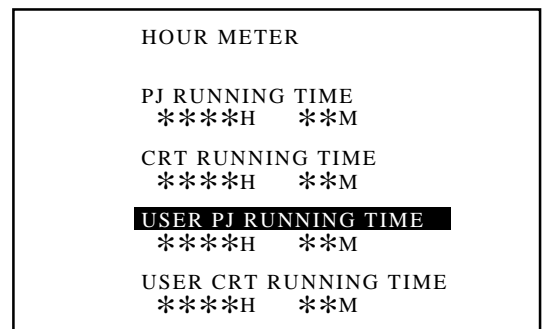


Items to select

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

How to reset the user projector or CRT running time:

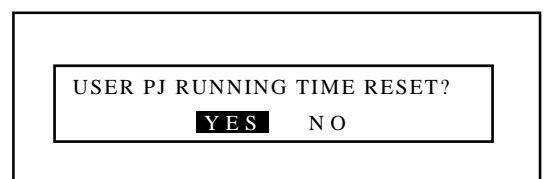
- 1) Use the CURSOR buttons to select the item and then press ENTER.
 - The “USER PJ RUNNING TIME RESET?” or “USER CRT RUNNING TIME RESET?” menu is displayed.



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

Items to select

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

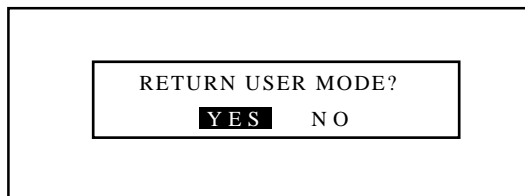


- The display will be returned to the “HOUR METER” screen.

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

Items to select

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



SETTING

Displaying the Various Setting Features

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

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

To eliminate the display, press END.





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

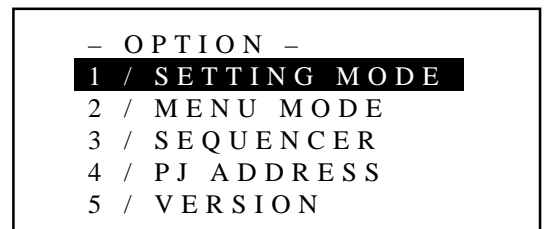
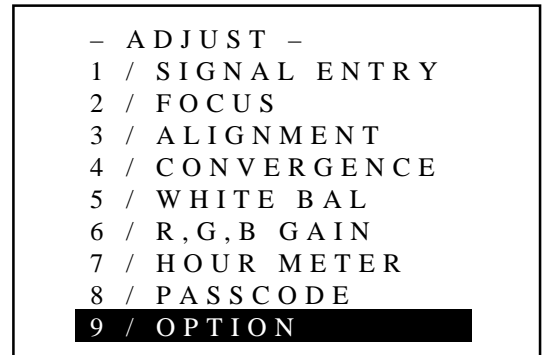
For changing parameters of the setting features, refer to the following pages.



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



Connecting to the Switcher

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



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



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

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

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

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

Items to select

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

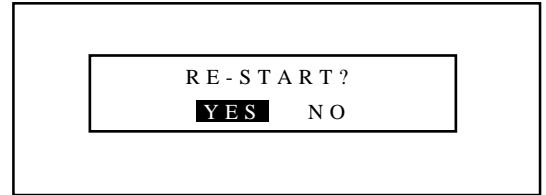


- 6 Use the CURSOR or button to select either “YES” or “NO” and press ENTER.

Items to select

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

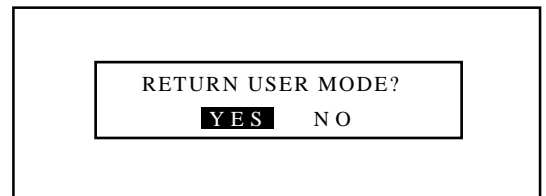
NOTE: The selected connection condition becomes effective only after the projector is restarted.



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

Items to select

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







ASTIG OUTPUT



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



Proceed as follows:

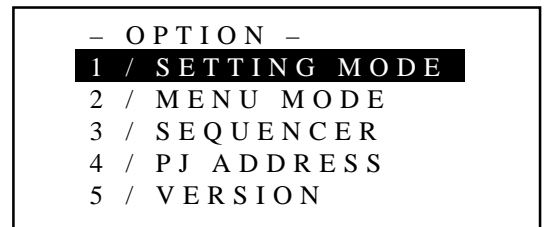
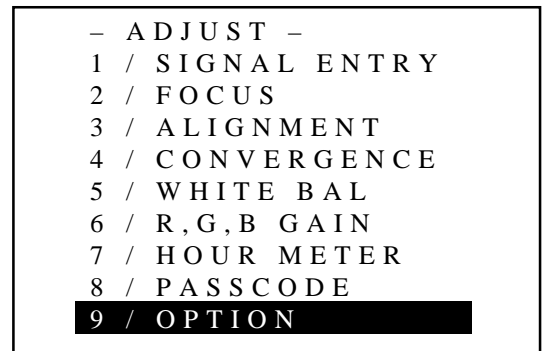
- 1 Press the ADJUST button to display the “ADJUST” menu.
 - The projector may ask you to enter your passcode.
See page 52 for the explanation of the PASSCODE.

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

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

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

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



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

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

Items to select

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

NOTE: Pressing ENTER demagnetizes the CRTs.

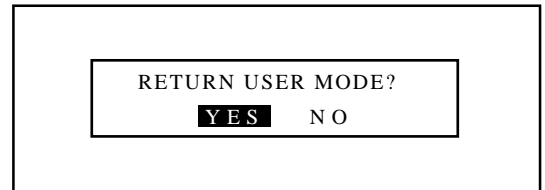


- 6 To complete, press the END button.

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

Items to select

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





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

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

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

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

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

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

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

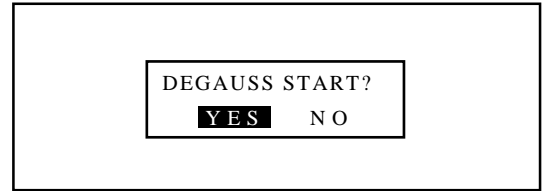
- 5 Use the CURSOR or button to select either “YES” or “NO” and press ENTER.

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

Also, when the projector’s configuration has changed using the “ASTIG OUTPUT” menu, the CRTs will be demagnetized automatically.

Items to select

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

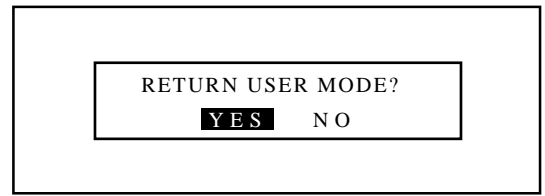


- 6 To complete, press the END button.

- 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.





Point Convergence

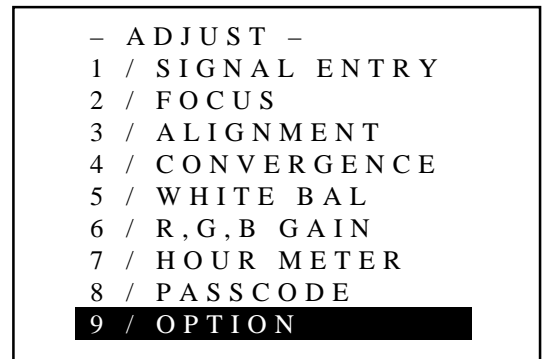
Activate the point convergence function after installing the point convergence board.



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

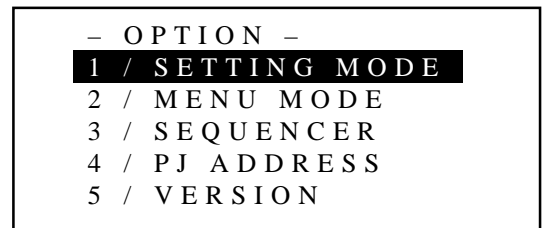
To activate the point convergence, proceed as follows:



- 1 Press the ADJUST button to display the “ADJUST” menu.
 - The projector may ask you to enter your passcode.
See page 52 for the explanation of the PASSCODE.



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

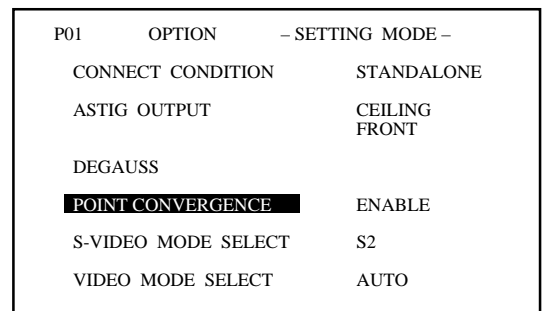


- 3 Use the CURSOR  or  button to highlight the “1/SETTING MODE” line. Press ENTER to display the “SETTING MODE” menu. You can also select the “SETTING MODE” menu directly by pressing the INPUT “1” button.



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

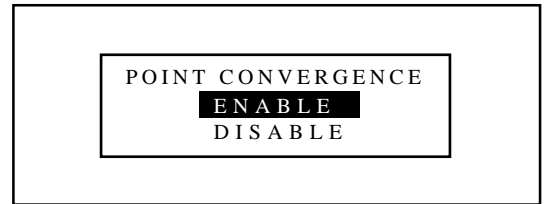
NOTE: The SETTING MODE has three menus. The “POINT CONVERGENCE” menu is on the first menu (P01). To access P02 or P03 from P01, press and hold down the CTL button then press the  button; to return to P01 from P02 or P03, press and hold down the CTL button then press the  button.



- 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.

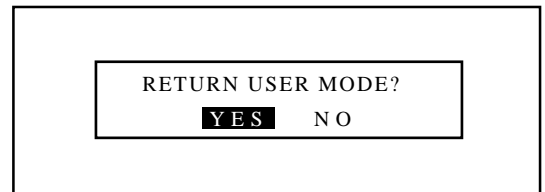


- 6 To end, press the END button.

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

Items to select



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







S-Video Mode Selection



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

- 1 Press the ADJUST button to display the “ADJUST” menu.
 - The projector may ask you to enter your passcode.
See page 52 for the explanation of the PASSCODE.

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

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

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

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

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

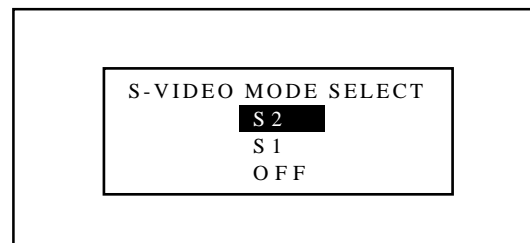
– OPTION –
1 / SETTING MODE
2 / MENU MODE
3 / SEQUENCER
4 / PJ ADDRESS
5 / VERSION

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

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

Items to select

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

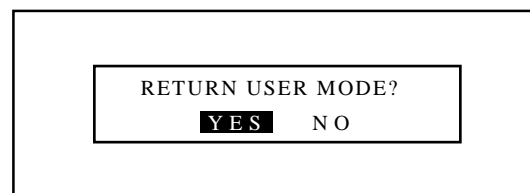


- 6 To end, press the END button.

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

Items to select

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



NOTE :



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

Video Mode Selection

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



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

- 1 Press the ADJUST button to display the “ADJUST” menu.
 - The projector may ask you to enter your passcode.
See page 52 for the explanation of the PASSCODE.

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



```



- 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” item, then press ENTER to display the “VIDEO MODE SELECT” menu.

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

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

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

When selecting “AUTO”

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

Video Modes

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

- Select “AUTO” in normal operation.

When selecting “MANUAL”

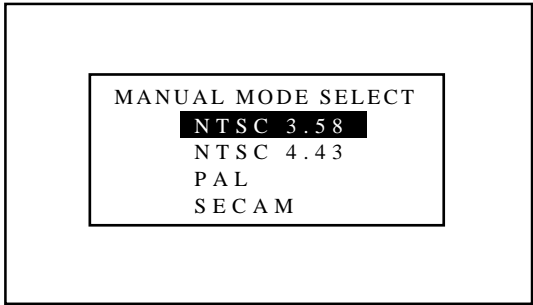
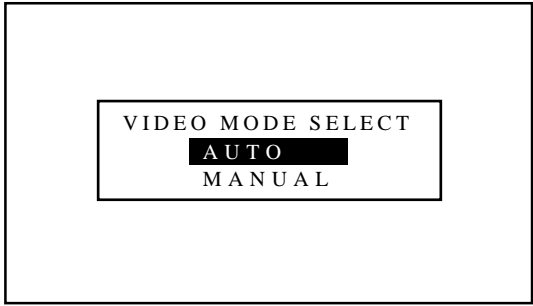
The “MANUAL MODE SELECT” menu will be displayed. Use the CURSOR or button to select the preferred video mode and then press ENTER.

Items to select

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

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

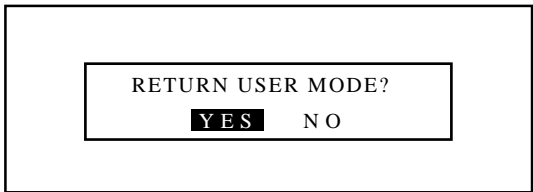
NOTE: The projector may not function correctly with a monochrome signals in the AUTO mode.



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

Items to select

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



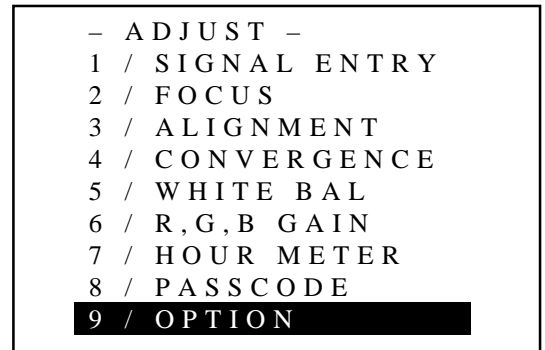
Default Input Selection

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

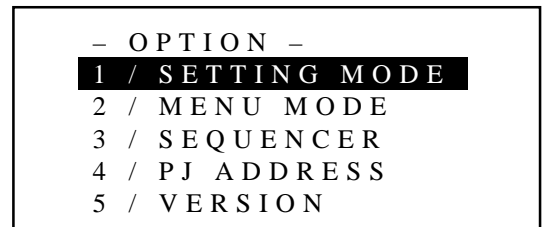
Proceed as follows:

- 1 Press the ADJUST button to display the “ADJUST” menu.
 - The projector may ask you to enter your passcode.
See page 52 for the explanation of the PASSCODE.

- 2 Use the CURSOR \leftarrow or \rightarrow 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.

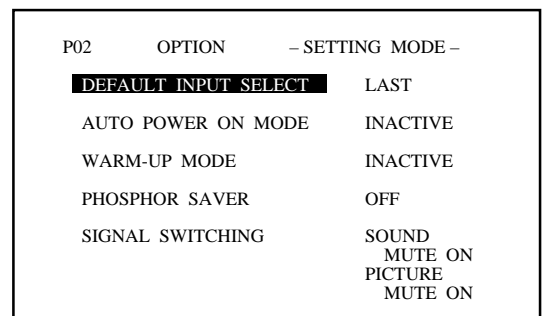




- 3 Use the CURSOR \leftarrow or \rightarrow button to highlight the “1/SETTING MODE” line. Press ENTER to display the “SETTING MODE” menu. You can also select the “SETTING MODE” menu directly by pressing the INPUT “1” button.



- 4 Use the CURSOR \leftarrow or \rightarrow button to select the “DEFAULT INPUT SELECT” item on Page 2, then press ENTER to display the “DEFAULT INPUT SELECT” menu.

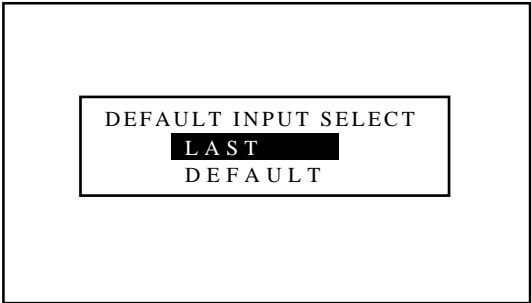
NOTE: The SETTING MODE has three menus. The “DEFAULT INPUT SELECT” item is on the second menu (P02). To access P02 from P01, press and hold down the CTL button then press the \rightarrow button; to return to P01 from P02, press and hold down the CTL button then press the \leftarrow button.





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



Items to select

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





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

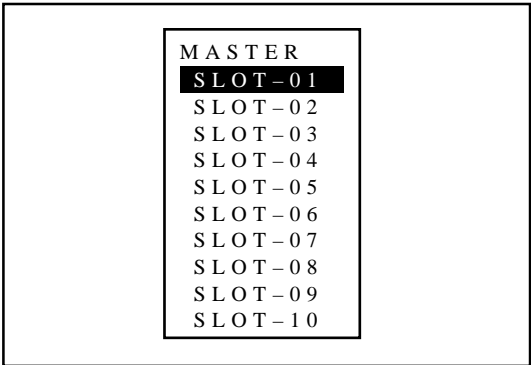
When used in stand alone operation:

The default input screen will be displayed.
Use the CURSOR  or  button to select “VIDEO”, “RGB”, or “S-VIDEO” and press ENTER.





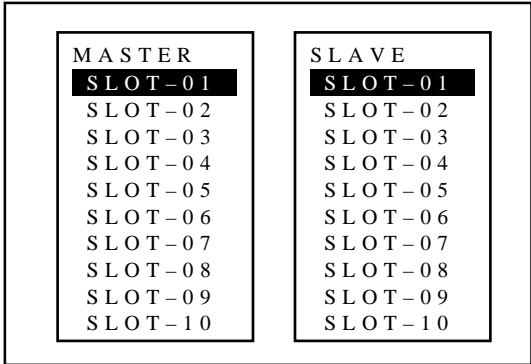
When used with a single Switcher:

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



When used with two or more Switchers:

The “MASTER” and “SLAVE” slot number menu will be displayed.
Use the CURSOR  or  button to select the master slot number first and then select the slave slot number “1” through “10(0)”.
Press ENTER.

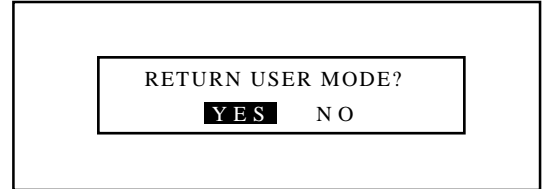


SETTING

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

Items to select

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







Auto Power ON Mode Setting

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

To do this, proceed as follows:

- 1 Press the ADJUST button to display the “ADJUST” menu.
 - The projector may ask you to enter your passcode.
See page 52 for the explanation of the PASSCODE.

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



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



```

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

```

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

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

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

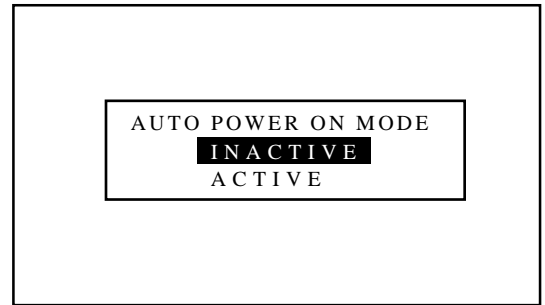
P02	OPTION	- SETTING MODE -
	DEFAULT INPUT SELECT	LAST
	AUTO POWER ON MODE	INACTIVE
	WARM-UP MODE	INACTIVE
	PHOSPHOR SAVER	OFF
	SIGNAL SWITCHING	SOUND MUTE ON PICTURE MUTE ON

SETTING

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

Items to select

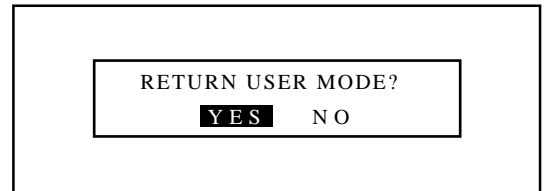
- INACTIVE . Normal operation setting. Power ON is accomplished through the rear panel or the POWER button on the remote control.
- ACTIVE Bypasses rear panel power button (or the POWER button on the remote control) to allow power ON to be controlled by an AC switched outlet.



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

Items to select



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



Warm-up Mode Setting

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



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

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

```

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



```



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

```

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

```

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

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

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

SETTING

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

Items to select

- INACTIVE. Displays the input source after the projector is turned on.
- ACTIVE Activates the warm-up program after the projector is turned on. The ALL WHITE test pattern will be displayed. The projector starts counting down from 15 minutes to 0.

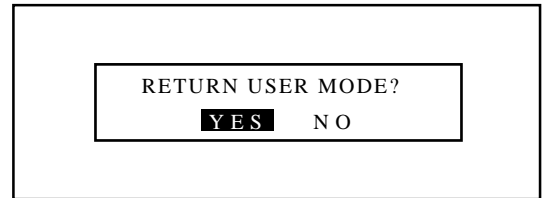
NOTE: To interrupt and cancel the warm-up cycle, press the END button.



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

Items to select

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







Phosphor Saver Setting

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

To set the Phosphor saver, proceed as follows:

- 1 Press the ADJUST button to display the “ADJUST” menu.
 - The projector may ask you to enter your passcode.
See page 52 for the explanation of the PASSCODE.

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



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



```

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

```

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

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

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

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

SETTING

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

Items to select

- OFF Deactivates the PHOSPHOR SAVER function.
- ON Activates the PHOSPHOR SAVER function.

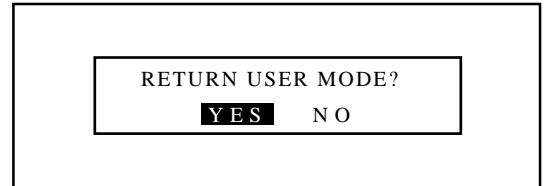
NOTE: When the on-screen display appears or you are in the adjustment mode, this function is cancelled. This can cause the source screen to be shifted.



- 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.



Signal Switching Mute Mode Setting



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

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

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



```



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

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

```

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

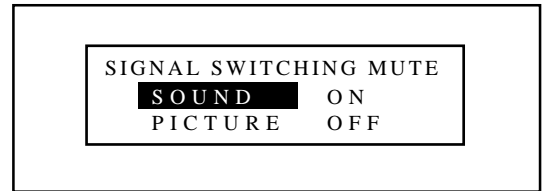
- 4 Use the CURSOR  or  button to select the “SIGNAL SWITCHING” item on Page 2, then press ENTER to display the “SIGNAL SWITCHING” menu.

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

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

SETTING

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



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

Items to select

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

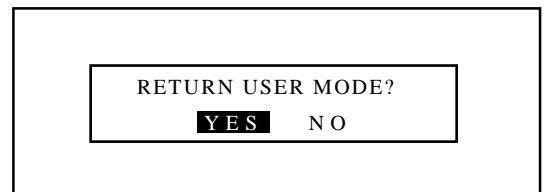
MUTE OFF.. Outputs a picture and/or sound during switching signals.



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

Items to select



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



Automatic Save Feature



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

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

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



```



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

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

```

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



- 4 Use the CURSOR  or  button to select the “AUTOMATIC DATA STORE” item on Page 3, then press ENTER to display the “AUTOMATIC DATA STORE” menu.

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

```

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


SETTING

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

Items to select



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

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

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

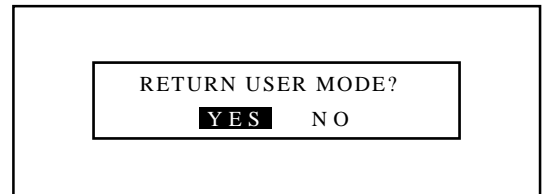
NOTE: After “DISABLE” is selected in the AUTOMATIC DATA STORE menu, the settings will not be stored in the memory unless you select “YES” in the “STORE ?” menu.



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

Items to select

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





Direct Entry Access Setting

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

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



To set this feature, proceed as follows:

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

```

- 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 “DIRECT ENTRY ACCESS” item on Page 3, then press ENTER to display the “DIRECT ENTRY ACCESS” menu.

NOTE: The SETTING MODE has three menus. The “DIRECT ENTRY ACCESS” item is on the third menu (P03).

To access P03 from P01, press and hold down the CTL button then press the  button twice; to return to P01 from P03, press and hold down the CTL button then press the  button twice.

```

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

```

SETTING

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

Items to select

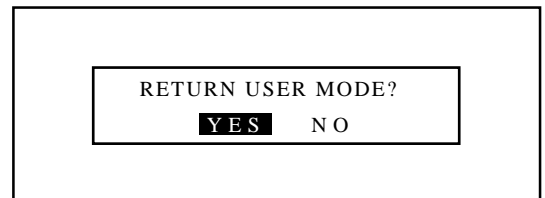
- DISABLE .. An error message will appear at the bottom of the screen and the signal is not switched when one of the INPUT buttons is pressed with CTL.
- ENABLE ... The signal is switched to the corresponding signal when one of the INPUT button is pressed with CTL.



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

Items to select

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





ASTIG Adjustment

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

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



To set this function, proceed as follows:

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

```

- 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 “ASTIG ADJUSTMENT” item on Page 3, then press ENTER to display the “ASTIG ADJUSTMENT” menu.

NOTE: The SETTING MODE has three menus. The “ASTIG ADJUSTMENT” item is on the third menu (P03).

To access P03 from P01, press and hold down the CTL button then press the  button twice; to return to P01 from P03, press and hold down the CTL button then press the  button twice.

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

SETTING

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

Items to select

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

```
ASTIG ADJUSTMENT
  OFF
  ON
```

FOCUS MENU when OFF is selected

```
- FOCUS -
1 / CENTER
2 / EDGE ALL
```

FOCUS MENU when ON is selected

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

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

Items to select



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

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

Focus Edge Mode

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



To set this, proceed as follows:

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

```

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



```



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

```

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

```

- 4 Use the CURSOR  or  button to select the “FOCUS EDGE MODE” item on Page 3, then press ENTER to display the “FOCUS EDGE MODE” menu.

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

```

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

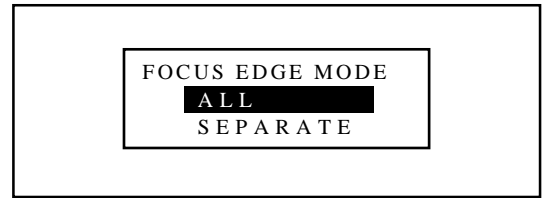
```

SETTING

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

Items to select

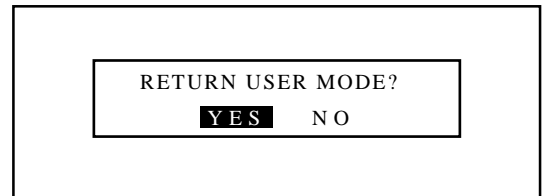
- ALL Affects all of the CRTs at the same time
- SEPARATE Affects each CRT separately



- 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.









On-screen Display Mode Setting

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

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

Proceed as follows:

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

```

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

```

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

OPTION	- MENU MODE -
MESSAGE MODE	AUTO 10 SEC
MESSAGE COLOR	COLOR
DATE, TIME DISPLAY	DATE : ON
DATE : MM/DD/YY	DAY : OFF
TIME : 24HOUR	TIME : ON
DATE, TIME PRESET	

SETTING

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

Items to select

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



MESSAGE MODE
AUTO
MANUAL

OFF TIME?



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

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

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

Items to select

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





RETURN USER MODE?
YES NO

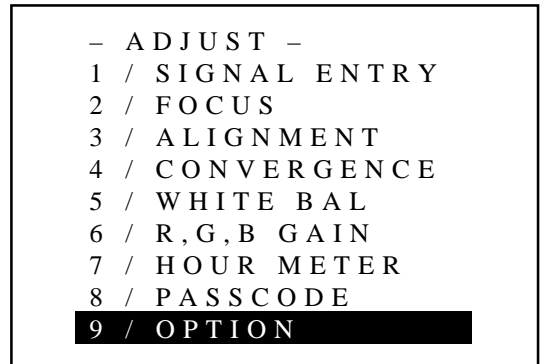
On-screen Display Color Setting



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

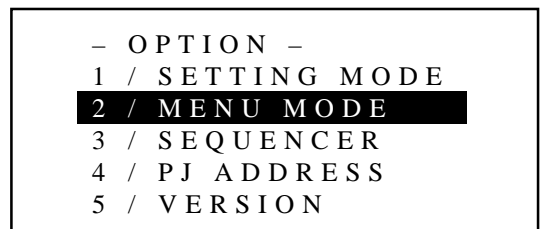
Proceed as follows:



- 1 Press the ADJUST button to display the “ADJUST” menu.
 - The projector may ask you to enter your passcode.
See page 52 for the explanation of the PASSCODE.

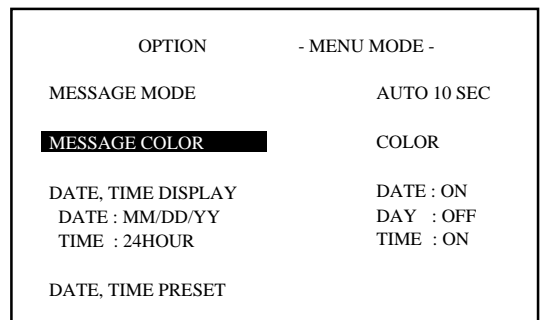
- 2 Use the CURSOR  or  button to highlight the “9/OPTION” line. Press ENTER to display the “OPTION” menu. You can also select the “OPTION” menu directly by pressing the INPUT “9” button.
 - The eighth item is “8/OPTION” in stand alone adjust menu.



- 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” item.
Press ENTER to display the “MESSAGE COLOR” menu.



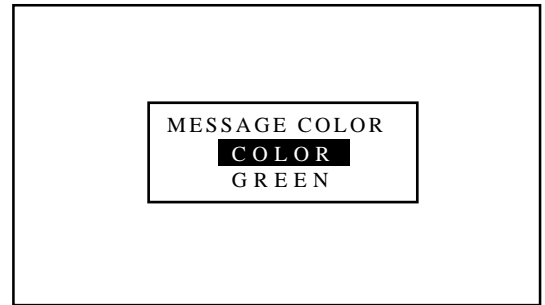
SETTING

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

Items to select

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

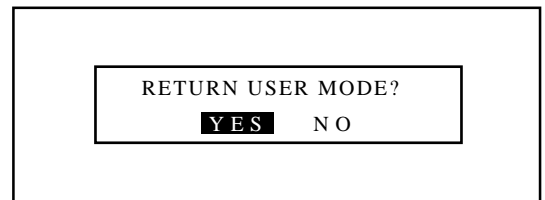
NOTE: It is recommended, if the on-screen message interferes with the display image in the “COLOR” mode, that you select “GREEN”.



- 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.







Date, Time Display Setting



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



Proceed as follows:

- 1 Press the ADJUST button to display the “ADJUST” menu.
 - The projector may ask you to enter your passcode.
See page 52 for the explanation of the PASSCODE.

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

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

- 4 Use the CURSOR  or  button to highlight the “DATE, TIME, DISPLAY” item. Press ENTER to display the “DATE, TIME DISPLAY” menu.

- 5 Use the CURSOR  or  button to select any one of the three items: DATE, DAY, and TIME. Then press ENTER.

```

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

```

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

OPTION	- MENU MODE -
MESSAGE MODE	AUTO 10 SEC
MESSAGE COLOR	COLOR
DATE, TIME DISPLAY	DATE : ON
DATE : MM/DD/YY	DAY : OFF
TIME : 24HOUR	TIME : ON
DATE, TIME PRESET	

```

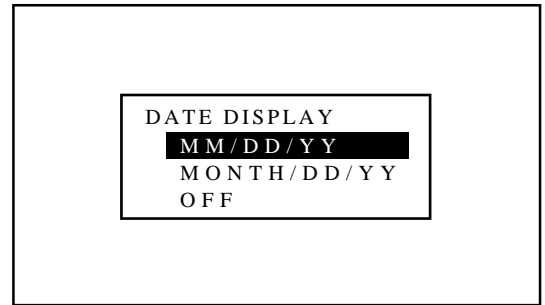
DATE, TIME DISPLAY
DATE ON
DAY OFF
TIME ON
  
```

■ When selecting “DATE”

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

Items to select

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

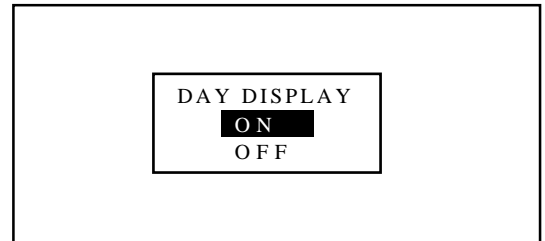


■ When selecting “DAY”

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

Items to select

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



■ When selecting “TIME”

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

Items to select

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

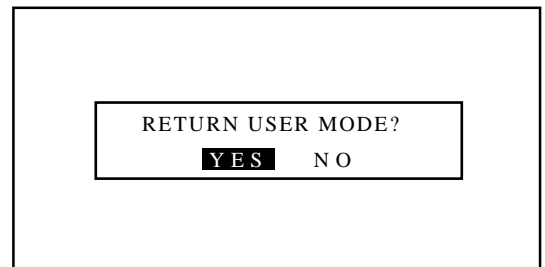


⑥ To end this mode, press END.

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

Items to select

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





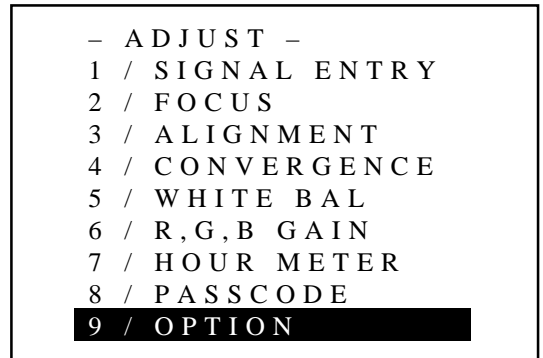
Entering Date and Time



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

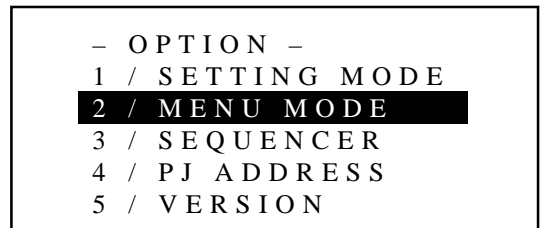
Proceed as follows:



- 1 Press the ADJUST button to display the “ADJUST” menu.
 - The projector may ask you to enter your passcode.
See page 52 for the explanation of the PASSCODE.

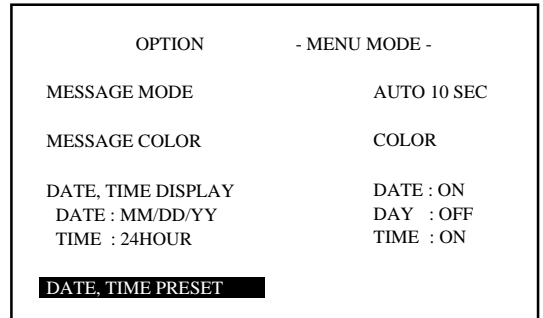
- 2 Use the CURSOR  or  button to highlight the “9/OPTION” line. Press ENTER to display the “OPTION” menu. You can also select the “OPTION” menu directly by pressing the INPUT “9” button.
 - The eighth item is “8/OPTION” in stand alone adjust menu.



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

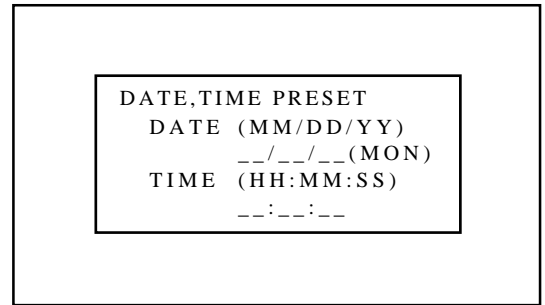


- 4 Use the CURSOR  or  button to highlight the “DATE, TIME PRESET” item. Press ENTER to display the “DATE, TIME PRESET” menu.

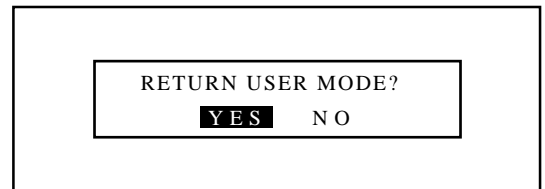


SETTING

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



- 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.

Auto Sequence Setting

You can program the projector to change sources.



To do this proceed as follows:

- 1 Press the ADJUST button to display the “ADJUST” menu.
 - The projector may ask you to enter your passcode.
See page 52 for the explanation of the PASSCODE.

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



```

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

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

```

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



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

Items to select



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

OPTION		- SEQUENCER -		
NO	INPUT		TIME	SMTWTFS
01	M-10	S-01	12:00:00	2VVVVV2
02	M-02	S-02	14:00:00	2VVVVV2
03	M-01	S-02		2VVVVV2
04	WAIT		00:10:00	
05	M-01	S-01		2VVVVV2
06	WAIT		00:20:00	
07	LOOP	03	COUNT 05	
08	M-02	S-02	15:50:00	2VVVVV2
09	P-OFF		18:00:00	2VVVVV2
10	P-ON		09:00:00	2VVVVV2
		START		EDIT

SETTING

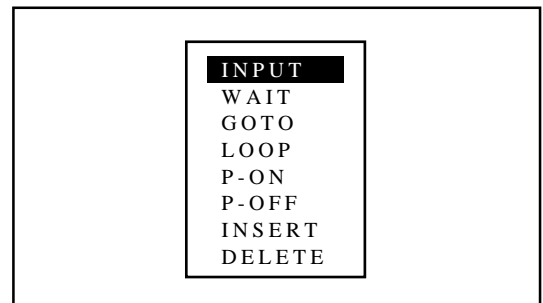
- 5 Use the CURSOR  or  button to highlight the line to be input and press ENTER.
- The Program menu is displayed.

OPTION - SEQUENCER -				
P01				
NO	INPUT		TIME	SMTWTFS
01	M-10	S-01	12:00:00	2VVVVV2
02	M-02	S-02	14:00:00	2VVVVV2
03	M-01	S-02		2VVVVV2
04	WAIT		00:10:00	
05	M-01	S-01		2VVVVV2
06	WAIT		00:20:00	
07	LOOP	03	COUNT 05	
08	M-02	S-02	15:50:00	2VVVVV2
09	P-OFF		18:00:00	2VVVVV2
10	P-ON		09:00:00	2VVVVV2
START				EDIT

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



Items to select

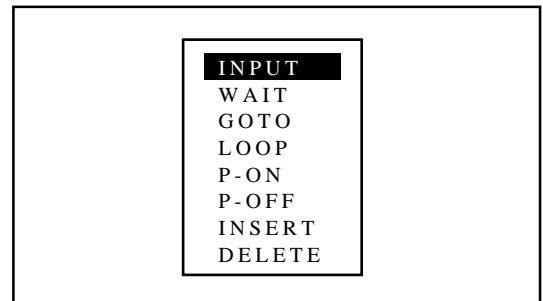
- INPUT Enter new data.
- WAIT Retains the current condition for a specified time.
- GOTO Jumps to the selected line
- LOOP Executes the LOOP operation.
- P-ON Programs to turn on the power at the desired time.
- P-OFF Programs to turn off the power at the desired time.
- INSERT Inserts the selected 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:

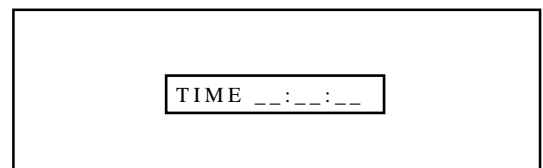
- 1) Use the CURSOR  or  button to select “INPUT” and press ENTER.
 - The “VIDEO/RGB/S-VIDEO” terminal menu is displayed.



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

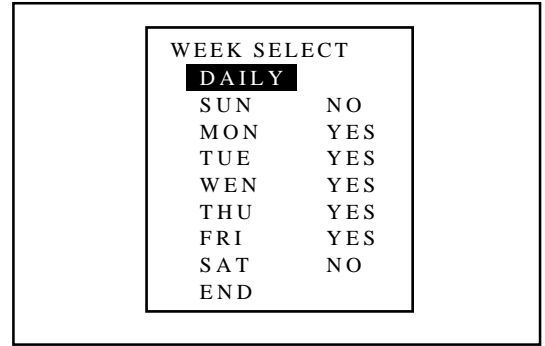


- 3) Enter the starting time using INPUT buttons and press ENTER.
 - Type the time in hours (24 hours), minutes, and seconds.
 - If you have made an error in the input of numbers, press the END button to return to the “VIDEO/RGB/S-VIDEO” terminal menu then start from step 2).
 - The “WEEK SELECT” screen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



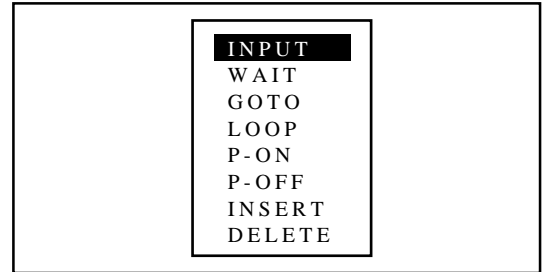
- 4) Use the CURSOR or button to select any day of the week, then select either “YES” or “NO” with ENTER.
 - When “DAILY” selected, the entire week is changed to “YES”.
 - When “END” is selected, the current setting is saved.
 - To return to Step 3), press the END button. In that case, the changed setting 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 103)

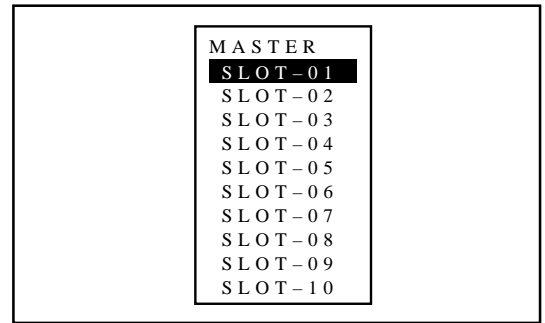


When using with a single ISS-6010/ISS-6010G Switcher:

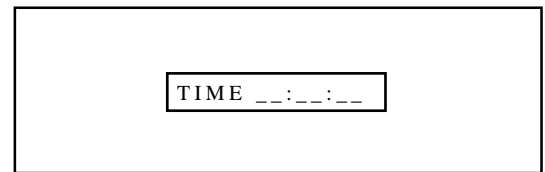
- 1) Use the CURSOR or button to select “INPUT” and press ENTER.
 - The “MASTER” menu will be displayed.



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

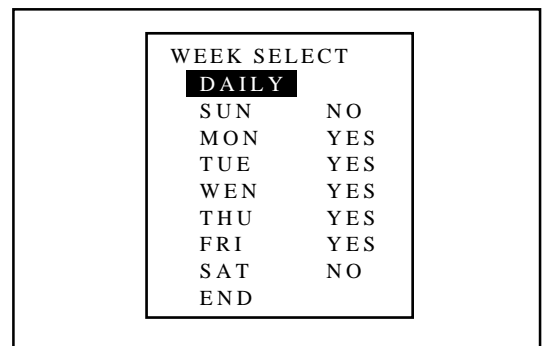


- 3) Enter the starting time using INPUT buttons and press ENTER.
 - Type the time in hours (24 hours), minutes, and seconds.
 - If you have made an error in the input of numbers, press the END button to return to the “MASTER” menu then start from step 2).
 - The “WEEK SELECT” screen will appear.





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

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

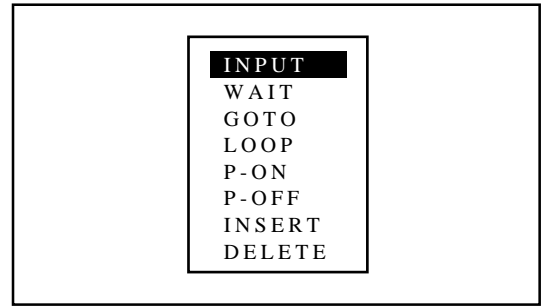




SETTING

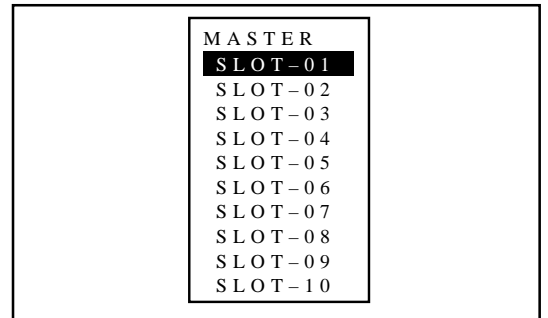
When using with two or more ISS-6010/ISS-6010G Switchers:



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

- The “MASTER” and “SLAVE” menu will be displayed.

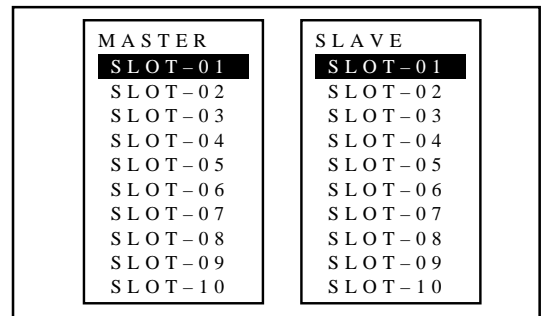


- 2) Use the CURSOR  or  button to select the input slot number of the master Switcher from the “MASTER” menu and press ENTER.



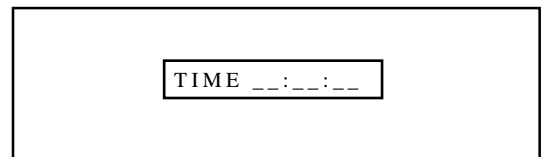
- 3) Use the CURSOR  or  button to select the input slot number of the slave Switcher from the “SLAVE” menu and press ENTER.

- The “TIME” input screen will be displayed.





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

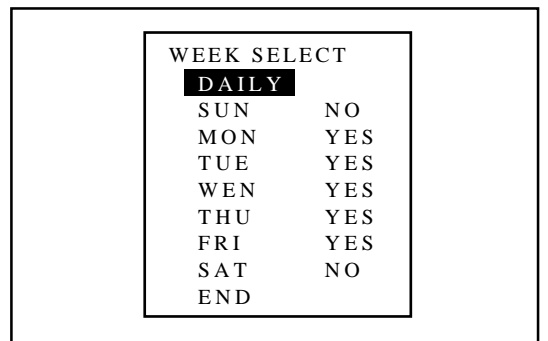
- Type the time in hours (24 hours), minutes, and seconds.
- If you have made an error in the input of numbers, press the END button to return to the “SLAVE” menu then start from step 2).



- The “WEEK SELECT” screen will appear.

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

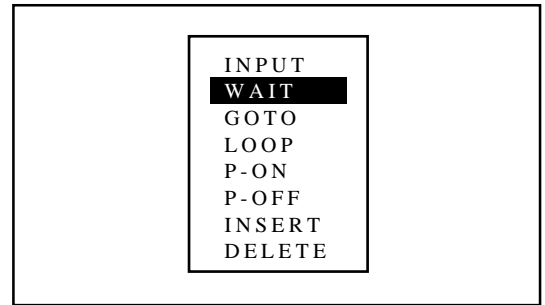
- When “DAILY” selected, the entire week is changed to “YES”.
- When “END” is selected, the current setting is saved.
- To return to Step 4), press the END button. In that case, the changed setting is invalid.



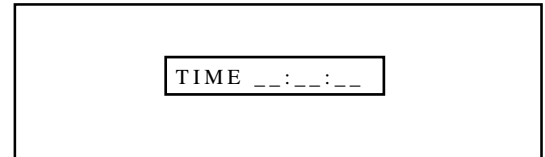
NOTE: Typing 99:99:99 in the time input menu will execute the program immediately. (See the example in the following “WAIT” section.)

■ **Selecting “WAIT”**

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



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



Example:

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

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

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

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



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

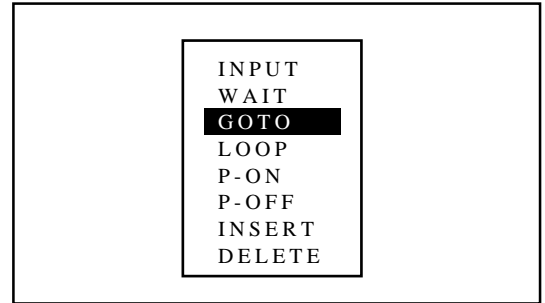
Finally, the power will be turned off.

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

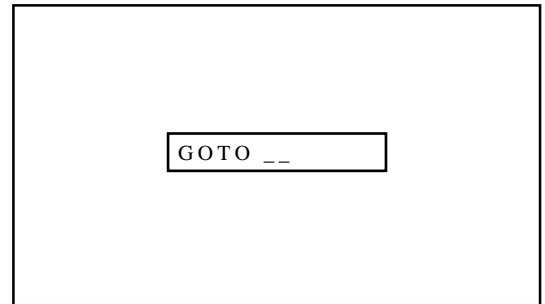
OPTION - SEQUENCER -			
P01			
NO	INPUT	TIME	SMTWTFS
01	VIDEO		○○○○○○○
02	WAIT	00:20:00	
03	P-OFF		○○○○○○○
04			
05			
06			
07			
08			
09			
10			
START		EDIT	

■ **Selecting “GOTO”**



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

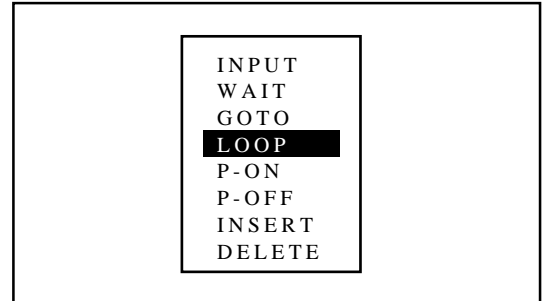


- 2) Enter the scan number line to which you want to jump to using the INPUT button and press ENTER.
 - If you have made an error, press END to return to the Program menu, then start again.
 - The “SEQUENCER” screen will be restored to its last setting.

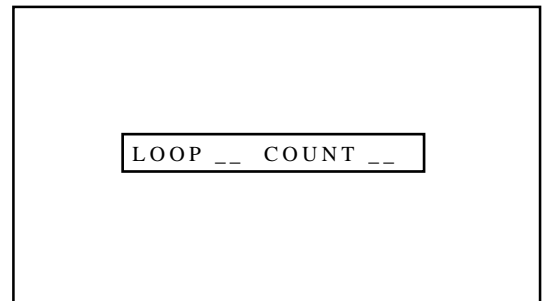


■ **Selecting “LOOP”**



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

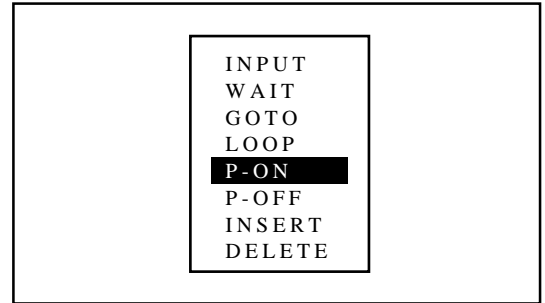


- 2) Enter the number of the destination line (LOOP) and the number of the loop times (COUNT) in this order using the INPUT button and press ENTER.
 - If you have made an error, press END to return to the Program menu, then start again.
 - The “SEQUENCER” screen will be restored to its last setting.



■ Selecting “P-ON”

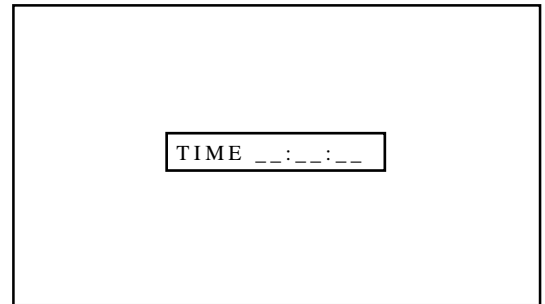
- 1) Use the CURSOR  or  button to select “P-ON” and press ENTER.
 - The POWER ON input screen will be displayed.





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

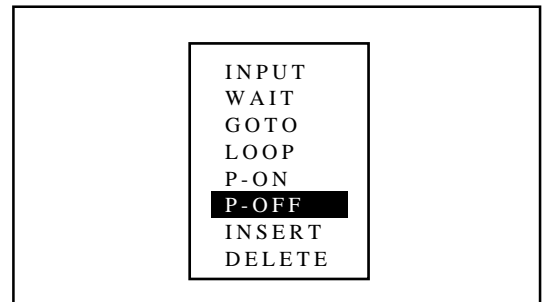
NOTE 1: Typing 99:99:99 in the time input menu will execute the program immediately.

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



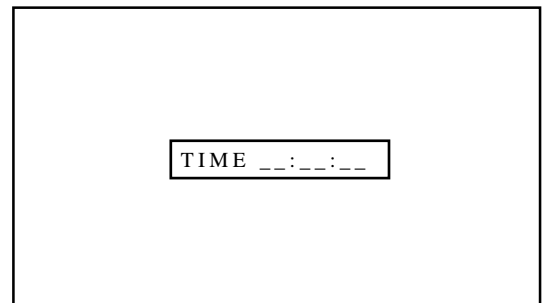
■ Selecting “P-OFF”

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





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

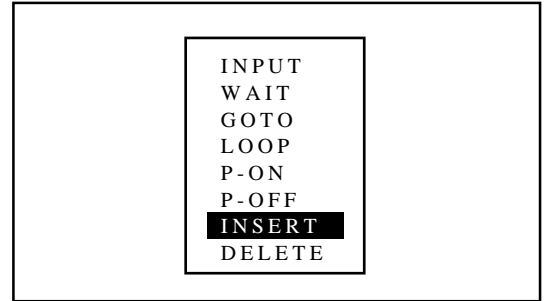
NOTE: Typing 99:99:99 in the time input menu will execute the program immediately. (See the example in the “WAIT” section on page 103)





SETTING

■ Selecting “INSERT”



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

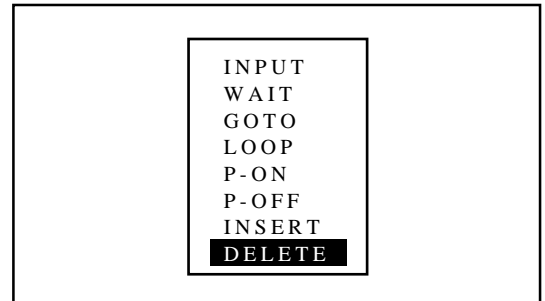




- 2) Use the CURSOR  or  button to select where you wish to insert a vacant line and press ENTER.
 - The highlighted line will be switched to a vacant line and the original line(s) will be moved down.

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

■ Selecting “DELETE”

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



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

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

7 Pressing the END button will exit the “EDIT” mode.

Select “START” and press ENTER to execute the program.

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

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

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

8 To end this mode, press the END button.

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

“SEQUENCER” screen (No highlighted line) → “ADJUST” menu → Source screen

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

Items to select

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



RETURN USER MODE?
YES NO

Address Setting

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



Proceed as follows:

- 1 Press the ADJUST button to display the “ADJUST” menu.
 - The projector may ask you to enter your passcode. See page 52 for the explanation of the PASSCODE.

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

```

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

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

```

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

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

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

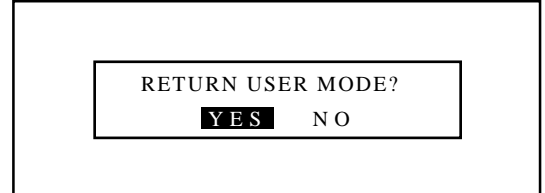
```

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

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

Items to select

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



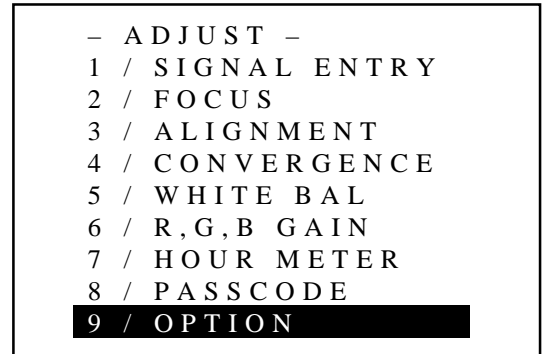
Projector Version Number

This function lets you know the version for hardware and software used in the projector.

To view the Version number, proceed as follows:

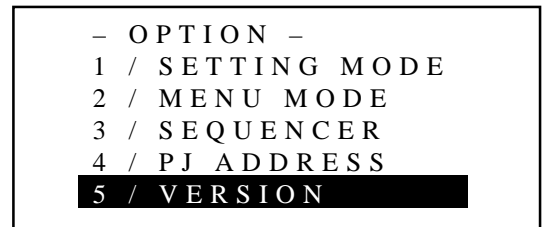
1 Press the ADJUST button to display the “ADJUST” menu.

- The projector may ask you to enter your passcode.
See page 52 for the explanation of the PASSCODE.



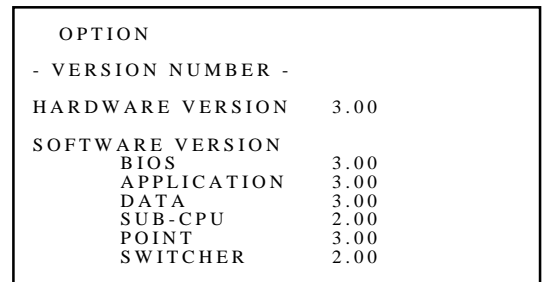
2 Use the CURSOR or button to highlight the “9/OPTION” line. Press ENTER to display the “OPTION” menu. You can also select the “OPTION” menu directly by pressing the INPUT “9” button.

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



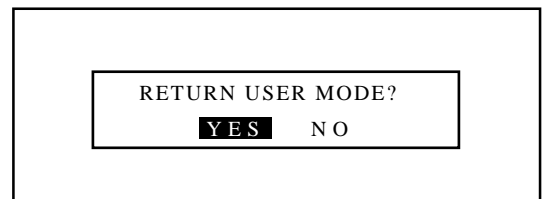
3 Use the CURSOR or button to highlight the “5/VERSION” line. Press ENTER to display the “VERSION NUMBER” menu. You can also select the “VERSION NUMBER” menu directly by pressing the INPUT “5” button.

- You will know what version number your applications software and the projector are.
- The “POINT” and “SWITCHER” items are available only when the point convergence is set to the ENABLE and the connect condition to the SW 1 or 2 LEVEL.



4 To complete this, press END.

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



Items to select

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

Step Through Menu for Projector Set up

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

Proceed as follows:

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

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

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

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

- FOCUS -
1 / CENTER
2 / EDGE ALL
```

- 4 To stop this mode, press END.
 - The display will return to the source screen.
 - If the “RETURN USER MODE?” menu appears, use the CURSOR or button to select either “YES” or “NO” and press ENTER. This will exit the ADJUST mode.

Items to select

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

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

TIMING CHARTS

Pre-set Signals

The following signals have been set by factory.

MultiSync 6PG XTRA

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

MultiSync 9PG XTRA

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

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

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

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

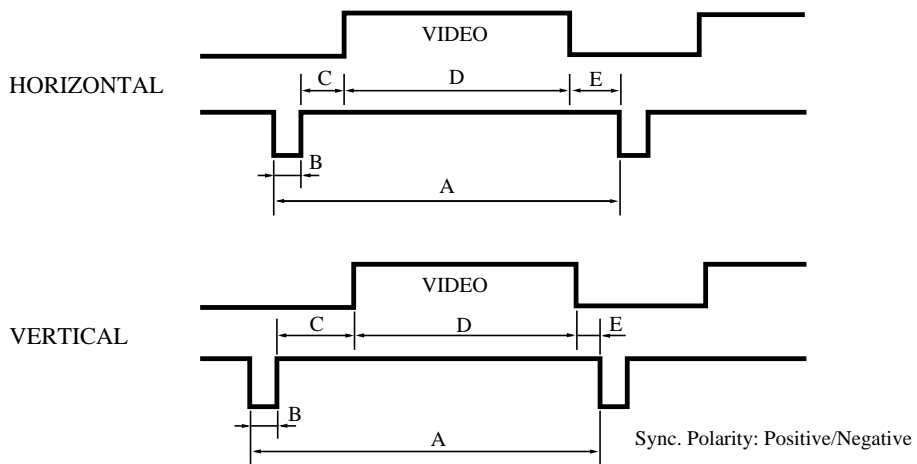
P07 INPUT SELECT			
STANDALONE			
NO	INPUT	NAME	DATE
61	RGB	HP-WS	
62			
63			
64			
65			
66			
67			
68			
69			
70			

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

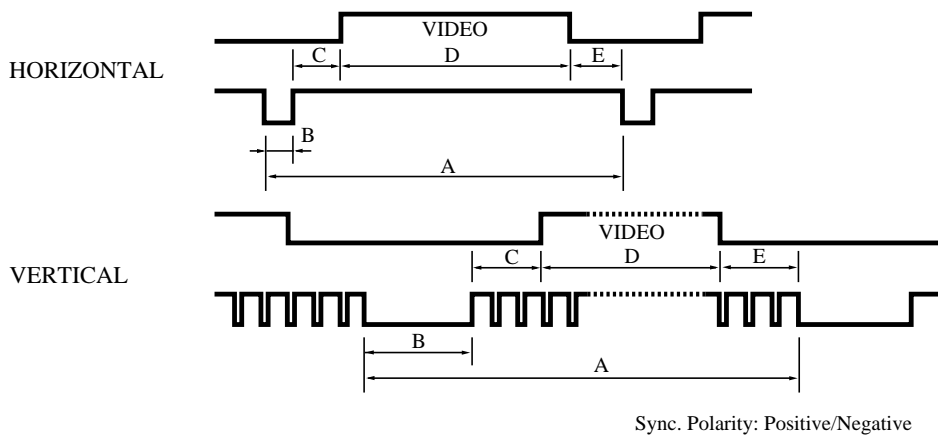
P08 INPUT SELECT			
STANDALONE			
NO	INPUT	NAME	DATE
71	VIDEO	NTSC(F)	
72	RGB	VGA(F)	
73			
74			
75			
76			
77			
78			
79			
80			

Input Signal Reference Chart

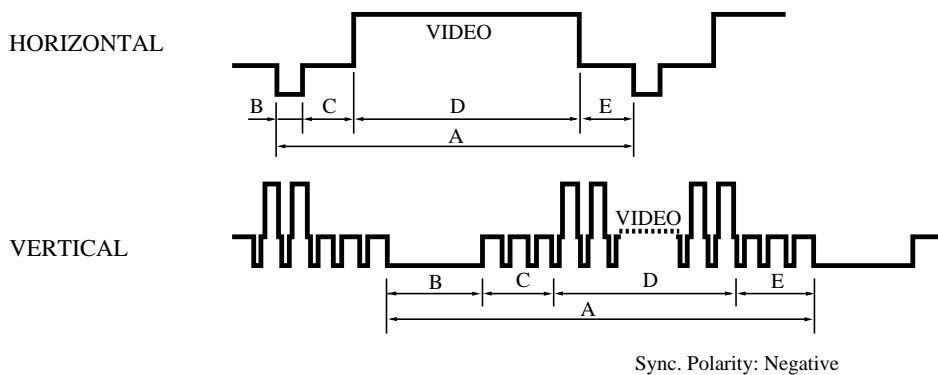
Separate Sync.



Composite Sync.



Composite Sync. & Video (Sync. on Green)



TIMING CHART

Input Signal Timing

		A	B	C	D	E	Polarity
IBM VGA 350	H μ s	31.8	3.8	1.6	26.1	0.3	+
	V ms	14.3	0.06	1.72	11.53	0.99	-
IBM VGA 400	H μ s	31.8	3.8	1.6	26.1	0.3	-
	V ms	14.3	0.06	0.89	13.19	0.16	+
IDTV	H μ s	31.78	2.76	1.6	26.29	1.13	-
	V ms	16.67	0.64	0.77	15.14	0.12	-
Macintosh II	H μ s	28.57	2.12	3.17	21.16	2.12	
	V ms	15	0.09	1.11	13.71	0.09	
IBM VGA 480	H μ s	31.8	3.8	1.6	26.1	0.3	-
	V ms	16.7	0.06	0.79	15.79	0.06	-
Macintosh Quadra	H μ s	14.64	1.30	1.32	11.56	0.46	
	V ms	13.342	0.044	0.574	12.68	0.044	
VESA 800 \times 600 (72 Hz)	H μ s	20.8	2.4	1.28	16.00	1.12	
	V ms	13.887	0.124	0.479	12.510	0.722	
VESA 1024 \times 768 (60 Hz)	H μ s	20.677	2.092	2.462	15.754	0.369	
	V ms	16.667	0.124	0.600	15.880	0.062	

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

PASSCODE

Entering Passcode

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

To do this, proceed as follows:

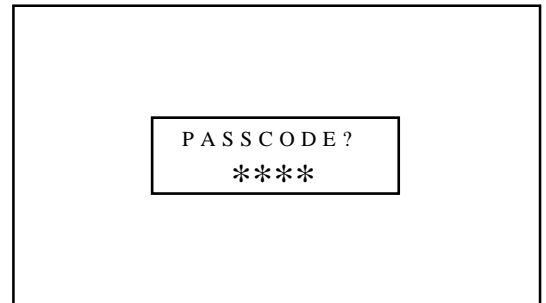
- 1 Press the ADJUST button.
 - The “PASSCODE?” screen is displayed.

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

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

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

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





- 3 Proceed to each adjustment and setting.



Registering Passcode

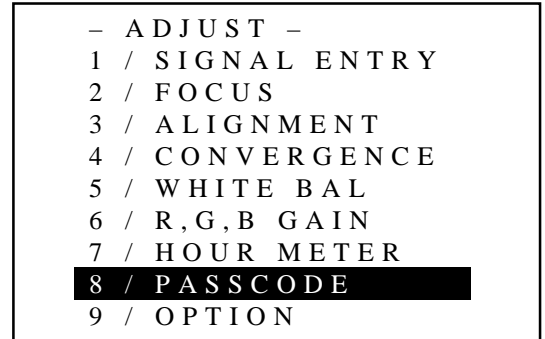
When the projector is shipped from the factory, no passcode is registered. If you want to use the passcode option, you must register a passcode.

To register a new passcode, proceed as follows:

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

- 2 Use the CURSOR  or  button to highlight the “8/PASSCODE” line. Press ENTER to display the “PASSCODE” menu. You can also select the “PASSCODE” menu directly by pressing the INPUT “8” button.
 - The seventh item is “7/PASSCODE” in stand alone adjust menu.

- 3 Use the CURSOR  or  button to select “ENTRY”. Press ENTER to display the “NEW PASSCODE?” menu. You can also select the “NEW PASSCODE?” menu directly by pressing the INPUT “1” button.



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

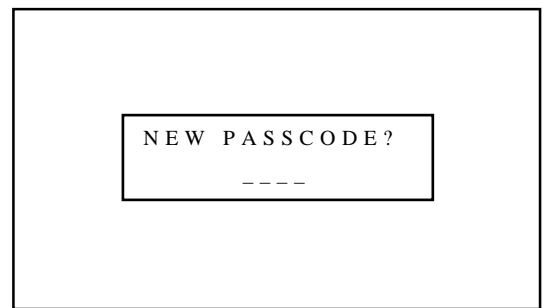
NOTE: “0000” and “9999” cannot be used as a passcode.

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

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

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

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



PASSCODE

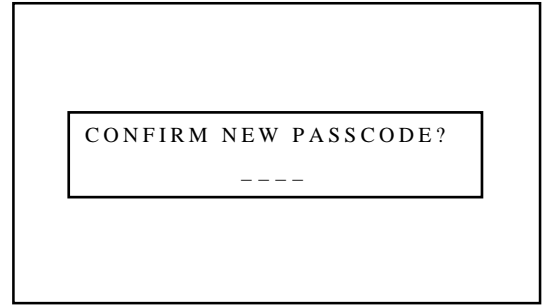
5 Enter the new passcode again.

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

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

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

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

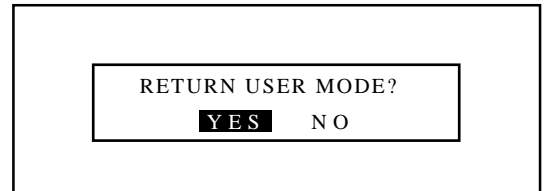


6 To complete, press the END button.

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

Items to select

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







Changing Your Passcode

To change your passcode, proceed as follows:

- 1 Press the ADJUST button.
 - The “PASSCODE?” screen will be displayed.

- 2 Enter the four digit current passcode using the “1” through “0” buttons. Press ENTER.
 - The “ADJUST” menu will be displayed.

- 3 Use the CURSOR  or  button to highlight the “8/PASSCODE” line. Press ENTER to display the “PASSCODE” menu. You can also select the “PASSCODE” menu directly by pressing the INPUT “8” button.
 - The seventh item is “7/PASSCODE” in stand alone adjust menu.

- 4 Use the CURSOR  or  button to select “1/ENTRY”. Press ENTER to display the “CURRENT PASSCODE?” menu. You can also select the “CURRENT PASSCODE?” menu directly by pressing the INPUT “1” button.

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

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

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

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

```

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

```

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

```

CURRENT PASSCODE?
*****
  
```

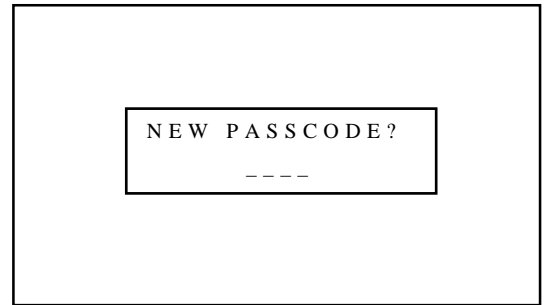
PASSCODE

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

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

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

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

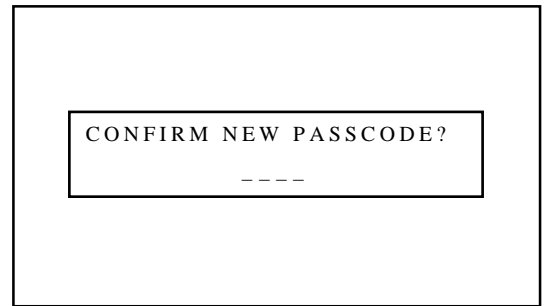


- 7 Enter the new passcode again using the “1” through “0” buttons.
- 1) Each time you press the INPUT button, an asterisk will appear under the “CONFIRM NEW PASSCODE?” message.
 - 2) Once you have finished entering the four digit new passcode, press ENTER.

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

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

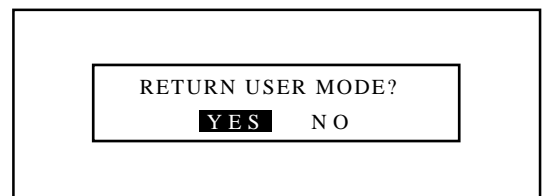
NOTE: If the passcode is not entered correctly, the “WARNING DIFFERENT PASSCODE!!” message is displayed. You will be required to enter the new passcode correctly.



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

Items to select

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







Canceling Your Passcode

To cancel the passcode, proceed as follows:

- 1 Press the ADJUST button and then enter your passcode.
 - The “PASSCODE?” screen will be displayed.

- 2 Enter the four digit current passcode using the “1” through “0” buttons and then press ENTER.
 - The “ADJUST” menu will be displayed.

- 3 Use the CURSOR  or  button to highlight “8/PASSCODE”. Press the ENTER button to display the “PASSCODE” menu. You can also select the “PASSCODE” menu directly by pressing the INPUT “8” button.
 - The seventh item is “7/PASSCODE” in stand alone adjust menu.

- 4 Use the CURSOR  or  button to select “2/DISABLE”. Press ENTER to display the “CURRENT PASSCODE?” menu. You can also select the “CURRENT PASSCODE?” menu directly by pressing the INPUT “2” button.

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

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

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

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

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

```

CURRENT PASSCODE?
*****
  
```

PASSCODE

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

Items to select

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

PASSCODE DISABLE?

YES NO

SPECIFICATIONS

Projection type	Refraction type Projector and screen are separated
Projection system	3 lens and 3 CRTs in-line
Scanning frequency	H 15 to 69 kHz/V 38 to 160Hz (PG-6200/PG-6200G) H 15 to 100 kHz/V 38 to 160Hz (PG-9200/PG-9200G)
Retrace time	H 4.0 μS (fH 15 to 30kHz) H 2.5 μS (fH 30 to 100kHz) V 350 μS
Video bandwidth	100MHz (-3dB) PG-9200/PG-9200G 80MHz (-3dB) PG-6200/PG-6200G
CRT	7 inch liquid cooled Deflection angle 90 degrees
Lens	Hybrid lenses multilayer coating F1.0
Picture size	60 to 300 inches diagonal
Resolution	1000TV lines
Pixel resolution	1600 × 1200 dots (PG-9200/PG-9200G) 1280 × 1024 dots (PG-6200/PG-6200G)
Light output	1000 lumens (Small area peak high light brightness)
Contrast ratio	20 : 1 (HDTV method)
High voltage	32kV
Input	RGB signal 0.7Vp-p 75ohm positive (BNC) H/V sync 0.7 to 4.0Vp-p 75 ohm/1 K ohm negative or positive (BNC) COMP sync 0.7 to 4.0Vp-p 75ohm/1 K ohm negative or positive (BNC) Sync on G 0.3 to 0.6Vp-p 75ohm negative (BNC) Video 1.0Vp-p 75ohm positive (BNC) or (switchable) S-video: Y 1.0Vp-p 75ohm positive C 0.28Vp-p 75ohm (burst level) Video system NTSC, PAL, SECAM and NTSC4.43
Convergence	Digital convergence (Pre-set 100 positions) Quick copy convergence Static and wave convergence Point convergence: PG-6200/PG-6200G Optional PG-9200/PG-9200G Standard
Convergence limits	Less than 0.2% of V-height
Warm up time	20 minutes
Setup signal	Cross hairs, Cross hatch, Dot, Window Pattern, H test pattern
Power supply	AC 120V 60Hz (PG-6200/PG-9200) AC 220-240V 50Hz (PG-6200G/PG-9200G)
Power consumption	PG-6200/PG-6200G 500W PG-9200/PG-9200G 550W
Input current	6.8A (AC 120V) PG-6200 7.6A (AC 120V) PG-9200 4.0A (AC 220-240V) PG-6200G 4.4A (AC 220-240V) PG-9200G

Safety and regulation ...	PG-6200/PG-9200; Meets FCC class A requirements UL Approved (UL 1950, CSA 950) DHHS Approved Meets DOC (Canada) Meets RED ACT PG-6200G/PG-9200G; Meets EMC Directive (EN55022, EN61000-3- 2, EN61000-3-3, EN55082-1, pr EN55024- 2, pr EN55024-3, pr EN55024-4) Meets Low Voltage Directive (EN60950, TÜV GS Approved) PTB Approved
Cabinet dimensions	610(W) × 754(D) × 309(H) mm 24 1/8(W) × 29 5/8(D) × 12 1/8(H) inch
Weight	56 kg/123.5 lbs
Remote control	Wired application Wireless (operating distance 7m/23ft.)
Remote control functions ..	User remote (RG-6020); Power ON/OFF, Input signal select, Picture mute, Bright, Contrast, Color 1), Sharpness 1), Tint 2), Volume 3), Sound mute 3), Source information, Static convergence, Normalize, Enter, End Full function remote (RC-6051); Test, Display, Help, Information, Input list, Static focus, Edge focus, H/V position, White balance select, Static convergence, Wave convergence, Point convergence, H/V amplitude, H/V linearity, H/V key-stone, H/V pin-cushion, H/V blanking, Tilt, Skew, H/V bow, Store, Normalize, Enter, End
Main control function ..	Power ON/OFF, Input signal select, Picture mute, Bright, Contrast, Color 1), Sharpness 1), Tint 2), Volume 3), Sound mute 3), Source information, Static convergence, Normalize, Enter, End
External control	Power ON/OFF, Input signal select, Picture mute, Remote control data input
PC control	Acceptable
Supplied accessories ...	Full function remote control unit (RC-6051), User remote control unit (RC-6020), Remote cable 4m/13ft., Remote cable 16m/52ft., AC line cable, Operation manual, Set-Up manual*, Installation manual*
Environment	Temperature 0 to 40 degrees C Humidity 0 to 90% non-condensing Storage -10 to 50 degrees C
Sound emission	PG-6200/PG-9200 45dB PG-6200G/PG-9200G 70dB (A). Complies with ISO 3744 or ISO 7779

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| <ol style="list-style-type: none"> 1) This works only for VIDEO signals. 2) This works only for NTSC video signals. 3) This works only with the Switcher operation. |
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*Set-Up manual and Installation manual are not included with PG-9200G/PG-6200G.

Specifications are subject to change without notice.
The dimensions given for the projector do not include protruding parts.