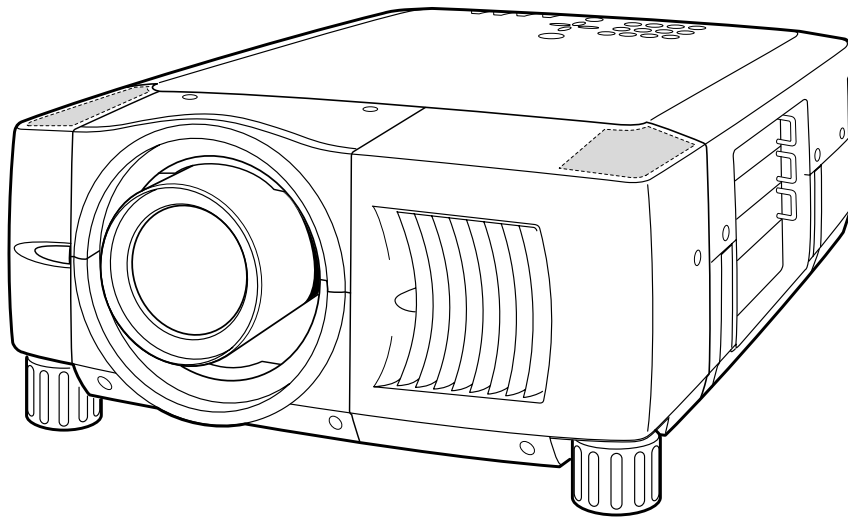


EIKI

MULTIMEDIA PROJECTOR

MODEL LC-W4



* Projection lens is optional.

OWNER'S INSTRUCTION MANUAL





TO THE OWNER

Before operating this projector, read this manual thoroughly and operate the projector properly.

This projector provides many convenient features and functions. Operating the projector properly enables you to manage those features and maintain it in better condition for a considerable time.

Improper operation may result in not only shortening the product life, but also malfunctions, fire hazard, or other accidents.

If your projector seems to operate improperly, read this manual again, check operations and cable connections and try the solutions in the "Troubleshooting" section in the end of this booklet. If the problem still persists, contact the dealer where you purchased the projector or the service center.

	CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN	
CAUTION : TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE EXCEPT LAMP REPLACEMENT. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.		
	THIS SYMBOL INDICATES THAT DANGEROUS VOLTAGE CONSTITUTING A RISK OF ELECTRIC SHOCK IS PRESENT WITHIN THIS UNIT.	
	THIS SYMBOL INDICATES THAT THERE ARE IMPORTANT OPERATING AND MAINTENANCE INSTRUCTIONS IN THE OWNER'S MANUAL WITH THIS UNIT.	

NOTE: This symbol mark and recycle system are applied only to EU countries and not applied to the countries in the other area of the world.



Your EIKI product is designed and manufactured with high quality materials and components which can be recycled and reused.

This symbol means that electrical and electronic equipment, at their end-of-life, should be disposed of separately from your household waste.

Please dispose of this equipment at your local community waste collection/recycling centre.

In the European Union there are separate collection systems for used electrical and electronic products.

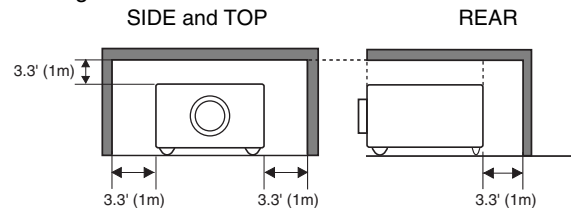
Please help us to conserve the environment we live in!



Safety Precaution

WARNING : TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

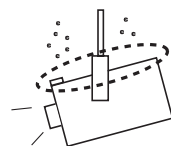
- This projector produces intense light from the projection lens. Do not stare directly into the lens as much as possible. Eye damage could result. Be especially careful that children do not stare directly into the beam.
- Install the projector in a proper position. If not, it may result in a fire hazard.
- Provide appropriate space on the top, sides and rear of the projector cabinet for allowing air circulation and cooling the projector. Minimum clearances must be maintained. If the projector is to be built into a compartment or similarly enclosed, the minimum distances must be maintained. Do not cover the ventilation slot on the projector. Heat build-up can reduce the service life of your projector, and can also be dangerous.



- If the projector is not to be used for an extended time, unplug the projector from the power outlet.



CAUTION ON HANGING FROM THE CEILING



When hanging the projector from the ceiling, clean the air intake vents, air filters, and top of the projector periodically with a vacuum cleaner. If you leave the projector without cleaning for a long time, the dust will block the operation of the cooling function, and it may cause a breakdown or a disaster.

DO NOT SET THE PROJECTOR IN GREASY, WET, OR SMOKY CONDITIONS SUCH AS IN A KITCHEN TO PREVENT A BREAKDOWN OR A DISASTER. IF THE PROJECTOR COMES IN CONTACT WITH OIL OR CHEMICALS, IT MAY BECOME DETERIORATED.

CAUTION

Not for use in a computer room as defined in the Standard for the Protection of Electronic Computer/Data Processing Equipment, ANSI/NFPA 75.

Ne peut être utilisé dans une salle d'ordinateurs telle que définie dans la norme ANSI/NFPA 75 Standard for Protection of Electronic Computer/Data Processing Equipment.

READ AND KEEP THIS OWNER'S MANUAL FOR LATER USE.

SAFETY INSTRUCTIONS

All the safety and operating instructions should be read before the product is operated.

Read all of the instructions given here and retain them for later use. Unplug this projector from AC power supply before cleaning. Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning.

Follow all warnings and instructions marked on the projector.

For added protection to the projector during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet. This will prevent damage due to lightning and power line surges.

Do not expose this unit to rain or use near water... for example, in a wet basement, near a swimming pool, etc...

Do not use attachments not recommended by the manufacturer as they may cause hazards.

Do not place this projector on an unstable cart, stand, or table. The projector may fall, causing serious injury to a child or adult, and serious damage to the projector. Use only with a cart or stand recommended by the manufacturer, or sold with the projector. Wall or shelf mounting should follow the manufacturer's instructions, and should use a mounting kit approved by the manufacturers.

An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.



Slots and openings in the back and bottom of the cabinet are provided for ventilation, to insure reliable operation of the equipment and to protect it from overheating.

The openings should never be covered with cloth or other materials, and the bottom opening should not be blocked by placing the projector on a bed, sofa, rug, or other similar surface. This projector should never be placed near or over a radiator or heat register.

This projector should not be placed in a built-in installation such as a book case unless proper ventilation is provided.

Never push objects of any kind into this projector through cabinet slots as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the projector.

This projector should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supplied, consult your authorized dealer or local power company.

Do not overload wall outlets and extension cords as this can result in fire or electric shock. Do not allow anything to rest on the power cord. Do not locate this projector where the cord may be damaged by persons walking on it.

Do not attempt to service this projector yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

Unplug this projector from wall outlet and refer servicing to qualified service personnel under the following conditions:

- When the power cord or plug is damaged or frayed.
- If liquid has been spilled into the projector.
- If the projector has been exposed to rain or water.
- If the projector does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the projector to normal operation.
- If the projector has been dropped or the cabinet has been damaged.
- When the projector exhibits a distinct change in performance-this indicates a need for service.

When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer that have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or injury to persons.

Upon completion of any service or repairs to this projector, ask the service technician to perform routine safety checks to determine that the projector is in safe operating condition.

Voor de klanten in Nederland



Bij dit product zijn batterijen geleverd. Wanneer deze leeg zijn, moet u ze niet weggooien maar inleveren als KCA.

COMPLIANCES

Federal Communication Commission Notice

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Do not make any changes or modifications to the equipment unless otherwise specified in the instructions. If such changes or modifications should be made, you could be required to stop operation of the equipment.

CAUTION!

This is a Class A equipment. This equipment can cause interference in residential areas; in this case, the operator can be asked to take adequate countermeasures.

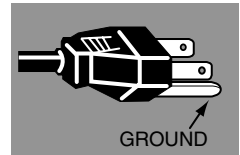
AC POWER CORD REQUIREMENT

The AC Power Cord supplied with this projector meets the requirement for use in the country you purchased it.

AC Power Cord for the United States and Canada :

AC Power Cord used in the United States and Canada is listed by the Underwriters Laboratories (UL) and certified by the Canadian Standard Association (CSA).

AC Power Cord has a grounding-type AC line plug. This is a safety feature to be sure that the plug will fit into the power outlet. Do not try to defeat this safety feature. Should you be unable to insert the plug into the outlet, contact your electrician.



THE SOCKET-OUTLET SHOULD BE INSTALLED NEAR THE EQUIPMENT AND EASILY ACCESSIBLE.

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FEATURES AND DESIGN

This Multimedia Projector is designed with most advanced technology for portability, durability, and ease of use. This projector utilizes built-in multimedia features, a palette of 16.77 million colors, and matrix liquid crystal display (LCD) technology.

◆ Compatibility

This projector widely accepts various video and computer input signals including;

- **Computers**
IBM-compatible or Macintosh computer up to 1600 x 1200 resolution.
- **6 Color Systems**
NTSC, PAL, SECAM, NTSC 4.43, PAL-M or PAL-N color system can be connected.
- **Component Video**
Component video signal, such as a DVD player output high definition TV signals including 480i, 480p, 575i, 575p, 720p, 1035i, 1080i-50 or 1080i-60, can be connected.
- **S-Video**
S-Video signal, such as a S-VHS VCR output signal, can be connected.

◆ High Resolution Image

This projector provides 1366 x 768 dots resolution for computer input and 800 horizontal TV lines. Resolution from a computer between XGA (1024 x 768) and UXGA (1600 x 1200) is compressed into 1024 x 768 dots. This projector can not display image of over 1600 x 1200 dots. When resolution of your computer is more than 1600 x 1200, reset a computer output for lower resolution.

◆ Multi-Scan System

This projector has Multi-Scan System to conform to almost all computer output signals quickly. There is no need for troublesome manual adjustment of frequency and other settings.

◆ One-Touch Auto PC Adjustment

Incoming computer video signals are recognized and best adjustment is automatically set by Auto PC Adjustment. No complicated setup is necessary and projection is always precise.

◆ Progressive Scan Function

This function converts interlace video signals into progressive scan signals and provide fine picture quality.

◆ Digital Zoom (for Computer)

Digital Zoom function adjusts image size to approx. 1/4 ~ 49 times of original image size, allowing you to focus on crucial information at a presentation.

◆ Keystone Correction

Positioning slant of a projector may result in distorted image being displayed in a trapezoid shape. Keystone Correction solves this problem by digitally altering projection to produce undistorted images.

◆ Motor-driven Lens Shift

Projection lens can be moved up and down with motor-driven lens shift function. This function makes it easy to provide projected image where you want. Zoom and focus can be also adjusted with motor-driven operation.

◆ Power Management

Power Management function is provided to reduce power consumption while a projector is not in use. This Power Management function operates to turn Projection Lamp off when a projector detects signal interruption and any button is not pressed. Projection Lamp is automatically turned on again when a projector detects signal or any operation button is pressed. This projector is shipped with this function ON.

◆ Digital Visual Interface

This projector is equipped with DVI 29-pin terminal for connecting DVI output from a computer.

◆ Multi Versatile Platform

This projector applies various input/output terminals and 3 terminal slots for expansion to tune to diversity of signals from computers and video equipment.

◆ Selectable Terminal Slots

3-built-in Terminal Slots enable you to arrange any combinations of input sources just by changing Terminal Boards. For Terminal Boards, contact sales dealer where you purchased a projector.

◆ Laser Pointer Function

Remote Control Unit supplied with this projector includes Laser Pointer function. This function helps you to make a smart presentation on a projected screen.

◆ Wireless Mouse

Remote Control Unit supplied with this projector has Wireless Mouse function for a connected computer. This function enables you to operate both projector and computer with Remote Control Unit only.

◆ Multilanguage Menu Display

Operation menu is displayed in; English, German, French, Italian, Spanish, Portuguese, Dutch, Swedish, Russian, Chinese, Korean or Japanese.

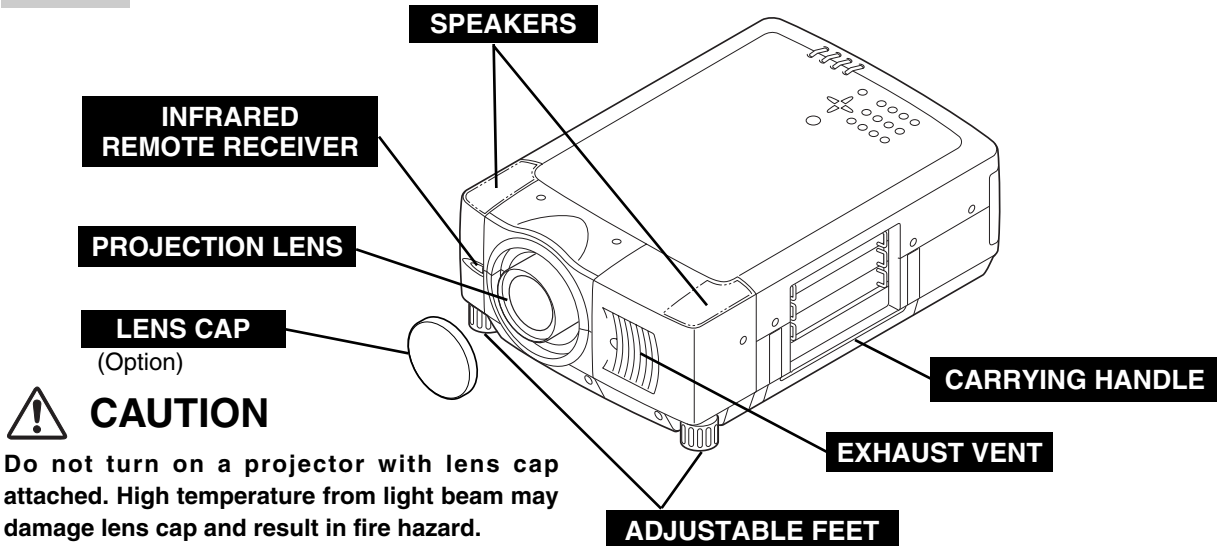
◆ Network board (Optional)

Network board is an optional product to control and set up a projector via the network cable by accessing to the connected projector using the web browser on your computer. It can be controlled and set up the projector remotely. Contact the sales dealer where you purchased this projector for optional parts.

PREPARATION

NAME OF EACH PART OF PROJECTOR

FRONT



CAUTION

Do not turn on a projector with lens cap attached. High temperature from light beam may damage lens cap and result in fire hazard.

BACK

EXHAUST VENT

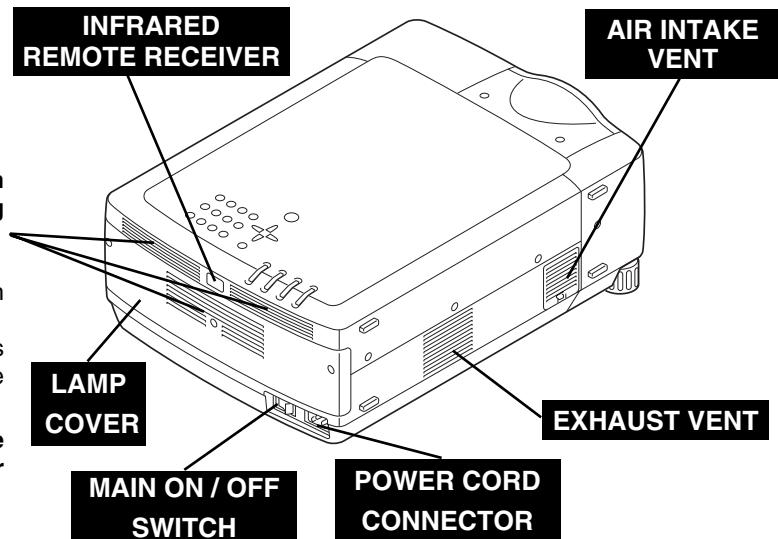


HOT AIR EXHAUSTED !

Air blown from exhaust vent is hot. When using or installing a projector, following precautions should be taken.

- Do not put a flammable object near this vent.
- Keep rear grills at least 3.3' (1m) away from any object, especially heat-sensitive object.
- Do not touch this area, especially screws and metallic parts. This area will become hot while a projector is used.

This projector detects internal temperature and automatically controls operating power of Cooling Fans.

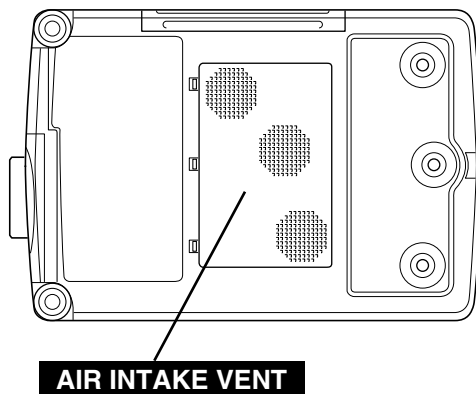


BOTTOM

AIR INTAKE VENTS

This projector is equipped with cooling fans for protection from overheating. Pay attention to following to ensure proper ventilation and avoid a possible risk of fire and malfunction.

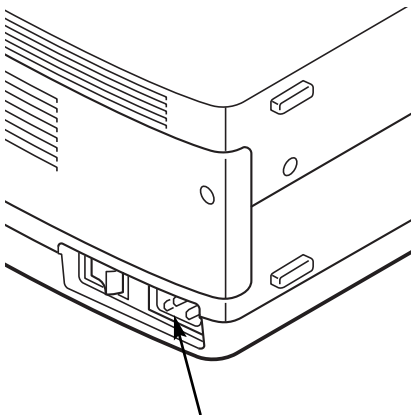
- Do not cover vent slots.
- Keep bottom clear of any objects. Obstructions may block cooling air.



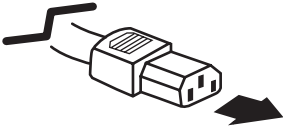
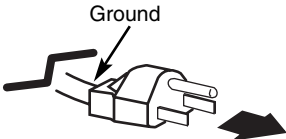
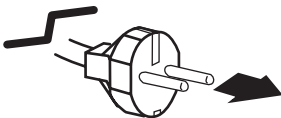
SETTING-UP PROJECTOR

CONNECTING AC POWER CORD

This projector uses nominal input voltages of 100-120 V or 200-240 V AC. This projector automatically selects correct input voltage. It is designed to work with single-phase power systems having a grounded neutral conductor. To reduce risk of electrical shock, do not plug into any other type of power system. Consult your authorized dealer or service station if you are not sure of type of power supply being in use. Connect a projector with a peripheral equipment before turning a projector on. (Refer to pages 12 ~ 15 for connection.)



Connect AC Power Cord (supplied) to a projector.
AC outlet must be near this equipment and must be easily accessible.

CAUTION AC Power Cord must meet requirement of country where you use a projector. Confirm AC plug type with chart below and proper AC power cord must be used. If supplied AC Power Cord does not match AC outlet, contact your sales dealer.		
Projector side	AC Outlet side	
 To POWER CORD CONNECTOR on a projector.	For U.S.A. and Canada  To AC Outlet. (120 V AC)	For Continental Europe  To AC Outlet. (200 - 240 V AC)

LENS INSTALLATION

Before setting up a projector, install Projection Lens on Projector.

1. Before installation, check where a projector is used and prepare suitable lens. For specifications of a Projection Lens, refer to manual separately attached or contact sales dealer where you purchased a projector.
2. For installation, refer to installation manual supplied to a Projector.



When moving or setting up a projector, be sure to replace Lens Cap to protect surface. And be careful not to hold or subject lens to strong forces. It may damage lens, cabinet, or mechanical parts.

POSITIONING PROJECTOR

This projector is designed to project on a flat projection surface.

ROOM LIGHT

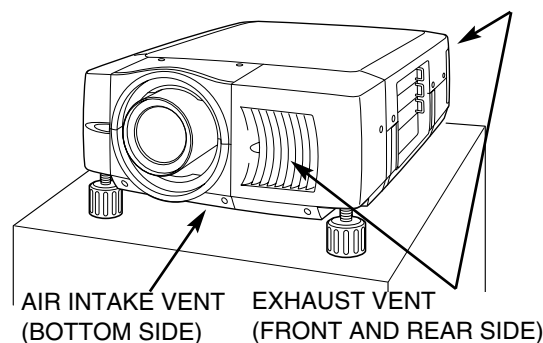
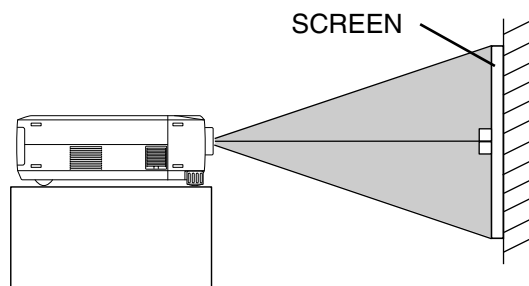
Brightness in a room has a great influence on picture quality. It is recommended to limit ambient lighting in order to provide best image.

VENTILATION

This projector is equipped with cooling fan to protect it from overheating. Pay attention to following to ensure proper ventilation and avoid a possible risk of fire and malfunction.



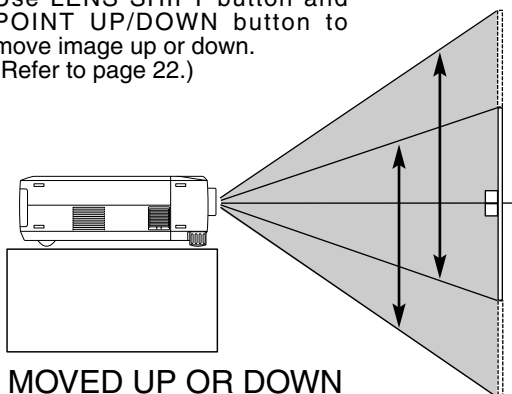
- Do not cover vents with papers or other materials.
- Keep rear grill at least 3 feet (1 m) away from any object.
- Make sure that there are no objects under a projector. An object under a projector may prevent a projector from taking cooling air through bottom vent.



LENS SHIFT ADJUSTMENT

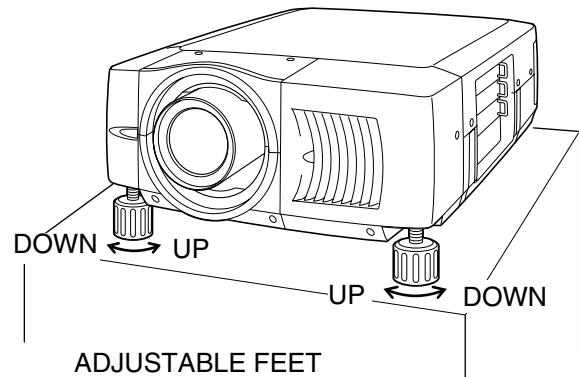
Projection lens can be moved up and down with motor-driven lens shift function. This function makes it easy to provide projected image where you want.

Use LENS SHIFT button and POINT UP/DOWN button to move image up or down. (Refer to page 22.)



PICTURE LEVEL AND TILT ADJUSTMENT

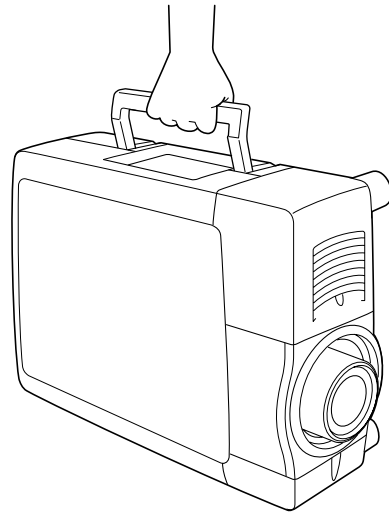
Picture tilt and projection angle can be adjusted by rotating ADJUSTABLE FEET. Projection angle can be adjusted up to 6.9 degrees by rotating Adjustable Feet.



MOVING PROJECTOR



Use carry handle when moving a projector.
Replace lens cap and retract adjustable feet.



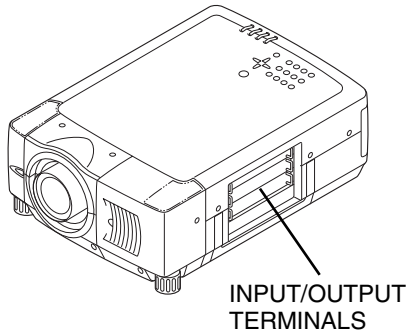
CAUTION IN CARRYING OR TRANSPORTING A PROJECTOR

- Do not drop or bump a projector, otherwise damages or malfunctions may result.
- When carrying a projector, use a suitable carrying case.
- Do not transport a projector by using a courier or transport service in an unsuitable transport case. This may cause damage to a projector. To transport a projector through a courier or transport service, consult your dealer and best case should be applied.

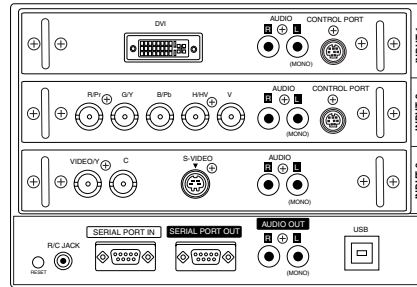
CONNECTING PROJECTOR

TERMINALS OF PROJECTOR

This projector applies various input/output terminals and 3 terminal slots for expansion to tune to diversity of signals from computers and video equipment. 3-built-in Terminal Slots enable you to arrange desired combinations of input sources just by changing Terminal Boards. For Terminal Boards, contact sales dealer where you purchased a projector.



3 TERMINAL SLOTS (Factory set)



DVI Terminal

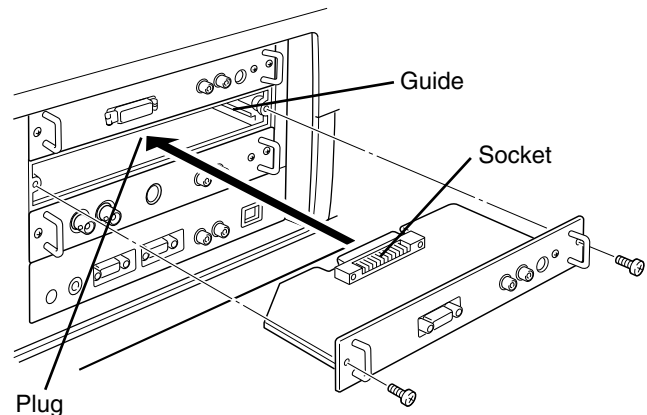
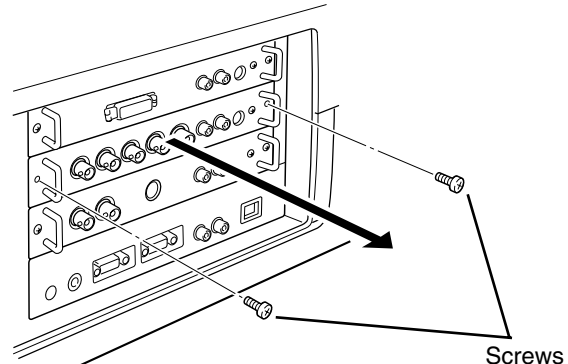
5 BNC Terminal

AV Terminal

REPLACEMENT OF TERMINAL

NOTE; When replacement of terminal board, MAIN ON/OFF switch should be OFF position.

- 1 Remove 2 Screws on terminal.
- 2 Pull out terminal by holding handle.
- 3 Replace terminal. Insert terminal along Guide to fit Plug into Socket.
- 4 Tighten screws to secure terminal.



NOTES ON ORDERING OR USING OPTIONAL INTERFACE BOARD

When ordering or using Optional Interface Board (Terminal Board), contact your sales dealer. When contacting the sales dealer, tell the Optional Control Number (Op.cont.No.) in the menu that is located under Language Select Menu. (See page 39.)

Figure shows HDB 15-PIN terminal (Optional parts).

INPUT/OUTPUT TERMINALS AND JACKS

INPUT 2

5 BNC INPUT JACKS

Connect component video output (Cr, Y, Cb or Pr, Y, Pb) from video equipment to R/Pr, G/Y and B/Pb jacks or connect computer output [5 BNC Type (Red, Green, Blue, Horiz. Sync and Vert. Sync.)] from computer to R/Pr, G/Y, B/Pb, H/HV and V jacks. (Refer to P14, 15)

INPUT 1

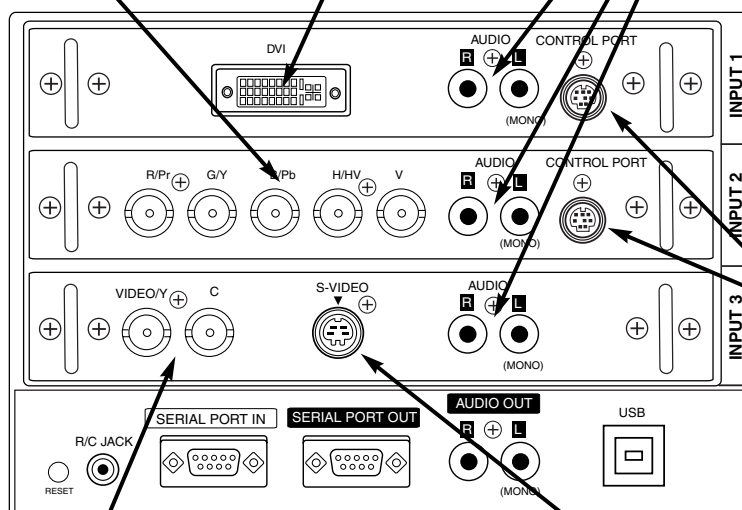
DVI INPUT TERMINAL

Connect computer output (Digital/Analog DVI-I type) to this terminal. (Refer to P14.)

INPUT 1, 2, 3

AUDIO INPUT JACKS

Connect an audio output from computer or video equipment to these jacks. (Refer to P14, 15.)



INPUT 1, 2

CONTROL PORT CONNECTORS

When controlling computer with Remote Control of this projector, connect mouse port of your personal computer to these connectors. (Refer to P14.)

INPUT 3

AV INPUT (VIDEO/Y, C) JACKS

Connect composite video output from video equipment to VIDEO/Y jack or connect Separate Y/C video outputs to VIDEO/Y and C jacks. (Refer to P15.)

INPUT 3

S-VIDEO INPUT JACK

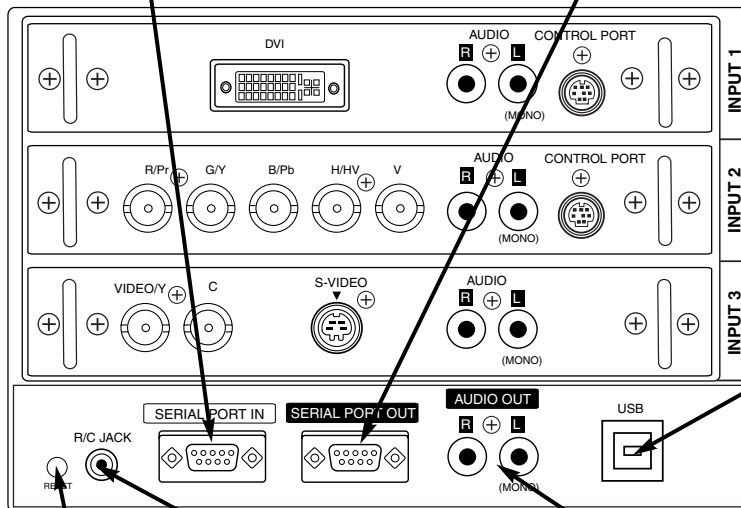
Connect S-VIDEO output from video equipment to this jack. (Refer to P15.)

SERIAL PORT IN TERMINAL

If you control a projector by computer, you must connect a cable (not provided) from your computer to this terminal.

SERIAL PORT OUT TERMINAL

This terminal outputs signal from SERIAL PORT IN. More than two projectors can be controlled with one computer by connecting SERIAL PORT IN. of another projector to this terminal.



USB PORT (Series B)

This port is used to control a projector with computer. It is also used to control computer with Remote Control of this projector. (Refer to P41, 43.) Connect USB port of computer to this port.

R/C JACK

When using Wired / Wireless Remote Control Unit as Wired Remote Control, Connect Wired Remote Control Unit to this jack with Remote Control Cable (supplied). (Refer to page 17.)

AUDIO OUTPUT JACKS

Connect an external audio amplifier to these jacks. (Refer to P14, 15.)

RESET BUTTON

This projector uses a micro processor to control a unit. Occasionally, this micro processor may malfunction and need to be reset. This can be done by pressing RESET button with a pen, which will shut down and restart unit. Do not use RESET function excessively.

CONNECTING TO COMPUTER

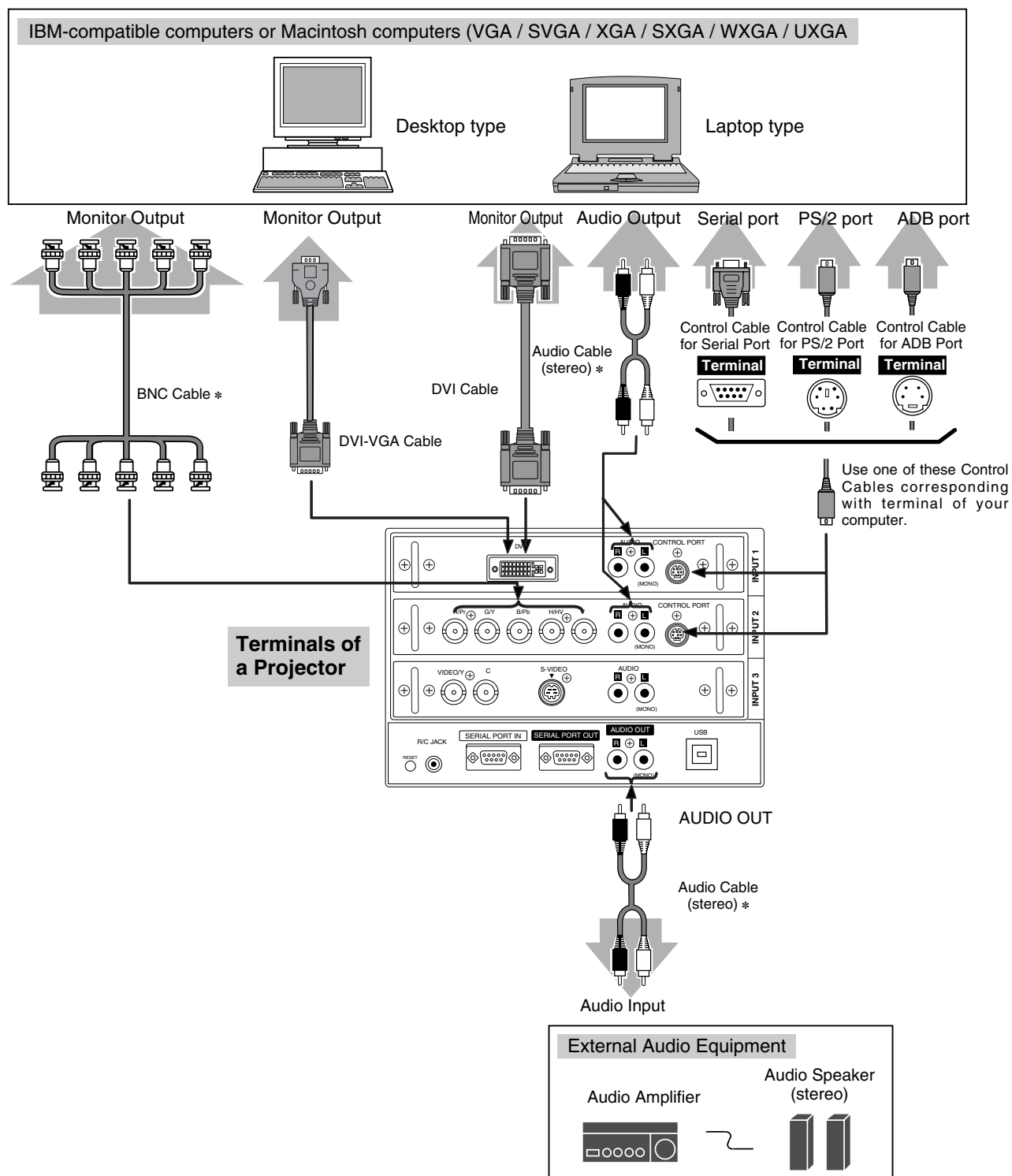
Cables used for connection (* = Cables are not supplied with this projector.)

- DVI-VGA Cable
- Control Cable for PS/2 port, Serial port, or ADB port
- DVI Cable
- BNC Cable (BNC x 5) *
- Audio Cables (RCA x 2) *



NOTE :

When connecting cable, power cords of both a projector and external equipment should be disconnected from AC outlet. Turn a projector and peripheral equipment on before computer is switched on.



CONNECTING TO VIDEO EQUIPMENT

Cables used for connection

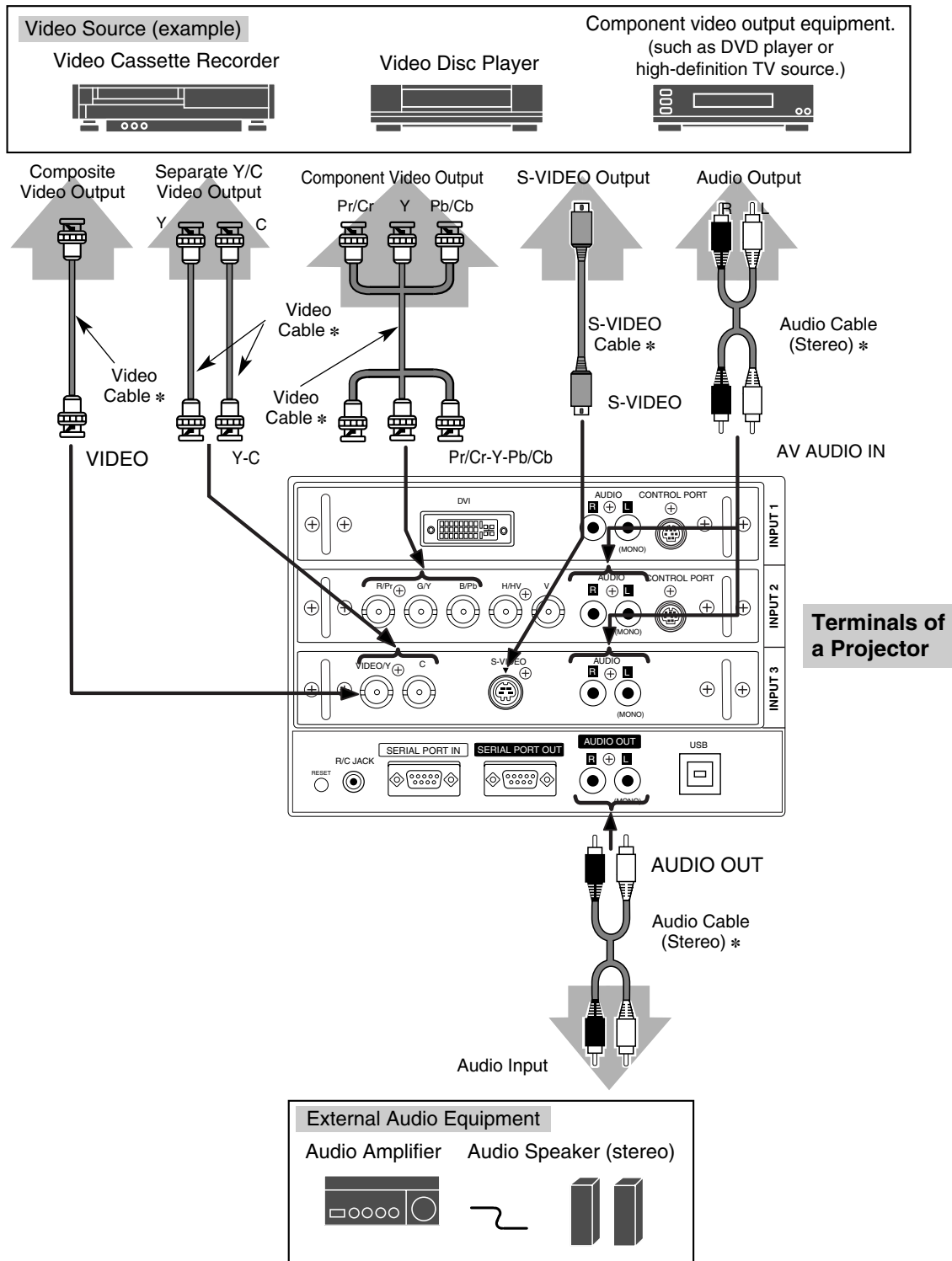
- Video Cable (BNC x 1, BNC x 2 or BNC x 3) *
- S-VIDEO Cable *
- Audio Cable (RCA x 2) *

(* = Cables are not supplied with this projector.)



NOTE :

When connecting cable, power cords of both a projector and external equipment should be disconnected from AC outlet. Turn a projector and peripheral equipment on before computer is switched on.

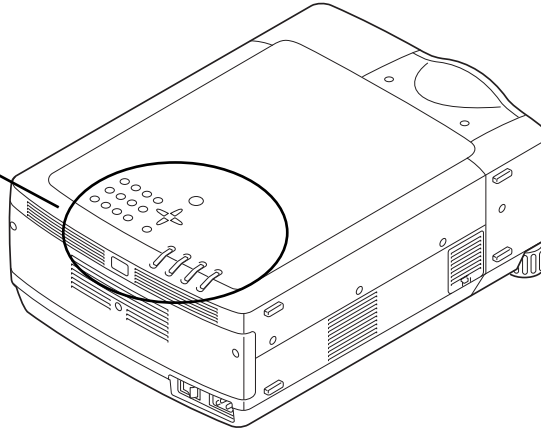


BEFORE OPERATION

TOP CONTROLS AND INDICATORS

This projector has CONTROL BUTTONS (TOP CONTROLS) and INDICATORS on its top.

TOP CONTROL AND INDICATORS



FOCUS BUTTONS

Used to adjust focus. (P22)

VOLUME BUTTONS

Used to adjust volume. (P24)

INPUT BUTTONS

Used to select input source. (P25)

POWER ON-OFF BUTTON

Used to turn a projector on or off. (P21)

ZOOM BUTTONS

Used to adjust zoom. (P22)

AUTO PC ADJ. BUTTON

Use to operate AUTO PC Adjustment function. (P28)

IMAGE BUTTON

Used to select image level. (P31, 36)

LENS SHIFT BUTTON

Used to select LENS SHIFT function. (P22)

MENU BUTTON

Used to open or close MENU operation. (P19, 20)

SELECT BUTTON

Used to execute item selected. It is also used to expand / compress image in DIGITAL ZOOM mode. (P33)

POINT BUTTONS

Used to select an item or adjust value in ON-SCREEN MENU. They are also used to pan image in DIGITAL ZOOM +/- mode. (P33)

LAMP REPLACE INDICATOR

Turns to yellow when life of a projection lamp draws to an end. (P45-47, 50)

WARNING TEMP. INDICATOR

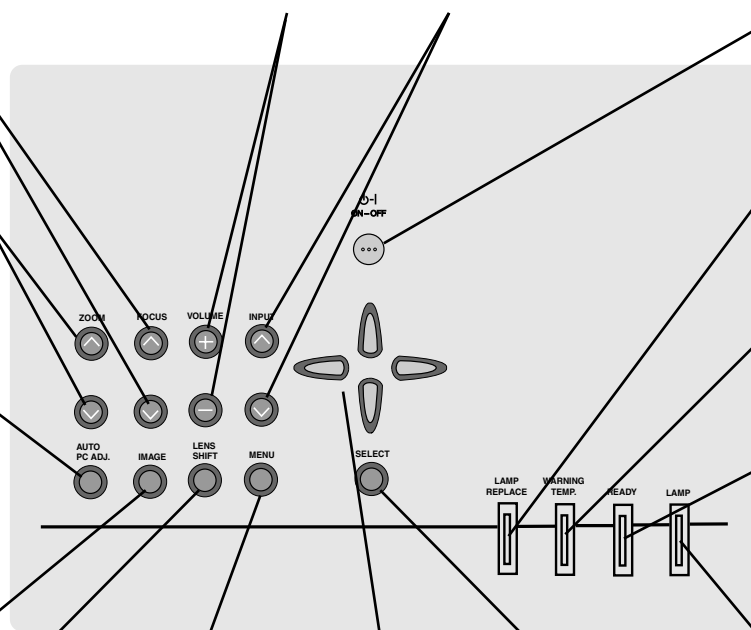
Flashes red when internal projector temperature is too high. (P43, 50)

READY INDICATOR

Lights green when a projector is ready to be turned on. And it flashes green in Power Management mode. (P40, 50)

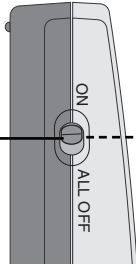
LAMP INDICATOR

Becomes dim when a projector is turned on. And bright when a projector is in stand-by mode. (P50)



OPERATION OF REMOTE CONTROL

Left Side



ALL-OFF SWITCH

When using Remote Control Unit, turn this switch to "ON." And turn it to "ALL OFF" when it is not used.

INSIDE THE BATTERY COMPARTMENT BOX

This remote control provide the DIP switches into the battery compartment box.

Slide the SW4 (LASER ON/OFF switch) to "OFF" position. The laser pointer function is not operated. Set switches 1-3 as shown in table below depending on Code No. that you want to select remote control code. (Refer to P41.)

DIP SWITCH SETTING			
SW4 LASER ON/OFF			
SW1	SW2	SW3	Code No.
ON	ON	ON	Code 1
ON	ON	OFF	Code 2
ON	OFF	ON	Code 3
ON	OFF	OFF	Code 4
OFF	ON	ON	Code 5
OFF	ON	OFF	Code 6
OFF	OFF	ON	Code 7
OFF	OFF	OFF	Code 8

LASER POINTER (Drag ON) INDICATOR

Lights red while laser beam is emitted from Laser Light Window. Lights green when drag ON position. (P43)

MUTE BUTTON

Used to mute sound. (P24)

DRAG ON/OFF BUTTON

Used to select drag ON/OFF position. (P43)

LEFT CLICK BUTTON

Used as a PC mouse in Wireless Mouse Operation. Press this button and the mouse pointer button to drag a selected screen object. (P43)

LASER BUTTON

Used to operate Laser Pointer Function. Laser beam is emitted while pressing this button within 1 minute. When using this Laser Pointer for more than 1 minute, release LASER button and press it again.

FOCUS BUTTON

Used to adjust focus. (P22)



POWER ON-OFF BUTTON

Used to turn projector on or off. (P21)

AUTO PC ADJ. BUTTON

Use to operate AUTO PC Adjustment function. (P28)

IMAGE BUTTON

Used to select image level. (P31, 36)

KEystone BUTTON

Used to correct keystone distortion. (P22, 39)

MOUSE POINTER

Used as a PC mouse in Wireless Mouse Operation. (P43)

RIGHT CLICK BUTTON

Used as a PC mouse in Wireless Mouse Operation. (P43)

LENS SHIFT BUTTON

Used to select LENS SHIFT function. (P22)

WIRED REMOTE JACK

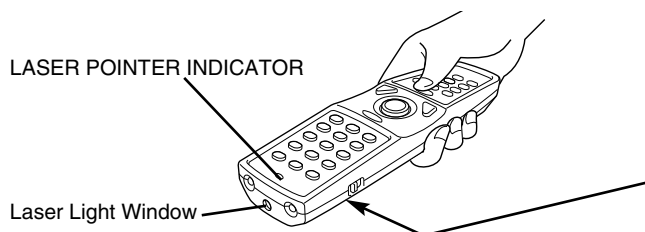
When using as Wired Remote Control, connect Remote Control Cable (supplied) to this jack. Battery installation is required when using as Wired Remote Control.

LASER POINTER FUNCTION

This Remote Control Unit emits a laser beam as laser pointer function from Laser Light Window. When LASER button is pressed, laser light goes on. And when LASER button is being pressed for more than 1 minute or LASER button is released, light goes off. LASER POINTER INDICATOR lights RED and Laser is emitted with RED light to indicate laser beam is being emitted.

Laser emitted is a class II laser; therefore, do not look into Laser Light Window or shine laser beam on yourself or other people. Three marks below are caution labels for laser beam.

CAUTION : Use of controls, adjustments or performance of procedures other than those specified herein may result hazardous radiation exposure.



These caution labels are put on remote control.

CAUTION

LASER RADIATION-
DO NOT STARE INTO BEAM

MAX OUTPUT : 1mW
WAVE LENGTH : 650±20nm
CLASS II LASER PRODUCT

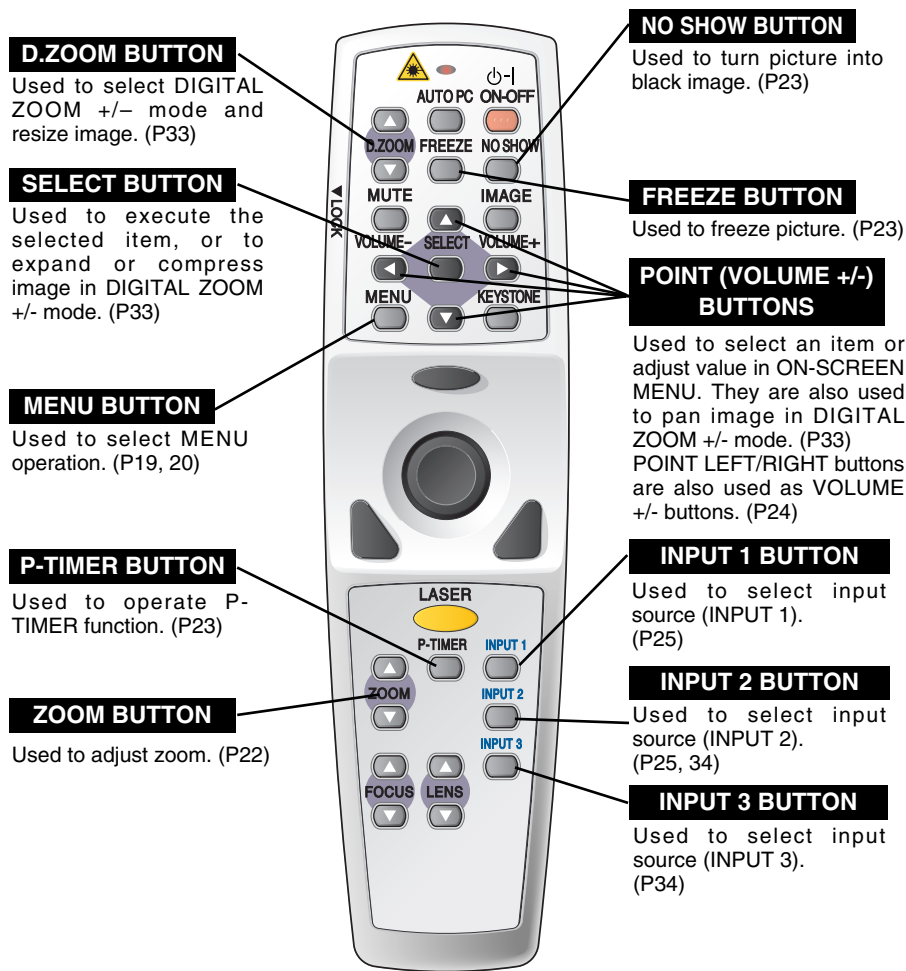
This product is complied with
21 CFR part 1040.10

LASER RADIATION
DO NOT STARE INTO BEAM
CLASS 2 LASER PRODUCT
LASER-STRAHLUNG
NICHT IN DEN STRAHL BLICKEN
LASER KLASSE 2
レーザ放射 クラス2 レーザ製品
ビームをのぞき込まないこと
IEC60825-1, Am.1 1997, Am.2 2001
MAX OUTPUT (最大出力) : 1mW
WAVE LENGTH (波長) : 650±20nm



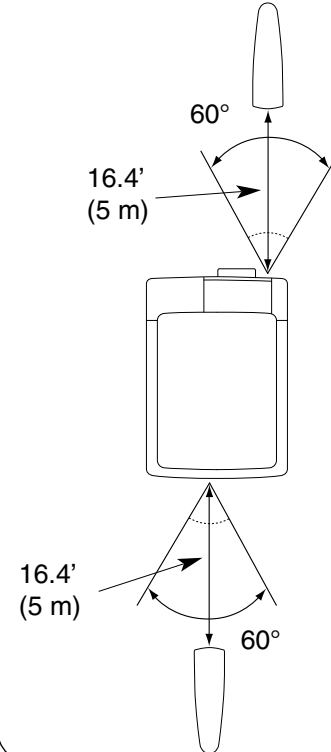
AVOID EXPOSURE-LASER
RADIATION IS EMITTED
FROM THIS APERTURE
レーザー光の出口
ビームをのぞき込まないこと

BEFORE OPERATION



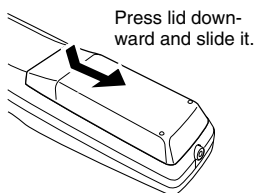
Operating Range

Point Remote Control Unit toward projector (Infrared Receiver Window) whenever pressing any button. Maximum operating range for Remote Control Unit is about 16.4' (5m) and 60° in front and rear of a projector.

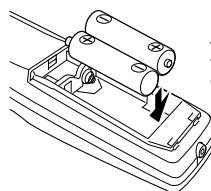


REMOTE CONTROL BATTERIES INSTALLATION

1 Remove battery compartment lid.

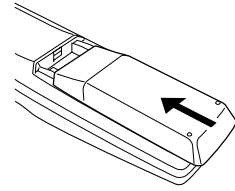


2 Slide batteries into compartment.



Two AA size batteries
For correct polarity (+ and -), be sure battery terminals are in contact with pins in compartment.

3 Replace compartment lid.



To insure safe operation, please observe following precautions :

- Use (2) AA or R06 type alkaline batteries.
- Replace two batteries at same time.
- Do not use a new battery with an used battery.
- Avoid contact with water or liquid.
- Do not expose Remote Control Unit to moisture, or heat.
- Do not drop Remote Control Unit.
- If a battery has leaked on Remote Control Unit, carefully wipe case clean and install new batteries.
- Danger of explosion if battery is incorrectly replaced.
- Dispose of used batteries according to batteries manufacturers instructions and local rules.

OPERATING ON-SCREEN MENU

HOW TO OPERATE ON-SCREEN MENU

You can control and adjust this projector through ON-SCREEN MENU. Refer to following pages to operate each adjustment on ON-SCREEN MENU.

1 DISPLAY MENU

Press MENU button to display ON-SCREEN MENU.

2 MOVING POINTER

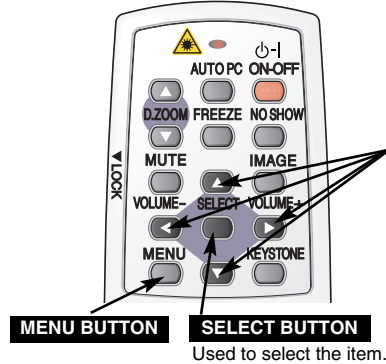
Move pointer (* see below) or adjust value of item by pressing POINT button(s) on Top Control or on Remote Control Unit.

* Pointer is a icon on ON-SCREEN MENU to select item. See figures on section "FLOW OF ON-SCREEN MENU OPERATION" below.

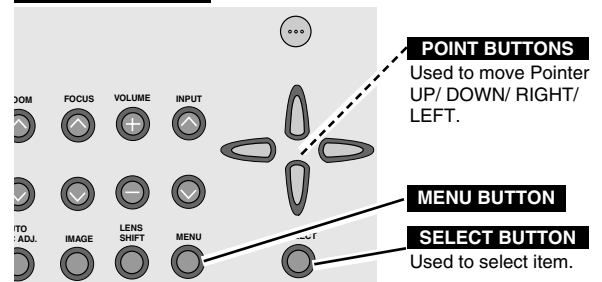
3 SELECT ITEM

Select item or set selected function by pressing SELECT button.

REMOTE CONTROL UNIT



TOP CONTROL



FLOW OF ON-SCREEN MENU OPERATION

Display ON-SCREEN MENU

1 Press MENU button to display ON-SCREEN MENU (MENU BAR). A red frame is POINTER.

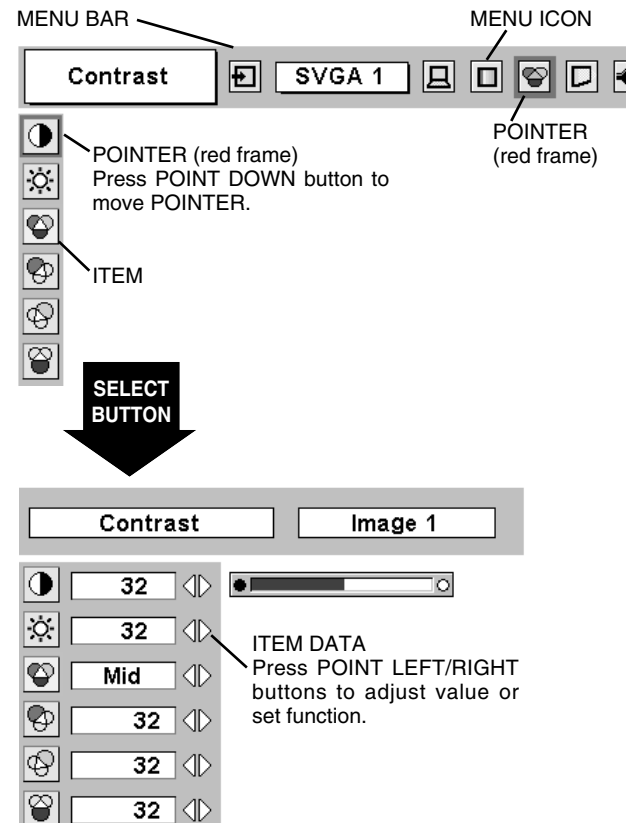
Select Menu to be adjusted

2 Move POINTER (red frame) to MENU ICON that you want to select by pressing POINT RIGHT / LEFT buttons.

Control or adjust item through ON-SCREEN MENU

3 Press POINT DOWN button and move POINTER (red frame or red arrow) to ITEM that you want to adjust, and then press SELECT button to show ITEM DATA.

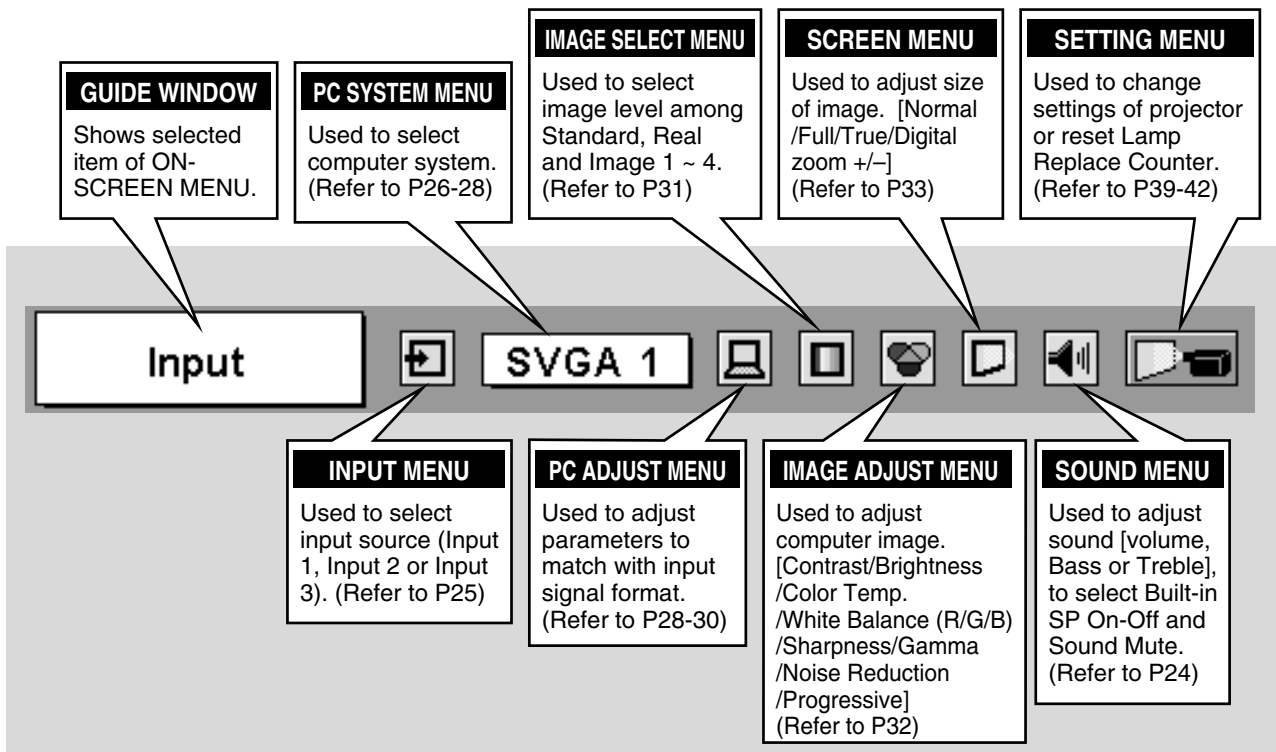
4 Adjust ITEM DATA by pressing POINT RIGHT / LEFT buttons. Refer to following pages for details of respective adjustments.



MENU BAR

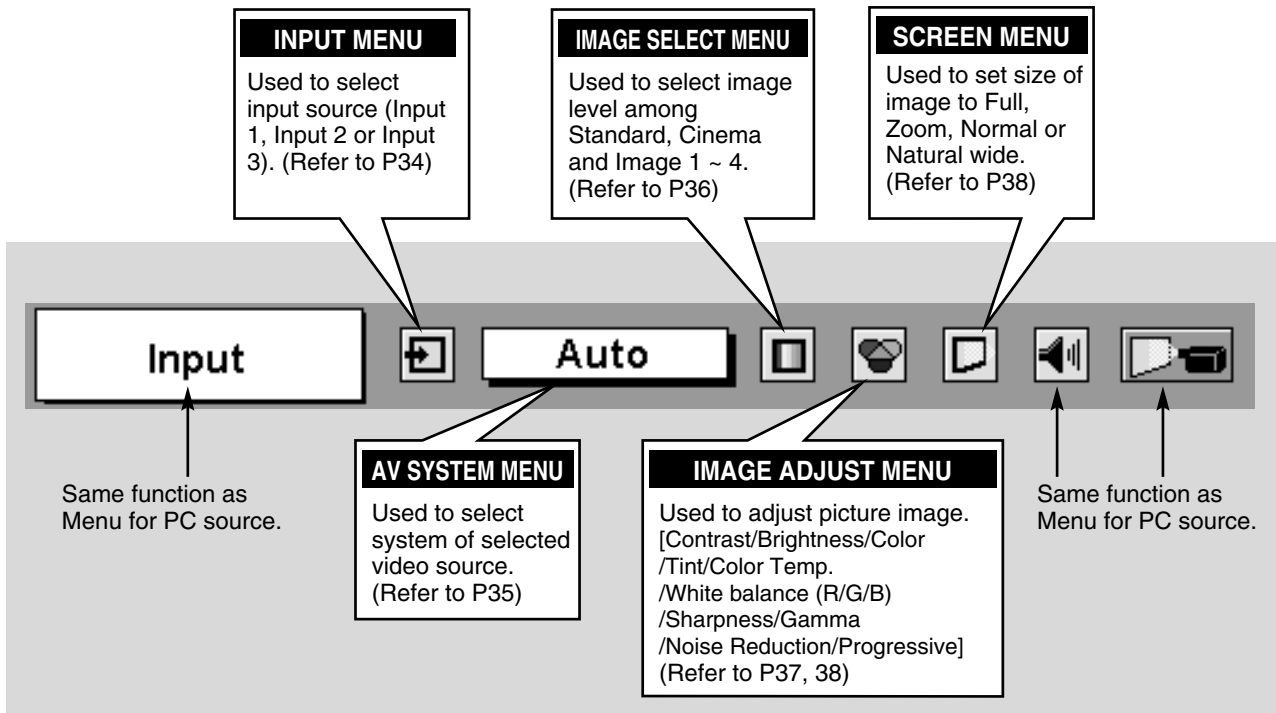
FOR PC SOURCE

Press MENU BUTTON while connecting to PC input source.



FOR VIDEO SOURCE

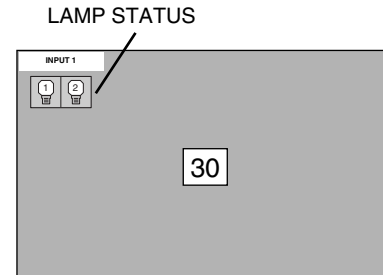
Press MENU BUTTON while connecting to VIDEO input source.



TURNING ON / OFF PROJECTOR

TURNING ON PROJECTOR

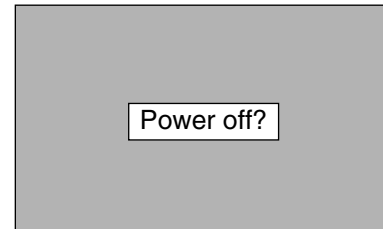
- 1 Complete peripheral connections (with Computer, VCR, etc.) before turning on projector. (Refer to "CONNECTING TO PROJECTOR" on Pages 12~15 for connecting that equipment.)
- 2 Connect a projector's AC Power Cord into a wall outlet and turn MAIN ON / OFF SWITCH to ON. LAMP indicator lights RED, and READY indicator lights GREEN.
- 3 Press POWER ON-OFF button on Top Control or on Remote Control Unit to ON. LAMP indicator dims, and Cooling Fans start to operate. Preparation Display appears on a screen and count-down starts. Signal from source appears after 30 seconds. Current Input position and Lamp status are also displayed on screen for 5 seconds. (Refer to "LAMP MANAGEMENT" on page 45.)



Preparation Display disappears after 30 seconds.

TURNING OFF PROJECTOR

- 1 Press POWER ON-OFF button on Top Control or on Remote Control Unit, and a message "Power off?" appears on a screen.
- 2 Press POWER ON-OFF button again to turn off projector. LAMP indicator lights bright and READY indicator turns off. After approximate 90 seconds, READY indicator will light green again and projector may be turned on by pressing POWER ON-OFF button.
- 3 Cooling fans will operate for approximate 2 minutes after projector is turned off. To power down completely, turn MAIN ON/OFF SWITCH to OFF and disconnect AC Power Cord.



Message disappears after 4 seconds.



TO MAINTAIN LIFE OF LAMP, ONCE YOU TURN PROJECTOR ON, WAIT AT LEAST 5 MINUTES BEFORE TURNING IT OFF.

When Power Management function mode is Ready or Shut down, projector detects signal interruption and turns off Projection Lamp automatically. Refer to "Power Management" on pages 39 and 40.

When WARNING TEMP. indicator flashes red, projector is automatically turned off. Wait at least 5 minutes before turning on projector again.

When both WARNING TEMP. and READY indicators to flash, follow procedures below:

1. Turn MAIN ON / OFF SWITCH to OFF.
2. Turn a projector on again.

When WARNING TEMP. indicator continues to flash, follow procedures below:

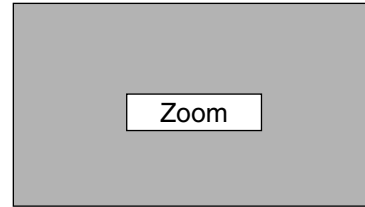
1. Turn MAIN ON / OFF SWITCH to OFF and disconnect AC Power Cord from an AC outlet.
2. Check Air Filters for dust accumulation.
3. Clean Air Filters. (See "AIR FILTER CARE AND CLEANING" section on page 44.)
4. Turn a projector on again.

If WARNING TEMP. indicator should still continue to flash, contact sales dealer where you purchased this projector or service center.

ADJUSTING SCREEN

ZOOM ADJUSTMENT

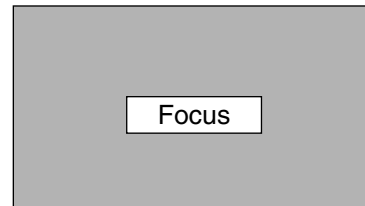
- 1 Press ZOOM ▲/▼ button on Top Control or on Remote Control Unit. Message "Zoom" is displayed.
- 2 Press ZOOM ▲ button to make image larger, and press ZOOM ▼ button to make image smaller.



Message disappears after 4 seconds.

FOCUS ADJUSTMENT

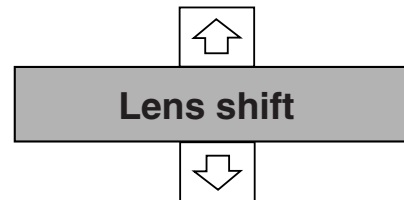
- 1 Press FOCUS ▲/▼ button on Top Control or on Remote Control Unit. Message "Focus" is displayed.
- 2 Adjust focus of image by pressing FOCUS ▲/▼ button(s).



Message disappears after 4 seconds.

LENS SHIFT ADJUSTMENT

- 1 Press LENS SHIFT button on Top Control or on Remote Control Unit. Message "Lens shift" is displayed.
- 2 Press POINT UP button to move image up, press POINT DOWN button to move image down.



Message disappears after 4 seconds.

KEYSTONE ADJUSTMENT

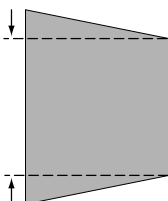
If a projected picture has keystone distortion, correct image with KEYSTONE adjustment.

- 1 Press KEYSTONE button on Remote Control Unit or select Keystone on SETTING menu. (Refer to page 39.) Keystone dialog box appears.
- 2 Correct keystone distortion by pressing POINT LEFT/RIGHT button(s). Press POINT LEFT button to reduce left part of image, and press POINT RIGHT button to reduce right part.

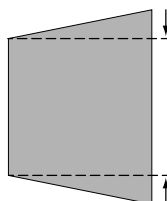


Message disappears after 4 seconds.

Reduce the left part with Point Left button.



Reduce the right part with Point Right button.



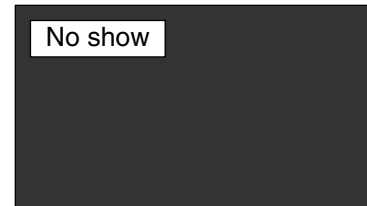
- If you press the KEYSTONE button on Remote Control Unit once more while the keystone dialog box is being displayed, the keystone adjustment will be canceled.
- Keystone function can not be operated when "NATURAL WIDE" is selected on PICTURE SCREEN ADJUSTMENT (P38).
- If you select "NATURAL WIDE" after adjusting the keystone, the adjustment will be canceled.

PICTURE FREEZE FUNCTION

Press FREEZE button on Remote Control Unit to freeze picture on-screen. To cancel FREEZE function, press FREEZE button again or press any other button except POINT / SELECT / RIGHT CLICK / LASER button.

NO SHOW FUNCTION

Press NO SHOW button on Remote Control Unit to black out a image. To restore to normal, press NO SHOW button again or press any other button except POINT / SELECT / RIGHT CLICK / LASER button.



Message disappears after 4 seconds.

P-TIMER FUNCTION

Press P-TIMER button on Remote Control unit. Timer display "00 : 00" appears on a screen and timer starts to count time (00 : 00 ~ 59 : 59). To stop P-TIMER display, press P-TIMER button. And then, press P-TIMER button again to cancel P-TIMER function.



SOUND ADJUSTMENT

DIRECT OPERATION

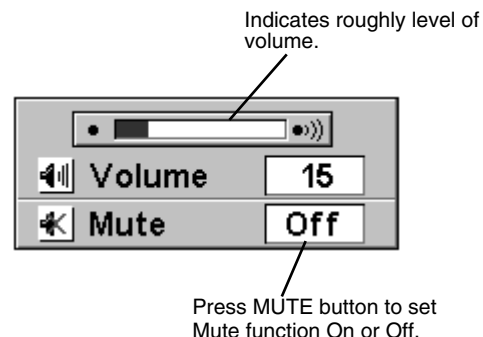
Volume

Press VOLUME (+/-) button(s) on Top Control or on Remote Control Unit to adjust volume. Volume dialog box appears on screen for a few seconds.

(+) button to increase volume, and (-) button for decreasing.

Mute

Press MUTE button on Remote Control Unit to cut off sound. To restore sound to its previous level, press MUTE button again or press Volume (+/-) button(s).



Display disappears after 4 seconds.

MENU OPERATION

1 Press MENU button and ON-SCREEN MENU will appear. Press POINT LEFT/RIGHT buttons to move a red frame pointer to SOUND Menu icon.

2 Press POINT DOWN button to move a red frame pointer to item that you want to select, and then press SELECT button.



Volume

To increase volume, press POINT RIGHT button, and press POINT LEFT button for decreasing.



Treble

To adjust Treble sound, press POINT RIGHT button or POINT LEFT button.



Bass

To adjust Bass sound, press POINT RIGHT button or POINT LEFT button.



Built-in SP.

Press POINT LEFT/RIGHT button(s) to switch built-in speaker on and off.



Mute

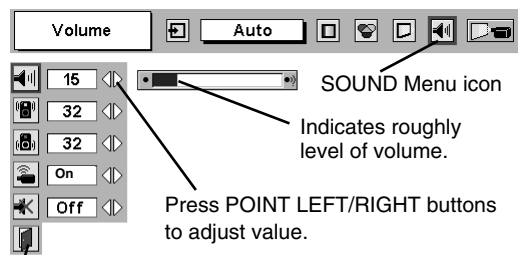
Press POINT LEFT/RIGHT button(s) to cut off sound. Dialog box display is changed to "On" and sound is cut off. To restore sound to its previous level, press POINT LEFT/RIGHT button(s) again.



Quit

Closes SOUND MENU.

SOUND MENU



COMPUTER INPUT

SELECTING INPUT SOURCE

DIRECT OPERATION

Select INPUT source by pressing INPUT 1, INPUT 2 and INPUT 3 buttons on Remote Control Unit.

Select INPUT source by pressing INPUT ▲/▼ button on Top Control.

MENU OPERATION

- 1 Press MENU button and ON-SCREEN MENU will appear. Press POINT LEFT/RIGHT buttons to select Input and press SELECT button. Another dialog box INPUT SELECT Menu will appear.
- 2 Press POINT DOWN button to move arrow to INPUT source that you want to select, and then press SELECT button.

INPUT 1 button

INPUT 1

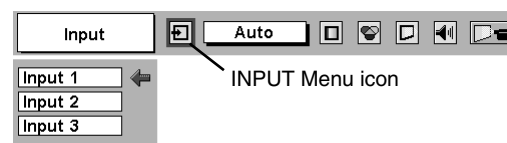
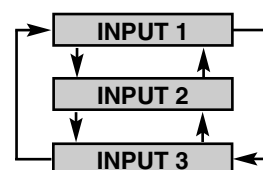
INPUT 2 button

INPUT 2

INPUT 3 button

INPUT 3

INPUT ▲/▼ buttons



SELECTING COMPUTER SYSTEM

WHEN SELECT INPUT 1 (DVI INPUT TERMINAL)

- 1 Press MENU button and ON-SCREEN MENU will appear. Press POINT LEFT/RIGHT button to move a red frame pointer to INPUT Menu icon.
- 2 Press POINT DOWN button to move a red arrow pointer to Input 1 and then press SELECT button. Source Select Menu will appear.
- 3 Move a pointer to either Digital or Analog and then press SELECT button.

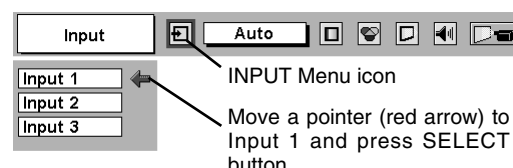
Digital

When digital signal is connected on DVI terminal, select Digital.

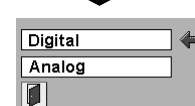
Analog

When analog signal is connected on DVI terminal, select Analog.

INPUT MENU



Source Select Menu

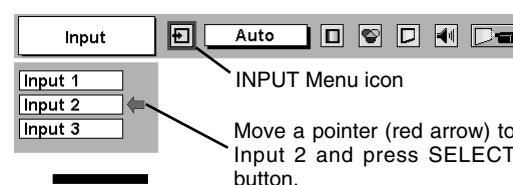


WHEN SELECT INPUT 2 (5 BNC INPUT JACKS)

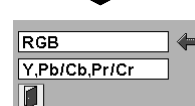
When connect a computer output [5 BNC Type (Red, Green, Blue, Horiz. Sync and Vert. Sync.)) from a computer to R/Pr, G/Y, B/Pb, H/HV and V jacks.

- 1 Press MENU button and ON-SCREEN MENU will appear. Press POINT LEFT/RIGHT button to move a red frame pointer to INPUT Menu icon.
- 2 Press POINT DOWN button to move a red arrow pointer to Input 2 and then press SELECT button. Source Select Menu will appear.
- 3 Move a pointer to "RGB", and then press SELECT button.

INPUT MENU



Source Select Menu



AUTOMATIC MULTI-SCAN SYSTEM

This projector automatically tunes to most different types of computers based on VGA, SVGA, XGA, SXGA, WXGA or UXGA (refer to “COMPATIBLE COMPUTER SPECIFICATIONS” on page 27). When selecting Computer, this projector automatically tunes to incoming signal and projects proper image without any special setting. (Some computers need setting manually.)

Note : Projector may display one of following messages.

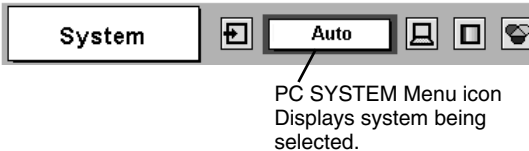
Auto When projector cannot recognize connected signal as PC system provided in this projector, Auto PC Adjustment function operates to adjust projector and message “Auto” is displayed on SYSTEM Menu icon. (Refer to P28.) When image is not provided properly, manual adjustment is required. (Refer to P29 and 30.)

— There is no signal input from computer. Make sure connection of computer and a projector is set correctly. (Refer to TROUBLESHOOTING on page 48.)

D-VGA, D-SVGA, D-XGA, D-SXGA 1, D-SXGA 2, D-SXGA3 or D-UXGA

When digital computer signal is received on DVI terminal, above message is displayed on PC SYSTEM Menu icon.

PC SYSTEM MENU

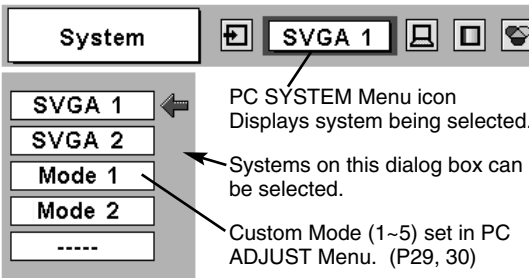


SELECT COMPUTER SYSTEM MANUALLY

This projector automatically selects PC system among those provided in this projector and PC system can be be also selected manually.

- 1 Press MENU button and ON-SCREEN MENU will appear. Press POINT LEFT/RIGHT buttons to move a red frame pointer to PC SYSTEM Menu icon.
- 2 Press POINT DOWN button to move a red arrow pointer to system that you want to set, and then press SELECT button.

PC SYSTEM MENU



COMPATIBLE COMPUTER SPECIFICATIONS

Basically this projector can accept a signal from all computers with V, H-Frequency mentioned below and less than 230 MHz of Dot Clock.

ON-SCREEN DISPLAY	RESOLUTION	H-Freq. (kHz)	V-Freq. (Hz)	ON-SCREEN DISPLAY	RESOLUTION	H-Freq. (kHz)	V-Freq. (Hz)
VGA 1	640 x 480	31.47	59.88	XGA15	1024 x 768	58.03	72.0
VGA 2	720 x 400	31.47	70.09	MAC 19	1024 x 768	60.24	75.08
VGA 3	640 x 400	31.47	70.09	MAC 21	1152 x 870	68.68	75.06
VGA 4	640 x 480	37.86	74.38	SXGA 1	1152 x 864	64.20	70.40
VGA 5	640 x 480	37.86	72.81	SXGA 2	1280 x 1024	62.50	58.60
VGA 6	640 x 480	37.50	75.00	SXGA 3	1280 x 1024	63.90	60.00
VGA 7	640 x 480	43.269	85.00	SXGA 4	1280 x 1024	63.34	59.98
MAC LC13	640 x 480	34.97	66.60	SXGA 5	1280 x 1024	63.74	60.01
MAC 13	640 x 480	35.00	66.67	SXGA 6	1280 x 1024	71.69	67.19
480i	(Interlace)	15.734	60.00	SXGA 7	1280 x 1024	81.13	76.107
575i	(Interlace)	15.625	50.00	SXGA 8	1280 x 1024	63.98	60.02
480p	(Progressive)	31.47	59.88	SXGA 9	1280 x 1024	79.976	75.025
575p	(Progressive)	31.25	50.00	SXGA 10	1280 x 960	60.00	60.00
SVGA 1	800 x 600	35.156	56.25	SXGA 11	1152 x 900	61.20	65.20
SVGA 2	800 x 600	37.88	60.32	SXGA 12	1152 x 900	71.40	75.60
SVGA 3	800 x 600	46.875	75.00	SXGA 13	1280 x 1024 (Interlace)	50.00	86.00
SVGA 4	800 x 600	53.674	85.06	SXGA 14	1280 x 1024 (Interlace)	50.00	94.00
SVGA 5	800 x 600	48.08	72.19	SXGA 15	1280 x 1024	63.37	60.01
SVGA 6	800 x 600	37.90	61.03	SXGA 16	1280 x 1024	76.97	72.00
SVGA 7	800 x 600	34.50	55.38	SXGA 17	1152 x 900	61.85	66.00
SVGA 8	800 x 600	38.00	60.51	SXGA 18	1280 x 1024 (Interlace)	46.43	86.70
SVGA 9	800 x 600	38.60	60.31	SXGA 19	1280 x 1024	63.79	60.18
SVGA 10	800 x 600	32.70	51.09	SXGA 20	1280 x 1024	91.146	85.024
SVGA 11	800 x 600	38.00	60.51	SXGA 21	1400 x 1050	63.90	60.00
MAC 16	832 x 624	49.72	74.55	MAC	1280 x 960	75.00	75.08
XGA 1	1024 x 768	48.36	60.00	MAC	1280 x 1024	80.00	75.08
XGA 2	1024 x 768	68.677	84.997	WXGA 1	1366 x 768	48.36	60.00
XGA 3	1024 x 768	60.023	75.03	WXGA 2	1360 x 768	47.70	60.00
XGA 4	1024 x 768	56.476	70.07	WXGA 3	1376 x 768	48.36	60.00
XGA 5	1024 x 768	60.31	74.92	WXGA 4	1360 x 768	56.16	72.00
XGA 6	1024 x 768	48.50	60.02	UXGA 1	1600 x 1200	75.00	60.00
XGA 7	1024 x 768	44.00	54.58	UXGA 2	1600 x 1200	81.25	65.00
XGA 8	1024 x 768	63.48	79.35	UXGA 3	1600 x 1200	87.50	70.00
XGA 9	1024 x 768 (Interlace)	36.00	87.17	UXGA 4	1600 x 1200	93.750	75.00
XGA 10	1024 x 768	62.04	77.07	720p	(Progressive)	45.00	60.00
XGA 11	1024 x 768	61.00	75.70	1035i	(Interlace)	33.75	60.00
XGA 12	1024 x 768 (Interlace)	35.522	86.96	1080i/60	(Interlace)	33.75	60.00
XGA 13	1024 x 768	46.90	58.20	1080i/50	(Interlace)	28.125	50.00
XGA 14	1024 x 768	47.00	58.30				

COMPUTER INPUT

When a input signal is digital from DVI terminal, refer to chart below.

ON-SCREEN DISPLAY	RESOLUTION	H-Freq. (kHz)	V-Freq. (Hz)	ON-SCREEN DISPLAY	RESOLUTION	H-Freq. (kHz)	V-Freq. (Hz)
D-VGA	640 x 480	31.469	59.940	D-SXGA 2	1280 x 1024	60.276	58.069
D-SVGA	800 x 600	37.879	60.317	D-SXGA 3	1280 x 1024	31.65	29.8
D-XGA	1024 x 768	48.363	60.004	D-UXGA	1600 x 1200	75.00	60.00
D-SXGA 1	1280 x 1024	63.981	60.020				

NOTE : Specifications are subject to change without notice.

PC ADJUSTMENT

AUTO PC ADJUSTMENT

Auto PC Adjustment function is provided to automatically adjust Fine sync, Total dots and Picture Position to conform to your computer. Auto PC Adjustment function can be operated as follows.



Auto PC Adj.

- 1 Press MENU button and ON-SCREEN MENU will appear. Press POINT LEFT/RIGHT button to move a red frame pointer to PC ADJUST Menu icon.
- 2 Press POINT DOWN button to move a red frame pointer to AUTO PC Adj. icon and then press SELECT button twice. This Auto PC Adjustment can be also executed by pressing AUTO PC ADJ. button on Top Control or on Remote Control Unit.

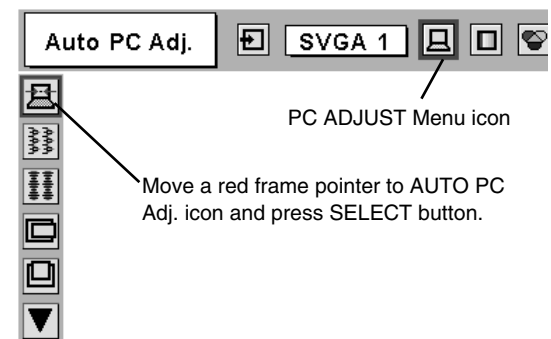
Store adjustment parameters.

Adjustment parameters from Auto PC Adjustment can be memorized in this projector. Once parameters are memorized, setting can be done just by selecting Mode in PC SYSTEM Menu (P26). Refer to step 3 of MANUAL PC ADJUSTMENT section (P30).

NOTE

- Fine sync, Total dots and Picture Position of some computers can not be fully adjusted with this Auto PC Adjustment function. When image is not provided properly through this function, manual adjustments are required. (Refer to page 29, 30.)
- Auto PC Adjustment function cannot be operated in Digital Signal input on DVI terminal and "480i", "575i", "480p", "575p", "720p (HDTV)", "1035i (HDTV)", "1080i50 (HDTV)" or "1080i60 (HDTV)" is selected on PC SYSTEM Menu (P26).

PC ADJUST MENU



MANUAL PC ADJUSTMENT

This projector can automatically tune to display signals from most personal computers currently distributed. However, some computers employ special signal formats which are different from standard ones and may not be tuned by Multi-Scan system of this projector. If this happens, projector cannot reproduce a proper image and image may be recognized as a flickering picture, a non-synchronized picture, a non-centered picture or a skewed picture.

This projector has a Manual PC Adjustment to enable you to precisely adjust several parameters to match with those special signal formats. This projector has 5 independent memory areas to memorize those parameters manually adjusted. This enables you to recall setting for a specific computer whenever you use it.

Note : This PC ADJUST Menu cannot be operated in Digital Signal input on DVI terminal is selected on PC SYSTEM MENU (P26).

1 Press MENU button and ON-SCREEN MENU will appear. Press POINT LEFT/RIGHT button to move a red frame pointer to PC ADJUST Menu icon.

2 Press POINT DOWN button to move a red frame pointer to item that you want to adjust and then press SELECT button. Adjustment dialog box will appear. Press POINT LEFT/RIGHT button to adjust value.



Fine sync

Adjusts an image as necessary to eliminate flicker from display. Press POINT LEFT/RIGHT button to adjust value.(From 0 to 31.)



Total dots

Number of total dots in one horizontal period. Press POINT LEFT/RIGHT button(s) and adjust number to match your PC image.



Horizontal

Adjusts horizontal picture position. Press POINT LEFT/RIGHT button(s) to adjust position.



Vertical

Adjusts vertical picture position. Press POINT LEFT/RIGHT button(s) to adjust position.



Current mode

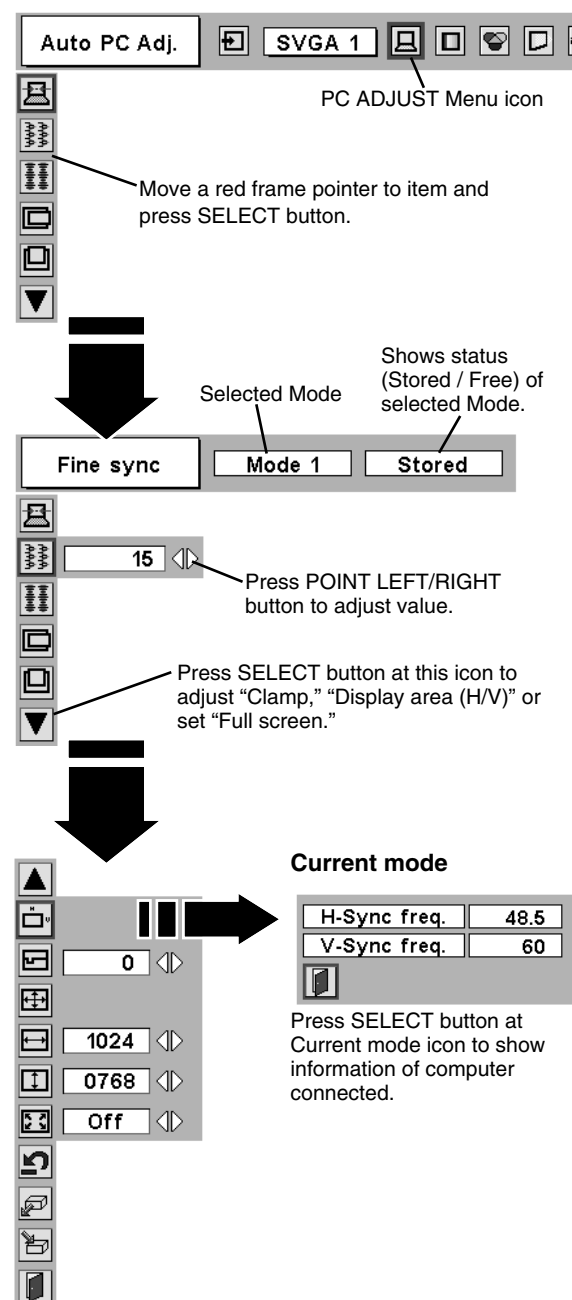
Press SELECT button to show information of computer selected.



Clamp

Adjusts clamp position. When a image has a dark bar(s), try this adjustment.

PC ADJUST MENU



Display area

Selects area displayed with this projector. Select resolution at Display area dialog box.

Display area H

Adjustment of horizontal area displayed with this projector. Press POINT LEFT/RIGHT button(s) to decrease/increase value and then press SELECT button.

Display area V

Adjustment of vertical area displayed with this projector. Press POINT LEFT/RIGHT button(s) to decrease/increase value and then press SELECT button.

Full screen

Press POINT LEFT/RIGHT button(s) to switch Full screen function to "On" or "Off." Set "On" to resize image to fit the horizontal size of the screen.

NOTE : Fine sync, Display area, Display area H, Display area V and Full screen can not be adjusted when "480i", "575i", "480p", "575p", "720p (HDTV)", "1035i (HDTV)", "1080i50(HDTV)" or "1080i60 (HDTV)" is selected on PC SYSTEM Menu (P26).

3 **Store**

To store adjustment parameters, move a red frame pointer to Store icon and then press SELECT button. Move a red arrow pointer to any of Mode 1 to 5 that you want to store and then press SELECT button.

Mode free

To clear adjustment parameters previously set, move a red frame pointer to Mode free icon and then press SELECT button. Move a red arrow pointer to Mode that you want to clear and then press SELECT button.

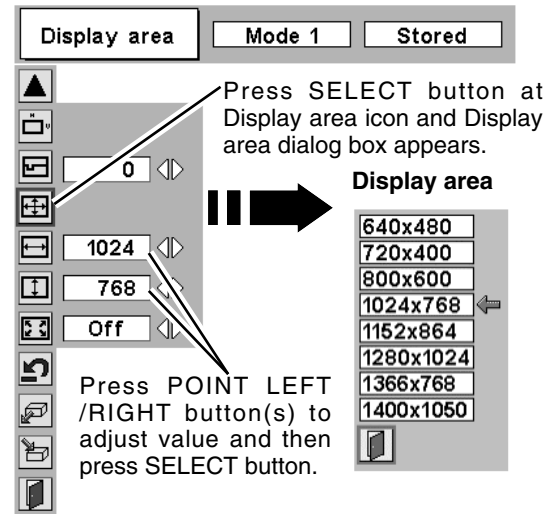
Other icons operates as follows.

Reset

Reset all adjust parameters on adjustment dialog box to previous figure.

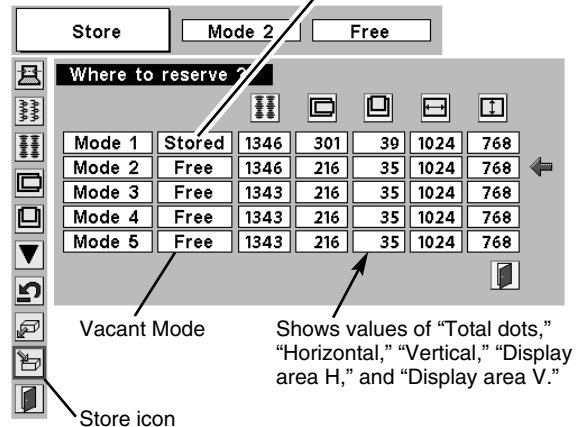
Quit

Closes PC ADJUST MENU.

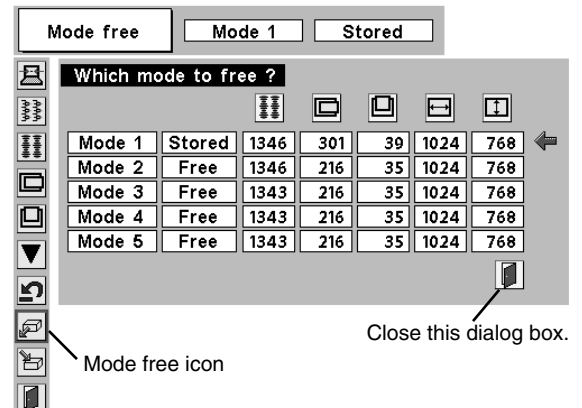


To store adjustment data.

This Mode has parameters being stored.



To clear adjustment data.



PICTURE IMAGE ADJUSTMENT

IMAGE LEVEL SELECT (DIRECT)

Select image level among Standard, Real, Image 1, Image 2, Image 3 and Image 4 by pressing IMAGE button on Top Control or on Remote Control Unit.

Standard

Normal picture level preset on this projector.

Real

Picture level with improved halftone for graphics.

IMAGE 1~4

User preset picture adjustment in IMAGE ADJUST Menu (P32).

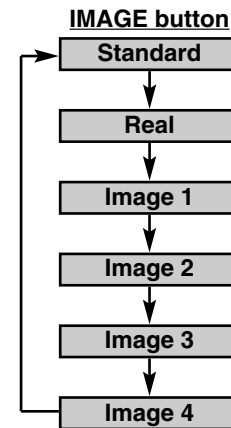


IMAGE LEVEL SELECT (MENU)

- 1** Press MENU button and ON-SCREEN MENU will appear. Press POINT LEFT/RIGHT button to move a red frame pointer to IMAGE SELECT Menu icon.
- 2** Press POINT DOWN button to move a red frame pointer to level that you want to set and then press SELECT button.



Standard

Normal picture level preset on this projector.



Real

Picture level with improved halftone for graphics.



IMAGE 1~4

User preset picture adjustment in IMAGE ADJUST Menu (P32).

IMAGE SELECT MENU

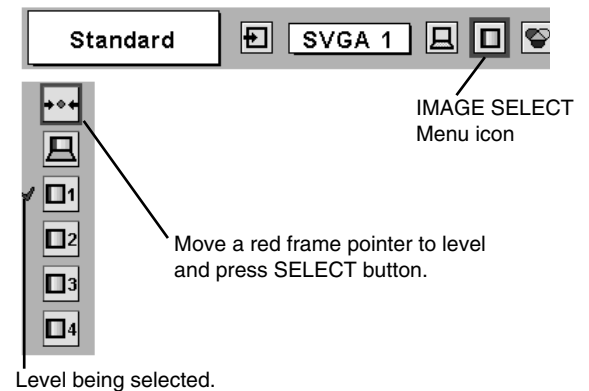


IMAGE LEVEL ADJUSTMENT

1 Press MENU button and ON-SCREEN MENU will appear. Press POINT LEFT/RIGHT buttons to move a red frame pointer to IMAGE ADJUST Menu icon.

2 Press POINT DOWN button to move a red frame pointer to item that you want to adjust and then press SELECT button. Level of each item is displayed. Adjust each level by pressing POINT LEFT/RIGHT button(s).



Contrast

Press POINT LEFT button to decrease contrast, and POINT RIGHT button to increase contrast. (From 0 to 63.)



Brightness

Press POINT LEFT button to adjust image darker, and POINT RIGHT button to adjust brighter. (From 0 to 63.)



Color temp.

Press either POINT LEFT button or POINT RIGHT button to Color temp. level that you want to select. (XLow, Low, Mid or High)



White balance (Red)

Press POINT LEFT button to lighten red tone and POINT RIGHT button to deeper tone. (From 0 to 63.)



White balance (Green)

Press POINT LEFT button to lighten green tone and POINT RIGHT button to deeper tone. (From 0 to 63.)



White balance (Blue)

Press POINT LEFT button to lighten blue tone and POINT RIGHT button to deeper tone. (From 0 to 63.)



Sharpness

Press POINT LEFT button to soften image, and POINT RIGHT button to sharpen image. (From 0 to 15.)



Gamma

Press either POINT LEFT button or POINT RIGHT button to obtain better balance of contrast. (From 0 to 15.)



Noise reduction

Press POINT LEFT/RIGHT button(s) to change noise reduction mode. Dialog box display is changed to "On" to reduce noise (rough parts) of image. Press POINT LEFT/RIGHT button(s) again, to change noise reduction mode to off.



Progressive

Press POINT LEFT/RIGHT button(s) to change progressive scan mode. Dialog box display is changed to "Off" and progressive scan mode to off. Press POINT LEFT/RIGHT button(s) again, progressive scan mode to on.

3



Store

To store manually preset image, move a red frame pointer to Store icon and press SELECT button. Image Level Menu will appear. Move a red frame pointer to Image 1 to 4 where you want to set and then press SELECT button.

Other icons operates as follows.



Reset

Reset all adjustment to previous figure.



Quit

Closes IMAGE MENU.

IMAGE ADJUST MENU

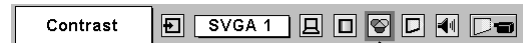
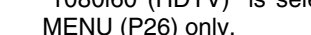
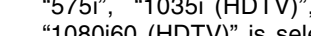
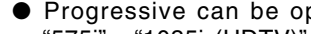
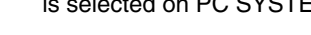
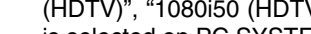
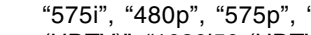
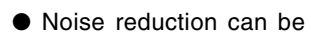
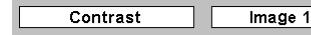
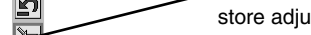


IMAGE ADJUST Menu icon

Move a red frame pointer to item to be selected and then press SELECT button.



Selected Image level



Press POINT LEFT/RIGHT buttons to adjust value.

Store icon
Press SELECT button at this icon to store adjustment.



NOTE :

- Noise reduction can be operated when "480i", "575i", "480p", "575p", "720p (HDTV)", "1035i (HDTV)", "1080i50 (HDTV)" or "1080i60 (HDTV)" is selected on PC SYSTEM MENU (P26) only.
- Progressive can be operated when "480i", "575i", "1035i (HDTV)", "1080i50 (HDTV)" or "1080i60 (HDTV)" is selected on PC SYSTEM MENU (P26) only.

PICTURE SCREEN ADJUSTMENT

This projector has a picture screen resize function, which enables you to display desirable image size.

- 1 Press MENU button and ON-SCREEN MENU will appear. Press POINT LEFT/RIGHT button(s) to move a red frame pointer to SCREEN Menu icon.
- 2 Press POINT DOWN button and move a red frame pointer to function that you want to select and then press SELECT button.



Normal

Provides image to fit the panel size of the screen.



Full

Provides image to fit the horizontal size of the screen.



True

Provides image in its original size. When the original image size is larger than screen size (1366 X 768), this projector enters "D. Zoom +" mode automatically.



Digital zoom +

When Digital zoom + is selected, ON-SCREEN MENU disappears and message "D. Zoom +" is displayed. Press SELECT button to expand image size. And press POINT UP/DOWN/LEFT/RIGHT button(s) to pan image. Panning function can work only when image is larger than screen size.

A projected image can be also expanded by pressing D.ZOOM ▲ button on Remote Control Unit.



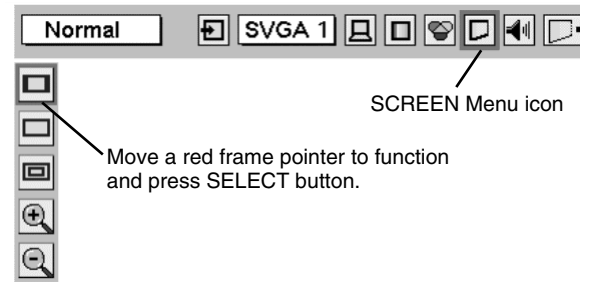
Digital Zoom -

When Digital zoom - is selected, ON-SCREEN MENU disappears and message "D. Zoom -" is displayed. Press SELECT button to compress image size.

A projected image can be also compressed by pressing D.ZOOM ▼ button on Remote Control Unit.

To cancel Digital Zoom +/- mode, press any button except D.ZOOM ▲/▼, SELECT, POINT and AUTO PC ADJ. buttons.

SCREEN MENU



NOTE

- Picture screen adjustment can not be operated when "720p (HDTV)", "1035i (HDTV)", "1080i50 (HDTV)" or "1080i60 (HDTV)" is selected on PC SYSTEM Menu (P26).
- True and Digital zoom +/- can not be selected when "480i", "575i", "480p" or "575p" is selected on PC SYSTEM Menu (P26).
- This projector can not display any resolution higher than 1600 X 1200. If your computer's screen resolution is higher than 1600 X 1200, reset resolution to lower before connecting projector.
- Image data in other than XGA (1024 x 768) is modified to fit screen size in initial mode.
- Panning function may not operate properly if computer system prepared on PC ADJUST Menu is used.

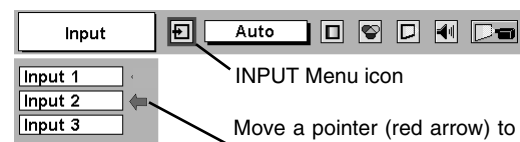
SELECTING INPUT SOURCE

WHEN SELECT INPUT 2 (5 BNC INPUT JACKS)

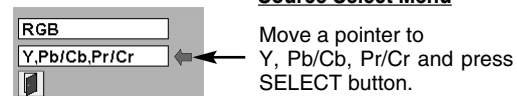
When connect component video output (Cr, Y, Cb or Pr, Y, Pb) from video equipment to R/Pr, G/Y and B/Pb jacks.

- 1 Press MENU button and ON-SCREEN MENU will appear. Press POINT LEFT/RIGHT button to move a red frame pointer to INPUT Menu icon.
- 2 Press POINT DOWN button to move a red arrow pointer to Input 2 and then press SELECT button. Source Select Menu will appear.
- 3 Move a pointer to "Y, Pb/Cb, Pr/Cr" and then press SELECT button.

INPUT MENU



Source Select Menu

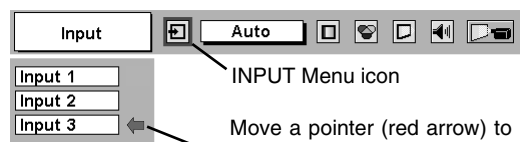


WHEN SELECT INPUT 3 (AV TERMINAL)

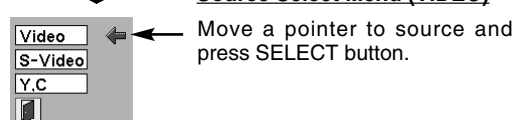
When connecting to those equipment, select a type of Video source in SOURCE SELECT (VIDEO) Menu.

- 1 Press MENU button and ON-SCREEN MENU will appear. Press POINT LEFT/RIGHT button to move a red frame pointer to INPUT Menu icon.
- 2 Press POINT DOWN button to move a red arrow pointer to Input 3 and then press SELECT button. Source Select Menu will appear.
- 3 Move a pointer to source that you want to select and then press SELECT button.

INPUT MENU



Source Select Menu (VIDEO)



Video When video input signal is connected to VIDEO jack, select Video.

S-Video When video input signal is connected to S-VIDEO jack, select S-Video.

Y, C When video input signal is connected to VIDEO/Y, C jacks, select Y, C.

SELECTING VIDEO SYSTEM

- 1 Press MENU button and ON-SCREEN MENU will appear. Press POINT LEFT/RIGHT buttons to move a red frame pointer to AV SYSTEM Menu icon.
- 2 Press POINT DOWN button to move a red arrow pointer to system that you want to select and then press SELECT button.

VIDEO JACK OR S-VIDEO JACK

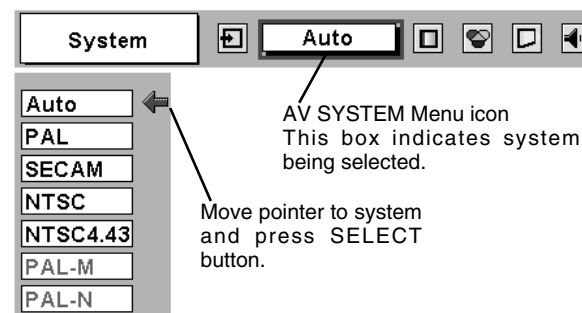
Auto

Projector automatically detects incoming Video system, and adjusts itself to optimize its performance.
When Video System is PAL-M or PAL-N, select system manually first.

PAL / SECAM / NTSC / NTSC4.43 / PAL-M / PAL-N

If projector can not reproduce proper video image, it is necessary to select a specific broadcast signal format among PAL, SECAM, NTSC, NTSC 4.43, PAL-M, and PAL-N.

AV SYSTEM MENU (VIDEO OR S-VIDEO)



Y, Pb/Cb, Pr/Cr JACKS

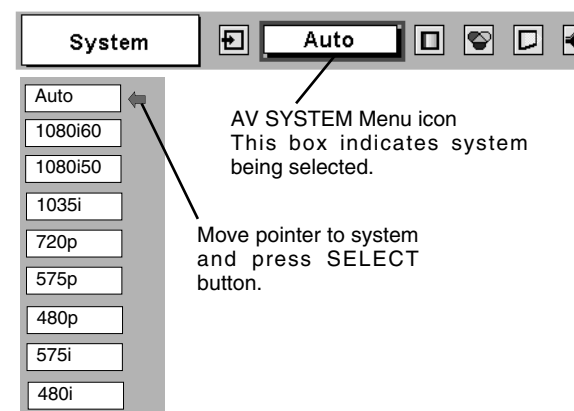
Auto

Projector automatically detects incoming Video signal, and adjusts itself to optimize its performance.
When Video System is 1035i, 1080i50 or 1080i60, select system manually first.

COMPONENT VIDEO SIGNAL FORMAT

If projector can not reproduce proper video image, it is necessary to select a specific component video signal format among 480i, 575i, 480p, 575p, 720p, 1035i, 1080i50 or 1080i60.

AV SYSTEM MENU (COMPONENT VIDEO)



PICTURE IMAGE ADJUSTMENT

IMAGE LEVEL SELECT (DIRECT)

Select image level among Standard, Cinema, Image 1, Image 2, Image 3 and Image 4 by pressing IMAGE button on Top Control or on Remote Control Unit.

Standard

Normal picture level preset on this projector.

Cinema

Picture level adjusted for picture with fine tone.

IMAGE 1~4

User preset picture adjustment in IMAGE ADJUST Menu (P38).



IMAGE LEVEL SELECT (MENU)

1 Press MENU button and ON-SCREEN MENU will appear. Press POINT LEFT/RIGHT button to move a red frame pointer to IMAGE SELECT Menu icon.

2 Press POINT DOWN button to move a red frame pointer to level that you want to set and then press SELECT button.

Standard

Normal picture level preset on this projector.

Cinema

Picture level adjusted for picture with fine tone.

IMAGE 1~4

User preset picture adjustment in IMAGE ADJUST Menu (P38).

IMAGE SELECT MENU

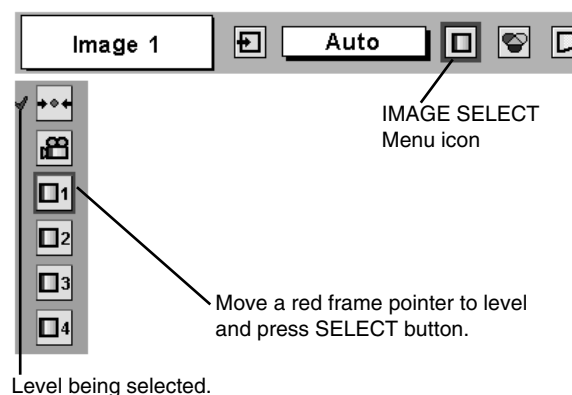


IMAGE LEVEL ADJUSTMENT

- 1 Press MENU button and ON-SCREEN MENU will appear. Press POINT LEFT/RIGHT button(s) to move a red frame pointer to IMAGE ADJUST Menu icon.
- 2 Press POINT DOWN button to move a red frame pointer to item that you want to adjust and then press SELECT button. Level of each item is displayed. Adjust each level by pressing POINT LEFT/RIGHT button(s).



Contrast

Press POINT LEFT button to decrease contrast, and POINT RIGHT button to increase contrast. (From 0 to 63.)



Brightness

Press POINT LEFT button to adjust image darker, and POINT RIGHT button to adjust brighter. (From 0 to 63.)



Color

Press POINT LEFT button to lighten color, and POINT RIGHT button to deeper color. (From 0 to 63.)



Tint

Press POINT LEFT button or POINT RIGHT button to obtain proper color. (From 0 to 63.)



Color temp.

Press either POINT LEFT button or POINT RIGHT button to Color temp. level that you want to select. (XLow, Low, Mid or High)



White balance (Red)

Press POINT LEFT button to lighten red tone and POINT RIGHT button to deeper tone. (From 0 to 63.)



White balance (Green)

Press POINT LEFT button to lighten green tone and POINT RIGHT button to deeper tone. (From 0 to 63.)



White balance (Blue)

Press POINT LEFT button to lighten blue tone and POINT RIGHT button to deeper tone. (From 0 to 63.)



Sharpness

Press POINT LEFT button to soften image, and POINT RIGHT button to sharpen image. (From 0 to 15.)



Gamma

Press either POINT LEFT button or POINT RIGHT button to obtain better balance of contrast. (From 0 to 15.)



Noise reduction

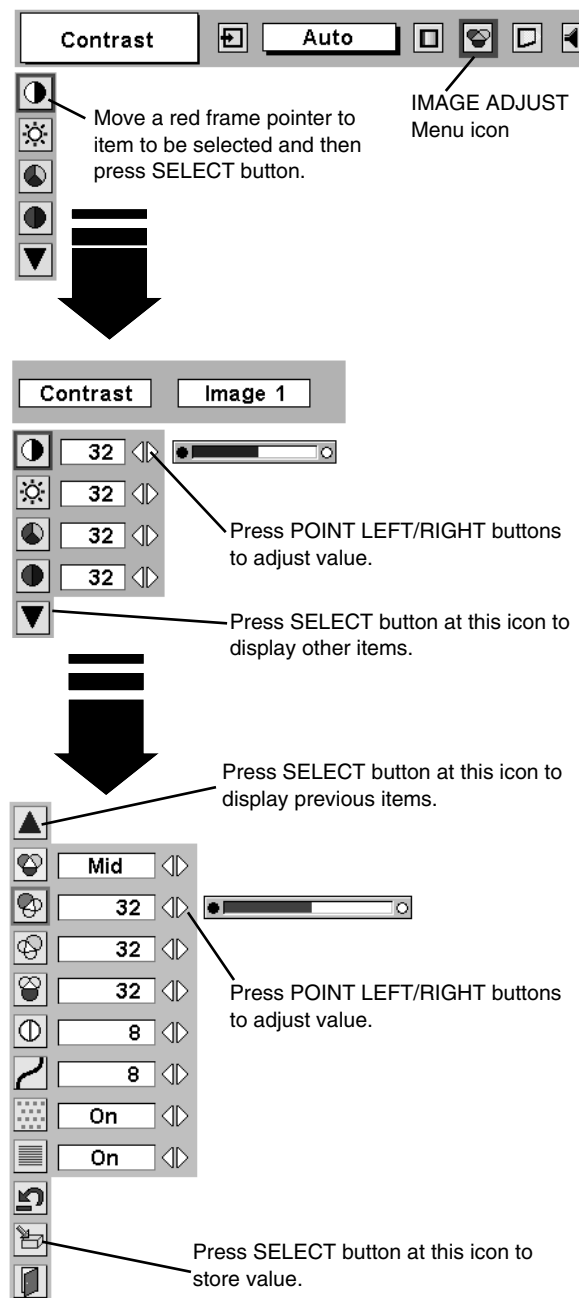
Press POINT LEFT/RIGHT button(s) to change noise reduction mode. Dialog box display is changed to "On" to reduce noise (rough parts) of image. Press POINT LEFT/RIGHT button(s) again, to change noise reduction mode to off.



Progressive scan

Press POINT LEFT/RIGHT button(s) to change progressive scan mode. Dialog box display is changed to "Off" and progressive scan mode to off. Press POINT LEFT/RIGHT button(s) again, progressive scan mode to on.

IMAGE ADJUST MENU



NOTE :

Tint can not be adjusted when video system is PAL, SECAM, PAL-M or PAL-N.

Progressive can not be operated when "480p", "575p", "720p", "1035i", "1080i50" or "1080i60" is selected on AV SYSTEM MENU (P35).

3 **Store**

To store adjustment data, move a red frame pointer to Store icon and press SELECT button. Image Level Menu will appear. Move a red frame pointer to Image Level 1 to 4 and then press SELECT button.

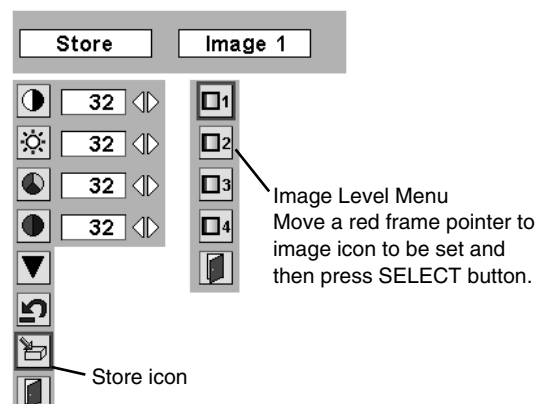
Other icons operates as follows.

Reset

Reset all adjustment to previous figure.

Quit

Closes IMAGE MENU.



PICTURE SCREEN ADJUSTMENT

This projector has a picture screen resize function, which enables you to display desirable image size.

1 Press MENU button and ON-SCREEN MENU will appear. Press POINT LEFT/RIGHT button(s) to move a red frame pointer to SCREEN Menu icon.

2 Press POINT DOWN button and move a red frame pointer to function that you want to select and then press SELECT button.

Full

Provides image to fit width of screen by expanding image width uniformly. This function can be used for providing a squeezed video signal at wide video aspect ratio of 16 : 9.

When your video equipment (such as DVD) has 16 : 9 output mode, select 16 : 9 and select Full on this SCREEN Menu to provide better quality.

Zoom

Provides image to fit screen size (16 : 9 aspect ratio) by expanding image width and height uniformly. This function can be used for providing a letter box mode picture (4 : 3 aspect picture with black bar on top and bottom edges) at wide video aspect of 16 : 9.

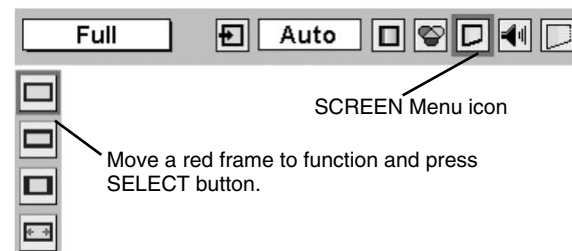
Normal

Provides image at the normal video aspect ratio of 4 : 3.

Natural wide

Provides image to fit width of screen by expanding both sides of image. This function is suitable to provide a normal video signal (4 : 3 aspect ratio) at wide video aspect ratio of 16 : 9.

SCREEN MENU



NOTE : SCREEN Menu can not be operated when "720p", "1035i", "1080i50" or "1080i60" is selected on AV SYSTEM Menu (P35).

SETTING MENU

- 1 Press MENU button and ON-SCREEN MENU will appear. Press POINT LEFT/RIGHT button(s) to move a red-frame pointer to SETTING icon.
- 2 Press POINT DOWN button to move a red-frame pointer to item that you want to set and then press SELECT button. Setting dialog box appears.



Language

Language used in ON-SCREEN MENU is selectable from among English, German, French, Italian, Spanish, Portuguese, Dutch, Swedish, Russian, Chinese, Korean and Japanese.



Keystone

When image is distorted horizontally, select Keystone. ON-SCREEN MENU disappears and Keystone dialog box is displayed. Correct keystone distortion by pressing POINT LEFT/RIGHT button(s). Refer to KEYSTONE ADJUSTMENT on page 22.



Blue back

When this function is "On," this projector will produce a blue image instead of video noise on screen when any input source is unplugged or turned off.



Display

This function decides whether to display On-Screen Displays.

- On ... shows all On-Screen Displays.
- Off sets On-Screen Displays disappeared except;
 - ON-SCREEN MENU
 - "Power off?" message
 - P-TIMER
 - "No signal" message
 - "Wait a moment" message



Logo

When this function is "On," projector displays our logo when starting up.



Ceiling

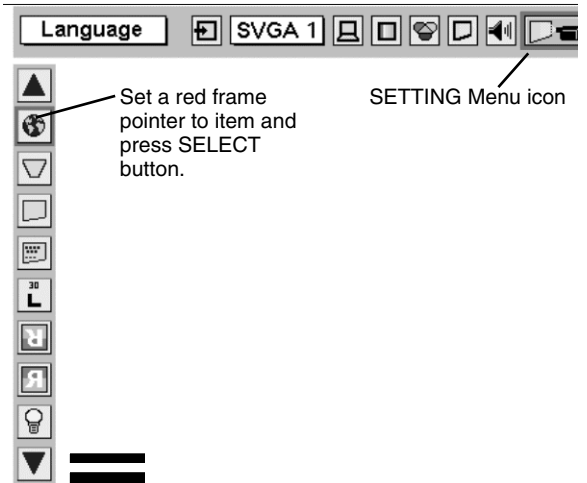
When this function is "On," picture is top/bottom and left/right reversed. This function is used to project image from a ceiling mounted projector.



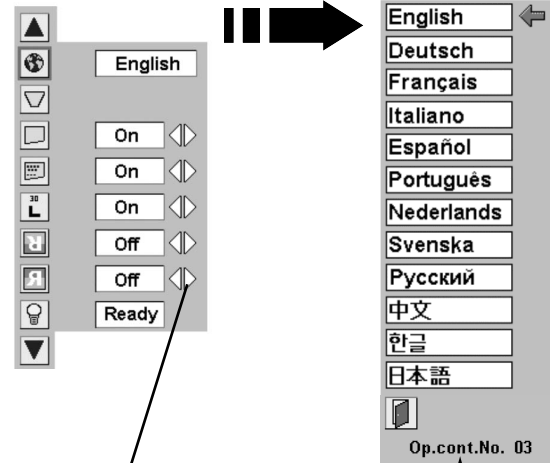
Rear

When this function is "On," picture is left/right reversed. This function is used to project image to a rear projection screen.

SETTING MENU



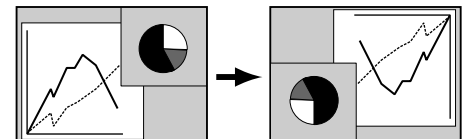
When pressing SELECT button at Language, Language Menu appears.



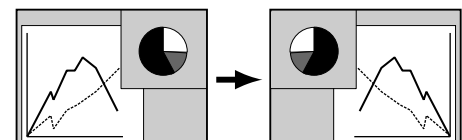
Move a pointer to item and then press POINT LEFT/RIGHT button(s).

Optional Control Number
Refer to page 11.

Ceiling function



Rear function



SETTING



Power management

This projector is equipped with a power management function. When the input signal is interrupted and any button is not pressed for 30 seconds or more, the power management function operates in order to reduce power consumption and conserve lamp operating time. The factory default settings for power management are "Ready" and "5 Min".

OPERATION

- 1) If the input signal is interrupted and any button is not pressed for 30 seconds or more, the message "No signal" and the timer display appears on the screen. Then the count-down starts for the time being set.

If "Ready" is selected

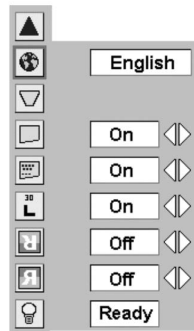
- 2) When the set time is elapsed, the lamp will be switched off and lamp cooling starts. The READY indicator will be switched off while the lamp cooling is in progress, and the projector cannot be operated during this time.
- 3) When the lamp cooling is completed, the READY indicator starts flashing to notify the operator that power management mode is active. In this condition, the lamp will turn on and images will be projected if a signal starts being input or the projector is operated.

If "Shut down" is selected

- 2) When the set time is elapsed, the lamp will be switched off and lamp cooling starts. The READY indicator will be switched off while the lamp cooling is in progress, and the projector cannot be operated during this time.
- 3) When the lamp cooling is completed, the power switches off.

If "Off" is selected

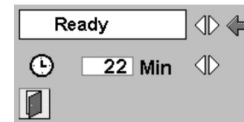
The power management function is canceled.



Press SELECT button at this icon to display next items.



Time left until Lamp off.



When a SELECT button is pressed, the adjustment screen is displayed.

Use the POINT LEFT/RIGHT button(s) to select the power management function mode ("Off", "Ready" or "Shut down").

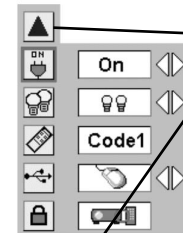
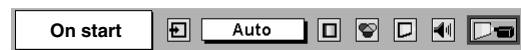
Use the POINT DOWN button to move the pointer to the time setting, and then use the POINT LEFT/RIGHT button(s) to set the time (1 minute to 30 minutes).



On start

When this function is "On," projector is automatically turned on just by switching MAIN ON/OFF SWITCH on.

Note ; Be sure to turn projector off properly (refer to section "TURNING OFF PROJECTOR" on P21). If projector is turned off in wrong steps, On Start function does not operate properly.



Press SELECT button at this icon to display previous items.

Move pointer to item and then press POINT LEFT/RIGHT button(s).



Lamp Mode

This Projector is equipped with 2 Projection Lamps and a number of using lamps can be switched to 2 lamps or 1 lamp. Using 1 lamp maintain life of Projection Lamps.

To change over Lamp Mode

1. Press MENU button and ON-SCREEN MENU will appear. Press POINT LEFT/RIGHT buttons to select SETTING and press SELECT button. Setting dialog box appears.
2. Press POINT DOWN button to move a red frame pointer to "Lamp mode". Set "2 lamps mode" or "1 lamp mode" by pressing POINT LEFT/RIGHT button(s). When Lamp Mode is set from "2 lamps mode" to "1 lamp mode" image becomes little darker. When Lamp Mode is set from "1 lamp mode" to "2 lamps mode" image become brighter gradually.

NOTE : After changing Lamp Mode, it can not be switched again for 90 seconds.

Remote control

This projector has eight different remote control codes; the factory-set normal code (Code 1) and the other seven codes (Code 2 to Code 8). This switching function prevents remote control operation mixture (jam) when operating several projectors or video equipment together.

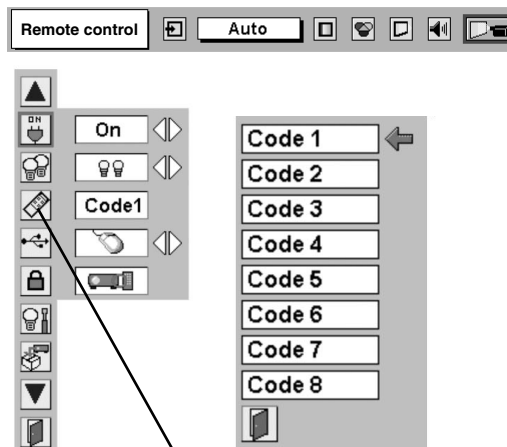
For example operating projector in "Code 7," both projector and Remote Control Unit must be switched to "Code 7."

To change the code of Projector;

To change the Remote control code of the projector used in ON-SCREEN MENU is selectable from Code 1 to Code 8.

To change the code of the Remote Control Unit;

To change the remote control code of the Remote Control Unit, set the DIP switches 1-3 inside the battery compartment box of the Remote Control Unit. (Refer to P17.)




When pressing SELECT button at Remote control, Remote control code Menu appears.


USB

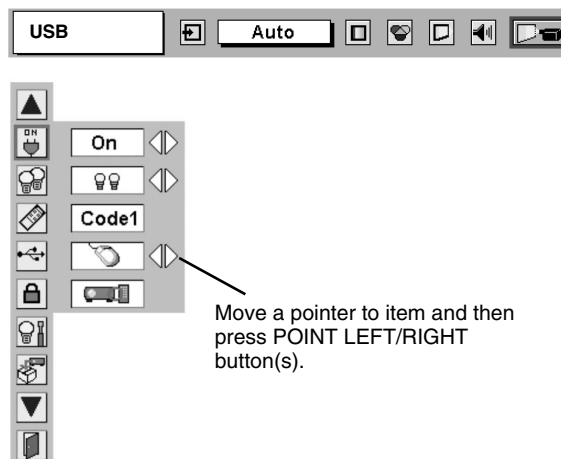
This Projector is equipped with USB port for interactive operation between a projector and computer. Set mode following steps below.

Wireless Mouse mode

Select "  " when controlling a computer with Remote Control of this projector.

Projector mode


"  " Not used.





Move a pointer to item and then press POINT LEFT/RIGHT button(s).

Key lock

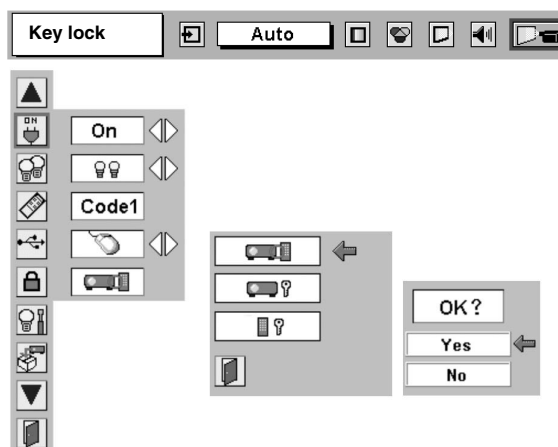
This function locks the operation of the projector's control panel and the remote control.

 This cancels the Key lock function.

 This locks operation of the projector's control panel.

 This locks operation of the remote control.

If the projector's control panel accidentally becomes locked and you do not have the remote control nearby, disconnect the AC cord to turn off the power, and then while pressing a SELECT button, reinsert the AC cord, This will cancel the projector's control panel lock.





Lamp counter reset

Be sure to reset Lamp Counter when Lamp Assembly is replaced. When Lamp Replace Counter is reset, LAMP REPLACE indicator stops lighting.

1 Turn projector on, press MENU button and ON-SCREEN MENU will appear. Press POINT LEFT/RIGHT button(s) to move a red frame pointer to SETTING Menu icon.

2 Press POINT DOWN button to move a red frame pointer to "Lamp counter reset" and then press SELECT button.

3 Move arrow to replaced lamp number (Lamp 1 or Lamp 2) and then press SELECT button. Message "Lamp replace counter Reset?" is displayed. Move pointer to [Yes] and then press SELECT button.

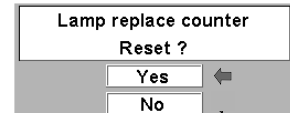
NOTE: Be sure to reset correct lamp number otherwise LAMP REPLACE indicator continues lighting.

4 Another confirmation dialog box appears and select [Yes] to reset Lamp Replace Counter.

Do not reset Lamp Replace Counter except after Projection lamp is replaced.



Move pointer to Lamp counter reset and then press SELECT button. Move arrow to replaced lamp number (Lamp 1 or Lamp 2) and then press SELECT button.



Message "Lamp replace counter Reset?" is displayed. Move pointer to [Yes] and then press SELECT button.



Factory default

This function returns all setting values except for the lamp counter to the factory default settings.

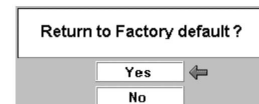
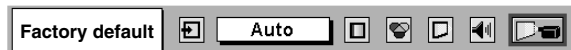
Press POINT UP/DOWN button to move a red frame pointer to "Factory default" and then press SELECT button. The message "Return to Factory default?" is displayed. Move the pointer to [Yes] and then press SELECT button.

Another confirmation dialog box appears and select [Yes] and then press SELECT button. Return the projector to Factory default.



Quit

Closes SETTING MENU.



OPERATING WIRELESS MOUSE

Wireless Remote Control Unit is not only able to operate this projector but also function as a wireless mouse for most Personal Computers. POINT button, drag ON/OFF button and two CLICK buttons are used for wireless mouse operation. This Wireless Mouse function is available only when PC mouse pointer is displayed on a projected screen.

INSTALLATION

To use Wireless Remote Control Unit as Wireless Mouse for a Personal Computer, installation of the mouse driver (not supplied) is required. Make sure that the mouse driver is properly installed in your computer. And make sure that the mouse port (or USB port) of a Personal Computer is activated.

- 1 Connect the mouse port (or USB port) of your computer to Control Port (or USB connector) of this projector with Control Cable (or USB cable). (Refer to page 13, 14 for connection.)
- 2 Turn the projector on first, and then turn on your computer. When the computer is switched on first, Wireless Mouse may not work properly.

Note : When your computer has no mouse port, connect Serial Port of your computer to Control Port of the projector with Control Cable for Serial Port (supplied).

Note:

The wireless mouse function by connection with a control port does not operate in remote control code 2-8. (See page 41)

OPERATING WIRELESS MOUSE

When controlling a PC mouse pointer, operate Wireless Mouse with MOUSE POINTER, Drag ON/OFF button, LEFT CLICK button and RIGHT CLICK button on Wireless Remote Control Unit.

MOUSE POINTER

Used to move PC mouse pointer. The pointer is moved corresponding with the direction you are pressing.

LEFT CLICK button

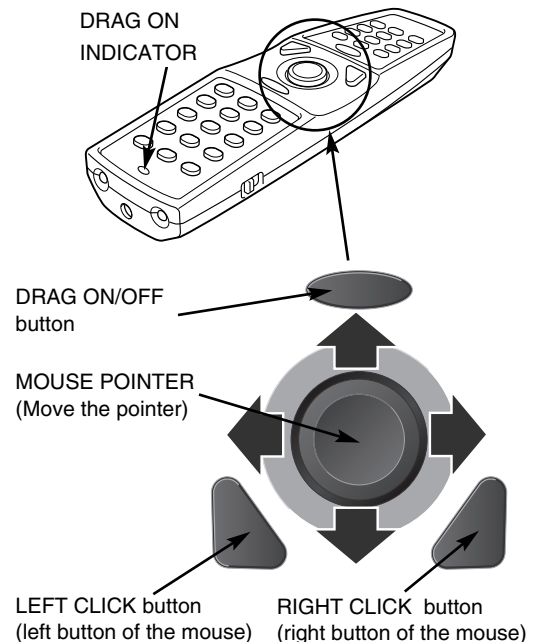
This button has the same function as the left button in a PC mouse. Press this button and the POINT button to drag a selected screen object.

RIGHT CLICK button

This button has the same function as the right button in a PC mouse.

DRAG ON/OFF button

Use this button and the MOUSE POINTER to drag a selected screen object. Press and release the Drag ON/OFF button, DRAG ON INDICATOR lights green and the remote control is in Drag mode. Use the POINT button in the direction that you want to drag the screen object. Press and release the Drag ON/OFF button again or press any other button, to drop the object at the new screen location.



MAINTENANCE

WARNING TEMP. INDICATOR

WARNING TEMP. Indicator flashes red and projector is automatically turned off when an internal temperature of a projector exceeds normal temperature. Wait at least 5 minutes before turning on projector again. When WARNING TEMP. Indicator continues to flash, check items listed below.

- 1 Ventilation Slots of a projector may be blocked. In such an event, reposition a projector so that Ventilation Slots are not obstructed.
- 2 Air Filter may be clogged with dust particles. Clean Air Filter by following section AIR FILTER CARE AND CLEANING on next page.
- 3 If WARNING TEMP. Indicator remains on after performing above checks, Cooling Fans or Internal Circuits may be malfunctioning. Contact service personnel from an authorized dealer or a service station.

AIR FILTER CARE AND CLEANING

Air Filter prevents dust from accumulating on a surface of Projection Lens and Projection Mirror. Should Air Filter become clogged with dust particles, it will reduce Cooling Fans' effectiveness and may result in internal heat build up and adversely affect life of projector.

Clean Air Filter following steps below:

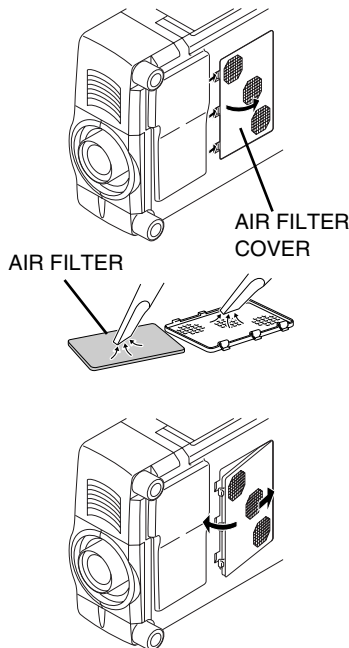
- 1 Turn power off, and disconnect AC power cord from an AC outlet.
- 2 Pull out 2 Air Filters and Air filter Covers from a projector.
- 3 Clean each parts (Air Filter and Air filter Cover) with brush or wash out dust and particles. Be sure to dry them out.
- 4 Replace Air Filter and Air Filter Cover properly. Make sure that they are fully inserted.



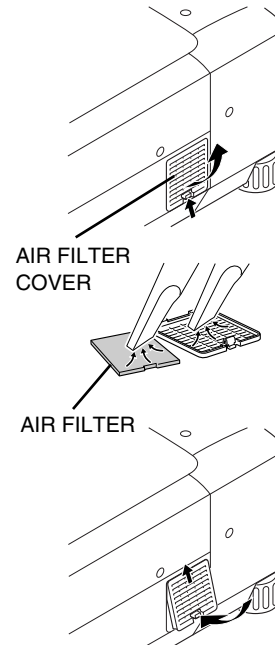
CAUTION

Do not operate a projector with Air Filter removed. Dust may accumulate on LCD Panel and Mirror degrading picture quality. Do not put small parts into Air Intake Vents. It may result in malfunction of a projector.

BOTTOM OF PROJECTOR



SIDE OF PROJECTOR



RECOMMENDATION

We recommend avoiding dusty/smoky environments when operating a projector. Usage in these environments may cause poor image quality.

When using under dusty or smoky conditions, dust may accumulate on liquid crystal panel, lens, or optical elements inside it. This condition may degrade quality of projected image.

When above symptoms are noticed, contact your authorized dealer or service station for proper cleaning.

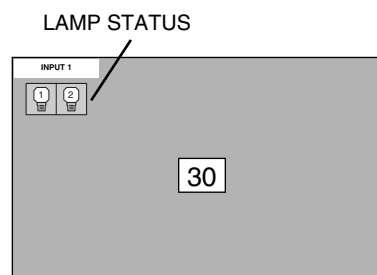
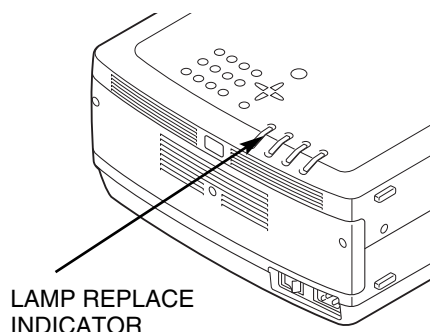
CLEANING PROJECTION LENS

Follow these steps to clean projection lens:

- 1 Apply a non-abrasive camera lens cleaner to a soft, dry cleaning cloth. Avoid using an excessive amount of cleaner. Abrasive cleaners, solvents or other harsh chemicals might scratch lens.
- 2 Lightly wipe cleaning cloth over lens.
- 3 When a projector is not in use, replace lens cap.

LAMP MANAGEMENT

This Projector is equipped with 2 Projection Lamps to ensure brighter image and those lamps are controlled by Lamp Management Function. Lamp Management Function detects status of two lamps and shows status on screen or on LAMP REPLACE indicator. This function also automatically controls Lamp Mode when any of lamps is out for end of life or malfunctions.

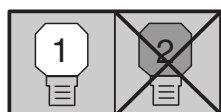


Lamp Replace Indicator

This LAMP REPLACE indicator lights yellow when any of Projection Lamps is nearing its end, and flashes when any of them becomes out. Check number of lamp on Lamp Status Display and replace lamp.

Lamp Status Display

Lamp Status Display appears on screen when power switch is on or changed input position (input 1, input 2 or input 3). This shows status of each lamp as; ON, OFF, NEAR END, or OUT. Refer to following for each status.



LAMP STATUS
DISPLAY

Yellow Lamp ----- Projection Lamp lights normally.

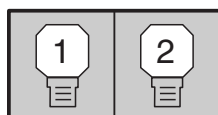
Dim Lamp ----- Projection Lamp is turned off.

Red Lamp ----- Projection Lamp is nearing its end. When image becomes darker or color becomes unnatural, replace lamp. (LAMP REPLACE indicator lights yellow.)

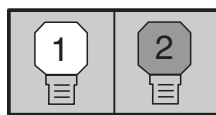
X Mark on Lamp ----- (LAMP REPLACE indicator flashes yellow.)
Projection lamp is defective or fails to be turned on. Restart a projector on, and make sure lamp is on. If this mark still appears, replace lamp corresponding with number marked X.

Lamp Mode Changeover

Lamp Management Function automatically changes combination of lighting lamp (Lamp Mode) by detecting status of lamp. When any of 2 lamps becomes out, Lamp Mode is changed over from 2 lamps to 1 lamp. Lamp Mode can be switched to 2 lamps or 1 lamp manually. Refer to SETTING section on page 39, 40.



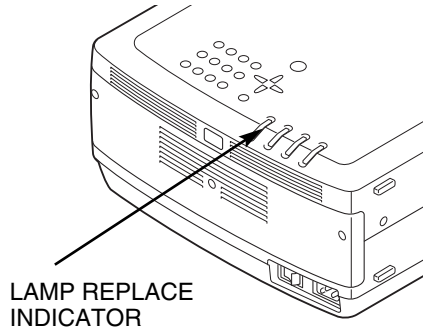
2 LAMP MODE



1 LAMP MODE
(Example)

LAMP REPLACEMENT

When the life of the Projection Lamp of this projector draws to an end, the LAMP REPLACE indicator lights yellow. If this indicator lights yellow, replace the projection lamp with a new one promptly.



Allow a projector to cool, for at least 45 minutes before you open Lamp Cover. The inside of a projector can become very hot.



CAUTION

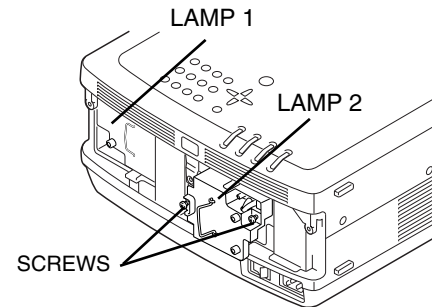
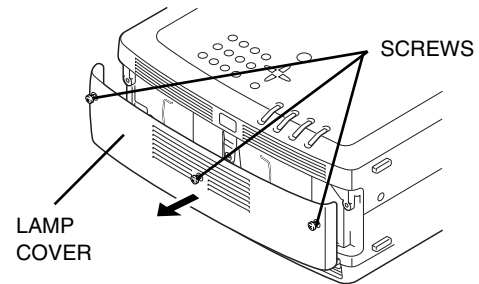
For continued safety, replace with a lamp assembly of the same type.

Do not drop a lamp assembly or touch a glass bulb! The glass can shatter and may cause injury.

Follow these steps to replace lamp assembly.

- 1** Check number of lamp to be replaced on Lamp Status Display.
- 2** Turn off a projector and disconnect AC Power Cord. Allow a projector to cool for at least 45 minutes.
- 3** Loosen 3 screws on Lamp Cover and remove Lamp Cover. (See right figure.)
- 4** Loosen 2 screws and pull out Lamp Assembly to be replaced by grasping handle.
- 5** Replace Lamp Assembly with a new one and tighten 2 screws. Make sure that Lamp Assembly is set properly
- 6** Replace Lamp Cover and tighten 3 screws.
- 7** Connect AC Power Cord to a projector and turn projector on.
- 8** Reset Lamp Replacement Counter. (Refer to section "Lamp Counter Reset" on page 42.)

NOTE : Do not reset LAMP REPLACEMENT COUNTER when lamp is not replaced.



Make sure which number of lamp needs to be replaced on Lamp Status Display. Figure shows case of replacing LAMP 2.

CAUTION : DO NOT OPERATE A PROJECTOR WHILE ANY OF LAMPS IS REMOVED. IT MAY RESULT IN MALFUNCTIONS, FIRE HAZARD, OR OTHER ACCIDENTS.

NOTES ON LAMP REPLACEMENT

To maintain quality of picture (better balance of color and brightness in entire screen), we recommend replacing all 2 lamps at a time.

ORDER REPLACEMENT LAMP

Replacement Lamp can be ordered through your dealer. When ordering a Projection Lamp, give the following information to the dealer.

- **Model No. of your projector** : **LC-W4**
- **Replacement Lamp Type No.** : **POA-LMP73**
(Service Parts No. 610 309 3802)

**LAMP HANDLING PRECAUTIONS**

This projector uses a high-pressure lamp which must be handled carefully and properly. Improper handling may result in accidents, injury, or create a fire hazard.

- Lamp lifetime may differ from lamp to lamp and according to the environment of use. There is no guarantee of the same lifetime for each lamp. Some lamps may fail or terminate their lifetime in a shorter period of time than other similar lamps.
- If the projector indicates that the lamp should be replaced, i.e., if the LAMP REPLACE INDICATOR lights up, replace the lamp with a new one IMMEDIATELY after the projector has cooled down. (Follow carefully the instructions in the LAMP REPLACEMENT section of this manual.) Continuous use of the lamp with the LAMP REPLACE INDICATOR lighted may increase the risk of lamp explosion.
- A Lamp may explode as a result of vibration, shock or degradation as a result of hours of use as its lifetime draws to an end. Risk of explosion may differ according to the environment or conditions in which the projector and lamp are being used.

IF A LAMP EXPLODES, THE FOLLOWING SAFETY PRECAUTIONS SHOULD BE TAKEN.

If a lamp explodes, disconnect the projector's AC plug from the AC outlet immediately. Contact an authorized service station for a checkup of the unit and replacement of the lamp. Additionally, check carefully to ensure that there are no broken shards or pieces of glass around the projector or coming out from the cooling air circulation holes. Any broken shards found should be cleaned up carefully. No one should check the inside of the projector except those who are authorized trained technicians and who are familiar with projector service. Inappropriate attempts to service the unit by anyone, especially those who are not appropriately trained to do so, may result in an accident or injury caused by pieces of broken glass.

TROUBLESHOOTING

Before calling your dealer or service center for assistance, check matters below once again.

1. Make sure you have connected a projector to your computer or video equipment as described in section "CONNECTING PROJECTOR" on pages 12 ~ 15.
2. Check cable connection. Verify that all computer, video and power cord are properly connected.
3. Verify that all power is switched on.
4. If a projector still does not produce an image, re-start your computer.
5. If an image still does not appear, unplug a projector from your computer and check your computer monitor's display. Problem may be with your graphics controller rather than with a projector. (When you reconnect a projector, be sure to turn a computer and monitor off before you power up a projector. Power equipment back on in order of : Projector and computer.)
6. If problem still exists, check following chart.

Problem:	Try these Solutions
No power.	<ul style="list-style-type: none"> ● Plug a projector into your AC outlet. ● Turn MAIN ON/OFF switch to ON. ● Press POWER ON/OFF switch to ON. ● Make sure READY Indicator lights. ● Wait 90 seconds after a projector is turned OFF when turning a projector back on. <p>NOTE : After pressing Power ON-OFF button to OFF, make sure a projector works as follows:</p> <ol style="list-style-type: none"> 1. LAMP indicator lights bright and READY indicator turns off. 2. After 90 seconds, READY indicator lights green again and a projector may be turned on by pressing Power ON-OFF button. <ul style="list-style-type: none"> ● Check WARNING TEMP. and READY indicator. If both WARNING TEMP. and READY indicator flashes, a projector can not be turned on. (See "TURNING ON/OFF PROJECTOR" section on page 21.) ● Check Projection Lamp. (Refer to page 46.)
Image is out of focus.	<ul style="list-style-type: none"> ● Adjust focus of a projector. ● Check Projection Lens to see if it needs cleaning. <p>NOTE : Moving a projector from a cool temperature location to a warm temperature location may result in moisture condensation on Projection Lens. In such an event, leave a projector OFF and wait until condensation disappears.</p>
Picture is Left/Right reversed.	<ul style="list-style-type: none"> ● Check Ceiling / Rear feature. (See "SETTING" section on page 39.)
Picture is Top/Bottom reversed.	<ul style="list-style-type: none"> ● Check Ceiling feature. (See "SETTING" section on page 39.)
Some displays are not seen during Operation.	<ul style="list-style-type: none"> ● Check Display feature. (See "SETTING" section on page 39.)
No image.	<ul style="list-style-type: none"> ● Check connection between your computer or video equipment and a projector. ● When turning a projector on, it takes about 30 seconds to display an image. ● Check system that you select is corresponding with your computer or video equipment. ● Make sure temperature is not out of Operating Temperature (5°C ~ 35°C).
No sound.	<ul style="list-style-type: none"> ● Check audio cable connection from audio input source. ● Adjust audio source. ● Press VOLUME (+) button. ● Press MUTE button.

Problem:	Try these Solutions
Remote Control Unit does not work.	<ul style="list-style-type: none"> ● Check batteries. ● Check ALL-OFF switch on Remote Control Unit is set to "ON." ● Make sure nothing is between Infrared Remote Receiver and Remote Control Unit. ● Make sure you are not too far from a projector when using Remote Control Unit. Maximum operating range is 16.4' (5m). ● Check remote control code from Remote Control Unit. (See "SETTING" section on page 41.)
Wireless Mouse function does not work.	<ul style="list-style-type: none"> ● Check cable connection between a projector and your computer. ● Check mouse setting on your computer. ● Turn a projector on before turning on a computer.

SERVICE

WARNING: High voltages are used to operate this projector. Do not attempt to open cabinet.

You can often correct operating problems yourself. If a projector fails to work properly, see "TROUBLESHOOTING" section on page 48, 49. To correct failure, try "Solutions".

If after following all operating instructions, you find that service is necessary, contact Eiki Service Station or store where you purchased unit.

Give model number and explain difficulty. We will advise you how to obtain service.



This symbol on the nameplate means the product is Listed by Underwriters Laboratories Inc. It is designed and manufactured to meet rigid U.L. safety standards against risk of fire, casualty and electrical hazards.



The CE Mark is a Directive conformity mark of the European Community (EC).

INDICATORS AND PROJECTOR CONDITION

Check the Indicators for projector condition.

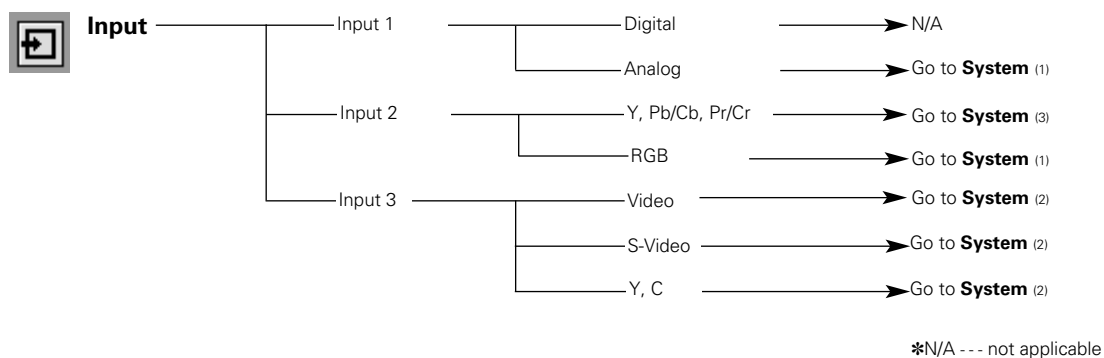
Indicators				Projector Condition
LAMP REPLACE yellow	WARNING TEMP. red	READY green	LAMP red	
●	●	●	●	The projector is OFF. (The MAIN SWITCH OFF POSITION OR THE AC Power Cord is unplugged.)
*	●	○	○	The projector is READY to be turned on with the POWER ON-OFF button.
*	●	○	●	The projector is operating normally.
*	○	●	○	The temperature inside the projector is abnormally high. The projector cannot be turned on. When the projector is cooled down enough and the temperature returns to normal, the READY indicator lights green and the projector can be turned on. (The WARNING TEMP. indicator keeps flashing.) Check and clean the Air Filter.
*	○	○	○	The projector is cooled down enough and the temperature returns to normal. When turning on the projector, the WARNING TEMP. indicator stops flashing. Check and clean the Air Filter.
*	●	●	○	The projector is being cooled down. It cannot be turned on until the READY indicator lights green.
*	○	○	○	The projector detects an abnormal condition and cannot be turned on. Unplug the AC Power Cord and plug it again to turn on the projector. If the projector is turned off again, disconnect the AC Power Cord and contact the dealer or the service center for service and checkup. Do not leave the projector on. It may cause electric shock or a fire hazard.
*	●	○	●	The projector is in the Power management mode.

○ ... on ○ ... flashing ● ... dim ● ... off

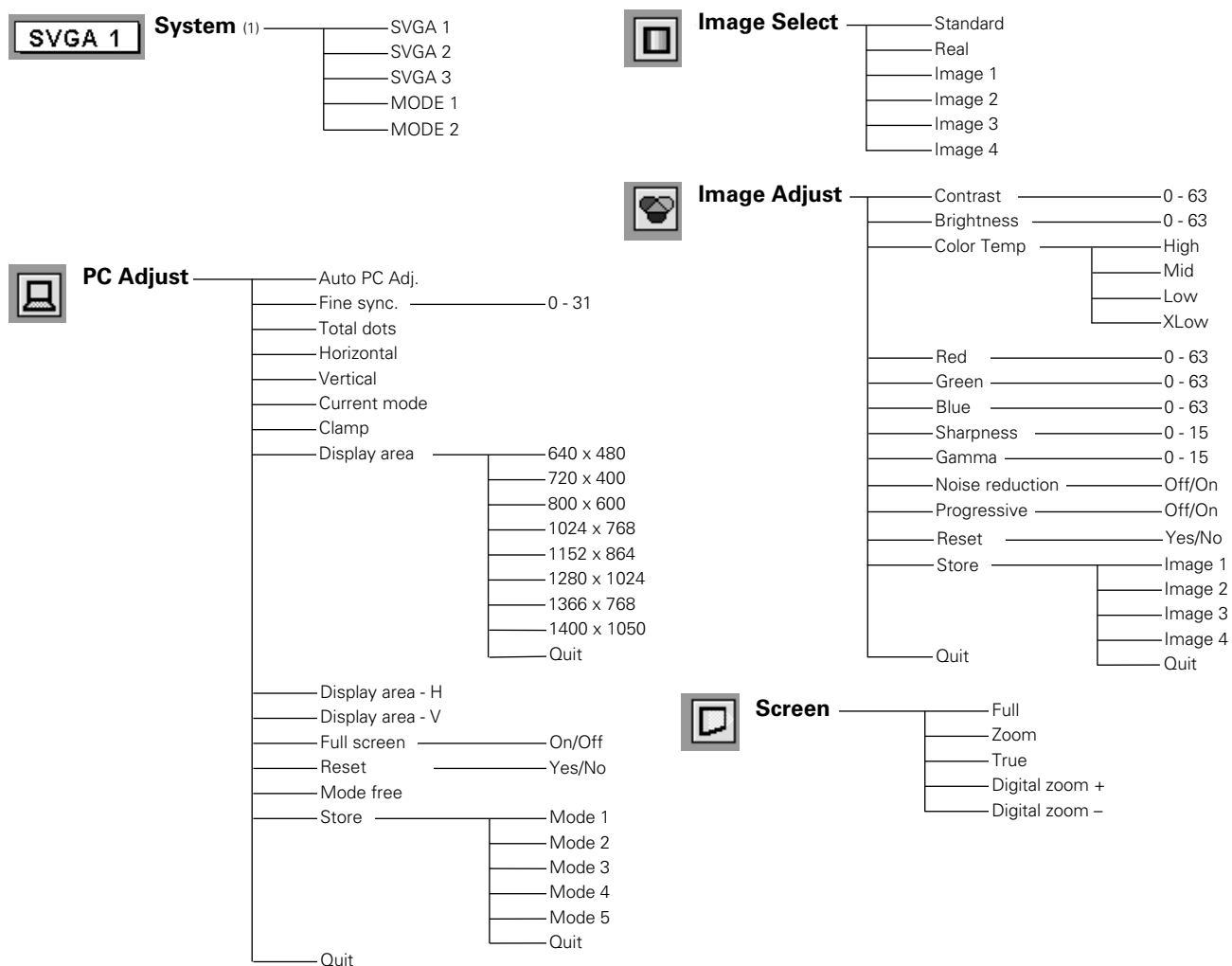
* When the life of the projection lamp draws to an end, the LAMP REPLACE indicator lights yellow. When this indicator lights yellow, replace the projection lamp with a new one promptly. Reset the Lamp Replace Counter after replacement of the lamp.

MENU TREE

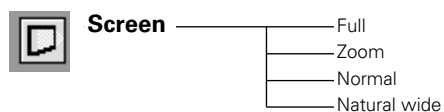
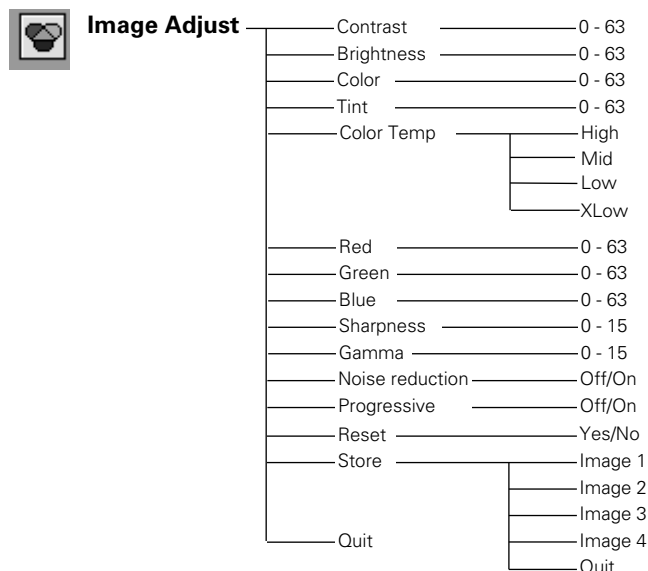
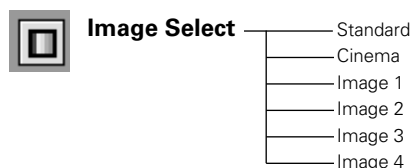
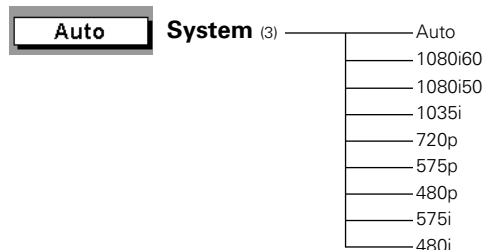
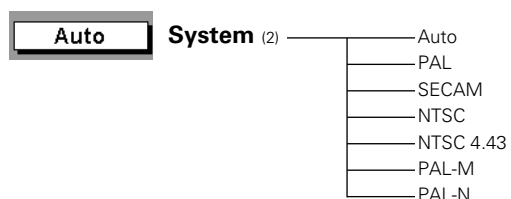
Computer Input/Video Input



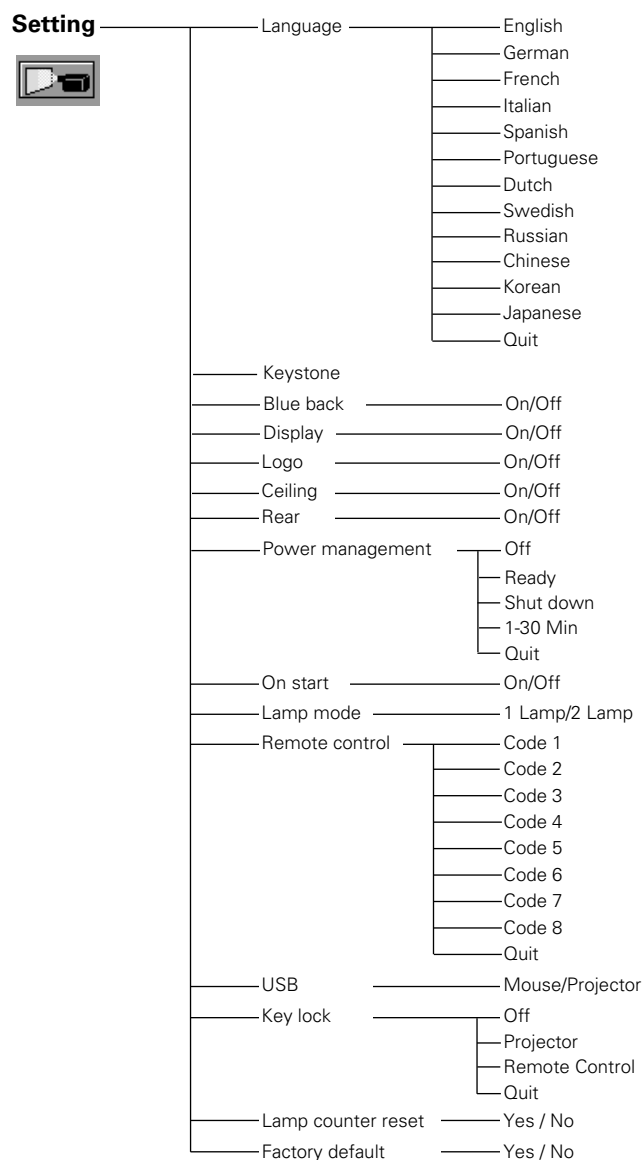
Computer Input



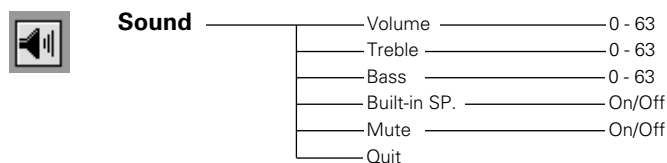
Video Input



Computer Input/Video Input



Computer Input/Video Input



TECHNICAL SPECIFICATIONS

Projector Type	Multi-media Projector
Dimensions (W x H x D)	17.3" x 9.1" x 23.8" (439 mm x 230 mm x 605.6 mm)
Net Weight	46.3 lbs (21 kg)
LCD Panel System	1.21" TFT Active Matrix type, 3 panels
Panel Resolution	1366 x 768 dots
Number of Pixels	3,147,264 (1366 x 768 x 3 panels)
Color System	PAL, SECAM, NTSC, NTSC4.43, PAL-M and PAL-N
High Definition TV Signal	480i, 480p, 575i, 575p, 720p, 1035i, 1080i-50 and 1080i-60
Motorized Lens Shift	Up and Down
Scanning Frequency	H-sync. 15 ~ 120 KHz, V-sync. 50 ~ 120 Hz
Horizontal Resolution	800 TV lines
Projection Lamp	250 watt type x 2
Input 1 Jacks	DVI-I Terminal (Digital/Analog), RCA Type (Audio R and L) and DIN 8-pin (Control port)
Input 2 Jacks	BNC Type x 5 (R/Pr, G/Y, B/Pb, H/HV and V), RCA Type (Audio R and L) and DIN 8-pin (Control port)
Input 3 Jacks	BNC Type x 2 (VIDEO/Y, C), RCA Type (Audio R and L) and DIN 4-pin (S-Video)
Other Jacks	Serial port in (DB 9), Serial port out (DB 9), USB port, Audio Monitor out (RCA Type R and L) and Wired Remote Jack
Built-in Speakers	INT. SP. Stereo (R and L), 3 watt RMS (T.H.D. 10%)
Feet Adjustment	0° to 6.9°
Voltage and Power Consumption	AC 100 ~ 120 V (8.0 A Max. Ampere), 50 / 60 Hz (The U.S.A and Canada) AC 200 ~ 240 V (4.0 A Max. Ampere), 50 / 60 Hz (Continental Europe)
Operating Temperature	41 °F ~ 95 °F (5 °C ~ 35 °C)
Storage Temperature	14 °F ~ 140 °F (-10 °C ~ 60 °C)
Remote Control Transmitter	Power Source : AA or R06 Type x 2 Operating Range : 16.4' (5m) / ±30° Dimensions : 2.0" x 1.4" x 7.6" (50mm x 36mm x 193mm) Net Weight : 0.35 lbs (160 g) (including batteries) Laser Pointer : Class II Laser (Max. Output : 1mW / Wave length : 650±20nm)
Accessories	Owner's Manual (Print and CD-ROM) AC Power Cord Wireless/Wired Remote Control Transmitter and Batteries Remote Control Cable DVI-VGA Cable and DVI Cable 3 Types Control Cable (For PS/2, Serial and ADB port) 3 Types Light-Block Sheet (For option lens) 2 Types Lens Attachment (For option lens) Protective Dust Cover Real Color Manager

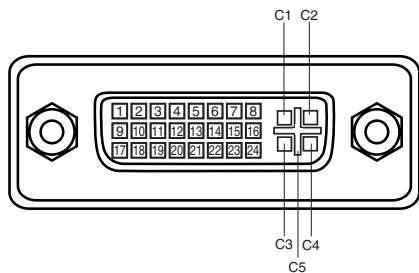
- Specifications are subject to change without notice.
- LCD panels are manufactured to the highest possible standards. At least 99.99% of the pixels are effective, however a tiny fraction of the pixels (0.01% or less) may be ineffective by the characteristics of the LCD panels.

CONFIGURATIONS OF TERMINALS

DVI-I TERMINAL (DIGITAL/ANALOG)

This terminal accepts only Digital (TMDS) or Analog (RGB) output signal. Connect display output terminal of computer to this terminal with DVI cable (supplied).

Pin Configuration



C1	Analog Red Input
C2	Analog Green Input
C3	Analog Blue Input
C4	Analog Horiz. sync
C5	Analog Ground (R/G/B)

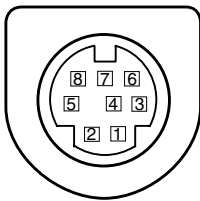
1	T.M.D.S. Data2-	9	T.M.D.S. Data1-	17	T.M.D.S. Data0-
2	T.M.D.S. Data2+	10	T.M.D.S. Data1+	18	T.M.D.S. Data0+
3	T.M.D.S. Data2 Shield	11	T.M.D.S. Data1 Shield	19	T.M.D.S. Data0 Shield
4	No Connect	12	No Connect	20	No Connect
5	No Connect	13	No Connect	21	No Connect
6	DDC Clock	14	+5V Power	22	T.M.D.S. Clock Shield
7	DDC Data	15	Ground (for +5V)	23	T.M.D.S. Clock+
8	Analog Vert. sync	16	Hot Plug Detect	24	T.M.D.S. Clock-

CONTROL PORT CONNECTOR

Terminal : Mini DIN 8-PIN

Connect control port (PS/2, Serial or ADB port) on your computer to this terminal with Control Cable (supplied).

Pin Configuration

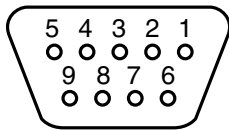


	PS/2	Serial	ADB
1	----	R X D	----
2	CLK	----	ADB
3	DATA	----	----
4	GND	GND	GND
5	----	RTS	----
6	----	T X D	----
7	GND	GND	----
8	----	GND	GND

SERIAL PORT IN/OUT TERMINAL

Connect serial port output terminal of computer to this terminal with Serial Cable (not supplied).

Pin Configuration

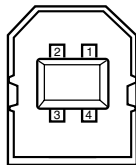


1	----
2	RxD
3	TxD
4	----
5	Ground
6	----
7	----
8	----
9	----

USB PORT TERMINAL

Pin Configuration

Connect USB port output terminal of computer or peripheral equipment to this terminal with USB port Cable (not supplied).



1	Vcc
2	- Data
3	+ Data
4	Ground



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LCD PROJECTOR

LENS REPLACEMENT AND INSTALLATION PROCEDURES

CAUTION

When installing or replacing the Projection Lens, refer to this manual. For installation of the lens, use the parts designated in the manual. Do not use the installation manual and Light-Block Sheets in the lens package.

Check the following parts supplied to this projector.

- LIGHT-BLOCK SHEETS 3 pcs.
- LENS ATTACHMENT (01) 1 pce.
- LENS ATTACHMENT (02) 1 pce.
- LIGHT-BLOCK SHEET MOUNTING BASE 1 pce.
- LIGHT-BLOCK SHEET MOUNTING SCREWS 2 pcs.

AVAILABLE LENS

This projector applies the Projection Lenses listed below. Use the suitable lens for where the projector is used.

Model NO.	Type	Zoom	Focus
LNS-W01 LNS-W01Z	Fixed Short Throw Lens	Fixed	Manual
LNS-T01 LNS-T01Z	Fixed Long Throw Lens	Fixed	Manual
LNS-T02	Long Throw Zoom Lens	Motor Driven	Motor Driven
LNS-T03	Long Throw Zoom Lens	Manual	Manual
LNS-W02 LNS-W02Z	Short Throw Zoom Lens I	Motor Driven	Motor Driven
LNS-W03	Short Throw Lens II	Fixed	Manual
LNS-M01 LNS-M01Z	Semi-Long Throw Zoom Lens	Motor Driven	Motor Driven
LNS-S01	Standard Zoom Lens I	Motor Driven	Motor Driven
LNS-S02 LNS-S02Z	Standard Zoom Lens II	Motor Driven	Motor Driven
LNS-S03	Standard Zoom Lens III	Motor Driven	Motor Driven
LNS-W04	Wide Zoom Lens	Motor Driven	Motor Driven
LNS-W05	Wide Zoom Lens	Motor Driven	Motor Driven
LNS-W06	Wide Zoom Lens	Motor Driven	Motor Driven
LNS-W07	Fixed Short Throw Lens	Fixed	Manual

NOTES ON LENS INSTALLATION

- Lens installation and replacement should be made by the qualified service personnel.
- Be sure to install the lens following this procedure precisely.
- Do not touch or remove any parts except the lens and related parts. It may result in malfunctions, electrical shock, fire hazard or other accidents.
- Before installing or replacing the lens, check that the Model No. of the Projection Lens matches to the projector.
- When moving or setting up the projector, be sure to replace the Lens Cover to protect the surface. And be careful not to hold or subject the lens to strong forces. It may damage the lens, cabinet, or mechanical parts.
- For details of the lens and installation, contact the sales dealer where you purchased the projector.

LENS REPLACEMENT AND INSTALLATION PROCEDURE

NOTE: The installation procedure and needed parts for lens installation depend on the type of the Projection Lens. Check the Model No. of the Projection Lens and be sure to install or replace the lens following the procedure below.

- 1 Remove the Lower Lens Cover. Remove the two (2) Screws **A**. Push the part **B** and pull the Lower Lens Cover down. (See Fig. 1.)

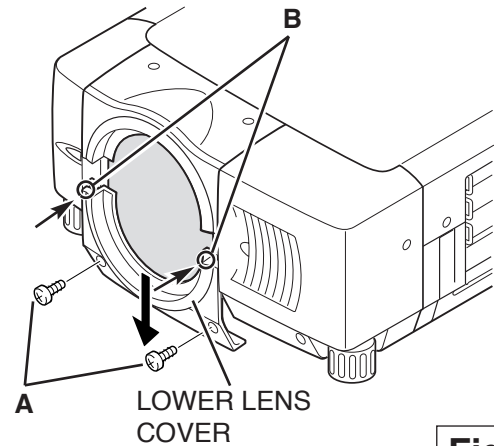


Fig-1

- 2 Remove the four (4) Screws **C**. Pull the Upper Lens Cover toward the front and remove. (See Fig. 2.)

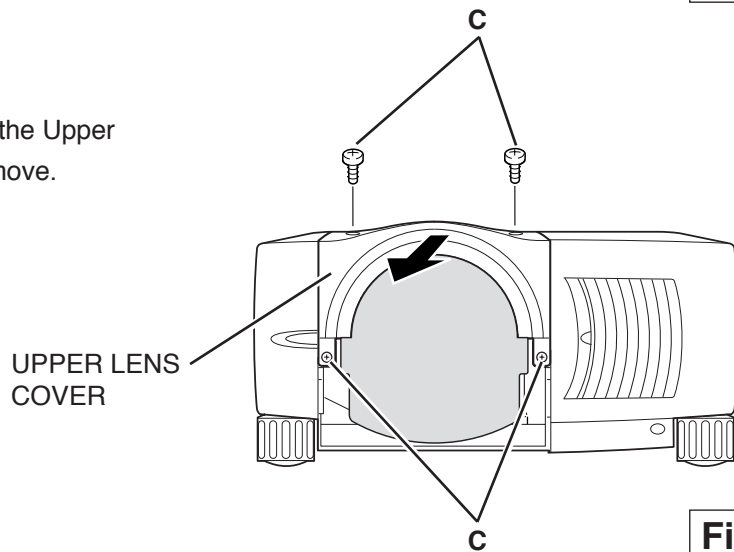


Fig-2

E

- 3 Remove the two (2) Screws **D** and the Cover Plate on the back of the Upper Lens Cover. (See Fig. 3.)

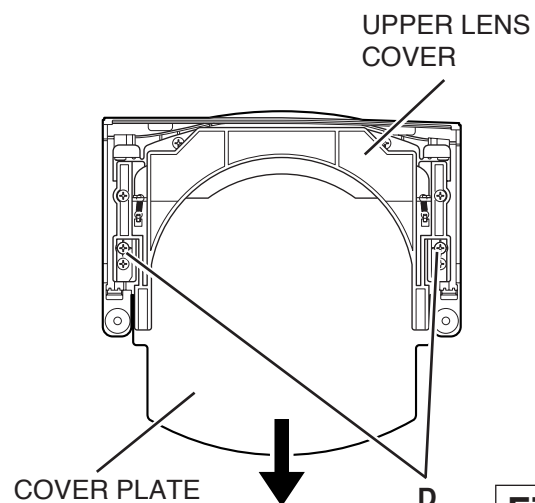


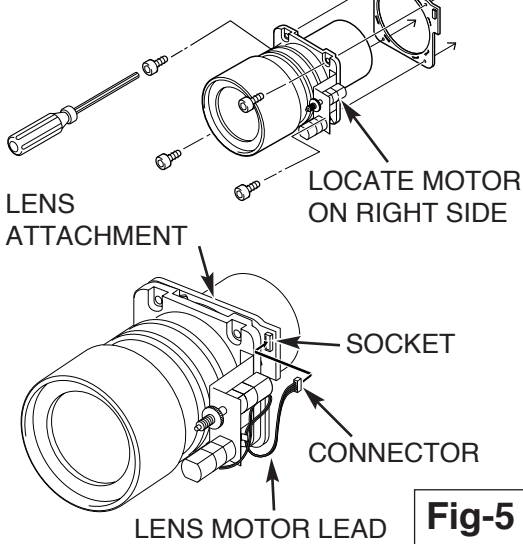
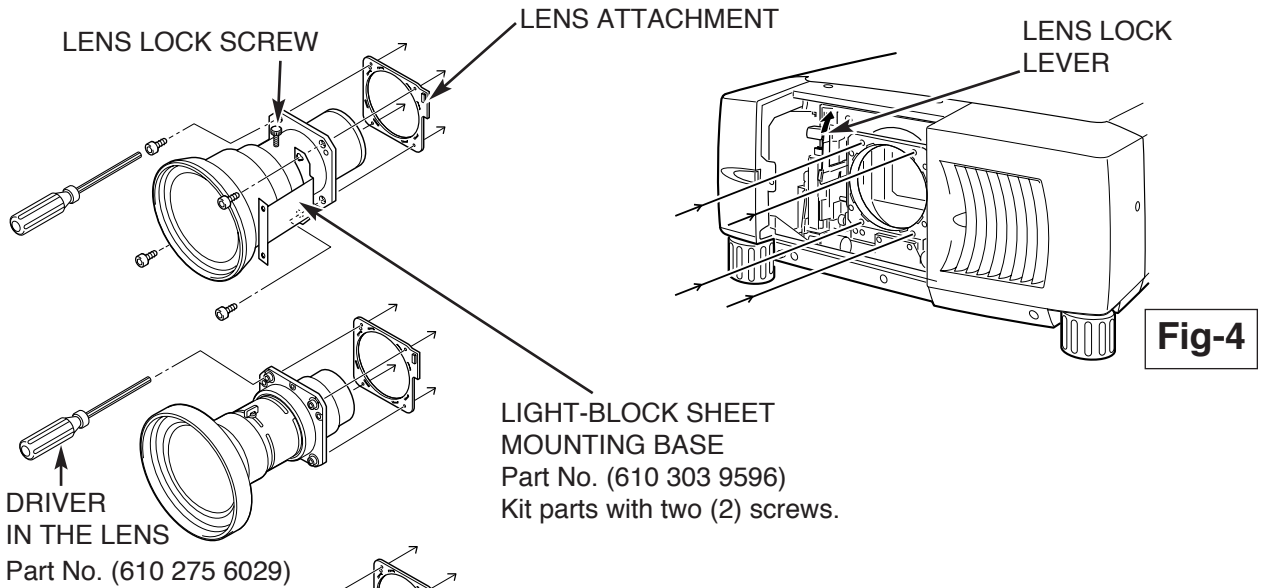
Fig-3

4

Replace the Lens Cap on the rear (mounting side) of the Projection Lens and mount a lens on the Lens Attachment with four (4) Screws. (Use the screws attached on the lens.)

Connect the Lens Motor Lead connector to the socket on the right-top of the Lens Attachment (Motor Driven Lens only). See Fig. 5.

When installing the LNS-W01, LNS-W01Z, LNS-T01, LNS-T01Z, be sure to mount the lens and the Light-Block Sheet Mounting Base on the Lens Mounting Bracket. (See Fig. 8)



Lens attachments For each lens.

Lens Model No.	LENS ATTACHMENT TYPE No. (PART No.)
LNS-W01, LNS-W01Z, LNS-W02Z, LNS-W03, LNS-T01, LNS-T01Z, LNS-T02, LNS-S02, LNS-S02Z, LNS-S03, LNS-M01Z, LNS-W04, LNS-W05, LNS-W06, LNS-W07	Lens Attachment 01 POA-LNA-01 (610 303 8742)
LNS-W02, LNS-M01, LNS-S01	Lens Attachment 02 POA-LNA-02 (610 304 6228)

5

Grasp (release lock) the Lens Lock Lever and turn it fully upward. (See Fig. 6.)

Install the lens into the projector. Grasp the Lens Lock Lever and turn the Lever fully downward until lever is Locked (clicked position) properly. (See Fig. 7.)

When installing the Motor Driven Lens, be sure to mount the Lens Motor on the right side. (See Fig. 5.)

After installing the lens, make sure the lens is not loose and properly installed.

LENS LOCK RELEASE

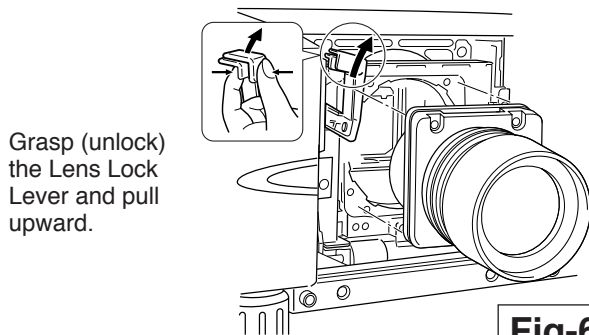


Fig-6

LENS LOCK

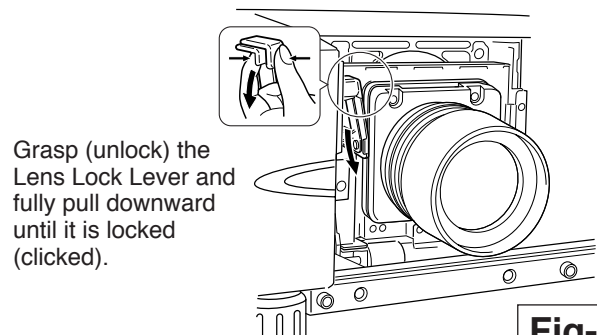


Fig-7

6

This projector has three Light-Block Sheets. Use the Light-Block Sheet corresponding with the lens. (Refer to the list below.)

Set the Light-Block Sheet through the lens.

Make sure the shape of the Light-Block Sheets are correct and be sure to set them as shown in the Fig. 8.

NOTE:

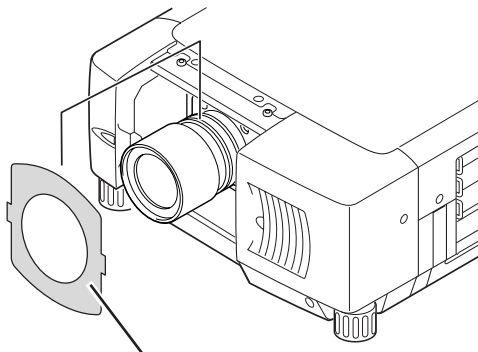
- Be sure to set each Light-Block Sheet as shown in Fig. 8.
- Make sure the mark (TOP and BACK) on the Light-Block Sheets are correct and set them properly.

Light-Block Sheets for each lens.

Lens Model No.	Type No. (Part No.)
LNS-S02, LNS-S02Z, LNS-W04	TYPE FD1 (610 322 8051)
LNS-M01, LNS-T02, LNS-W02, LNS-M01Z, LNS-W02Z, LNS-S01, LNS-W03, LNS-W07	TYPE FE1 (610 322 7269)
LNS-W01, LNS-T01, LNS-W01Z, LNS-T01Z, LNS-S03, LNS-W06, LNS-W05	TYPE FF1 (610 322 7788) Not include Light-Block Sheet Mounting Base and screws.

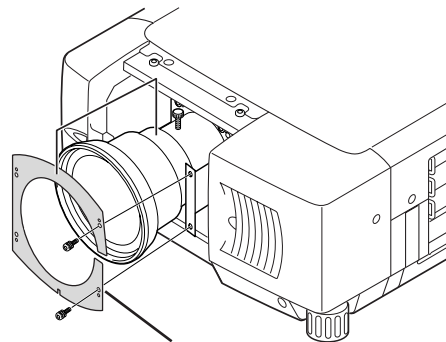
For Models

LNS-W01, LNS-W01Z, LNS-T01, LNS-T01Z



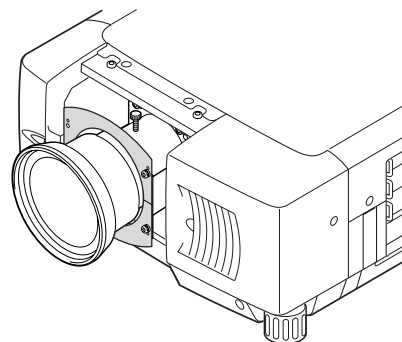
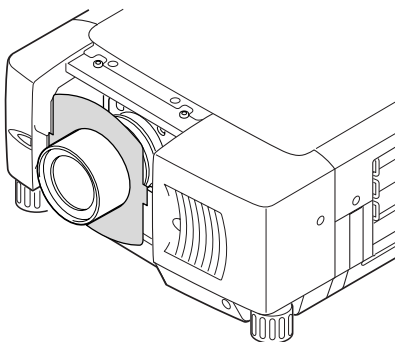
LIGHT BLOCK SHEET

Make sure the sheet figure is correct and put in proper position.



LIGHT BLOCK SHEET

Make sure the sheet figure is correct and put in proper position.



Mount the Light-Block Sheet with two (2) screws.

Fig-8

E

- 7** Adjust the focus of the Projection Lens. (LNS-W01, LNS-W01Z, LNS-T01, LNS-T01Z, LNS-W03, and LNS-W07 only.) Set up the projector and project an image on the screen. Loosen the Focus Lens Lock Screw and rotate the Projection Lens to obtain a proper focus. After adjusting the focus, be sure to lock the Projection Lens with the Focus Lens Lock Screw securely. (See Fig. 5.) Adjust the focus of the Projection Lens MODEL LNS-W03 by following the Focus Adjustment on page 6.
- 8** Replace the Upper Lens Cover. Fix the Upper Lens Cover with four (4) Screws **C**. (See Fig.2.) Except the Model LNS-W01, LNS-W01Z, LNS-T01, and LNS-T01Z, proceed with the following. Slide the Light-Block Sheets into the guide of the Upper Lens Cover and set them in front of the flap. (See Fig. 9.)
- 9** Replace the Lower Lens Cover. Fix the Lower Lens Cover with two (2) Screws **A**. (See Fig.1.) Except the Model LNS-W01, LNS-W01Z, LNS-T01, and LNS-T01Z, proceed with the following. Slide the Light-Block Sheets into the guide of the Lower Lens Cover and set them in front of the flap. (See Fig.9.)
- 10** Turn the projector on and operate the Lens shift, Zoom, and Focus fully to check the Light-Block Sheets. If the Light-Block Sheets interfere with those operations, check if the Light-Block Sheets are set properly.

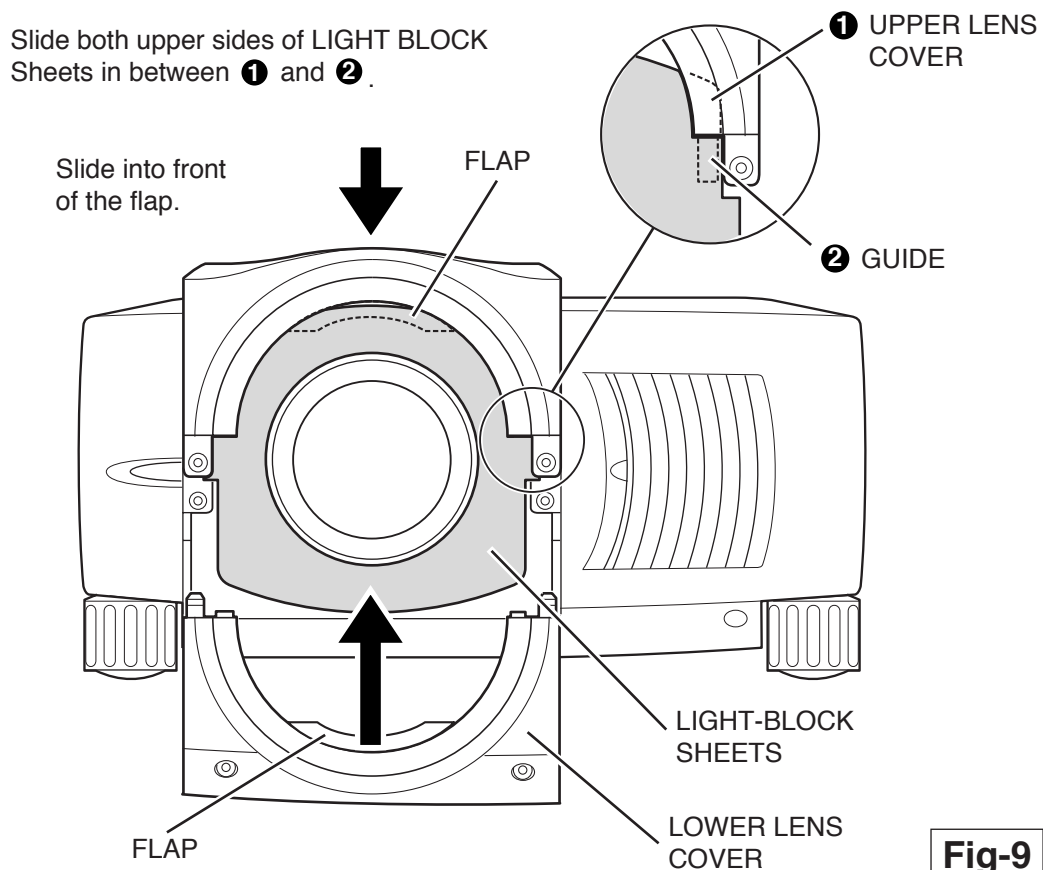


Fig-9

FOCUS ADJUSTMENT (For Model LNS-W03 and LNS-W07)

Set up the projector and project image on the screen.

1. Loosen the Focus Lock Screw on the projection lens.
2. Rotate the projection lens to obtain a proper focus on the center area of the screen.

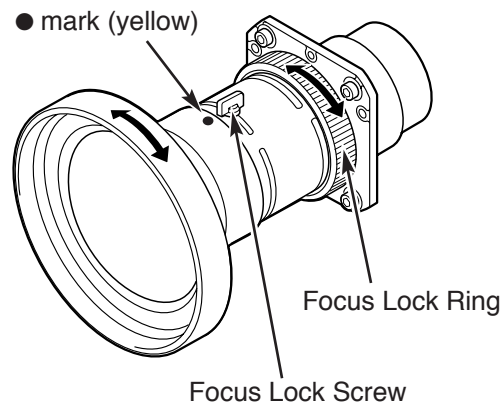
When the distance of the screen and lens is one (1) meter, set the ● mark (yellow) of the lens on the Focus Lock Screw position.

3. Lock the Focus Lock Screw securely.

When the proper focus is not observed at the outer area of the screen, proceed with the following adjustments.

4. Loosen the Focus Lock Ring on the projection lens. (Turn the Lock Ring counter-clockwise.)
5. Rotate the lens to obtain a proper focus on the outer area of the screen.
6. Lock the Focus Lock Ring securely. (Turn the Lock Ring clockwise.)

If the proper focus is not observed over the entire screen, repeat the above adjustments 1-6.



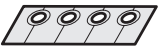
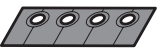

Correcting the focus

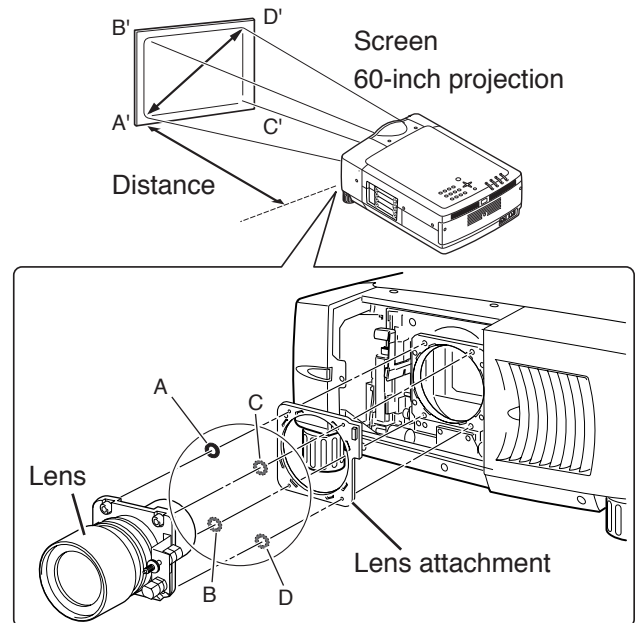
When the lens is attached to the projector and images are being projected on the screen, the peripheral focus may be out of focus in some localized areas. If this happens, insert the accessory in between the lens attachment and the lens to correct the focus.

Inserting the spacers corrects the distance for the best diagonal focus at the screen.

The corrected distance is determined by the thickness of the spacers that are used. As a guide, the distance is adjusted by approximately 30 mm for each 0.1 mm thickness of the spacers.

There are three types of spacers provided, and there are four of each spacer type. Use these spacers to correct the distance as required.

	Spacer "1" Color: Clear Thickness: 0.1 mm	Correction distance 30 mm/for 60-inch projection
	Spacer "2" Color: Black Thickness: 0.2 mm	Correction distance 60 mm/for 60-inch projection
	Spacer "1" Color: Cream Thickness: 0.3 mm	Correction distance 90 mm/for 60-inch projection



BE SURE TO CHECK FOR SAFETY

After installing or replacing the lens, be sure to check the following for safety.



1. Check if the lens is securely fixed with the screws.
2. Check if no wiring is damaged or tangled on the gear of the lens motor or the other mechanical parts.
3. Check if no part is missing and no mounting part is loose.

Some parts are not used for installation or replacement. Keep these parts for later use.

NOTE: Figures in this manual may differ from the actual product.



SPECIFICATIONS (Throw distance, screen size, and distance of lens shift.)

NOTE: Following table shows approximate measurement. Actual measurement depends on lens and projectors.

Model No.		Zoom	16:9 SCREEN SIZE (inch) AND THROW DISTANCE (m)														LENS SHIFT/ CENTER RATIO	
			30"	60"	80"	100"	120"	150"	180"	200"	250"	300"	350"	400"	500"	600"		
																	H1	H2
LNS-S02	LNS-S02Z	MIN	2.2	4.7	6.4	8.0	9.7	12.1	14.6	16.3	20.4	24.5	28.6	32.8	41.0	49.3	-3	10
		MAX	1.7	3.6	4.9	6.2	7.5	9.4	11.3	12.5	15.7	18.9	22.1	25.3	31.6	38.0		
LNS-W02	LNS-W02Z	MIN	1.6	3.3	4.4	5.5	6.7	8.4	10.1	11.2	14.1	16.9	19.8	22.6	28.3	34.0	-1	6
		MAX	1.3	2.6	3.4	4.3	5.2	6.5	7.8	8.7	10.9	13.0	15.2	17.4	21.8	26.2		
LNS-T02		MIN	5.7	11.3	15.0	18.7	22.5	28.0	33.6	37.3	46.6	55.9	65.3	74.6	93.2	111.8	-1	6
		MAX	4.2	8.2	10.9	13.5	16.2	20.2	24.1	26.8	33.4	40.0	46.7	53.3	66.6	79.9		
LNS-M01	LNS-M01Z	MIN	4.1	8.2	10.9	13.6	16.3	20.4	24.4	27.1	33.9	40.7	47.5	54.2	67.8	81.4	-1	6
		MAX	3.3	6.4	8.5	10.6	12.7	15.8	19.0	21.1	26.3	31.5	36.8	42.0	52.5	63.0		
LNS-S01		MIN	2.6	5.3	7.1	8.9	10.7	13.4	16.1	17.9	22.4	26.9	31.4	35.9	44.9	53.9	-3	10
		MAX	1.6	3.3	4.5	5.6	6.7	8.4	10.1	11.2	14.0	16.8	19.6	22.5	28.1	33.7		
LNS-S03		MIN	-----	-----	8.5	10.7	12.9	16.2	19.5	21.7	27.2	32.6	38.1	43.6	54.5	65.5	-1	6
		MAX	-----	-----	6.4	8.0	9.6	12.1	14.5	16.1	20.2	24.3	28.3	32.4	40.5	48.6		
LNS-W01	LNS-W01Z	NONE	1.0	2.2	2.9	3.7	4.4	5.5	6.7	7.4	9.3	11.2	13.0	14.9	18.6	22.4	-1	6
LNS-T01	LNS-T01Z	NONE	6.3	12.7	16.9	21.1	25.4	31.8	38.1	42.4	53.0	63.6	74.2	84.8	106.0	127.2	-1	6
LNS-W03		NONE	0.7	1.4	1.9	2.4	2.9	3.7	4.5	5.0	6.2	7.5	8.7	10.0	12.5	15.0	1	1
LNS-W04		MIN	1.7	3.6	4.9	6.2	7.4	9.3	11.2	12.5	15.7	18.8	22.0	25.2	31.5	37.8	0	10
		MAX	1.6	2.8	3.8	4.7	5.7	7.2	8.6	9.6	12.0	14.4	16.9	19.3	24.1	29.0		
LNS-W05		MIN	-----	2.3	3.2	4.0	4.8	6.1	7.3	8.1	10.2	12.3	14.3	16.4	20.5	24.7	0	10
		MAX	-----	1.7	2.3	2.9	3.5	4.4	5.3	5.9	7.4	8.8	10.3	11.8	14.8	17.7		
LNS-W06		MIN	1.3	2.7	3.7	4.6	5.6	7.0	8.5	9.4	11.8	14.2	16.6	19.0	23.8	28.5	0	10
		MAX	1.2	2.2	2.9	3.7	4.4	5.5	6.6	7.3	9.2	11.0	12.8	14.7	18.4	22.0		
LNS-W07		NONE	-----	1.0	1.3	1.7	2.0	2.6	3.1	3.4	4.3	5.2	6.0	6.9	8.6	10.4	1	1
LNS-T03		MIN	8.5	16.7	22.1	27.6	33.0	41.2	49.4	54.8	68.5	82.1	95.8	109.4	136.7	163.9	-1	6
		MAX	6.0	11.5	15.2	19.0	22.7	28.2	33.8	37.5	46.8	56.1	65.3	74.7	93.2	111.7		

LENS SHIFT (UP/DOWN)

