

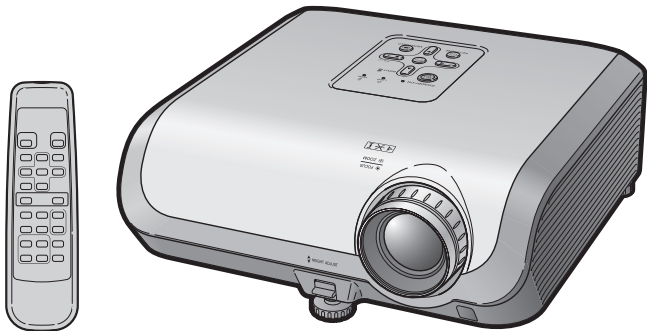
# SHARP®

## MULTIMEDIA PROJECTOR

MODEL

# XG-MB67X-L

## OPERATION MANUAL



Introduction

Quick Start

Setup

Connections

Basic  
Operation

Useful  
Features

Appendix



## **IMPORTANT**

- For your assistance in reporting the loss or theft of your Projector, please record the Model and Serial Number located on the bottom of the projector and retain this information.
- Before recycling the packaging, please ensure that you have checked the contents of the carton thoroughly against the list of “Supplied accessories” on page **11**.

**Model No.:**

**Serial No.:**

**SPECIAL NOTE FOR USERS IN THE U.K.**

The mains lead of this product is fitted with a non-rewireable (moulded) plug incorporating a 10A fuse. Should the fuse need to be replaced, a BSI or ASTA approved BS 1362 fuse marked  or  and of the same rating as above, which is also indicated on the pin face of the plug, must be used.

Always refit the fuse cover after replacing the fuse. Never use the plug without the fuse cover fitted.

In the unlikely event of the socket outlet in your home not being compatible with the plug supplied, cut off the mains plug and fit an appropriate type.

**DANGER:**

The fuse from the cut-off plug should be removed and the cut-off plug destroyed immediately and disposed of in a safe manner.

Under no circumstances should the cut-off plug be inserted elsewhere into a 13A socket outlet, as a serious electric shock may occur.

To fit an appropriate plug to the mains lead, follow the instructions below:

**WARNING:**


THIS APPARATUS MUST BE EARTHED.

**IMPORTANT:**

The wires in this mains lead are coloured in accordance with the following code:

Green-and-yellow	: Earth
Blue	: Neutral
Brown	: Live

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug proceed as follows:

- The wire which is coloured green-and-yellow must be connected to the terminal in the plug which is marked by the letter E or by the safety earth symbol  or coloured green or green-and-yellow.
- The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.
- The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

IF YOU HAVE ANY DOUBT, CONSULT A QUALIFIED ELECTRICIAN.

The supplied CD-ROM contains operation instructions in English, German, French, Swedish, Spanish, Italian, Dutch, Portuguese, Chinese and Korean. Carefully read through the operation instructions before operating the projector.

Die mitgelieferte CD-ROM enthält Bedienungsanleitungen in Englisch, Deutsch, Französisch, Schwedisch, Spanisch, Italienisch, Niederländisch, Portugiesisch, Chinesisch und Koreanisch. Bitte lesen Sie die Bedienungsanleitung vor der Verwendung des Projektors sorgfältig durch.

Le CD-ROM fourni contient les instructions de fonctionnement en anglais, allemand, français, suédois, espagnol, italien, néerlandais, portugais, chinois et coréen. Veuillez lire attentivement ces instructions avant de faire fonctionner le projecteur.

Den medföljande CD-ROM-skivan innehåller bruksanvisningar på engelska, tyska, franska, svenska, spanska, italienska, holländska, portugisiska, kinesiska och koreanska. Läs noga igenom bruksanvisningen innan projektorn tas i bruk.

El CD-ROM suministrado contiene instrucciones de operación en inglés, alemán, francés, sueco, español, italiano, holandés, portugués, chino y coreano. Lea cuidadosamente las instrucciones de operación antes de utilizar el proyector.

Il CD-ROM in dotazione contiene istruzioni per l'uso in inglese, tedesco, francese, svedese, spagnolo, italiano, olandese, portoghese, cinese e coreano. Leggere attentamente le istruzioni per l'uso prima di usare il proiettore.

De meegeleverde CD-ROM bevat handleidingen in het Engels, Duits, Frans, Zweeds, Spaans, Italiaans, Nederlands, Portugees, Chinees en Koreaans. Lees de handleiding zorgvuldig door voor u de projector in gebruik neemt.

O CD-ROM fornecido contém instruções de operação em Inglês, Alemão, Francês, Sueco, Espanhol, Italiano, Holandês, Português, Chinês e Coreano. Leia cuidadosamente todas as instruções de operação antes de operar o projetor.

附送之CD-ROM光碟中，有用英文、德文、法文、瑞典文、西班牙文、意大利文、荷蘭文、葡萄牙文、中文和韓國文所寫的使用說明書。在操作本投影機之前，請務必仔細閱讀整本使用說明書。

제공된 CD-ROM에는 영어, 독일어, 프랑스어, 스웨덴어, 스페인어, 이탈리아어, 네덜란드어, 포르투갈어, 중국어, 그리고 한국어로 작성된 조작 설명서가 포함되어 있습니다. 프로젝터를 조작하기 전에 조작 지침을 상세하게 숙지하십시오.

Before using the projector, please read this operation manual carefully.

# Introduction

ENGLISH

There are two important reasons for prompt warranty registration of your new SHARP Projector, using the REGISTRATION CARD packed with the projector.

## 1. WARRANTY

This is to assure that you immediately receive the full benefit of the parts, service and labor warranty applicable to your purchase.

## 2. CONSUMER PRODUCT SAFETY ACT

To ensure that you will promptly receive any safety notification of inspection, modification, or recall that SHARP may be required to give under the 1972 Consumer Product Safety Act, PLEASE READ CAREFULLY THE IMPORTANT "LIMITED WARRANTY" CLAUSE.



U.S.A. ONLY

**WARNING:** High brightness light source. Do not stare into the beam of light, or view directly. Be especially careful that children do not stare directly into the beam of light.



**WARNING:** To reduce the risk of fire or electric shock, do not expose this product to rain or moisture.

See bottom of projector.

	<b>CAUTION</b> RISK OF ELECTRIC SHOCK. DO NOT REMOVE SCREWS EXCEPT SPECIFIED USER SERVICE SCREW.	
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER. NO USER-SERVICEABLE PARTS EXCEPT LAMP UNIT. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.		



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk or electric shock to persons.



The exclamation point within a triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

**WARNING:** FCC Regulations state that any unauthorized changes or modifications to this equipment not expressly approved by the manufacturer could void the user's authority to operate this equipment.

U.S.A. ONLY

## INFORMATION

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the 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 operation 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.

U.S.A. ONLY

The enclosed computer cable must be used with the device. The cable is provided to ensure that the device complies with FCC Class A verification.

U.S.A. ONLY

### **WARNING:**

This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

### **WARNING:**

The cooling fan in this projector continues to run for about 90 seconds after the projector enters standby mode. During normal operation, when putting the projector into standby mode always use the STANDBY/ON button on the projector or the STANDBY button on the remote control. Ensure the cooling fan has stopped before disconnecting the power cord.

**DURING NORMAL OPERATION, NEVER TURN THE PROJECTOR OFF BY DISCONNECTING THE POWER CORD. FAILURE TO OBSERVE THIS WILL RESULT IN PREMATURE LAMP FAILURE.**

### **PRODUCT DISPOSAL**

This projector utilizes tin-lead solder, and a pressurized lamp containing a small amount of mercury. Disposal of these materials may be regulated due to environmental considerations. For disposal or recycling information, please contact your local authorities or, if you are located in the United States of America, the Electronic Industries Alliance: [www.eiae.org](http://www.eiae.org).

### **Caution Concerning Lamp Replacement**

See "Replacing the Lamp" on page **57**.

This SHARP projector uses a DMD panel. This very sophisticated panel contains 786,432 pixels (micromirrors). As with any high technology electronic equipment such as large screen TVs, video systems and video cameras, there are certain acceptable tolerances that the equipment must conform to.

This unit has some inactive pixels within acceptable tolerances which may result in inactive dots on the picture screen. This will not affect the picture quality or the life expectancy of the unit.

Authorized representative responsible for the European Union Community Market

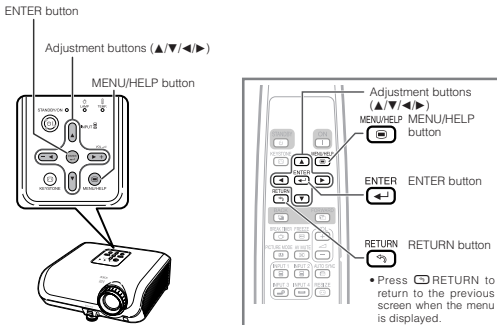
SHARP ELECTRONICS (Europe) GmbH  
Sonninstraße 3, D-20097 Hamburg

E.U. ONLY

# How to Read this Operation Manual

- In this operation manual, the illustration and the screen display are simplified for explanation, and may differ slightly from the actual display.

## Using the Menu Screen



Buttons used in this operation

## Menu Selections (Adjustments)

Example: Adjusting "Bright".

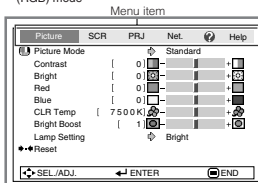
- This operation can also be performed by using the buttons on the projector.

**1** Press **MENU**.

- The "Picture" menu screen for the selected input mode is displayed.

Example: "Picture" screen menu for INPUT 1 (RGB) mode

**2** Press **▶** or **◀** and select "Picture" to adjust.



Button used in this step

On-screen display

40

**Info** .....Indicates safeguards for using the projector.

**Note** .....Indicates additional information for setting up and operating the projector.

## For Future Reference

Maintenance

➔ P. 52

Troubleshooting

➔ PP. 61 and 62

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# IMPORTANT SAFEGUARDS

**CAUTION:** Please read all of these instructions before you operate this product and save these instructions for later use.

Electrical energy can perform many useful functions. This product has been engineered and manufactured to assure your personal safety. BUT IMPROPER USE CAN RESULT IN POTENTIAL ELECTRICAL SHOCK OR FIRE HAZARDS. In order not to defeat the safeguards incorporated in this product, observe the following basic rules for its installation, use and servicing.

## 1. Read Instructions

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

## 2. Retain Instructions

The safety and operating instructions should be retained for future reference.

## 3. Heed Warnings

All warnings on the product and in the operating instructions should be adhered to.

## 4. Follow Instructions

All operating and use instructions should be followed.

## 5. Cleaning

Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

## 6. Attachments

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

## 7. Water and Moisture

Do not use this product near water—for example, near a bath tub, wash bowl, kitchen sink, or laundry tub; in a wet basement; or near a swimming pool; and the like.

## 8. Accessories

Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the product. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.

## 9. Transportation

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



## 10. Ventilation

Slots and openings in the cabinet are provided for ventilation to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.

## 11. Power Sources

This product 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 supply to your home, consult your product dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instructions.

## 12. Grounding or Polarization

This product is provided with one of the following types of plugs. If the plug should fail to fit into the power outlet, please contact your electrician.

Do not defeat the safety purpose of the plug.

- Two-wire type (mains) plug.
- Three-wire grounding type (mains) plug with a grounding terminal.

This plug will only fit into a grounding type power outlet.

## 13. Power-Cord Protection

Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.

## 14. Lightning

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

**15. Overloading**

Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.

**16. Object and Liquid Entry**

Never push objects of any kind into this product through openings 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 product.

**17. Servicing**

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

**18. Damage Requiring Service**

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

- a. When the power-supply cord or plug is damaged.
- b. If liquid has been spilled, or objects have fallen into the product.
- c. If the product has been exposed to rain or water.
- d. If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions, as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to normal operation.
- e. If the product has been dropped or damaged in any way.
- f. When the product exhibits a distinct change in performance, this indicates a need for service.

**19. Replacement Parts**

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

**20. Safety Check**

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

**21. Wall or Ceiling Mounting**

This product should be mounted to a wall or ceiling only as recommended by the manufacturer.

**22. Heat**

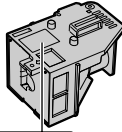
This product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

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- PC/AT is a registered trademark of International Business Machines Corporation in the United States.
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- Macintosh® is a registered trademark of Apple Computer, Inc. in the United States and/or other countries.
- All other company or product names are trademarks or registered trademarks of their respective companies.
- Some IC chips in this product include confidential and/or trade secret property belonging to Texas Instruments. Therefore you may not copy, modify, adapt, translate, distribute, reverse engineer, reverse assemble or discompile the contents thereof.

# Observe the following safeguards when setting up your projector.

## Caution concerning the lamp unit

- Potential hazard of glass particles if lamp ruptures. In case of lamp rupture, contact your nearest Sharp Authorized Projector Dealer or Service Center for replacement. See “Replacing the Lamp” on page 57.



## Caution concerning the setup of the projector

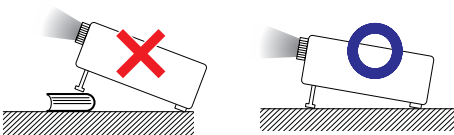
- For minimal servicing and to maintain high image quality, SHARP recommends that this projector be installed in an area free from humidity, dust and cigarette smoke. When the projector is subjected to these environments, the vents and lens must be cleaned more often. As long as the projector is regularly cleaned, use in these environments will not reduce the overall operation life of the unit. Internal cleaning should only be performed by a Sharp Authorized Projector Dealer or Service Center.

## Do not set up the projector in places exposed to direct sunlight or bright light.

- Position the screen so that it is not in direct sunlight or room light. Light falling directly on the screen washes out the colors, making viewing difficult. Close the curtains and dim the lights when setting up the screen in a sunny or bright room.

## Caution regarding placing of the projector

- Place the projector on a level site within the adjustment range (8 degrees) of the adjustment foot.



- After the projector is purchased, a faint smell from the vent may appear when the power is first turned on. This is normal and is not a malfunction. It will disappear after the projector is used for a while.

## When using the projector in high-altitude areas such as mountains (at altitudes of approximately 1,500 meters (4,900 feet) or more)

- When you use the projector in high-altitude areas with thin air, set “Fan Mode” to “High”. Neglecting this can affect the longevity of the optical system.

## Warning about placing the projector in a high position

- When placing the projector in a high position, make certain it is carefully secure to avoid personal injury caused by the projector falling down.

## Do not subject the projector to hard impact and/or vibration.

- Protect the lens so as not to hit or damage the surface of the lens.

## Rest your eyes occasionally.

- Continuously watching the screen for long hours will cause eye strain. Take regular breaks to rest your eyes.

## Avoid locations with extremes of temperature.

- The operating temperature of the projector is from 41°F to 95°F (+5°C to +35°C).
- The storage temperature of the projector is from -4°F to 140°F (-20°C to +60°C).

## Do not block the exhaust and intake vents.

- Allow at least 11 <sup>13</sup>/<sub>16</sub> inches (30 cm) of space between the exhaust vent and the nearest wall or obstruction.
- Be sure that the intake vent and the exhaust vent are not obstructed.
- If the cooling fan becomes obstructed, a protection circuit will automatically put the projector into standby mode to prevent overheating damage. This does not indicate a malfunction. (See pages 55 and 56.) Remove the projector power cord from the wall outlet and wait at least 10 minutes. Place the projector where the intake and exhaust vents are not blocked, plug the power cord back in and turn on the projector. This will return the projector to the normal operating condition.

- When turning off the projector, the cooling fan runs to decrease the internal temperature for a while. Unplug the power cord after the cooling fan stops. The period the cooling fan runs will vary, depending on the circumstances and the internal temperature.

### Caution regarding usage of the projector

- When using the projector, take care not to subject it to hard impact and/or vibration, as this can result in damage. Take extra care with the lens. Before moving the projector, make certain you unplug the power cord from the wall outlet, and disconnect any other cables connected to it.
- Do not carry the projector by holding the lens.
- When storing the projector, ensure you attach the lens cap. (See page 12).
- Do not expose the projector to direct sunlight or place next to heat sources. Doing so may affect the cabinet color or cause deformation of the plastic cover.

### Other connected equipment


- When connecting a computer or other audio-visual equipment to the projector, make the connections AFTER unplugging the power cord of the projector from the AC outlet and turning off the equipment to be connected.
- Please read the operation manuals of the projector and the equipment to be connected for instructions on how to make the connections.

### Using the projector in other countries

- The power supply voltage and the shape of the plug may vary depending on the region or country you are using the projector in. When using the projector overseas, make sure you use an appropriate power cord for the country you are in.

### Temperature monitor function



- If the projector starts to overheat due to setup problems or blockage of the air vents, “” and “TEMP.” will illuminate in the lower left corner of the picture. If the temperature continues to rise, the lamp will turn off, the temperature warning indicator on the projector will blink, and after a 90-second cooling-off period the projector will enter standby mode. Refer to “Maintenance Indicators” on page 55 for details.



### Info

- The cooling fan regulates the internal temperature, and its performance is automatically controlled. The sound of the fan may change during projector operation due to changes in the fan speed. This does not indicate malfunction.
- Do not unplug the power cord during projection or cooling fan operation. This can cause damage due to rise in internal temperature, as the cooling fan also stops.



# How to Access the PDF Operation Manuals

PDF operation manuals in several languages are included in the CD-ROM. To utilize these manuals, you need to install Adobe® Reader® on your computer (Windows® or Macintosh®).

Please download Adobe® Reader® from the Internet (<http://www.adobe.com>).

## Accessing the PDF Manuals

### For Windows®:

- ① Insert the CD-ROM in the CD-ROM drive.
- ② Double click the "My Computer" icon.
- ③ Double click the "CD-ROM" drive.
- ④ **When you want to view the operation manual**
  - 1) Double click the "MANUALS" folder.
  - 2) Double click the language (name of the folder) that you want to view.
  - 3) Double click the "67L\_" pdf file to access the projector manuals.

### **When you want to view the SETUP MANUAL**

- 1) Double click the "SETUP" folder.
- 2) Double click the language (name of the folder) that you want to view.
- 3) Double click the "S\_67L\_" pdf file to access the SETUP MANUAL.

### For Macintosh®:

- ① Insert the CD-ROM in the CD-ROM drive.
- ② Double click the "CD-ROM" icon.
- ③ **When you want to view the operation manual**
  - 1) Double click the "MANUALS" folder.
  - 2) Double click the language (name of the folder) that you want to view.
  - 3) Double click the "67L\_" pdf file to access the projector manuals.

### **When you want to view the SETUP MANUAL**

- 1) Double click the "SETUP" folder.
- 2) Double click the language (name of the folder) that you want to view.
- 3) Double click the "S\_67L\_" pdf file to access the SETUP MANUAL.



### Note

- If the desired pdf file cannot be opened by double clicking the mouse, start Adobe® Reader® first, then specify the desired file using the "File", "Open" menu.

## SETUP MANUAL

Refer to the "SETUP MANUAL" contained on the supplied CD-ROM for details.

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Setting up the Projector Network Environment .....	7
Controlling the Projector via LAN .....	13
Setting up the Projector Using RS-232C or Telnet .....	18
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# Accessories

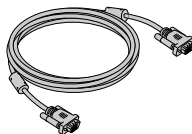
## Supplied accessories



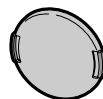
Remote control  
RRMCGA398WJSA



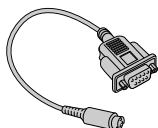
Two R-6 batteries  
("AA" size, UM/SUM-3,  
HP-7 or similar)



RGB cable  
(10' (3.0 m))  
QCNWGA045WJPZ

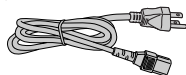


Lens cap (attached)  
CCAPHA024WJSA



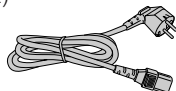
DIN-D-sub RS-232C adaptor  
(5 <sup>57</sup>/<sub>64</sub>" (15 cm))  
QCNWGA015WJPZ

Power cord\*  
(1)



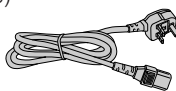
For U.S. and  
Canada, etc.  
(6' (1.8 m))  
QACCDAA007WJPZ

(2)



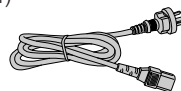
For Europe,  
except U.K.  
(6' (1.8 m))  
QACCVAA011WJPZ

(3)



For U.K. and  
Singapore  
(6' (1.8 m))  
QACCBAA036WJPZ

(4)



For Australia, New  
Zealand and Oceania  
(6' (1.8 m))  
QACCLA018WJPZ

\* Use the power cord that corresponds to the wall outlet in your country.

- Operation manual (this manual (TINS-C741WJZZ) and CD-ROM (UDSKAA085WJZZ))

## Optional accessories

■ 3 RCA to 15-pin D-sub cable (10' (3.0 m))	AN-C3CP2
■ Remote receiver	AN-MR2
■ Lamp unit	AN-XR20L2

### Note

- Some of the optional accessories may not be available depending on the region. Please check with your nearest Sharp Authorized Projector Dealer or Service Center.

# Part Names and Functions

Numbers in **■** refer to the main pages in this operation manual where the topic is explained.

## Projector

### Top View

Power indicator

**29, 55**

**28, 55**

Lamp indicator

**55**

Temperature warning indicator

STANDBY/ON button

**28, 29**

For turning the power on and putting the projector into standby mode.

STANDBY/ON

**32**

Volume buttons

(-◀/▶+)

For adjusting the speaker sound level.

INPUT

**32**

INPUT button (▲/▼)

For switching input mode 1, 2, 3 or 4.

ENTER button

**40**

For setting items selected or adjusted on the menu.

ENTER

**40, 51**

MENU/HELP button

For displaying adjustment and setting screens, and help screen.

KEYSTONE

**33**

KEYSTONE button

For entering the Keystone Correction mode.

MENU/HELP

**40**

Adjustment buttons

(▲/▼/◀/▶)

For selecting menu items.

### Front View

Focus ring

**30**

For adjusting the focus.

**52**

Intake vent

**30**

Zoom ring

For enlarging/reducing the picture.

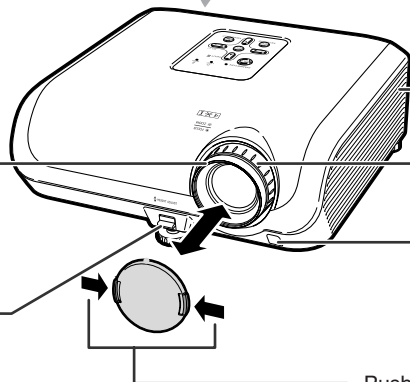
**15**

Remote control sensor

HEIGHT ADJUST lever

**31**

Push both sides of the lens cap to attach or remove.

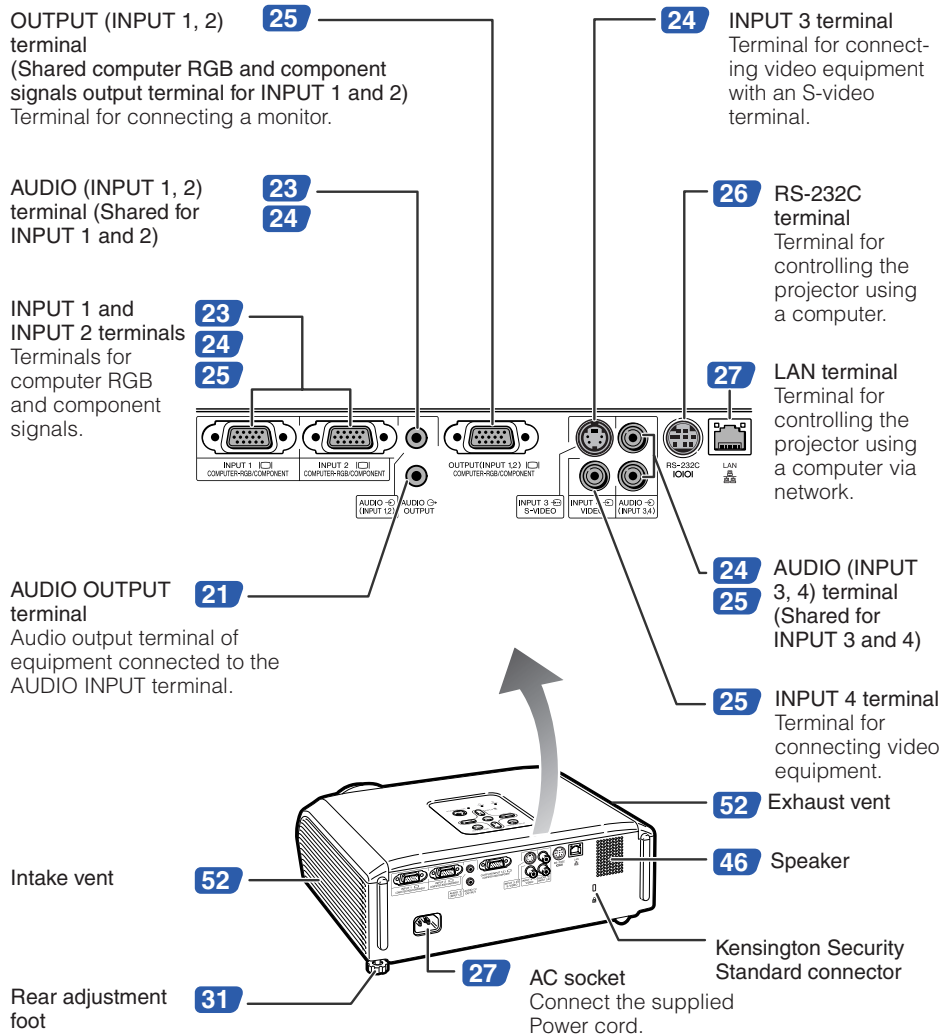




Numbers in    refer to the main pages in this operation manual where the topic is explained.

## Rear View

**Terminals** Refer to "INPUT Terminals and Connectable Main Equipment" on page 21.



### Using the Kensington Lock

- This projector has a Kensington Security Standard connector for use with a Kensington MicroSaver Security System. Refer to the information that came with the system for instructions on how to use it to secure the projector.

# Part Names and Functions (Continued)

Numbers in    refer to the main pages in this operation manual where the topic is explained.

**STANDBY button**  
For putting the projector into the standby mode.

**KEYSTONE button**  
For entering the Keystone Correction mode.

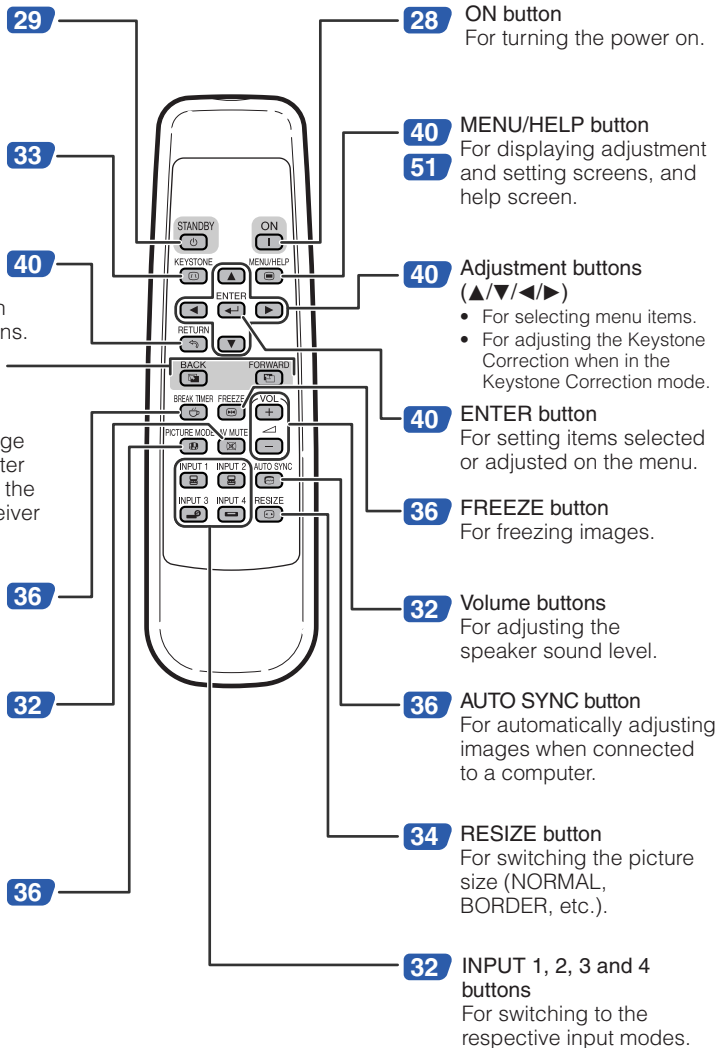
**RETURN button**  
For returning to the previous menu screen during menu operations.

**FORWARD/BACK buttons**  
Same function as the [Page Down] and [Page Up] keys on a computer keyboard when using the optional Remote Receiver (AN-MR2).

**BREAK TIMER button**  
For displaying the break time.

**AV MUTE button**  
For temporarily displaying a black screen and turning off the sound.

**PICTURE MODE button**  
For selecting the appropriate picture.



**28 ON button**  
For turning the power on.

**40 MENU/HELP button**  
**51**  
For displaying adjustment and setting screens, and help screen.

**40 Adjustment buttons**  
(▲/▼/◀/▶)  
• For selecting menu items.  
• For adjusting the Keystone Correction when in the Keystone Correction mode.

**40 ENTER button**  
For setting items selected or adjusted on the menu.

**36 FREEZE button**  
For freezing images.

**32 Volume buttons**  
For adjusting the speaker sound level.

**36 AUTO SYNC button**  
For automatically adjusting images when connected to a computer.

**34 RESIZE button**  
For switching the picture size (NORMAL, BORDER, etc.).

**32 INPUT 1, 2, 3 and 4 buttons**  
For switching to the respective input modes.

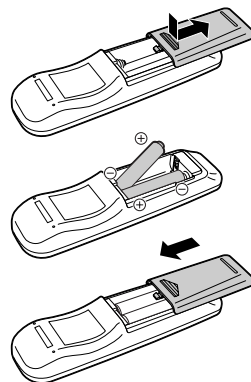
## Inserting the Batteries

**1** Press the ▲ mark on the cover and slide it in the direction of the arrow.

**2** Insert the batteries.

- Insert the batteries making sure the polarities correctly match the ⊕ and ⊖ marks inside the battery compartment.

**3** Attach the cover and slide it until it clicks into place.



**Incorrect use of the batteries may cause them to leak or explode. Please follow the precautions below.**

### ⚠ Caution

- Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type.
- Insert the batteries making sure the polarities correctly match the ⊕ and ⊖ marks inside the battery compartment.
- Batteries of different types have different properties, therefore do not mix batteries of different types.
- Do not mix new and old batteries. This may shorten the life of new batteries or may cause old batteries to leak.
- Remove the batteries from the remote control once they have run out, as leaving them in can cause them to leak. Battery fluid from leaked batteries is harmful to skin, therefore ensure you wipe them first and then remove them using a cloth.

- The batteries included with this projector may run down in a short period, depending on how they are kept. Be sure to replace them as soon as possible with new batteries.
- Remove the batteries from the remote control if you will not be using the remote control for a long time.
- Comply with the rules (ordinance) of each local government when disposing of worn-out batteries.

## Usable Range

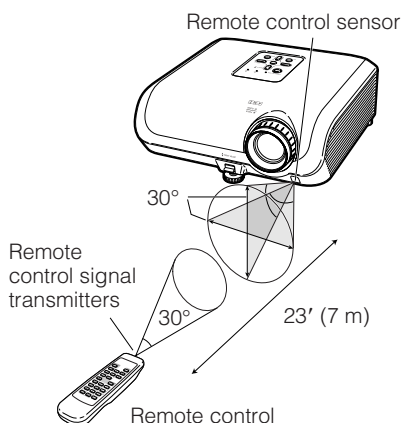
The remote control can be used to control the projector within the ranges shown in the illustration.

### 📎 Note

- The signal from the remote control can be reflected off a screen for easy operation. However, the effective distance of the signal may differ depending on the screen material.

When using the remote control

- Ensure that you do not drop it or expose it to moisture or high temperature.
- The remote control may malfunction under a fluorescent lamp. In this case, move the projector away from the fluorescent lamp.

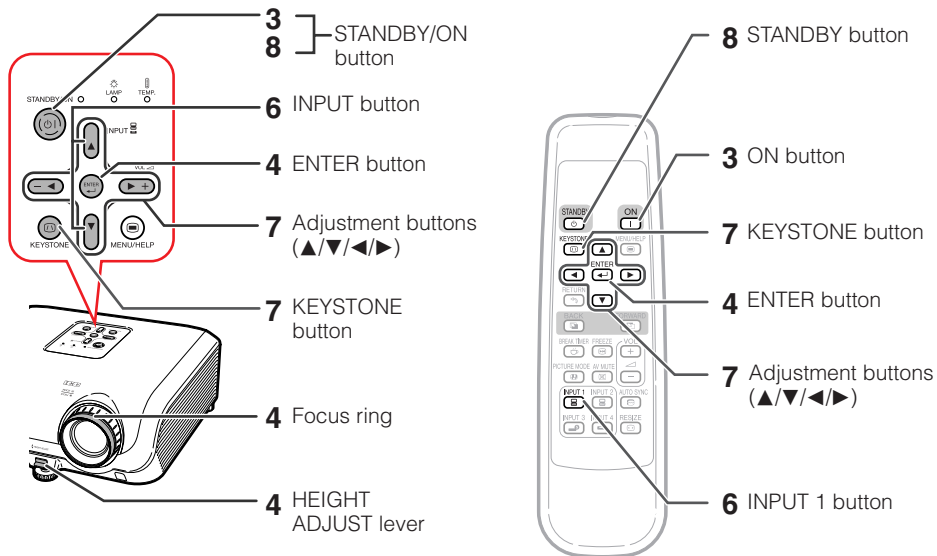


# Quick Start

This section shows the basic operation (projector connecting with the computer). For details, see the page described below for each step.

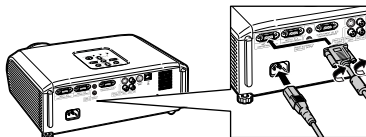
## Setup and Projection

In this section, connection of the projector and the computer is explained using one example.



**1. Place the projector facing a wall or a screen** → P. 18

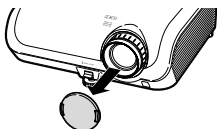
**2. Connect the projector to the computer and plug the power cord into the AC socket of the projector**



When connecting equipment other than a computer, see pages **24** and **25**.

→ PP. 21–27

**3. Remove the lens cap and turn the projector on**



On the projector  
STANDBY/ON



On the remote control



→ P. 28

## 4. Adjust the projected image with the Setup Guide

- 1 After the projector turns on, the Setup Guide appears.  
(When "Setup Guide" is set to "On". See page 45.)
- 2 Follow the steps in the Setup Guide and adjust the focus, picture size, and height (angle).
- 3 After adjusting the focus, height (angle) and picture size, press ENTER to finish the Setup Guide.

➔ P. 30

## 5. Turn the computer on

## 6. Select the INPUT mode

Select the "INPUT 1" using the INPUT button on the projector or INPUT 1 on the remote control.

On the projector      On the remote control      On-screen display (RGB)



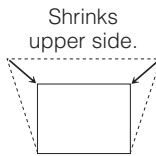
- When pressing the INPUT button on the projector, input mode switches in the following order: INPUT1 ↔ INPUT2 ↔ INPUT3 ↔ INPUT4
- When using the remote control, press the INPUT 1 / INPUT 2 / INPUT 3 / INPUT 4 button to switch the INPUT mode.

➔ P. 32

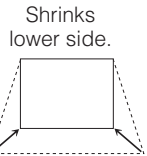
## 7. Correct trapezoidal distortion

Correcting trapezoidal distortion using Keystone Correction.

On the projector

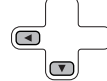
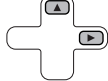


Shrinks upper side.



Shrinks lower side.

On the remote control



➔ P. 33

## 8. Turn the Power off

Press the STANDBY/ON button on the projector or the STANDBY button on the remote control, and then press the button again while the confirmation message is displayed to put the projector into standby mode.

On the projector  
STANDBY/ON



On the remote control



On-screen Display

Enter STANDBY mode?

Yes : Press Again

No : Please Wait

- Unplug the power cord from the AC outlet after the cooling fan stops.

➔ P. 29

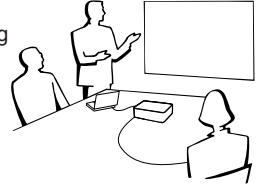
# Setting up the Projector

## Setting up the Projector

For optimal image quality, position the projector perpendicular to the screen with the projector's feet flat and level. Doing so will eliminate the need for Keystone correction and provide the best image quality. (See page 33.)

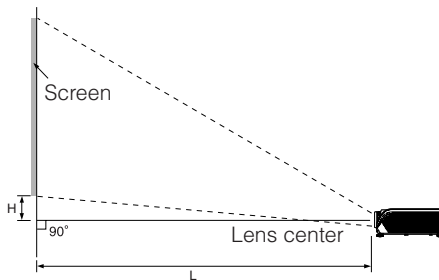
### Standard Setup (Front Projection)

- Place the projector at the required distance from the screen according to the desired picture size. (See page 20.)



### Example of standard setup

#### Side View

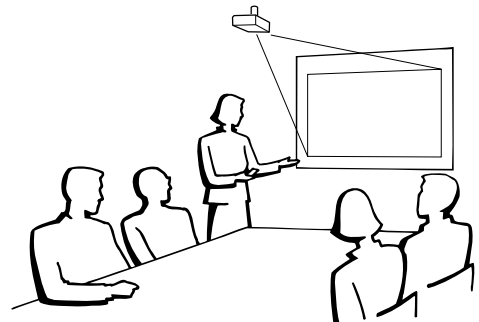


#### Note

- Refer to page 20 for additional information concerning "Screen Size and Projection Distance".

## Ceiling-mount Setup

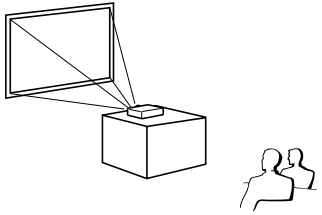
- It is recommended that you use the optional Sharp ceiling-mount bracket for this installation. Before mounting the projector, contact your nearest Sharp Authorized Projector Dealer or Service Center to obtain the recommended ceiling-mount bracket (sold separately).
  - AN-XRCM30 ceiling-mount bracket (for U.S.A.).
  - AN-60KT ceiling-mount bracket, its AN-TK201 and AN-TK202 extension tubes (for countries other than the U.S.A.).
- Invert the image by setting "Ceiling + Front" in "PRJ Mode". See page 45 for use of this function.



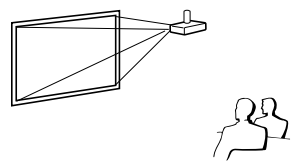
## Projection (PRJ) Mode

The projector can use any of the 4 projection modes shown in the diagram below. Select the mode most appropriate for the projection setting in use. (You can set the PRJ mode in "SCR-ADJ" menu. See page 45.)

■ Table mounted, front projection



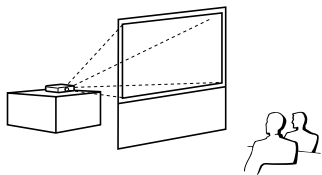
■ Ceiling mounted, front projection



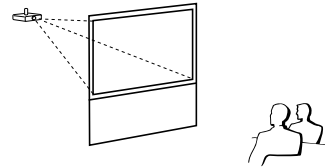
Menu item → "Front"

Menu item → "Ceiling + Front"

■ Table mounted, rear projection (with a translucent screen)



■ Ceiling mounted, rear projection (with a translucent screen)

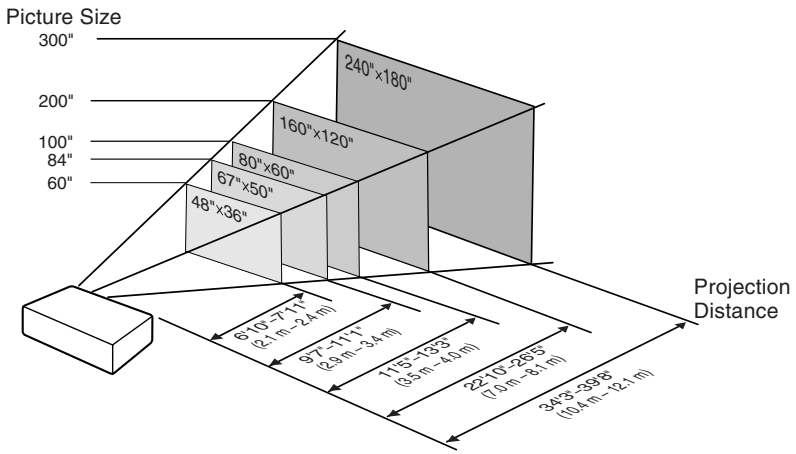


Menu item → "Rear"

Menu item → "Ceiling + Rear"

### Indication of the Projection Image Size and Projection Distance

Example: NORMAL Mode (4:3)



# Setting up the Projector (Continued)

## Screen Size and Projection Distance

### NORMAL Mode (4:3)

Picture (Screen) size			Projection distance [L]		Distance from the lens center to the bottom of the image [H]
Diag. [χ]	Width	Height	Minimum [L1]	Maximum [L2]	
300" (762 cm)	610 cm (240")	457 cm (180")	10.4 m (34' 3")	12.1 m (39' 8")	48 cm (19 5/64")
270" (686 cm)	549 cm (216")	411 cm (162")	9.4 m (30' 10")	10.9 m (35' 8")	44 cm (17 11/64")
250" (635 cm)	508 cm (200")	381 cm (150")	8.7 m (28' 7")	10.1 m (33' 1")	40 cm (15 57/64")
200" (508 cm)	406 cm (160")	305 cm (120")	7.0 m (22' 10")	8.1 m (26' 5")	32 cm (12 23/32")
150" (381 cm)	305 cm (120")	229 cm (90")	5.2 m (17' 2")	6.0 m (19' 10")	24 cm (9 17/32")
100" (254 cm)	203 cm (80")	152 cm (60")	3.5 m (11' 5")	4.0 m (13' 3")	16 cm (6 23/64")
84" (213 cm)	171 cm (67")	128 cm (50")	2.9 m (9' 7")	3.4 m (11' 1")	14 cm (5 11/32")
80" (203 cm)	163 cm (64")	122 cm (48")	2.8 m (9' 2")	3.2 m (10' 7")	13 cm (5 3/32")
72" (183 cm)	146 cm (58")	110 cm (43")	2.5 m (8' 3")	2.9 m (9' 6")	12 cm (4 37/64")
60" (152 cm)	122 cm (48")	91 cm (36")	2.1 m (6' 10")	2.4 m (7' 11")	10 cm (3 13/16")
40" (102 cm)	81 cm (32")	61 cm (24")	1.4 m (4' 7")	1.6 m (5' 3")	6 cm (2 35/64")

χ: Picture size (diag.) (in/cm)

L: Projection distance (m/ft)

L1: Minimum projection distance (m/ft)

L2: Maximum projection distance (m/ft)

H: Distance from the lens center to the bottom of the image (cm/in)

The formula for picture size and projection distance

[m/cm]

L1 (m) = 0.03482χ

L2 (m) = 0.04029χ

H (cm) = 0.16151χ

[Feet/inches]

L1 (ft) = 0.03482χ / 0.3048

L2 (ft) = 0.04029χ / 0.3048

H (in) = 0.16151χ / 2.54

### STRETCH Mode (16:9)

Picture (Screen) size			Projection distance [L]		Distance from the lens center to the bottom of the image [H]	Adjustable range of image position [S]
Diag. [χ]	Width	Height	Minimum [L1]	Maximum [L2]		
250" (635 cm)	553 cm (218")	311 cm (123")	9.5 m (31' 1")	11.0 m (36' 0")	96 cm (37 3/4")	± 52 cm (± 20 27/64")
225" (572 cm)	498 cm (196")	280 cm (110")	8.5 m (28' 0")	9.9 m (32' 5")	86 cm (33 31/32")	± 47 cm (± 18 25/64")
200" (508 cm)	443 cm (174")	249 cm (98")	7.6 m (24' 11")	8.8 m (28' 10")	77 cm (30 13/64")	± 42 cm (± 16 11/32")
150" (381 cm)	332 cm (131")	187 cm (74")	5.7 m (18' 8")	6.6 m (21' 7")	58 cm (22 41/64")	± 31 cm (± 12 1/4")
133" (338 cm)	294 cm (116")	166 cm (65")	5.0 m (16' 7")	5.8 m (19' 2")	51 cm (20 5/64")	± 28 cm (± 10 7/8")
106" (269 cm)	235 cm (92")	132 cm (52")	4.0 m (13' 2")	4.7 m (15' 3")	41 cm (16")	± 22 cm (± 8 21/32")
100" (254 cm)	221 cm (87")	125 cm (49")	3.8 m (12' 5")	4.4 m (14' 5")	38 cm (15 3/32")	± 21 cm (± 8 11/64")
92" (234 cm)	204 cm (80")	115 cm (45")	3.5 m (11' 5")	4.0 m (13' 3")	35 cm (13 57/64")	± 19 cm (± 7 33/64")
84" (213 cm)	186 cm (73")	105 cm (41")	3.2 m (10' 5")	3.7 m (12' 1")	32 cm (12 11/16")	± 17 cm (± 6 55/64")
80" (203 cm)	177 cm (70")	100 cm (39")	3.0 m (9' 11")	3.5 m (11' 6")	31 cm (12 5/64")	± 17 cm (± 6 17/32")
72" (183 cm)	159 cm (63")	90 cm (35")	2.7 m (9' 0")	3.2 m (10' 4")	28 cm (10 7/8")	± 15 cm (± 5 57/64")
60" (152 cm)	133 cm (52")	75 cm (29")	2.3 m (7' 6")	2.6 m (8' 8")	23 cm (9 1/16")	± 12 cm (± 4 29/32")
40" (102 cm)	89 cm (35")	50 cm (20")	1.5 m (5' 0")	1.8 m (5' 9")	15 cm (6 3/64")	± 8 cm (± 3 17/64")

χ: Picture size (diag.) (in/cm)

L: Projection distance (m/ft)

L1: Minimum projection distance (m/ft)

L2: Maximum projection distance (m/ft)

H: Distance from the lens center to the bottom of the image (cm/in)

S: Adjustable range of image position (cm/in) See page 44.

The formula for picture size and projection distance

[m/cm]

L1 (m) = 0.03794χ

L2 (m) = 0.04389χ

H (cm) = 0.3835χ

S (cm) = ± 0.20754χ

[Feet/inches]

L1 (ft) = 0.03794χ / 0.3048

L2 (ft) = 0.04389χ / 0.3048

H (in) = 0.3835χ / 2.54

S (in) = ± 0.20754χ / 2.54



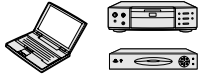
#### Note

- Refer to page 18 concerning "Projection distance [L]" and "Distance from the lens center to the bottom of the image [H]".
- Allow a margin of error in the values in the diagrams above.



# Connections

## INPUT Terminals and Connectable Main Equipment



### INPUT 1, 2 terminal

- Connecting the computer. (See page 23.)
- Connecting video equipment with component output terminal (DVD player, DTV decoder, DVD recorder with hard disc, etc.). (See page 24.)

### AUDIO (INPUT 1, 2) terminal

Connecting an audio cable (Shared audio input terminal for INPUT 1 and 2). (See pages 23 and 24.)



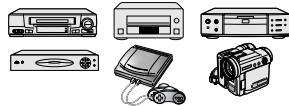
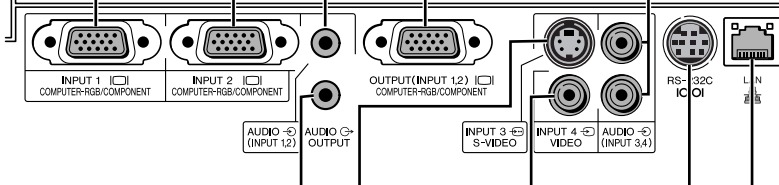
### COMPUTER-RGB/COMPONENT OUTPUT terminal

Connecting the monitor when you want to simultaneously watch the projection image on the monitor. (See page 25.)

### AUDIO (INPUT 3, 4) terminal

Connecting an audio cable (Shared audio input terminal for INPUT 3 and 4). (See pages 24 and 25.)

## Rear View



### INPUT 3 terminal

Connecting video equipment with S-video output terminal (VCR, DVD player, etc.). (See page 24.)



### RS-232C terminal

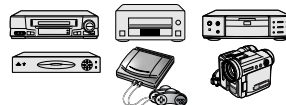
Connecting the computer to control the projector. (See page 26.)

### LAN terminal

(10 BASE-T/100 BASE-TX)  
Connecting the computer or the hub using a LAN cable. (See page 27.)

### AUDIO OUTPUT terminal

Connecting to an amplifier or other audio equipment with an audio cable (commercially available) (Shared audio output terminal for INPUT 1, 2, 3 and 4).  
Use an audio cable with  $\varnothing 3.5$  mm minijack plug to connect to this terminal.


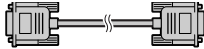
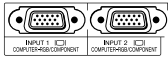





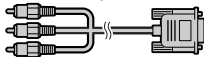
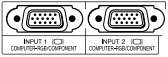
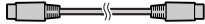

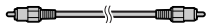

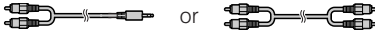
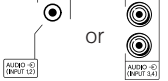


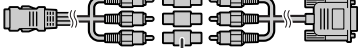
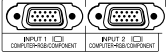
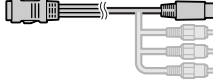

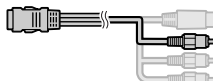


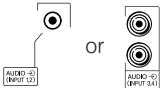


### INPUT 4 terminal

Connecting video equipment without S-video output terminal. (See page 25.)

# Samples of Cables for Connection

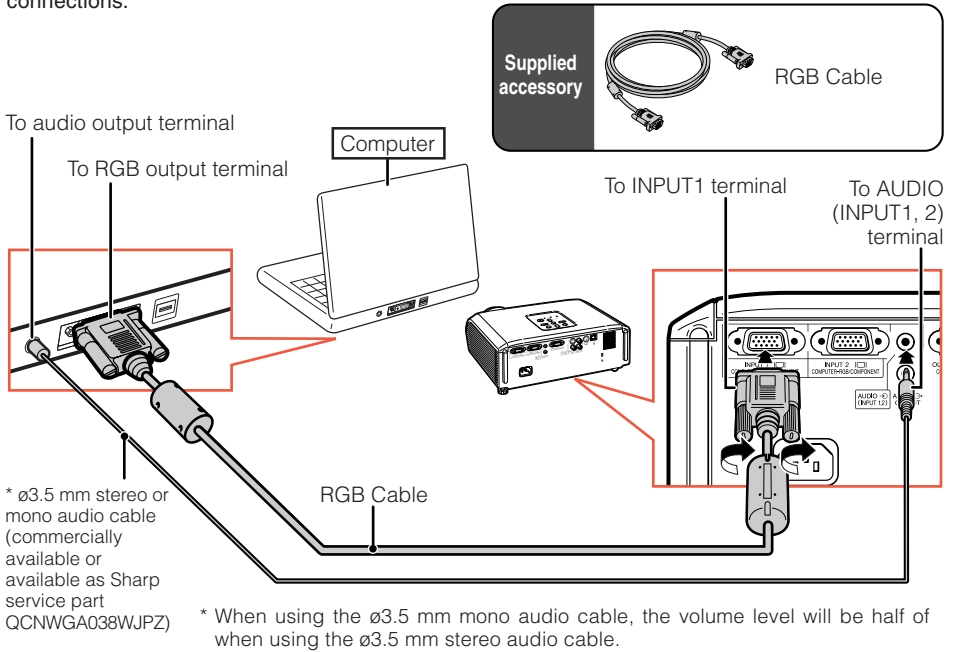
- For more details of connection and cables, refer to the operation manual of the connecting equipment.
- You may need other cables or connectors not listed below.

Equipment	Input Signal	Cable	Terminal on the projector
	RGB video	RGB cable (supplied) 	INPUT1, 2 
	Computer audio	ø3.5 mm stereo audio cable (commercially available or available as Sharp service part QCNWGA038WJPZ) 	AUDIO INPUT 
  	Component video	3 RCA (Component) to 15-pin D-sub cable (optional, AN-C3CP2) 	INPUT1, 2 
	S-video	S-video cable (commercially available) 	INPUT3 
	Video	Video cable (commercially available) 	INPUT4 
	Audio	ø3.5 mm minijack to RCA audio cable (commercially available) 	AUDIO INPUT 
 	Component video	Cables for a camera or a video game/3 RCA (Component) to 15-pin D-sub cable (optional, AN-C3CP2)  RCA adaptor plug (commercially available)	INPUT1, 2 
	S-video	Cables for a camera or a video game 	INPUT3 
	Video	Cables for a camera or a video game 	INPUT4 
	Audio	Cables for a camera or a video game/ø3.5 mm minijack to RCA audio cable (commercially available) RCA adaptor plug (commercially available)  or connect directly to AUDIO (INPUT 3, 4).	AUDIO INPUT 

# Connecting to a Computer

Before connecting, ensure that the power cord of the projector is unplugged from the AC outlet and turn off the devices to be connected. After making all connections, turn on the projector and then the other devices. When connecting a computer, ensure that it is the last device to be turned on after all the connections are made.

Ensure that you have read the operation manuals of the devices to be connected before making connections.



## Note

- See page 60 "Computer Compatibility Chart" for a list of computer signals compatible with the projector. Use with computer signals other than those listed may cause some of the functions to not work.
- A Macintosh adaptor may be required for use with some Macintosh computers. Contact your nearest Macintosh Dealer.
- **Depending on the computer you are using, an image may not be projected unless the computer's external output port is switched on. (e.g. Press "Fn" and "F5" keys simultaneously when using a SHARP notebook computer).** Refer to the specific instructions in your computer's operation manual to enable your computer's external output port.

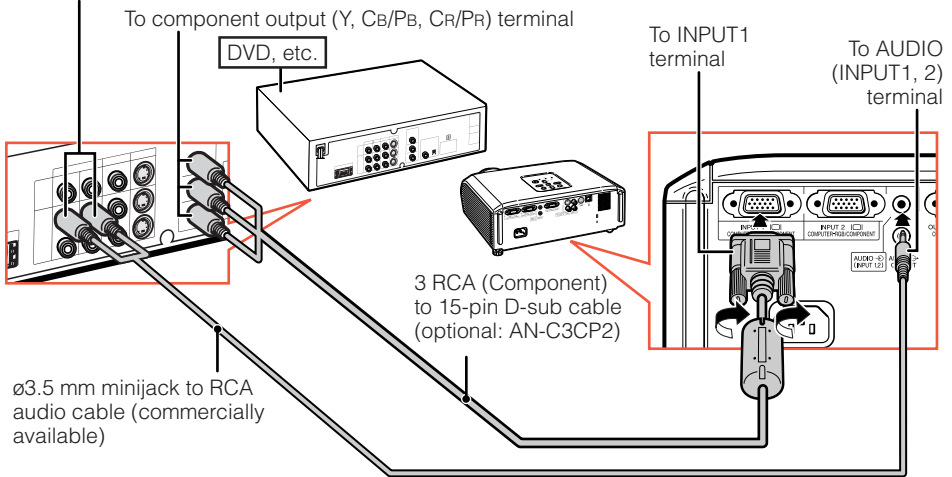
# Connecting to Video Equipment

The projector is equipped with input terminals that support component, S-video, and video signals. See the illustration below to connect with the audio-visual equipment.

The image quality is highest in the order of the component signal, the S-video signal and the video signal. If your audio-visual equipment has a component output terminal, use the COMPUTER/COMPONENT terminal (INPUT1 or INPUT 2) on the projector for video connection.

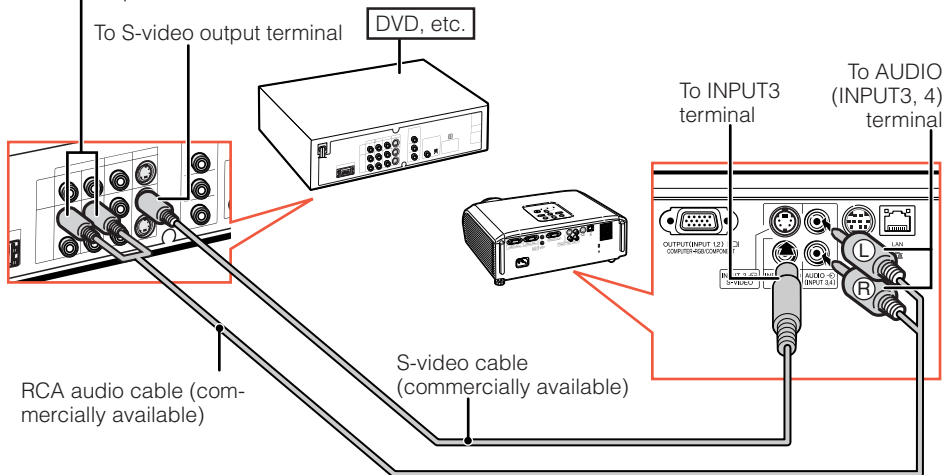
## When using a 3 RCA (Component) to 15-pin D-sub cable (INPUT1 or INPUT2)

To audio output terminal

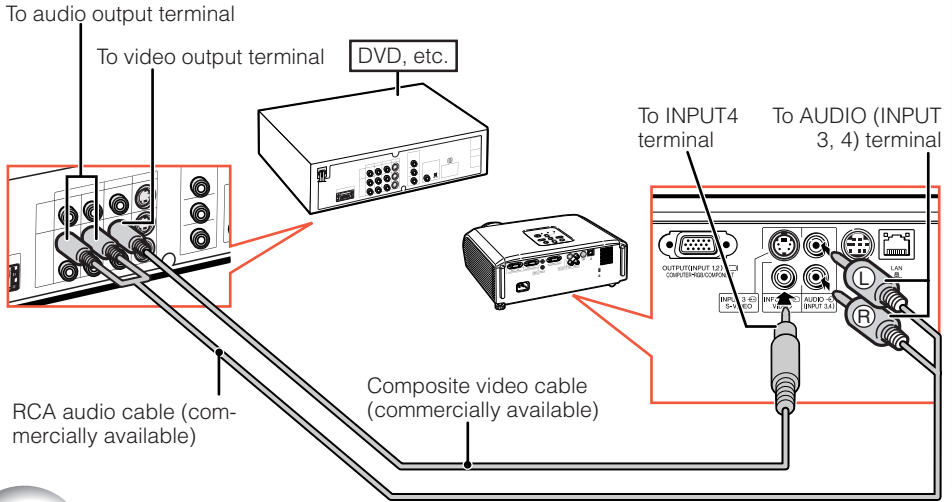


## When using an S-video cable (INPUT3)

To audio output terminal

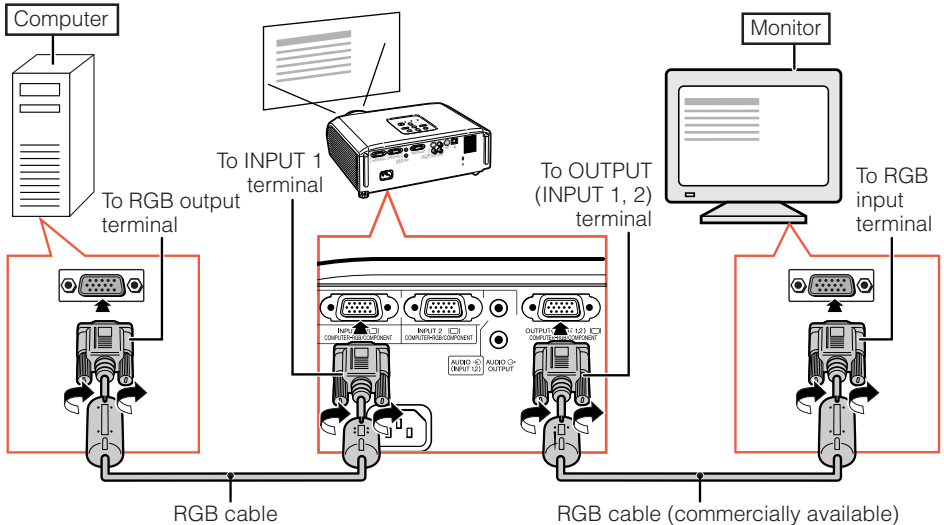


### When using a composite video cable (INPUT4)



## Connecting to a Monitor with RGB Input Terminal

You can display computer images on both the projector and a separate monitor using two sets of RGB cables.



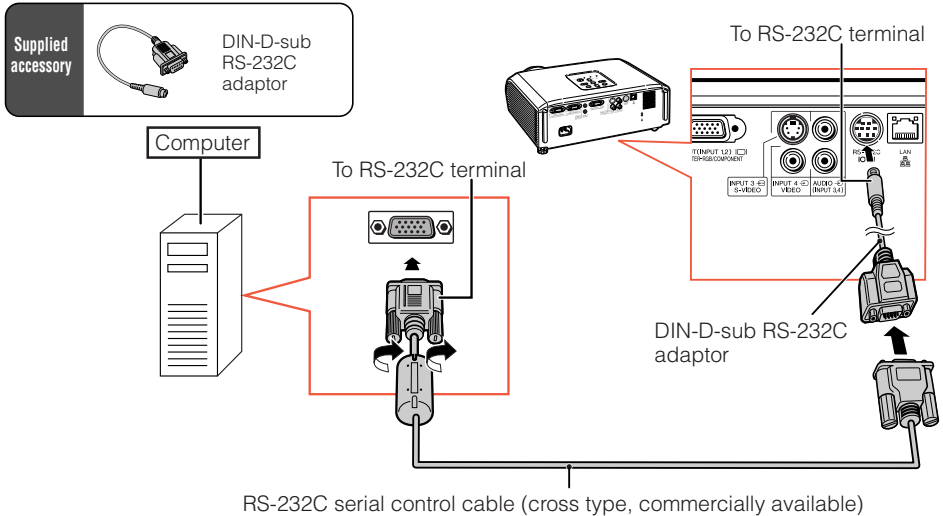
#### Note

- RGB signals and Component signals can be output to the monitor.
- For this connection, another RGB cable (commercially available) is required.

# Controlling the Projector by a Computer

When the RS-232C terminal on the projector is connected to a computer with a DIN-D-sub RS-232C adaptor and an RS-232C serial control cable (cross type, commercially available), the computer can be used to control the projector and check the status of the projector. Refer to the "SETUP MANUAL" contained on the supplied CD-ROM for details.

## When connecting to a computer using an RS-232C serial control cable and a DIN-D-sub RS-232C adaptor



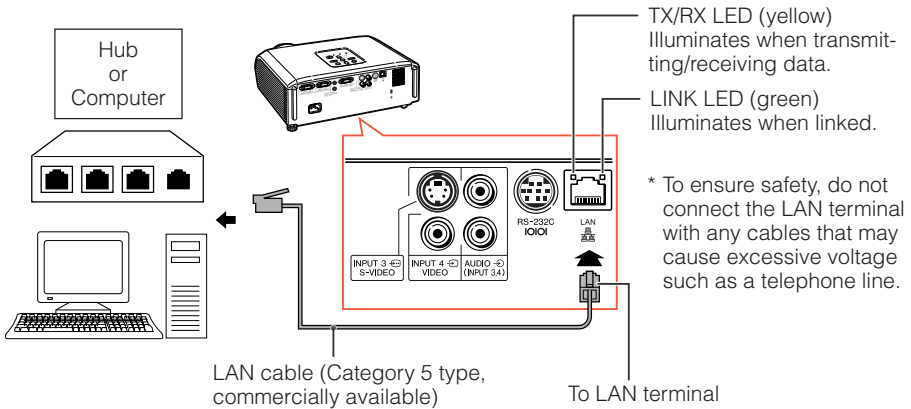
### Note

- The RS-232C function may not operate if your computer terminal is not correctly set up. Refer to the operation manual of the computer for details.
- Refer to page 3 of the "SETUP MANUAL" contained on the supplied CD-ROM for "RS-232C Specifications and Commands".

### Info

- Do not connect the RS-232C cable to a port other than the RS-232C terminal on the computer. This may damage your computer or projector.
- Do not connect or disconnect an RS-232C serial control cable to or from the computer while it is on. This may damage your computer.

## When connecting to the LAN terminal using a LAN cable

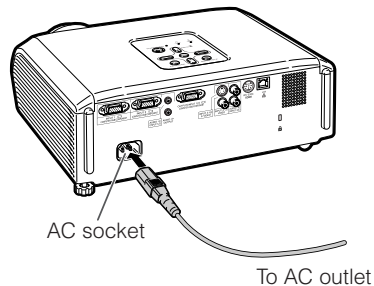
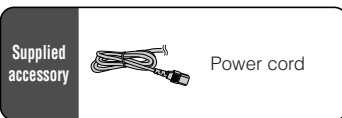


### Note

- When connecting to a hub, use a straight-through Category 5 (CAT.5) type cable (commercially available).
- When connecting to a computer, use a cross-over Category 5 (CAT.5) type cable (commercially available).

## Connecting the Power Cord

Plug the supplied power cord into the AC socket on the rear of the projector. Then plug into AC outlet.



# Turning the Projector On/Off

## Turning the Projector on

Note that the connections to external equipment and power outlet should be done before performing the operations written below. (See pages 23 to 27.)

**Remove the lens cap and press  STANDBY/ON on the projector or  ON on the remote control.**

- When System Lock is set, the keycode input box appears. To cancel the keycode setting, input the keycode that you have already set. See page 47 for details.

### Note

#### • About the Lamp Indicator

The lamp indicator illuminates to indicate the status of the lamp.

**Green:** The lamp is on.

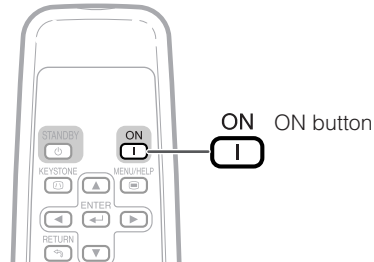
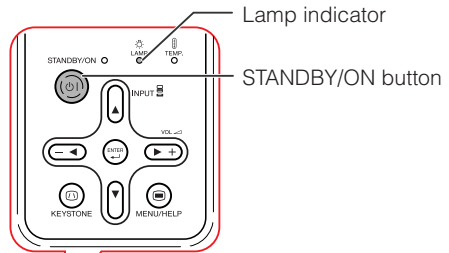
**Blinking in green:** The lamp is warming up or shutting down.

**Red:** The lamp is shut down abnormally or the lamp should be replaced.

- When switching on the projector, a slight flickering of the image may be experienced within the first minute after the lamp has been illuminated. This is normal operation as the lamp's control circuitry is stabilising the lamp output characteristics. It should not be regarded as faulty operation.
- If the projector is put into standby mode and immediately turned on again, the lamp may take some time to start projection.



### Info

- English is the factory default language. If you want to change the on-screen display to another language, change the language according to the procedure on page 45.



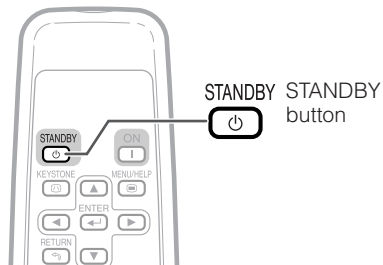
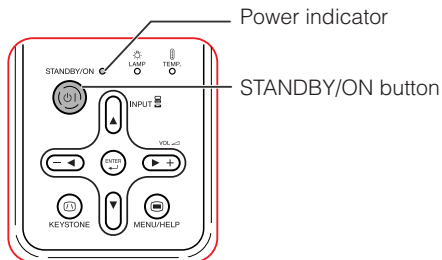


## Turning the Power off (Putting the Projector into Standby Mode)

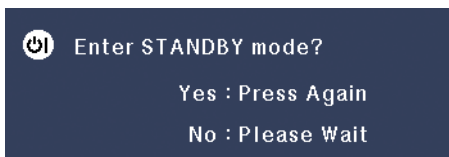
**1** Press  STANDBY/ON on the projector or  STANDBY on the remote control, then press that button again while the confirmation message is displayed, to put the projector into standby mode.

**2** Unplug the power cord from the AC outlet after the cooling fan stops.

- The power indicator on the projector blinks in green while cooling.
- The power indicator changes to red when the projector finishes cooling.



On-screen Display (confirmation message)



### Info

- Do not unplug the power cord during projection or cooling fan operation. This can cause damage due to rise in internal temperature, as the cooling fan also stops.

# Image Projection

## About the Setup Guide

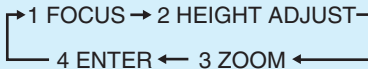
After turning on the projector, the Setup Guide screen appears to assist you with projector setup.

- Guidance items
- 1 FOCUS
  - 2 HEIGHT ADJUST
  - 3 ZOOM

Press **ENTER** to exit the Setup Guide screen.

### Note

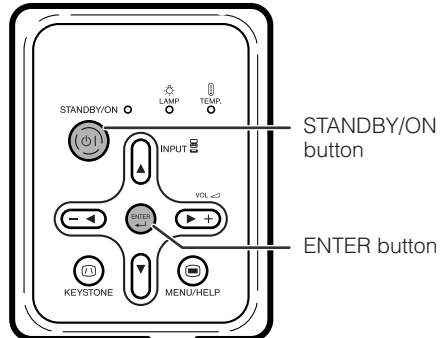
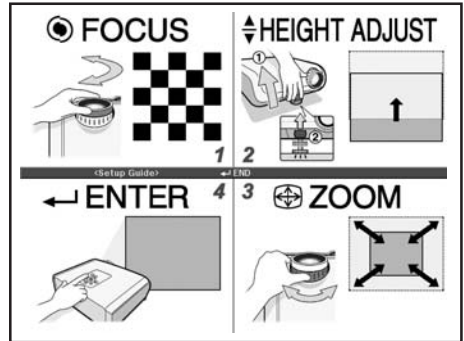
- The Setup Guide screen automatically highlights the items in the following order:



However, you can adjust the focus, height (angle), or zoom regardless of the highlighted item.

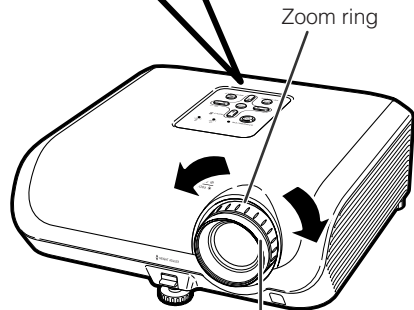
- If you do not want to display the Setup Guide for the next time, set "Menu" - "SCR - ADJ" - "Setup Guide" to "Off". (See page 45.)

Setup Guide screen



STANDBY/ON button

ENTER button



Zoom ring

Focus ring

## Adjusting the Projected Image

### 1 Adjusting the Focus

You can adjust the focus with the focus ring on the projector.

Rotate the focus ring to adjust the focus while watching the projected image.

### 2 Adjusting the Picture Size

You can adjust the picture size using the zoom ring on the projector.

Rotate the zoom ring to enlarge or shrink the picture size.

### 3 Adjusting the Height

The height of the projector can be adjusted using the adjustment feet at the front and rear of the projector.

When the screen is above the projector, the projection image can be made higher by adjusting the projector.

**1** Lift the projector to adjust its height while lifting the HEIGHT ADJUST lever.

**2** Remove your hands from the HEIGHT ADJUST lever of the projector after its height has been finely adjusted.

- The angle of projection is adjustable up to 8 degrees from the surface on which the projector is placed.

**3** Use the rear adjustment foot to make the projector level.

- The projector is adjustable  $\pm 1$  degree from the standard position.



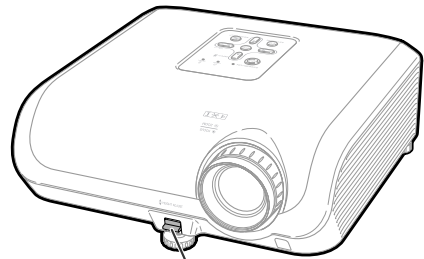
#### Note

- When adjusting the height of the projector, trapezoidal distortion occurs. Follow the procedures in Keystone Correction to correct the distortion. (See pages 33 and 44.)

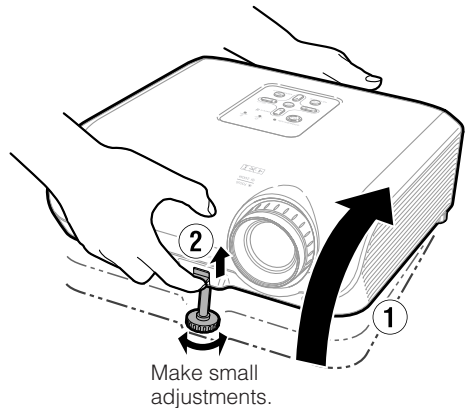


#### Info

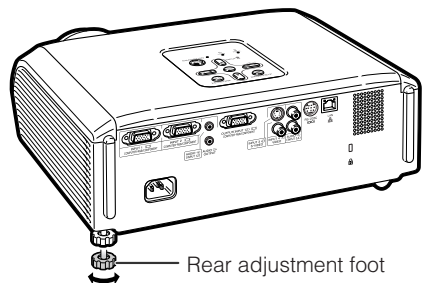
- Do not apply too much pressure on the projector when the front adjustment foot comes out.
- When lowering the projector, be careful not to get your fingers caught in the area between the adjustment foot and the projector.
- Hold the projector firmly while lifting or carrying.
- Do not hold by the lens area.



HEIGHT ADJUST lever



Make small adjustments.



Rear adjustment foot

# Image Projection (Continued)

## Switching the Input Mode

Select the appropriate input mode for the connected equipment.

Press **INPUT 1**, **INPUT 2**, **INPUT 3** or **INPUT 4** on the remote control to select the input mode.

- When pressing INPUT (**▲/▼**) on the projector, input mode switches in the following order:  
**INPUT1 ↔ INPUT2 ↔ INPUT3 ↔ INPUT4 ↻**.
- When "Auto Search" is set to "On", INPUT (**▲/▼**) on the projector functions as the Auto Search buttons. (See page 46.)

## Adjusting the Volume

Press **- / +** on the remote control or **- < / > +** on the projector to adjust the volume.

### Note

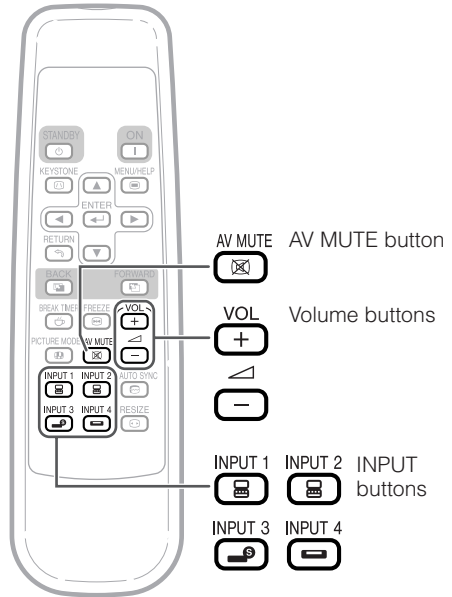
- Pressing **- / -** will lower the volume.
- Pressing **+ / +** will raise the volume.
- When the projector is connected to external equipment, the volume level of the external equipment changes in accordance with the volume level of the projector. Set the projector's volume to the lowest level when turning the projector on/off or when changing the input signal.
- When you do not want to output the sound from the projector's speaker while the projector is connected to external equipment, set "Speaker" in "PRJ-ADJ" menu to "Off". (See page 46.)

## Displaying the Black Screen and Turning off the Sound Temporarily

Press **AV MUTE** on the remote control to temporarily display a black screen and turn off the sound.

### Note

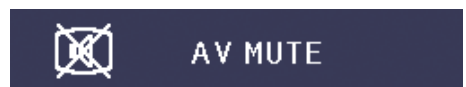
- Pressing **AV MUTE** again will turn the projected image back on.



On-screen Display



On-screen Display



## Correcting Trapezoidal Distortion

When the image is projected either from the top or from the bottom towards the screen at an angle, the image becomes distorted trapezoidally. The function for correcting trapezoidal distortion is called **Keystone Correction**.

### Note

- The Keystone Correction can be adjusted up to an angle of approximately  $\pm 13$  degrees and the screen can also be set up to an angle of approximately  $\pm 13$  degrees (when the resize mode is set to "NORMAL" (see page 34)).

### 1 Press **KEYSTONE** to enter the Keystone Correction mode.

- You can also display the on-screen display of the Keystone Correction mode with **KEYSTONE** on the projector.

### 2 Press **▲/▶** or **◀/▼** to adjust the Keystone Correction.

- You can also adjust the Keystone Correction using the adjustment buttons on the projector.

### Note

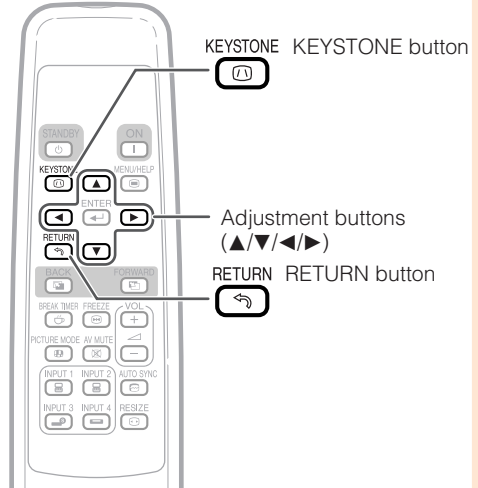
- Press **RETURN** while the on-screen display of the Keystone Correction mode is on the screen to return to the default setting.

### 3 Press **KEYSTONE**.

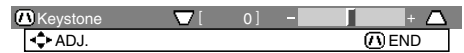
- The on-screen display of the Keystone Correction mode will disappear.
- You can also use **KEYSTONE** on the projector.

#### About the Auto Keystone Correction

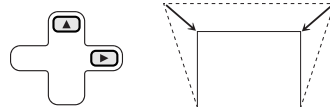
- The projector automatically detects tilt and the **AUTO KEYSTONE** feature automatically corrects trapezoidal distortion.



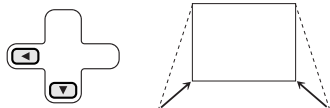
#### ▼ On-screen display (Keystone Correction mode)



Shrinks upper side.  
(Move the slide bar in the + direction.)



Shrinks lower side.  
(Move the slide bar in the - direction.)



### Info

- While adjusting the image using Keystone Correction, straight lines and the edges of the image may appear jagged.

### Note

- Automatic Keystone Correction may not work well in some cases, such as when the screen is leaning, temperature is extremely high or low, or zoom is at maximum or minimum. In these cases, fine adjust the Keystone Correction following steps 1 to 3.
- You can select "On" or "Off" for the Auto Keystone Correction mode. (See page 44.)

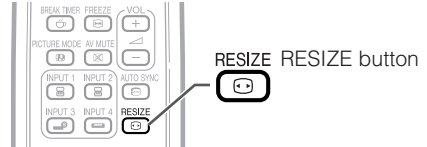
# Image Projection (Continued)

## Resize Mode

This function allows you to modify or customize the resize mode to enhance the input image. Depending on the input signal, you can choose “NORMAL”, “BORDER” or “STRETCH” image.

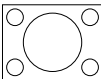
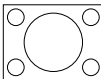
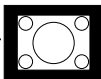
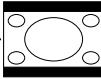
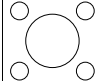
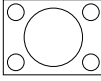
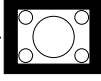
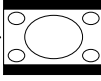
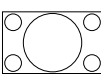
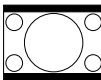
Press  **RESIZE**.

- See page 44 for setting on menu screen.



### Computer

		NORMAL	BORDER	STRETCH
4:3 aspect ratio	SVGA (800 × 600)	1024 × 768	768 × 576	1024 × 576
	XGA (1024 × 768)			
	SXGA (1280 × 960)			
	SXGA + (1400 × 1050)			
Other aspect ratios	SXGA (1280 × 1024)	1024 × 768	768 × 576	1024 × 576
	1280 × 720	—	—	1024 × 576

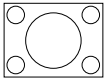
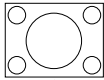
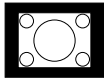
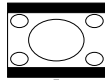
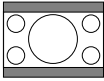
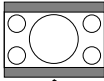
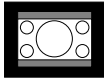
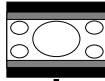
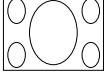
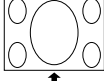
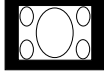
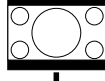
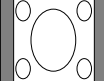
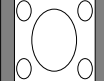
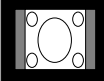
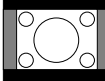
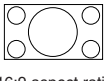
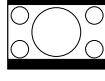
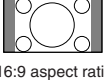
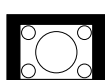
Input Signal		Output screen image		
Computer	Image type	NORMAL	BORDER	STRETCH
Resolution lower than XGA				
XGA	 4:3 aspect ratio			
Resolution higher than XGA				
SXGA (1280 × 1024)	 5:4 aspect ratio			
1280 × 720	 16:9 aspect ratio	—	—	

\* Mode for projecting an image with the original aspect ratio without cutting any portions.

 : Cutout area on which images cannot be projected.


# VIDEO

- “STRETCH” is fixed when 540P, 720P or 1080I signals are entered.

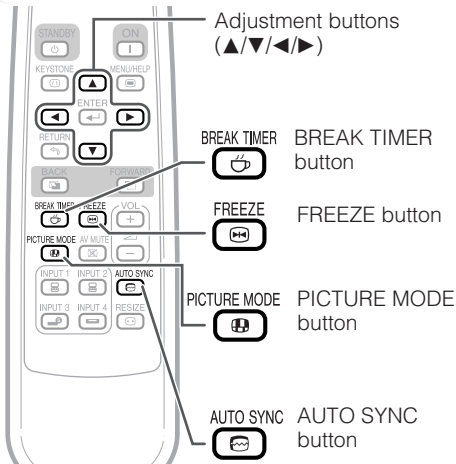
Input Signal		Output screen image		
DVD / Video	Image type	NORMAL	BORDER	STRETCH
480I, 480P, 576I, 576P, NTSC, PAL, SECAM	 4:3 aspect ratio	* 	* 	
	 Letter box	* 	* 	
	 Squeezed 16:9 image			* 
	 Squeezed 4:3 image			* 
540P, 720P, 1080I	 16:9 aspect ratio	—	—	* 
	 16:9 aspect ratio (4:3 aspect ratio in 16:9)	—	—	* 

\* Mode for projecting an image with the original aspect ratio without cutting any portions.

 : Cutout area on which images cannot be projected.

 : Area on which the image is not included in the original signals.

# Operating with the Remote Control



## Auto Sync (Auto Sync Adjustment)

Auto Sync function works when detecting input signal after the projector turns on.

Press AUTO SYNC to manually adjust with Auto Sync function.

### Note

- When the optimum image cannot be achieved with Auto Sync adjustment, use the help menu for manual adjustments. (See page 51.)

## Displaying and Setting the Break Timer

- Press **BREAK TIMER**.
  - The timer starts to count down from 5 minutes.
  - ▼On-screen display



- Press ▲/▼/◀/▶ to adjust the length of the break time.
  - Increases with ▲ or ▶  
5 minutes → 6 minutes → 60 minutes
  - Shortens with ◀ or ▼  
4 minutes → 3 minutes → 1 minute
  - The break time can be set in units of one minute (up to 60 minutes).

Canceling the break time display function

Press **BREAK TIMER**.

### Note

- Break Timer does not function while the projector is operating the "Auto Sync", "FREEZE" or "AV MUTE" functions.

## Freezing a Moving Image

- Press **FREEZE**.
  - The projected image is frozen.
- Press **FREEZE** again to return to the moving image from the currently connected device.

## Selecting the Picture Mode

You can select the appropriate picture mode for the projected image, such as movie or video game.

Press **PICTURE MODE**.

- When pressing PICTURE MODE, the picture mode changes in the following order:  
 [→Standard→Presentation→Movie→Game→sRGB\*]

### Note

- See page 42 for details on the picture mode.

\* "sRGB" is displayed only when RGB signal is input.

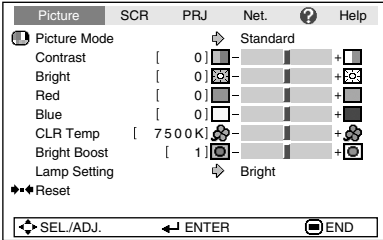


# Menu Items

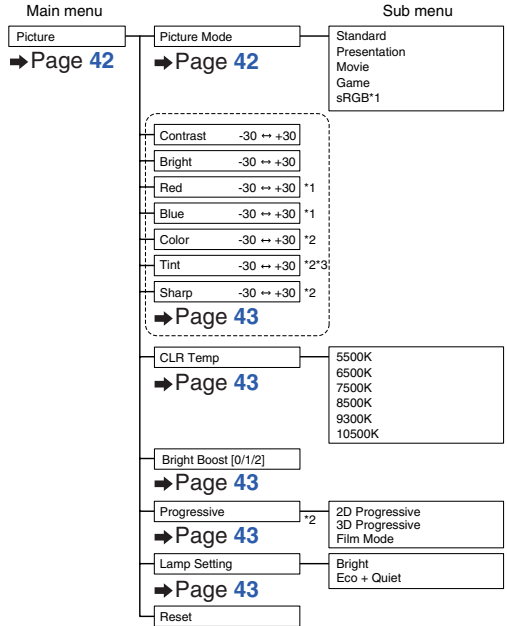
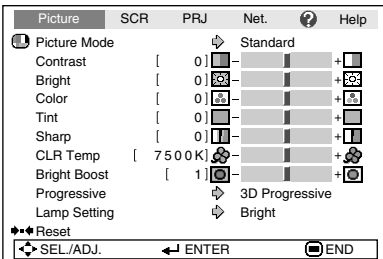
The following shows the items that can be set in the projector.

## “Picture” menu

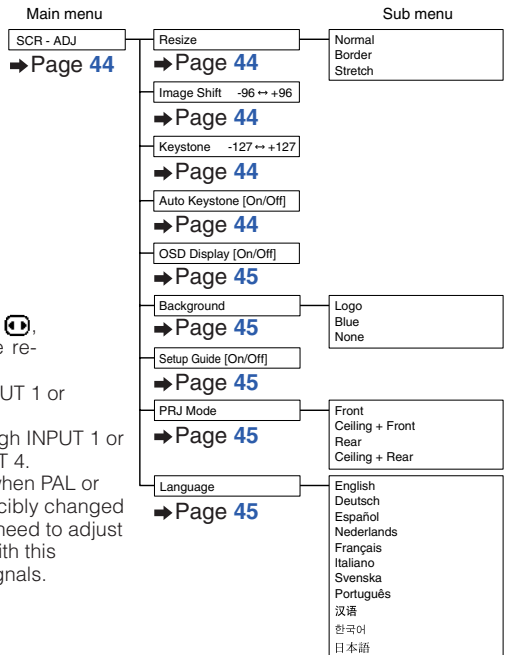
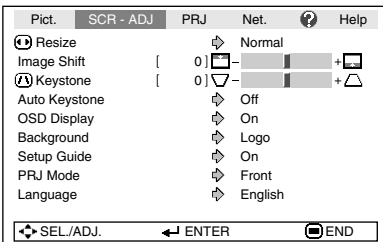
### INPUT 1 (RGB)/INPUT2 (RGB)






### INPUT 1 (Component)/INPUT 2 (Component)/INPUT 3/INPUT 4



## “Screen adjustment (SCR-ADJ)” menu



• You can adjust the menu items with icons (  ), (  ), and (  ) using the respective buttons on the remote control.

\*1 Items when inputting RGB signal through INPUT 1 or INPUT 2.

\*2 Items when inputting component signal through INPUT 1 or INPUT 2, or when selecting INPUT 3 or INPUT 4.

\*3 “Tone” will appear on the menu screen only when PAL or SECAM signals are input (including when forcibly changed to those input signals). There is basically no need to adjust “Tone”, but you can adjust the picture tone with this adjustment when inputting PAL or SECAM signals.

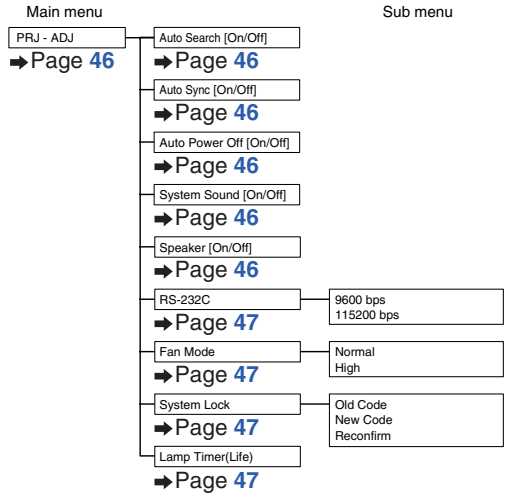
# Menu Items (Continued)

## “Projector adjustment (PRJ-ADJ)” menu

Pict.	SCR	PRJ - ADJ	Net.	?	Help
		↕	On		
Auto Search		↕	On		
Auto Sync		↕	On		
Auto Power Off		↕	On		
System Sound		↕	On		
Speaker		↕	On		
RS-232C		↕	9600 bps		
Fan Mode		↕	Normal		
System Lock		↕	Disable		

Lamp Timer(Life) [ 0 ] h ( 100% )

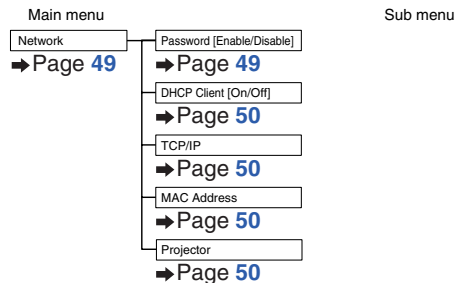
← SEL./ADJ.    ENTER    END



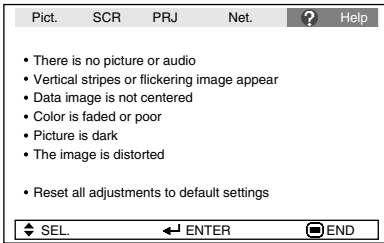
## “Network” menu

Pict.	SCR	PRJ	Network	?	Help
Password		↕	Disable		
DHCP Client		↕	On		
TCP/IP					
MAC Address			0 8 : 0 0 : 1 F : B 1 : B 7 : 7 4		
Projector			XG-MB67X-L		

← SEL./ADJ.    ENTER    END



## “Help” menu

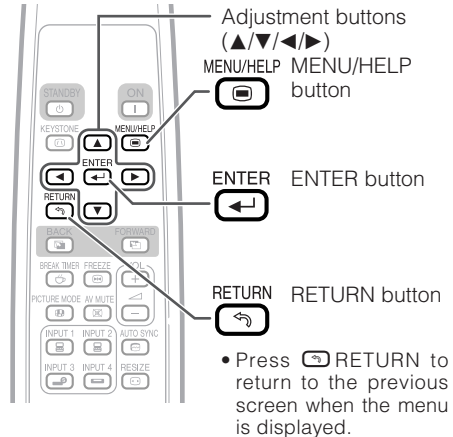
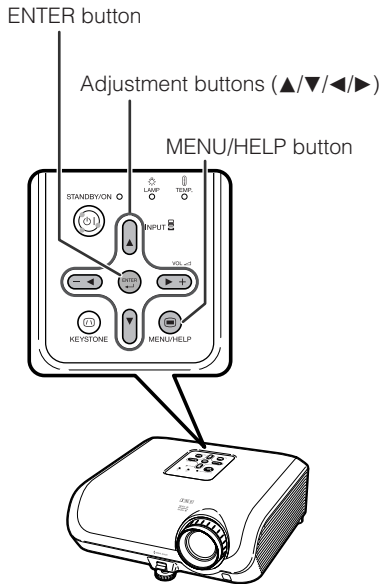


## The items you can set with the “Help” menu

### “Help” menu → Page 51

- Vertical stripes or flickering image appear
    - Auto Sync
    - Adjust vertical noise
    - Adjust horizontal noise
  - Data image is not centered
    - Auto Sync
    - H-Pos
    - V-Pos
  - Color is faded or poor
    - INPUT 1 or INPUT 2
      - Signal type: Auto/RGB/Component
    - INPUT 3 or INPUT 4
      - Video System: A u t o / P A L / S E C A M /
      - NTSC3.58/NTSC4.43/PAL-
      - M/PAL-N/PAL-60
- \* The selectable items vary depending on the input signal and the selected input mode.

# Using the Menu Screen



## Menu Selections (Adjustments)

Example: Adjusting "Bright".

- This operation can also be performed by using the buttons on the projector.

**1** Press **MENU**.

- The "Picture" menu screen for the selected input mode is displayed.

**2** Press **▶** or **◀** and select "Picture" to adjust.

Example: "Picture" screen menu for INPUT 1 (RGB) mode

Menu item

Picture	SCR	PRJ	Net.	Help
Picture Mode			Standard	
Contrast	[ 0 ]			
Bright	[ 0 ]			
Red	[ 0 ]			
Blue	[ 0 ]			
CLR Temp	[ 7500K ]			
Bright Boost	[ 1 ]			
Lamp Setting			Bright	
◆◆◆Reset				
◆SEL./ADJ.      ◀ENTER      END				


### 3 Press ▲ or ▼ and select “Bright” to adjust.

- The selected item is highlighted.

### To adjust the projected image while watching it Press ENTER.

- The selected item (e.g. “Bright”) is displayed by itself at the bottom of the screen.
- When pressing ▲ or ▼, the following item (“Red” after “Bright”) will be displayed.

#### Note

- Press  ENTER again to return to the previous screen.

### 4 Press ◀ or ▶ to adjust the item selected.

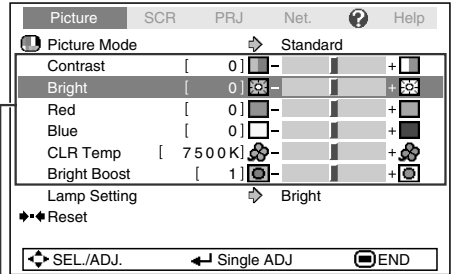
- The adjustment is stored.

### 5 Press MENU/HELP.

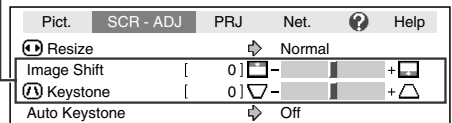
- The menu screen will disappear.

#### Note

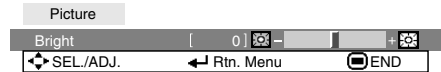
- Menu buttons do not function while the projector is operating the “Auto Sync”, “Break Time”, “FREEZE”, or “AV MUTE” functions.



Items to be adjusted



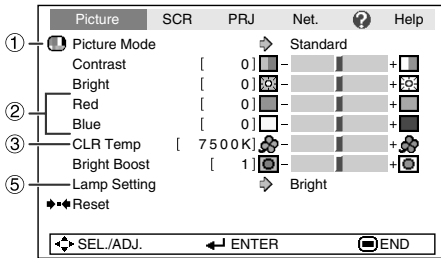
The item displayed by itself



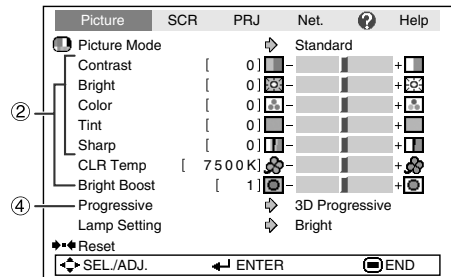
# Picture Adjustment (“Picture” menu)

Menu operation → Page 40

► Example: “Picture” screen menu for INPUT 1 (RGB) mode



► Example: “Picture” screen menu for INPUT 3 mode



## ① Selecting the Picture Mode

Selectable items	Description	The default settings of each item when selecting Picture Mode		
		CLR Temp	Bright Boost	Lamp Setting
Standard	For standard image	7500K	1	Bright
Presentation	Brightens portions of image for more enhanced presentations.	7500K	2	Bright
Movie	Gives natural tint to the projected image.	6500K	0	Eco + Quiet
Game	Gives sharpness to the projected image.	7500K	2	Bright
*sRGB	For high fidelity reproduction of images from a computer.	–	–	Bright

- “sRGB” is displayed only when RGB signal is input.
- You can set or adjust each item in the “Picture” menu to your preference. Any changes you make are retained in memory.

### Note

- You can also press PICTURE MODE on the remote control to select the picture mode. (See page 36.)
- \*sRGB is an international standard of color reproduction regulated by the IEC (International Electrotechnical Commission). As the fixed color area has been decided by the IEC, the images are displayed in a natural tint based on an original image, when “sRGB” is selected. For additional information about the sRGB function, visit “<http://www.srgb.com/>”. You cannot set the items, “Red”, “Blue”, “CLR Temp”, “Bright Boost”, when “sRGB” is selected.

### Info

- When “sRGB” is selected, the projected image may become dark, but this does not indicate a malfunction.

## ② Adjusting the Image

Adjustment Items	◀ button	▶ button
Contrast	For less contrast.	For more contrast.
Bright	For less brightness.	For more brightness.
Red* <sup>1</sup>	For weaker red.	For stronger red.
Blue* <sup>1</sup>	For weaker blue.	For stronger blue.
Color* <sup>2</sup>	For less color intensity.	For more color intensity.
Tint* <sup>2</sup> * <sup>3</sup>	For making skin tones purplish.	For making skin tones greenish.
Sharp* <sup>2</sup>	For less sharpness.	For more sharpness.
Bright Boost* <sup>1</sup>	For high fidelity color reproduction.	For more vividness.

\*1 Not adjustable/selectable when selecting "sRGB".

\*2 Not displayed in the RGB input mode.

\*3 "Tone" will appear on the menu screen only when PAL or SECAM signals are input (including when forcibly changed to those input signals). There is basically no need to adjust "Tone", but you can adjust the picture tone with this adjustment when inputting PAL or SECAM signals.

### Note

- "Bright Boost" and "CLR Temp" cannot be set when "sRGB" is selected.
- To reset all adjustment items, select "Reset" and press ENTER.

## ③ Adjusting the Color Temperature

Selectable items	Description
5500K 6500K 7500K 8500K 9300K 10500K	For lower color temperature for warmer, reddish incandescent-like images. 
	For higher color temperature for cooler, bluish, fluorescent-like images.

### Note

- Values on "CLR Temp" are only for general standard purposes.

## ④ Progressive

Selectable items	Description
2D Progressive	Useful to display fast-moving images such as sports.
3D Progressive	Useful to display relatively slow-moving images such as drama and documentary more clearly.
Film Mode	Reproduces the image of film source* clearly. Displays the optimized image of film transformed with three-two pull down (NTSC and PAL60Hz) or two-two pull down (PAL50Hz and SECAM) enhancement to progressive mode images.

\* The film source is a digital video recording with the original encoded as is at 24 frames/second. The projector can convert this film source to progressive video at 60 frames/second with NTSC and PAL60Hz or at 50 frames/second with PAL50Hz and SECAM to play back a high-definition image.

### Note

- In NTSC or PAL60Hz, even if the 3D Progressive mode has been set, the three-two pull down enhancement will be enabled automatically when the film source has been entered.
- When the image is blurred or noisy, switch to the optimal mode.
- When using progressive inputs, inputs are directly displayed so that 2D Progressive, 3D Progressive and Film Mode cannot be selected.

## ⑤ Lamp Setting

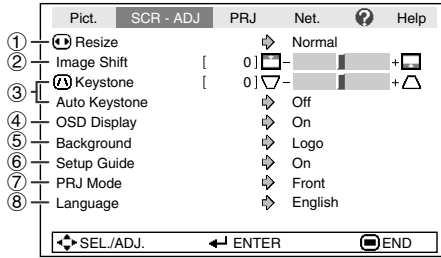
Selectable items	Brightness	Fan sound	Power consumption (When using AC 100V)	Lamp Life
Eco + Quiet	Approx. 80%	Low	280W	Approx. 3,000 hours
Bright	100%	Normal	350W	Approx. 2,000 hours

### Note

- When "Lamp Setting" is set to "Eco+Quiet", the power consumption will decrease and the lamp life will extend. (Projection brightness decreases approximately 20%.)

# Adjusting the Projected Image ("SCR - ADJ" menu)

Menu operation → Page 40



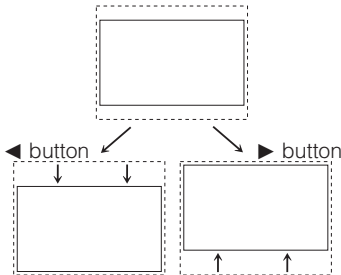
## ① Setting the Resize Mode

### Note

- For details of the Resize mode, see pages 34 and 35.
- You can also press **RESIZE** on the remote control to set the resize mode. (See page 34.)

## ② Adjusting the Image Position

You can move the projected image vertically.



### Note

- You cannot set this item when "Resize" is set to "Normal".

## ③ Keystone Correction

When the image is projected either from the top or from the bottom towards the screen at an angle, the image becomes distorted trapezoidally. The function for correcting trapezoidal distortion is called Keystone Correction.

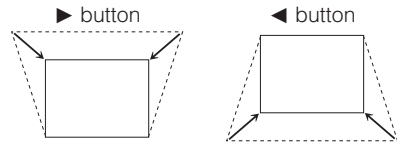
For Auto Keystone Correction

**Set "Auto Keystone" on the "SCR - ADJ" menu to "On".**

For Manual Keystone Correction

**Set "Auto Keystone" on the "SCR - ADJ" menu to "Off", select "Keystone", and then adjust with the slide bar.**

### Manual Correction



See page 33 for details of Keystone Correction.

### Note

- The Keystone Correction can be adjusted up to an angle of approximately  $\pm 13$  degrees (when "Resize" is set to "Normal").



## ④ Setting the On-screen Display

Selectable items	Description
On	All On-screen Displays are displayed.
Off	INPUT/VOLUME/AV MUTE/FREEZE/AUTO SYNC/RESIZE/PICTURE MODE/"An invalid button has been pressed." are not displayed.

## ⑤ Selecting the Background Image

Selectable items	Description
Logo	Sharp logo screen
Blue	Blue screen
None	—

## ⑥ Selecting the Setup Guide

Selectable items	Description
On	Displaying the Setup Guide when turning the projector on.
Off	Not displaying the Setup Guide.

## ⑦ Reversing/Inverting Projected Images

Selectable items	Description
Front	Normal image (Projected from the front of the screen)
Ceiling + Front	Inverted image (Projected from the front of the screen with an inverted projector)
Rear	Reversed image (Projected from the rear of the screen or with a mirror)
Ceiling + Rear	Reversed and inverted image (Projected with a mirror)

See page 19 for details of Projection (PRJ) Mode.

## ⑧ Selecting the On-screen Display Language

The projector can switch the on-screen display language among 11 languages.

English  
 Deutsch  
 Español  
 Nederlands  
 Français  
 Italiano  
 Svenska  
 Português  
 汉语  
 한국어  
 日本語

# Adjusting the Projector Function (“PRJ - ADJ” menu)

Menu operation → Page 40

	Pict.	SCR	PRJ - ADJ	Net.	?	Help
①			Auto Search	↕	On	
②			Auto Sync	↕	On	
③			Auto Power Off	↕	On	
④			System Sound	↕	On	
⑤			Speaker	↕	On	
⑥			RS-232C	↕	9600 bps	
⑦			Fan Mode	↕	Normal	
⑧			System Lock	↕	Disable	
⑨			Lamp Timer(Life)	[ 0 ] h	(100%)	
			SEL./ADJ.	ENTER	END	

## ① Auto Search Function

This function automatically searches for and switches to the input mode in which signals are being received, when the projector is turned on, or when the INPUT button is pressed.

### Note

#### When “Auto Search” is set to “On”

- If two or more input signals are found, the projector selects the input source in the order of INPUT 1 → INPUT 2 → INPUT 3 → INPUT 4 when you press INPUT (▲/▼) on the projector.
- While “Auto Search” is set to “On”, press INPUT 1, INPUT 2, INPUT 3 or INPUT 4 on the remote control to select an input mode other than the input mode selected by the projector.

## ② Auto Sync (Auto Sync Adjustment)

Selectable items	Description
On	Auto Sync adjustment will occur when the projector is turned on or when the input signals are switched, when connected to a computer.
Off	Auto Sync adjustment is not automatically performed.

### Note

- Auto Sync adjustment is also performed by pressing AUTO SYNC on the remote control.
- The Auto Sync adjustment may take some time to complete, depending on the image of the computer connected to the projector.
- When the optimum image cannot be achieved with Auto Sync adjustment, use manual adjustments. (See page 51.)

## ③ Auto Power Off Function

Selectable items	Description
On	When no input signal is detected for more than 15 minutes, the projector will automatically enter standby mode.
Off	The Auto Power Off function will be disabled.

### Note

- When the Auto Power Off function is set to “On”, 5 minutes before the projector enters standby mode, the message “Enter STANDBY mode in X min.” will appear on the screen to indicate the remaining minutes.

## ④ Setting the Confirmation Sound (System Sound)

Selectable items	Description
On	A confirmation sound is made when the projector turns on/off.
Off	No confirmation sound is made.

## ⑤ Speaker Setting

Selectable items	Description
On	The audio signal is output from the internal speaker.
Off	The audio signal is not output from the internal speaker.

## ⑥ Selecting the Transmission Speed (RS-232C)

Make sure that both the projector and computer are set for the same baud rate.

Selectable items	Description
9600bps	Transmission speed is slow.
	↕
115200bps	Transmission speed is rapid.

## ⑦ Fan Mode Setting

This function changes the fan rotation speed.

Selectable items	Description
Normal	Suitable for normal environments.
High	Select this when using the projector at altitudes of approximately 1,500 meters (4,900 feet) or more.

When “Fan Mode” is set to “High”, the fan rotation speeds up, and the fan noise becomes louder.

## ⑨ Checking the Lamp Life Status

You can confirm the cumulative lamp usage time and the remaining lamp life (percentage).

Lamp usage condition	Remaining lamp life		
	“Life”	100%	5%
Operated exclusively with Lamp Setting set to “Eco +Quiet”	Approx. 3,000 hours	Approx. 150 hours	
Operated exclusively with Lamp Setting set to “Bright”	Approx. 2,000 hours	Approx. 100 hours	

### Note

- It is recommended that the lamp be changed when the remaining lamp life becomes 5%.
- The lamp life may vary depending on the usage condition.

## ⑧ System Lock Function

This function prevents unauthorized use of the projector. Once this function is activated, users must enter the correct keycode each time the projector is turned on. **We suggest you record the keycode in a safe place where only authorized users have access.**

### Info

- If you lose or forget your keycode, contact your nearest Sharp Authorized Projector Dealer or Service Center (see page 63). Even if the product warranty is valid, the keycode reset will incur a charge.

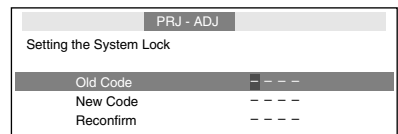
## ■ Setting/Changing the keycode

**1** Select “System Lock”, then press  **ENTER** or **▶**.

- The screen for entering the keycode appears.

**2** Press the 4 buttons on the remote control or on the projector to enter the preset keycode in “Old Code”.

- When setting the keycode for the first time, press **▼** on the projector for four times.



### Note

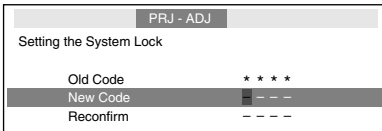
- If you input a wrong keycode, the cursor returns to the first point of the “Old Code”.
- The preset keycode is 4 **▼** buttons on the projector. When you press the **▼** button four times, the keycord input screen disappears.

# Adjusting the Projector Function (“PRJ - ADJ” menu) (Continued)

**3** Press the 4 buttons on the remote control or on the projector to enter the new keycode in “New Code”.

 **Note**

- You can not use the following buttons for keycode:
  - STANDBY/ON
  - ON
  - STANDBY
  - ENTER
  - RETURN
  - MENU/HELP
- System lock function recognizes each button on the remote control or on the projector as an individual button, even if they share the same button name. If you used the buttons on the projector in setting your keycode, the keycode cannot be canceled with the remote control.



**4** Enter the same keycode in “Reconfirm”.

 **Note**

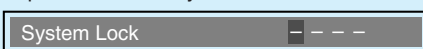
To cancel the keycode that you have already set

- Press ▼ on the projector for four times in steps 2 and 3 above.

**When the System Lock is set**

- When System Lock is set, the keycode input screen appears after the power is turned on. When it appears, enter the right keycode to start projection.


Input screen for keycode



## Locking the Operation Buttons on the Projector (Keylock Function)

Use this function to lock the operation buttons on the projector.

### Locking the Operation Buttons


Hold down  ENTER on the projector for about 5 seconds while the projector is being turned on.

#### ▼ On-screen Display

Keylock function ON



- The keylock function does not affect the operation with the remote control buttons.
- You cannot use the keylock function while the projector is warming up.

### Taking the Keylock off

Hold down  ENTER on the projector for about 5 seconds.

#### ▼ On-screen Display

Keylock function OFF

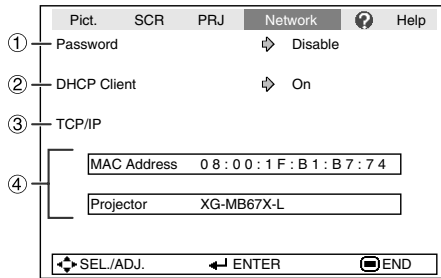
- When the projector is in standby mode, you can release the keylock by holding down  ENTER and  STANDBY/ON on the projector simultaneously for about 5 seconds.

### Info

- Keylock does not function while the projector is: displaying the “Setup Guide” or “Menu” screens, in standby mode, warming up, changing input signals, operating “Auto Sync” function, in “FREEZE” mode or on the “System Lock” screen during warming up.

# Setting up the Projector Network Environment (“Network” menu)

Menu operation → Page 40



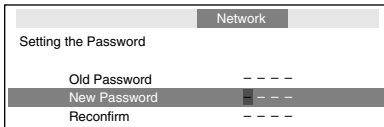
## ① Setting a Password

If you do not want others to change the setting for the “Network” menu, set a password.

### Setting a Password

#### 1 Select “Password”, then press **ENTER** or **▶**.

- The screen for entering the password appears.



#### 2 Press **▲** or **▼** to set the first digit in “New Password”, then press **▶**.

#### 3 Enter the remaining 3 digits, then press **ENTER**.

- To return to the previous digit, press **◀**.

#### 4 Enter the same password in “Reconfirm”, then press **ENTER**.

- The status for “Password” changes to “Enable”.

#### Note

- Once after the password is set, you must enter the password to change the “Network” menu settings.

### Changing the Password

#### 1 Select “Password”, then press **ENTER** or **▶**.

- The screen for entering the password appears.

#### 2 Enter the password in “Old Password” using **▲**, **▼**, **▶** and **◀**, then press **ENTER**.

#### 3 Enter the password in “New Password” using **▲**, **▼**, **▶** and **◀**, then press **ENTER**.

#### 4 Enter the same password again in “Reconfirm” using **▲**, **▼**, **▶** and **◀**, then press **ENTER**.

#### Note

- If you do not need the password protection for the “Network” menu settings anymore, press **ENTER** without entering new password in steps 3 and 4.
- To cancel the password settings, press **RETURN**.

### If you forget the password

If you forget the password, perform the following procedure to delete it, then set a new password.

#### On the projector, press



#### Note

- If **ENTER** is held down for more than 5 seconds, the operation buttons on the projector will be locked. (See page 48.)
- You cannot use the buttons on the remote control to delete the password.

# Setting up the Projector Network Environment (“Network” menu) (Continued)

Menu operation → Page 40

## ② DHCP Client Setting

Connect the LAN cable before turning the projector on. If not, the DHCP Client function does not work.

Selectable items	Description
On	Obtains configuration parameters for TCP/IP network automatically.
Off	Sets the TCP/IP manually.

Select “On” for “DHCP Client”, then press **↵**ENTER. “Obtaining IP Address...” appears, then the menu screen appears. Confirm the parameters of IP Address, Subnet Mask and Gateway on the TCP/IP screen.

If the DHCP server is not available, “Could not obtain IP Address.” appears.

In this case, set the TCP/IP manually. (See the item ③.)

## ③ TCP/IP Setting

Set the TCP/IP manually.

**1** Select “Off” for “DHCP Client”, then press **↵**ENTER.

**2** Select “TCP/IP”, then press **↵**ENTER.

**3** Enter “IP Address” using **▲, ▼, ►** and **◀**, then press **↵**ENTER.

Setting the TCP/IP	
IP Address	1 9 2 . 1 6 8 . 1 5 0 . 0 0 2
Subnet Mask	2 5 5 . 2 5 5 . 2 5 5 . 0 0 0
Gateway	0 0 0 . 0 0 0 . 0 0 0 . 0 0 0

**4** Enter “Subnet Mask” using **▲, ▼, ►** and **◀**, then press **↵**ENTER.

**5** Enter “Gateway” using **▲, ▼, ►** and **◀**, then press **↵**ENTER.

Selectable items	Description
IP Address	Factory default setting: 192.168.150.002 Enter an IP address appropriate for the network.
Subnet Mask	Factory default setting: 255.255.255.000 Set the subnet mask to the same as that of the computer and equipment on the network.
Gateway	Factory default setting: 000.000.000.000 * When not in use, set to “000.000.000.000”.

### Note

- Confirm the existing network’s segment (IP address group) to avoid setting an IP address that duplicates the IP addresses of other network equipment or computers. If “192.168.150.002” is not used in a network with an IP address of “192.168.150.XXX”, you don’t have to change the projector IP address.
- For details about each setting, consult your network administrator.

## ④ Confirming the Projector Information

You can confirm the MAC address and projector name.

Displayed items	Description
MAC Address	The MAC address of the projector is displayed.
Projector	The projector name is displayed.

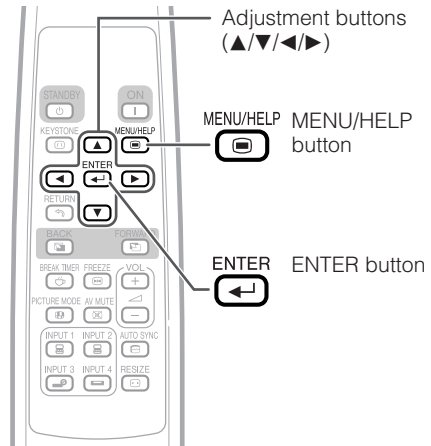
### Note

- For information on how to change the projector name, see “SETUP MANUAL” contained in the supplied CD-ROM.

# Troubleshooting with the “Help” menu

This function advises you to solve the problems during usage.

## Utilizing the “Help” menu functions

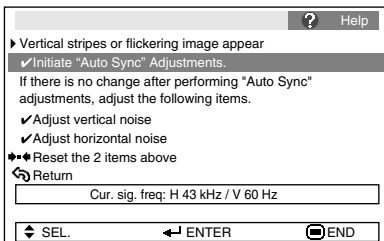
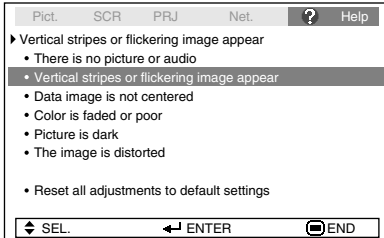


Example: When image flickering appears  
Operation to solve image flickering when projecting the computer RGB signal.

**1** Press MENU/HELP.

**2** Press or to select “Help”, then press ENTER.

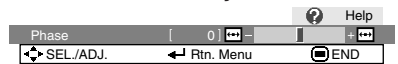
**3** Press or to select “Vertical stripes or flickering image appears” on Help menu, then press ENTER.



**4** Select “Initiate “Auto Sync” Adjustments”, then press ENTER.

**5** If the image is not improved, select “Adjust horizontal noise.”, then press ENTER.

**6** Press or to adjust.



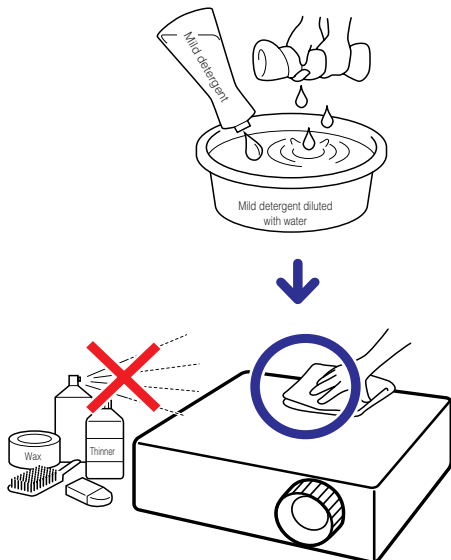
### Note

- You can adjust the items with check marks (✓).
- The items in the “Help” menu change, depending on the input signal or setting that you have selected.
- **If the problem is not solved, refer to “Troubleshooting”.** (See pages 61 and 62.)
- When selecting “sRGB” in “Picture Mode”, the item “Color is faded or poor” is not displayed. This means you cannot change input signal types.
- When you select “Reset all adjustments to default settings” and then press ENTER, the screen for entering the password appears if a password has been set. (See page 49.)

# Maintenance

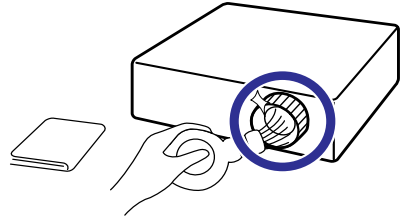
## Cleaning the projector

- Ensure that you have unplugged the power cord before cleaning the projector.
- The cabinet as well as the operation panel is made of plastic. Avoid using benzene or thinner, as these can damage the finish on the cabinet.
- Do not use volatile agents such as insecticides on the projector.  
Do not attach rubber or plastic items to the projector for long periods.  
The effects of some of the agents in the plastic may cause damage to the quality or finish of the projector.
- Wipe off dirt gently with a soft flannel cloth.
- When the dirt is hard to remove, soak a cloth in a mild detergent diluted with water, wring the cloth well and then wipe the projector. Strong cleaning detergents may discolor, warp or damage the coating on the projector. Make sure to test on a small, inconspicuous area on the projector before use.



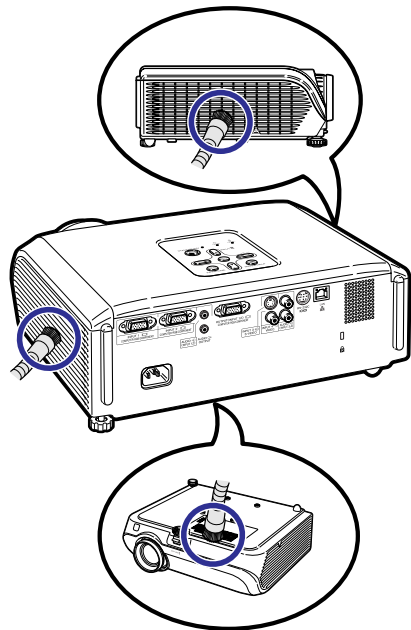
## Cleaning the lens

- Use a commercially available blower or lens cleaning paper (for glasses and camera lenses) for cleaning the lens. Do not use any liquid type cleaning agents, as they may wear off the coating film on the surface of the lens.
- As the surface of the lens can easily get damaged, be careful not to scrape or hit the lens.



## Cleaning the exhaust and intake vents

- Use a vacuum cleaner to clean dust from the exhaust vent and the intake vent.



## Info

- If you want to clean the air vents during projector operation, ensure you press **⏻** STANDBY/ON on the projector or **⏻** STANDBY on the remote control and put the projector into standby mode. After the cooling fan has stopped, clean the vents.



# Cleaning and Replacing the Dust Filters

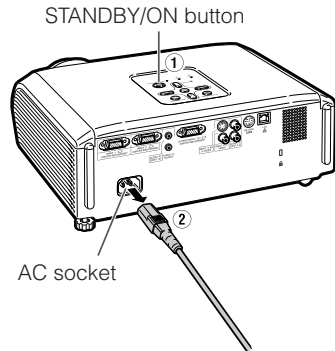
## Cleaning the Dust Filters

### Info

- The dust filters should be cleaned every 100 hours of use. Clean the filters more often when the projector is used in a dusty or smoky location.

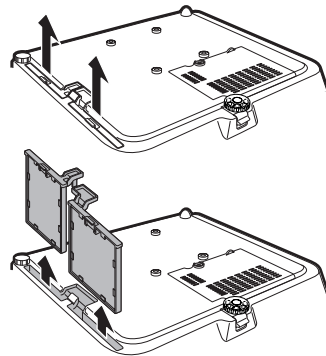
### 1 Press **STANDBY/ON** on the projector to put the projector into standby mode.

- Wait until the cooling fan stops.
- Disconnect the power cord and unplug the power cord from the AC socket.

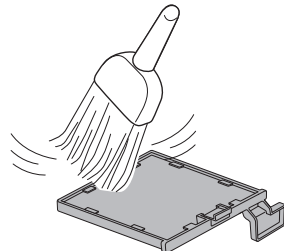


### 2 Remove the filter holders.

- Turn the projector over. To remove the filter holders, press in the tabs while lifting up.



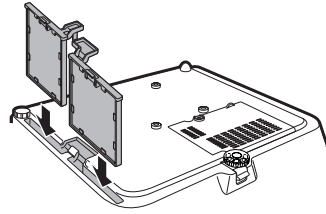
### 3 Clean the dust off the dust filters and the holders with a hand broom.



# Cleaning and Replacing the Dust Filters (Continued)

## 4 Replace the filter holders.

- Align the tabs on the filter holders while replacing them, and then press down on the tabs to lock them in place.



### Note

- Be sure the filter holders are securely installed. The power will not turn on unless it is correctly installed.

## Replacing the Dust Filters

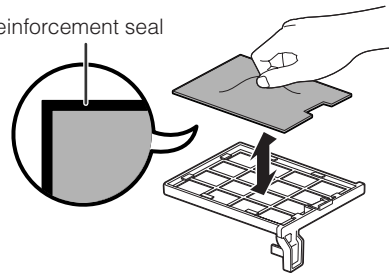
### Info

- If the filters become too dirty to clean effectively, purchase new ones (PFILDA025WJZZ) from your nearest Sharp Authorized Projector Dealer or Service Center.

**After removing the filter holders (see step 2 of “Cleaning the Dust Filters”), remove the dust filters, then replace with new ones.**

- Pick the dust filters up with your fingers and lift them out of the filter holders.
- With the reinforcement seal facing down, place the dust filters underneath the tabs on the filter holders.

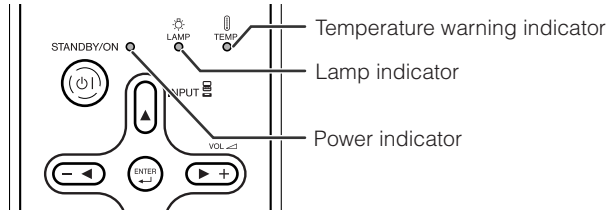
Reinforcement seal



# Maintenance Indicators

- The warning lights (power indicator, lamp indicator and temperature warning indicator) on the projector indicate problems inside the projector.
- If a problem occurs, either the temperature warning indicator or the lamp indicator will illuminate red, and the projector will enter standby mode. After the projector has entered standby mode, follow the procedures given below.

## Top View





### About the temperature warning indicator



If the temperature inside the projector increases, due to blockage of the air vents, or the setting location, "TEMP." will illuminate in the lower left corner of the picture. If the temperature keeps on rising, the lamp will turn off and the temperature warning indicator will blink, the cooling fan will run, and then the projector will enter standby mode. After "TEMP." appears, ensure you perform the measures described on page 56.

### About the lamp indicator



- When the remaining lamp life becomes 5% or less,  (yellow) and "Change The Lamp" will be displayed on the screen. When the percentage becomes 0%, it will change to  (red), the lamp will automatically turn off and then the projector will automatically enter standby mode. At this time, the lamp indicator will illuminate in red.
- **If you try to turn on the projector a fourth time without replacing the lamp, the projector will not turn on.**

### Indicators on the Projector

Power indicator	Red on	Normal (Standby)
	Green on	Normal (Power on)
	Red blinks	Abnormal (See page 56.)
	Green blinks	Normal (Cooling)
Lamp indicator	Green on	Normal
	Green blinks	The lamp is warming up or shutting down.
	Red on	The lamp is shut down abnormally or requires to be changed. (See page 56.)
Temperature warning indicator	Off	Normal
	Red on	The internal temperature is abnormally high. (See page 56.)

# Maintenance Indicators (Continued)

	Maintenance indicator		Problem	Cause	Possible Solution
	Normal	Abnormal			
Temperature warning indicator	Off	Red on (Standby)	The internal temperature is abnormally high.	<ul style="list-style-type: none"> <li>Blocked air intake</li> </ul>	<ul style="list-style-type: none"> <li>Relocate the projector to an area with proper ventilation. (See page 8.)</li> </ul>
				<ul style="list-style-type: none"> <li>Cooling fan breakdown</li> <li>Internal circuit failure</li> <li>Clogged air intake</li> </ul>	<ul style="list-style-type: none"> <li>Take the projector to your nearest Sharp Authorized Projector Dealer or Service Center (see page 63) for repair.</li> </ul>
Lamp indicator	Green on (Green blinks when the lamp is warming up or turning off.)	Red on (Standby)	The lamp does not illuminate.	<ul style="list-style-type: none"> <li>The lamp is shut down abnormally.</li> </ul>	<ul style="list-style-type: none"> <li>Disconnect the power cord from the AC outlet, and then connect it again.</li> </ul>
			Time to change the lamp.	<ul style="list-style-type: none"> <li>Remaining lamp life becomes 5% or less.</li> <li>Burnt-out lamp</li> <li>Lamp circuit failure</li> </ul>	<ul style="list-style-type: none"> <li>Carefully replace the lamp. (See page 58.)</li> <li>Take the projector to your nearest Sharp Authorized Projector Dealer or Service Center (see page 63) for repair.</li> <li>Please exercise care when replacing the lamp.</li> <li>Securely install the cover.</li> </ul>
Power indicator	Green on/ Red on  Green blinks (Cooling)	Red blinks	The power indicator blinks in red when the projector is on.	<ul style="list-style-type: none"> <li>The dust filter holder or lamp unit cover is open.</li> </ul>	<ul style="list-style-type: none"> <li>If the power indicator blinks in red even when the dust filter holders and lamp unit cover are securely installed, contact your nearest Sharp Authorized Projector Dealer or Service Center (see page 63) for advice.</li> </ul>

## Info

- If the temperature warning indicator illuminates, and the projector enters standby mode, follow the possible solutions above and then wait until the projector has cooled down completely before plugging in the power cord and turning the power back on. (At least 10 minutes.)
- If the power is turned off for a brief moment due to power outage or some other cause while using the projector, and the power supply recovers immediately after that, the lamp indicator will illuminate in red and the lamp may not be lit. In this case, unplug the power cord from the AC outlet, replace the power cord in the AC outlet and then turn the power on again.
- The cooling fan keeps the internal temperature of the projector constant and this function is controlled automatically. The sound of the cooling fan may change during operation because the fan speed may change and this is not a malfunction.
- Do not unplug the power cord after the projector has entered standby mode and while the cooling fan is running. The cooling fan runs for about 90 seconds.

# Regarding the Lamp

## Lamp

- It is recommended that the lamp (sold separately) be replaced when the remaining lamp life becomes 5% or less, or when you notice a significant deterioration in the picture and color quality. The lamp life (percentage) can be checked with the on-screen display. (See page 47.)
- Purchase a replacement lamp of type AN-XR20L2 from your place of purchase, nearest Sharp Authorized Projector Dealer or Service Center.

### IMPORTANT NOTE TO U.S. CUSTOMERS:

The lamp included with this projector is backed by a 90-day parts and labor limited warranty. All service of this projector under warranty, including lamp replacement, must be obtained through a Sharp Authorized Projector Dealer or Service Center. For the name of the nearest Sharp Authorized Projector Dealer or Service Center, please call toll-free: 1-888-GO-SHARP (1-888-467-4277).

**Hg LAMP CONTAINS MERCURY** For State Lamp Disposal Information

[www.lamprecycle.org](http://www.lamprecycle.org) or 1-800-BE-SHARP

U.S.A. ONLY

## Caution Concerning the Lamp

- This projector utilizes a pressurized mercury lamp. A loud sound may indicate lamp failure. Lamp failure can be attributed to numerous sources such as: excessive shock, improper cooling, surface scratches or deterioration of the lamp due to a lapse of usage time. The period of time up to failure largely varies depending on the individual lamp and/or the condition and the frequency of use. It is important to note that failure can often result in the bulb cracking.
- When the lamp replacement indicator and on-screen display icon are illuminated, it is recommended that the lamp be replaced with a new one immediately, even if the lamp appears to be operating normally.
- Should the lamp break, there is also a possibility that glass particles may spread inside of the projector. In such a case, it is recommended you contact your nearest Sharp Authorized Projector Dealer or Service Center to assure safe operation.
- Should the lamp break, the glass particles may spread inside the lamp cage or gas contained in the lamp may be vented into the room from the exhaust vent. Because the gas in this lamp includes mercury, ventilate the room well if the lamp breaks and avoid all exposure to the released gas. In case of exposure to the gas, consult a doctor as soon as possible.

## Replacing the Lamp



### Caution

- Do not remove the lamp unit from the projector right after use. The lamp will be very hot and may cause burn or injury.
  - **Carefully change the lamp by following the instructions described in this section. \* If you wish, you may have the lamp replaced at your nearest Sharp Authorized Projector Dealer or Service Center.**
- \* If the new lamp does not light after replacement, take your projector to the nearest Sharp Authorized Projector Dealer or Service Center for repair.

# Regarding the Lamp (Continued)

## Removing and Installing the Lamp Unit

### Warning!

- Do not remove the lamp unit from the projector right after use. The lamp and parts around the lamp will be very hot and may cause burns or injury.

### Info

- Make sure that you remove the lamp unit by the handle. Do not touch the glass surface of the lamp unit or the inside of the projector.
- To avoid injury to yourself and damage to the lamp, make sure you carefully follow the steps below.
- Do not loosen other screws except for the lamp unit cover and lamp unit.

**1** Press  **STANDBY/ON** on the projector or  **STANDBY** on the remote control to put the projector into standby mode.

- Wait until the cooling fan stops.

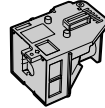
**2** **Disconnect the power cord.**

- Unplug the power cord from the AC socket.
- Leave the lamp until it has fully cooled down (about 1 hour).

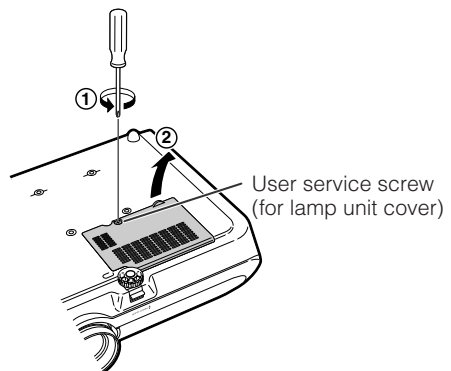
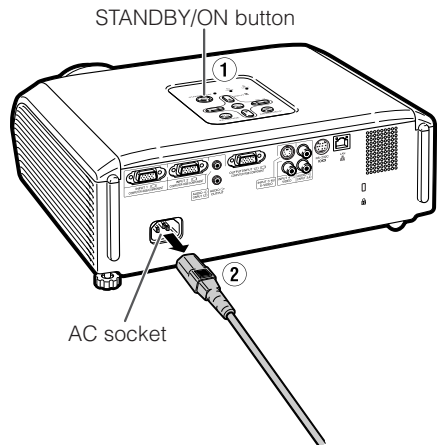
**3** **Remove the lamp unit cover.**

- Turn the projector over. Loosen the user service screw (1) that secures the lamp unit cover. Remove the lamp unit cover (2).

Optional accessory



Lamp unit  
AN-XR20L2



#### 4 Remove the lamp unit.

- Loosen the securing screws from the lamp unit. Hold the lamp unit by the handle and pull it in the direction of the arrow. At this time, keep the lamp unit horizontal and do not tilt it.

#### 5 Insert the new lamp unit.

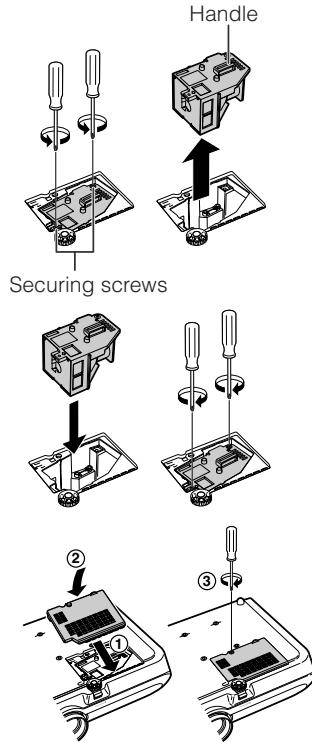
- Press the lamp unit firmly into the lamp unit compartment. Fasten the securing screws.

#### 6 Replace the lamp unit cover.

- Align the tab on the lamp unit cover (1) and place it while pressing the tab (2) to close it. Then tighten the user service screw (3) to secure the lamp unit cover.

#### Info

- If the lamp unit and lamp unit cover are not correctly installed, the power will not turn on, even if the power cord is connected to the projector.

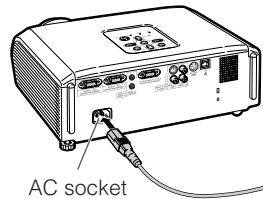


## Resetting the Lamp Timer

Reset the lamp timer after replacing the lamp.

#### Info

- Make sure to reset the lamp timer only when replacing the lamp. If you reset the lamp timer and continue to use the same lamp, this may cause the lamp to become damaged or explode.

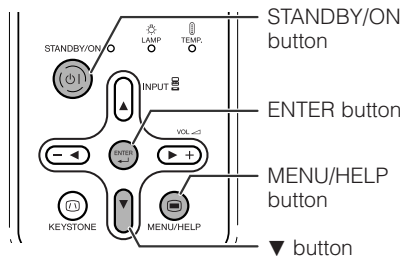


#### 1 Connect the power cord.

- Plug the power cord into the AC socket of the projector.

#### 2 Reset the lamp timer.

- While simultaneously holding down **MENU/HELP**, **ENTER** and **▼** on the projector, press **STANDBY/ON** on the projector.
- "LAMP 0000H" is displayed, indicating that the lamp timer is reset.



# Computer Compatibility Chart

## Computer

- Multiple signal support  
Horizontal Frequency: 15-70 kHz,  
Vertical Frequency: 45-85 Hz,  
Pixel Clock: 12-108 MHz  
Sync signal: Compatible with TTL level
- Compatible with sync on green signal
- Compatible with the signals below in intelligent compression: SXGA, SXGA+
- Intelligent Compression and Expansion System resizing technology

The following is a list of modes that conform to VESA. However, this projector supports other signals that are not VESA standards.

PC/MAC	Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	VESA Standard	Display		
PC	VGA	640 × 350	27.0	60		Upscale	
			31.5	70			
			37.5	85	✓		
		640 × 400	27.0	60			
			31.5	70			
			37.9	85	✓		
		720 × 350	27.0	60			
			31.5	70			
			37.9	85	✓		
		640 × 480	720 × 400	27.0	60		
				31.5	70		
				37.9	85		✓
	640 × 480		26.2	50			
			31.5	60	✓		
			34.7	70			
	SVGA	800 × 600	37.9	72	✓		
			37.5	75	✓		
			43.3	85	✓		
			31.4	50			
			35.1	56	✓		
			37.9	60	✓		
			46.6	70	✓		
			48.1	72	✓		
			46.9	75	✓		
53.7			85	✓			
40.3			50				
XGA			1,024 × 768	48.4	60	✓	
	56.5	70		✓			
	60.0	75		✓			
	68.7	85		✓			
	55.0	60					
	66.2	70					
SXGA	1,152 × 864	67.5	75	✓			
		64.0	60	✓			
		64.0	60				
SXGA+	1,400 × 1,050	34.9	67				
MAC 13"	VGA	640 × 480	49.7	75	Upscale		
MAC 16"	VGA	832 × 624	60.2	75	True		
MAC 19"	XGA	1,024 × 768	68.7	75	Intelligent Compression		
MAC 21"	SXGA	1,152 × 870					



### Note






- When this projector receives 640 × 350 VESA format VGA signals, "640 × 400" appears on the screen.
- Optimum image quality will be achieved by matching your computer's output resolution to the projector's native resolution (1024 x 768).

## DTV

Signal	Horizontal Frequency (kHz)	Vertical Frequency (Hz)
480I	15.7	60
480P	31.5	60
540P	33.8	60
576I	15.6	50
576P	31.3	50
720P	45.0	60
1035I	28.1	50
1035I	33.8	60
1080I	28.1	50
1080I	33.8	60



# Troubleshooting

Problem	Check	Page
 No picture and no sound or projector does not start.	<ul style="list-style-type: none"> <li>• Projector power cord is not plugged into the wall outlet.</li> </ul>	<a href="#">27</a>
	<ul style="list-style-type: none"> <li>• Power to the external connected devices is off.</li> </ul>	–
	<ul style="list-style-type: none"> <li>• The selected input mode is wrong.</li> </ul>	<a href="#">32</a>
	<ul style="list-style-type: none"> <li>• Cables incorrectly connected to the projector.</li> </ul>	<a href="#">23–27</a>
	<ul style="list-style-type: none"> <li>• Remote control battery has run out.</li> </ul>	<a href="#">15</a>
	<ul style="list-style-type: none"> <li>• External output has not been set when connecting notebook computer.</li> </ul>	<a href="#">23</a>
 Sound is heard but no picture appears (or picture is dark).	<ul style="list-style-type: none"> <li>• The lamp unit cover is not installed correctly.</li> </ul>	<a href="#">58, 59</a>
	<ul style="list-style-type: none"> <li>• Cables incorrectly connected to the projector.</li> </ul>	<a href="#">23–27</a>
	<ul style="list-style-type: none"> <li>• “Bright” is set to minimum position.</li> </ul>	<a href="#">43</a>
 Color is faded or poor.	<ul style="list-style-type: none"> <li>• Image adjustments are incorrectly set.</li> <li>• Make adjustments of “Color” and “Tint” in “Picture Mode” and lower the “Bright Boost” value.</li> </ul>	<a href="#">43</a>
	(Video Input only) <ul style="list-style-type: none"> <li>• Video input system is incorrectly set.</li> </ul>	<a href="#">51</a>
 Picture is blurred; noise appears.	<ul style="list-style-type: none"> <li>• Adjust the focus.</li> </ul>	<a href="#">30</a>
	<ul style="list-style-type: none"> <li>• The projection distance exceeds the focus range.</li> </ul>	<a href="#">20</a>
	<ul style="list-style-type: none"> <li>• There is fog on the lens. If the projector is carried from a cold room into a warm room, or if it is suddenly heated, condensation may form on the surface of the lens and the image will become blurred. Set up the projector at least one hour before it is to be used. If condensation should form, remove the power cord from the wall outlet and wait for it to clear.</li> </ul>	–
	(Computer Input only) <ul style="list-style-type: none"> <li>• Perform “Fine Sync” Adjustments (“Clock” Adjustment)</li> <li>• Perform “Fine Sync” Adjustments (“Phase” Adjustment)</li> <li>• Noise may appear depending on the computer.</li> </ul>	<a href="#">51</a> <a href="#">51</a> –
	<ul style="list-style-type: none"> <li>• Cables incorrectly connected to the projector.</li> </ul>	<a href="#">23–27</a>
 Picture appears but no sound is heard.	<ul style="list-style-type: none"> <li>• Volume is set to minimum.</li> <li>• When the projector is connected to an external device and the volume is set to minimum, the sound is not output even if you turn up the volume of the external device.</li> </ul>	<a href="#">32</a>
	<ul style="list-style-type: none"> <li>• “Speaker” is set to “Off”.</li> </ul>	<a href="#">46</a>
	<ul style="list-style-type: none"> <li>• If the picture is normal, the sound is due to cabinet shrinkage caused by room temperature changes. This will not affect operation or performance.</li> </ul>	–

# Troubleshooting (Continued)

Problem	Check	Page
Maintenance indicator on the projector illuminates or blinks in red.	<ul style="list-style-type: none"> <li>See "Maintenance Indicators".</li> </ul>	<b>55</b>
The projector cannot be turned on or put into the standby mode using the STANDBY/ON button on the projector.	<ul style="list-style-type: none"> <li>The keylock is set. If the keylock is set to "ON", all the buttons are locked.</li> </ul>	<b>48</b>
Picture is green on INPUT 1 (COMPONENT)/INPUT 2 (COMPONENT).	<ul style="list-style-type: none"> <li>Change the input signal type setting.</li> <li>When you cannot select an input signal type, select "Color is faded or poor" in the "Help" menu, after selecting an item other than "sRGB" in "Picture Mode", and then select an input signal type.</li> </ul>	<b>51</b> <b>42, 51</b>
Picture is pink (no green) on INPUT 1 (RGB)/INPUT 2 (RGB).		
Picture is too bright and whitish.	<ul style="list-style-type: none"> <li>Image adjustments are incorrectly set.</li> </ul>	<b>43</b>
The cooling fan becomes noisy.	<ul style="list-style-type: none"> <li>When temperature inside the projector increases, the cooling fan runs faster.</li> </ul>	<b>8, 9</b> <b>52–56</b>
The lamp does not light up even after the projector turns on.	<ul style="list-style-type: none"> <li>The lamp indicator is illuminating in red. Replace the lamp.</li> </ul>	<b>55, 58</b>
The lamp suddenly turns off during projection.		
The image sometimes flickers.	<ul style="list-style-type: none"> <li>Cables incorrectly connected to the projector or the connected equipment works improperly.</li> <li>Select "Vertical stripes or flickering image appear" in the "Help" menu and make the necessary adjustments.</li> <li>If this happens frequently, replace the lamp.</li> </ul>	<b>23–27</b>
		<b>51</b>
		<b>58</b>
The lamp needs much time to turn on.	<ul style="list-style-type: none"> <li>The lamp will eventually need to be changed. While the remaining lamp life draws to a close, replace the lamp.</li> </ul>	<b>58</b>
Picture is dark.		
The remote control cannot be used.	<ul style="list-style-type: none"> <li>Operate the remote control while pointing it at the projector's remote control sensor.</li> <li>The remote control may be too far away from the projector.</li> <li>If direct sunlight or a strong fluorescent lamp is shining on the projector's remote control sensor, place the projector where it will not be affected by strong light.</li> </ul>	<b>15</b>
		<ul style="list-style-type: none"> <li>The batteries may be depleted or inserted incorrectly. Make sure the batteries are inserted correctly or insert new ones.</li> </ul>

This unit is equipped with a microprocessor. Its performance could be adversely affected by incorrect operation or interference. If this should happen, unplug the Unit and plug it in again after more than 5 minutes.

# For SHARP Assistance

If you encounter any problems during setup or operation of this projector, first refer to the “Troubleshooting” section on pages 61 and 62. If this operation manual does not answer your question, please contact the SHARP Service departments listed below.

<b>U.S.A.</b>	<b>Sharp Electronics Corporation</b> 1-888-GO-SHARP (1-888-467-4277) lcdsupport@sharpsec.com <a href="http://www.sharp-usa.com">http://www.sharp-usa.com</a>	<b>Benelux</b>	<b>SHARP Electronics Benelux BV</b> 0900-SHARPCE (0900-7427723) Nederland 9900-0159 Belgium <a href="http://www.sharp.nl">http://www.sharp.nl</a> <a href="http://www.sharp.be">http://www.sharp.be</a> <a href="http://www.sharp.lu">http://www.sharp.lu</a>
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<b>Mexico</b>	<b>Sharp Electronics Corporation Mexico Branch</b> (525) 716-9000 <a href="http://www.sharp.com.mx">http://www.sharp.com.mx</a>	<b>New Zealand</b>	<b>Sharp Corporation of New Zealand</b> (09) 634-2059, (09) 636-6972 <a href="http://www.sharp.net.nz">http://www.sharp.net.nz</a>
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<b>U.K.</b>	<b>Sharp Electronics (U.K.) Ltd.</b> 08705 274277 <a href="http://www.sharp.co.uk/customersupport">http://www.sharp.co.uk/customersupport</a>	<b>Taiwan</b>	<b>Sharp Corporation (Taiwan)</b> 0800-025111 <a href="http://www.sharp-scot.com.tw">http://www.sharp-scot.com.tw</a>
<b>Italy</b>	<b>Sharp Electronics (Italy) S.P.A.</b> (39) 02-89595-1 <a href="http://www.sharp.it">http://www.sharp.it</a>	<b>Malaysia</b>	<b>Sharp-Roxy Sales &amp; Service Co.</b> (60) 3-5125678
<b>France</b>	<b>Sharp Electronics France</b> 01 49 90 35 40 hotlineced@sef.sharp-eu.com <a href="http://www.sharp.fr">http://www.sharp.fr</a>	<b>U.A.E.</b>	<b>Sharp Middle East Fze</b> 971-4-81-5311 helpdesk@smef.global.sharp.co.jp
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# Specifications

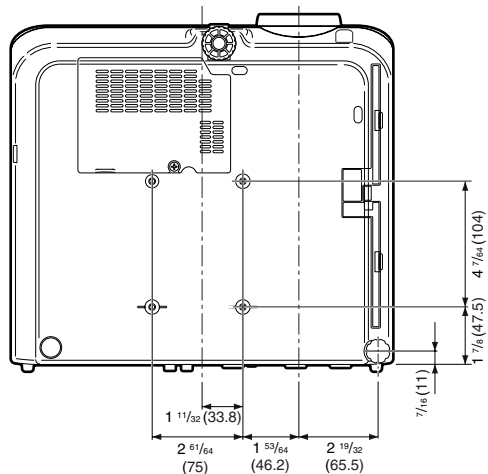
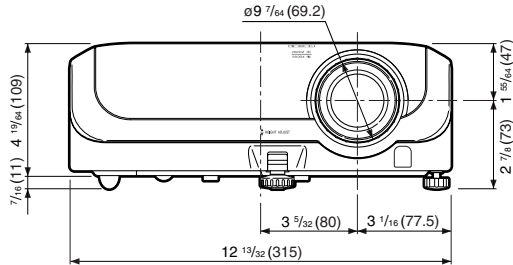
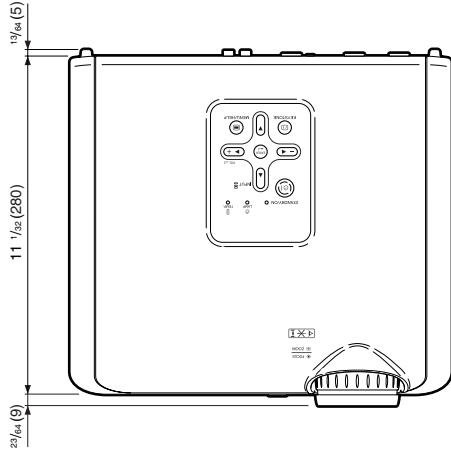
Product type	Projector
Model	XG-MB67X-L
Video system	NTSC3.58/NTSC4.43/PAL/PAL-M/PAL-N/PAL-60/SECAM/DTV480I/DTV480P/ DTV540P/DTV576I/DTV576P/DTV720P/DTV1035I/DTV1080I/DTV1080I-50
Display method	Single Chip Digital Micromirror Device™ (DMD™) by Texas Instruments
DMD panel	Panel size: 0.55" (14 mm), 1chip XGA DMD No. of dots: 786,432 dots (1,024 [H] × 768 [V])
Lens	1–1.15 × zoom lens, F2.4–2.6, f = 18.7–21.5 mm
Projection lamp	275 W DC lamp
Component input signal	15-pin mini D-sub connector
(INPUT1/2)	Y: 1.0 Vp-p, sync negative, 75 Ω terminated P <sub>B</sub> : 0.7 Vp-p, 75 Ω terminated P <sub>R</sub> : 0.7 Vp-p, 75 Ω terminated
Horizontal resolution	600 TV lines (DTV720P)
Computer RGB input	15-pin mini D-sub connector
(INPUT 1/2)/output	RGB separate/sync on green type analog input: 0–0.7 Vp-p, positive, 75 Ω terminated
(OUTPUT) signal	HORIZONTAL SYNC. SIGNAL: TTL level (positive/negative) VERTICAL SYNC. SIGNAL: Same as above
S-video input signal	4-pin mini DIN connector
(INPUT 3)	Y (luminance signal): 1.0 Vp-p, sync negative, 75 Ω terminated C (chrominance signal): Burst 0.286 Vp-p, 75 Ω terminated
Video input signal	RCA connector: VIDEO, composite video, 1.0 Vp-p, sync negative, 75 Ω
(INPUT 4)	terminated
Vertical frequency	45–85 Hz
Horizontal frequency	15–70 kHz
Pixel clock	12–108 MHz
RS-232C terminal	9-pin mini DIN connector
LAN terminal	8-pin RJ-45 modular connector
Audio input signal	ø3.5 mm minijack or RCA terminal: 0.5 Vrms, more than 22 kΩ (stereo)
Audio output signal	ø3.5 mm minijack: 0.5 Vrms, less than 2.2 kΩ
(AUDIO OUTPUT 1-4)	
Speaker system	4 cm × 2.85 cm oval × 1
Rated voltage	AC 100–240 V
Input current	3.6 A
Rated frequency	50/60 Hz
Power consumption	350 W (Lamp Setting "Bright")/ 280 W (Lamp Setting "Eco + Quiet") with AC 100 V 330 W (Lamp Setting "Bright")/ 270 W (Lamp Setting "Eco + Quiet") with AC 240 V
Power consumption (standby)	9.2 W (AC 100 V) – 10.0 W (AC 240 V)
Heat dissipation	1,315 BTU/hour (Lamp Setting "Bright")/ 1,050 BTU/hour (Lamp Setting "Eco + Quiet") with AC 100 V 1,240 BTU/hour (Lamp Setting "Bright")/ 1,010 BTU/hour (Lamp Setting "Eco + Quiet") with AC 240 V
Operating temperature	41°F to 95°F (+5°C to +35°C)
Storage temperature	–4°F to 140°F (–20°C to +60°C)
Cabinet	Plastic
I/R carrier frequency	38 kHz
Dimensions (approx.)	12 <sup>13</sup> / <sub>32</sub> " × 4 <sup>19</sup> / <sub>64</sub> " × 11 <sup>1</sup> / <sub>32</sub> " (315 (W) × 109 (H) × 280 (D) mm) (main body only) 12 <sup>13</sup> / <sub>32</sub> " × 4 <sup>47</sup> / <sub>64</sub> " × 11 <sup>37</sup> / <sub>64</sub> " (315 (W) × 120 (H) × 294 (D) mm) (including adjustment foot and projecting parts)
Weight (approx.)	8.6 lbs. (3.9 kg)
Replacement parts	Remote control, Power cord for U.S. and Canada, etc., Power cord for Europe, except U.K., Power cord for U.K. and Singapore, Power cord for Australia, New Zealand and Oceania, RGB cable, DIN-D-sub RS-232C adaptor, Operation manual (Printed and CD-ROM), Dust filter

*As a part of policy of continuous improvement, SHARP reserves the right to make design and specification changes for product improvement without prior notice. The performance specification figures indicated are nominal values of production units. There may be some deviations from these values in individual units.*



# Dimensions

Units: inches (mm)



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