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MP8635 Multimedia Projector

Operator's Guide

Projecteur multimédia MP8635-Guide de l'opérateur

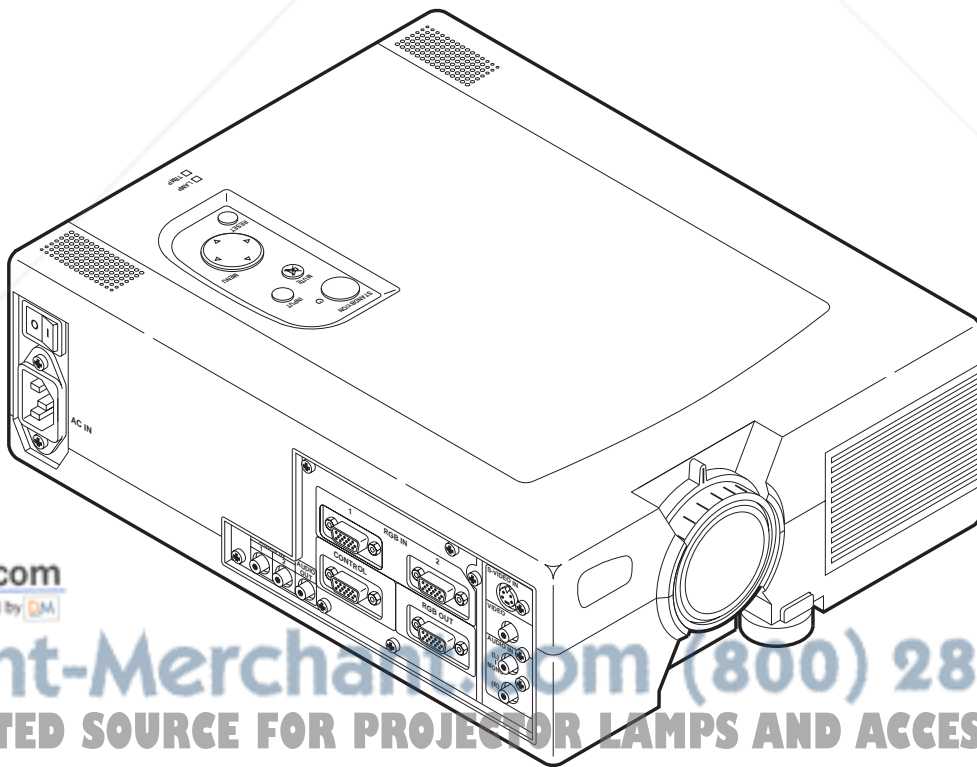
MP8635 Multimedia-Projektor Benutzerhandbuch

Projector de Multimedia MP8635 Manual del Usuario

MP8635 Proiettore Multimediale Manuale dell'operatore

MP8635 Bruksanvisning för multimediprojektor

MP8635 Multimedia Projector Gebruiksaanwijzing




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ENGLISH

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INTENDED USE

Before operating the machine, please read the entire manual thoroughly. The 3M™ Multimedia Projector 8635 was designed, built and tested for use indoors, using 3M™ brand lamps, 3M™ brand ceiling mount hardware and nominal local voltages. The use of other replacement lamps, outdoor operation, environments containing heavy cigarette smoke or different voltages have not been tested and could damage the projector or peripheral equipment and/or create a potentially unsafe operating condition.

IMPORTANT SAFEGUARDS

1. Read and understand all instructions before using.
Pay particular attention to areas where this ⚠ symbol is shown.

⚠ WARNING - Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

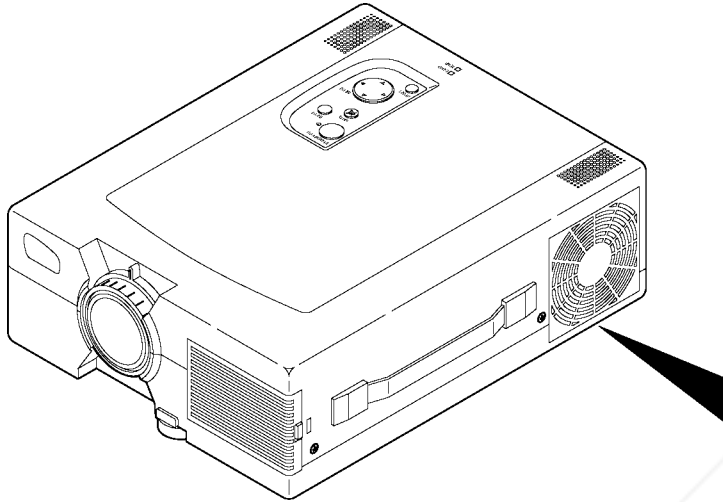
⚠ Caution - Indicates a potentially hazardous situation which, if not avoided, could result in minor or moderate injury. It may also be used to alert against unsafe practices.

✓ Note - Used to emphasis important conditions or details.

2. Close supervision is necessary when any appliance is used by or near children. Do not leave appliance unattended while in use.
3. Never look directly into the projector lens when the lamp is on. The metal halide lamp produces a strong light which could damage your eyesight.
4. Care must be taken as burns can occur from touching hot parts.
5. Do not operate appliance with a damaged cord or if the appliance has been dropped or damaged – until it has been examined by a qualified service technician.
6. Position the cord so that it will not be tripped over, pulled, or contact hot surfaces.
7. If any extension cord is necessary, a cord with a current rating at least equal to that of the appliance should be used. Cords rated for less amperage than the appliance may overheat.
8. Always unplug appliance from electrical outlet before cleaning and servicing and when not in use. Grasp plug and pull to disconnect.
9. To reduce the risk of electric shock, do not immerse this appliance in water or other liquids.
10. To reduce the risk of electric shock, do not disassemble this appliance, but take it to a qualified technician when service or repair work is required. Incorrect assembly can cause electric shock when the appliance is subsequently used.
11. Connect this appliance to a grounded outlet.
12. Do not expose this projector to direct sunlight, or use it outside.
13. Keep all ventilation openings free of any obstructions.
14. Always open the lens shutter or remove lens cap when the projection lamp is on.
15. Do not look directly into light beam of laser pointer. The pointer produces a strong light which could damage your eyesight.
16. The projection lamp contains mercury. Always dispose of it in a proper manner according to local regulations.
17. To avoid premature lamp failure, do not change the mounting position of the projector (desktop ceiling mount or ceiling desktop mount) and continue to use the same lamp.
18. Always operate machine on a flat, sturdy surface.

LOCATION OF PRODUCT SAFETY LABELS

Safety labels are used on or within the MP8635 projector to alert you to items or areas requiring your attention.

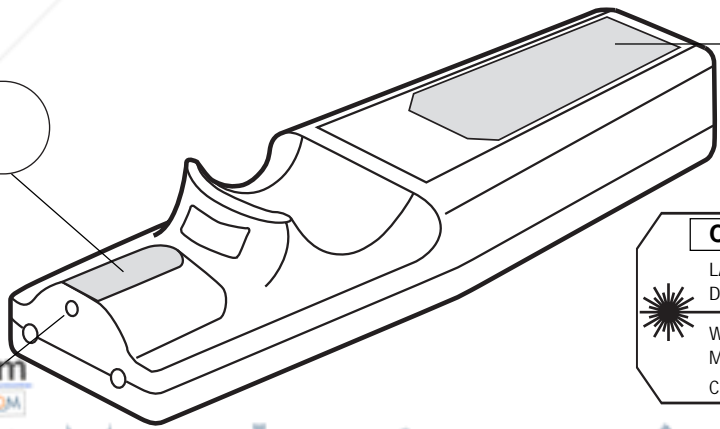


HIGH TEMPERATURE / HAUTE TEMPERATURE / HOCHTEMPERATUR / ALTA TEMPERATURA / ALTA TEMPERATURA **3M**

- When replacing lamp, turn off and unplug unit, wait 45 minutes to let lamp cool. High-pressure lamp when hot, may explode if improperly handled.
- Pour changer la lampe, éteindre et débrancher la machine. Attendre 45 minutes de manière à laisse refroidir la lampe. La lampe haute pression risque d'exploser si elle est manipulée sans précaution lorsqu'elle est encore chaude.
- Vor Austausch der Lampe, das Gerät abschalten und den Stecker herausziehen; 45 Minuten warten, um die Lampe abkühlen zu lassen. Falls die heiÙe Hochdrucklampe falsch gehandhabt wird, kann sie explodieren.
- Prima di sostituire la lampadina, spegnere il proiettore, scollegare la presa di alimentazione ed attendere 45 minuti circa che la lampadina si raffreddi. Se calda, essa è sottoposta ad alta pressione interna e può esplodere.
- Cuando tenga que reemplazar la lámpara, desconecte la alimentación y desenchufe la unidad, y espere 45 minutos para dejar que se enfríe la lámpara. La lámpara, que está a alta presión cuando está caliente, puede explotar si se manipula indebidamente.

QL06982

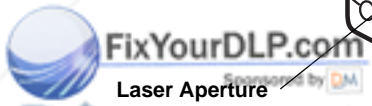
AVOID EXPOSURE-LASER RADIATION IS EMITTED FROM THIS APERTURE



CAUTION

LASER RADIATION
DO NOT STARE INTO BEAM

WAVE LENGTH: 670 nm
MAX. OUTPUT: 1mW
CLASS II LASER PRODUCT



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SAVE THESE INSTRUCTIONS FOR PROJECTOR LAMPS AND ACCESSORIES

The information contained in this manual will help you operate and maintain your 3M MP8635 Multimedia Projector.



Warranty

LIMITED WARRANTY

3M warrants this product against any defects in material and workmanship, under normal usage and storage, for a period of two years from date of purchase. Proof of purchase date will be required with any warranty claim. In the event this product is found to be defective within the warranty period, 3M's only obligation and your exclusive remedy shall be replacement of any defective parts (labor included).

To obtain warranty service, immediately notify the dealer from which you purchased the product of any defects. In the USA call 1-800-328-1371 for warranty or repair service.

LIMITATION OF LIABILITY

THE FOREGOING WARRANTY IS MADE IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, AND 3M SPECIFICALLY DISCLAIMS ANY IMPLIED WARRANTY OF MERCHANTABILITY AND FITNESS. 3M SHALL NOT BE LIABLE FOR ANY DAMAGES, DIRECT, CONSEQUENTIAL, OR INCIDENTAL, ARISING OUT OF THE USE OR INABILITY TO USE THIS PRODUCT.

Important: The above warranty shall be void if the customer fails to operate product in accordance with 3M's written instructions. This warranty gives you specific legal rights and you may have other rights which vary from state to state.

FCC STATEMENT - CLASS A: This equipment generates, uses and can radiate radio frequency energy, and if not installed and used in accordance with the instruction manual may cause interference to radio communications. It has been tested and found to comply with the limits for a Class "A" computing device pursuant to Subpart B of Part 15 of the FCC Rules, which are designed to provide reasonable protection against such interference when operated in a commercial environment. Operation of this equipment in a residential area is likely to cause interference in which case the user at his/her own expense will be required to take whatever measures may be required to correct the interference.

EEC STATEMENT: This machine was tested against the 89/336/EEC (European Economic Community) for EMC (Electro Magnetic Compatibility) and fulfills these requirements.

Video Signal Cables: Double shielded coaxial cables (FCC shield cable) must be used and the outer shield must be connected to the ground. If normal coaxial cables are used, the cable must be enclosed in metal pipes or in a similar way to reduce the interference noise radiation.

Video Inputs: The input signal amplitude must not exceed the specified level.

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Section 1: Unpack

ENGLISH

1.1 Contents of Shipping Box

The 3M™ MP8635 Multimedia Projector is shipped with the necessary cables required for standard VCR, PC, MAC™ II or laptop computer connections. Carefully unpack and verify that you have all of the items shown below in Figure 1.1.

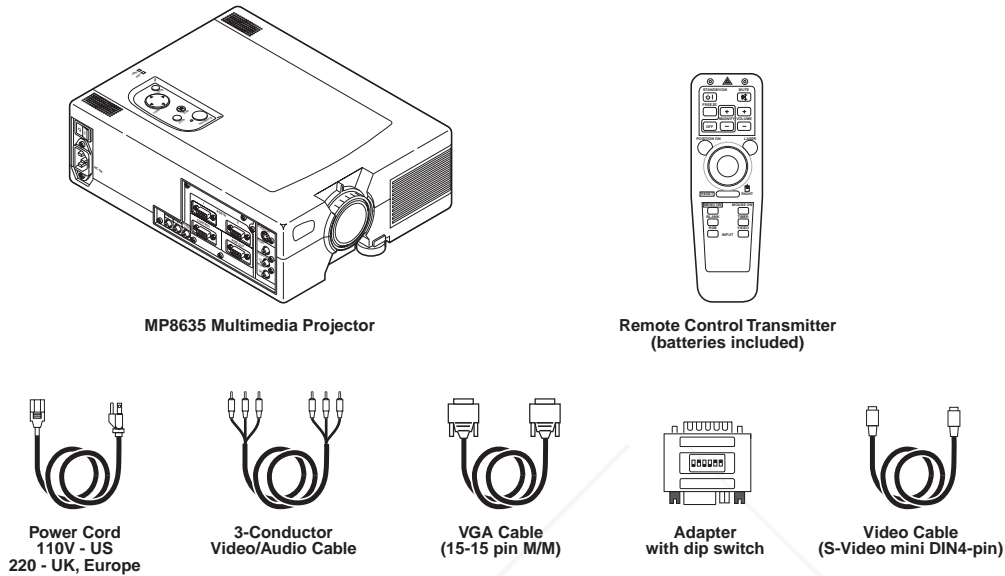


Figure 1.1 Inventory of Shipping Box

The shipping carton contains the items illustrated in Figure 1.1. In addition, the following items are also included, but not shown here. If any of these items are missing, please contact your place of purchase.

- PS/2 mouse cable (1)
- ADB mouse cable (1)
- Serial mouse cable (1)
- Stereo mini-jack (1)

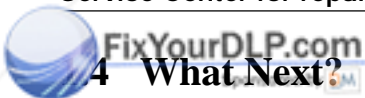
1.2 Optional Accessories

- RS-232 control cable (1)

1.3 Keep Your Packaging Materials

✓ Important

Save the shipping box and packing materials in the event the MP8635 should require shipping to a 3M Service Center for repair.



4 What Next?

After you have unpacked the MP8635 system and identified all the parts, you are ready to set up the projector.

We hope you will enjoy using this high performance product in your meetings, presentations and training sessions.

This product has been produced in accordance with 3M's highest quality and safety standards to ensure smooth and trouble free use in the years to come.

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Section 2: Product Description

2.1 Machine Characteristics

The MP8635 Multimedia Projector integrates ultra-high performance lamp and polysilicon LCD display technology into a single unit. It accepts input from two different computer sources and one video/audio source and projects a bright, super crisp image. Switching your presentation from a computer input to a video input, and then back to a computer input simply requires the push of a button on the remote control keypad or control panel keypad.

The MP8635 Multimedia Projector offers the following features:

- Ultra-high performance projection lamp
- SVGA resolution (3 separate 800 x 600 LCD panels are used for the R, G and B signals)
- Intelligent XGA andVGA scaling
- Compact size, light weight for portability
- RGB (computer video) output terminal
- Serial, PS/2 and Apple Desktop Bus (ADB) mouse emulation
- Manual zoom and manual focus functions
- 4x digital magnification
- Easy to set up and use
- Ability to display 16.7 million colors
- Two computer input connections
- One video input connection (composite and S-video compatible)
- Full function remote control
- Built-in speakers (1 watt each)
- Horizontal and vertical image inverting function
- Horizontal and vertical image position control
- Fixed keystone correction
- On screen menu with seven languages
- Universal power supply
- IR sensor in front and rear for maximum remote control range
- RS-232 control capability
- Optional ceiling mount kit
- Laser pointer (remote control)
- Color balance control for data/video
- Mounting holes for optional document camera

✓ Note

The MP8635 is one of the brightest ultra-portable projectors in the marketplace. The brightness of your machine will vary depending on the ambient room conditions and contrast/brightness settings.

2.2 Part Identification List

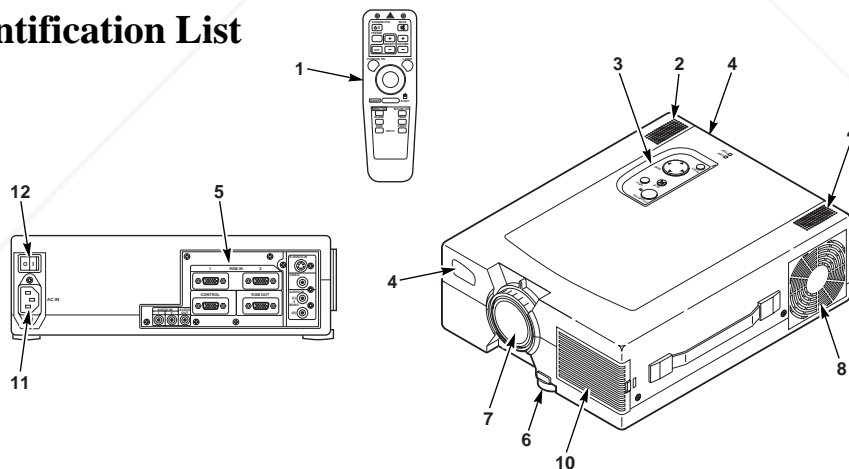


Figure 2.1 Identifying MP8635 Parts

- | | |
|--|---|
| 1. Remote control transmitter | c) RGB output |
| 2. Stereo speakers | d) Audio L/R input, Audio output (stereo mini jack) |
| 3. Control Panel Keypad | e) RS-232 Control |
| a) STAND BY/ON button | 6. Height Adjustment Feet |
| b) ON, LAMP, TEMP, Indicator | 7. Projection lens |
| c) INPUT, MUTE, RESET buttons | 8. Cooling fan exhaust |
| d) MENU buttons | 9. Carry handle |
| 4. Remote Control Sensors (front/back) | 10. Lamp door |
| 5. Terminal Connection Panels | 11. AC input-power cord connection |
| a) S-Video, Video, Audio inputs | 12. Main power switch |
| b) RGB1 and RGB2 inputs | |

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2.3 System Set Up - connecting various equipment

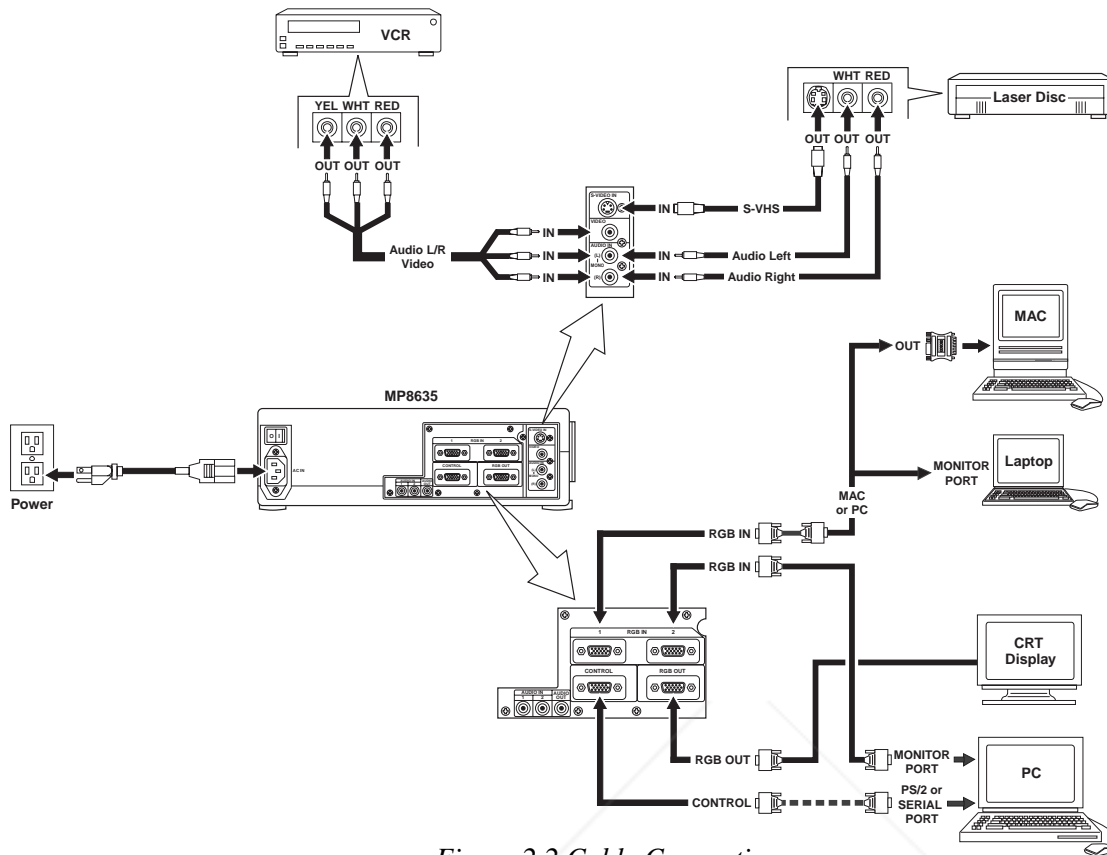


Figure 2.2 Cable Connections

⚠ Caution

Turn power off to all devices before making connections. Never plug anything into the projector or computer while any device is in operation.

The MP8635 must be powered down when making connections. The mouse emulation may not work if the unit is not powered down before the mouse cable connections are made.

2.3.1 **Apple™ Desktop Mouse** - The Macintosh operating system should recognize the MP8635 as a mouse without any drivers being loaded.

VirtualMouse for PC Computer - For IBM™ compatible computers, the operating systems will need to be set to "Serial Mouse" or "PS/2 Mouse" to recognize the projector as a mouse pointer device

Change mouse driver information to "Serial Mouse" or "PS/2 Mouse."

a) **Windows™ 95/Windows™ 98** - Click "Start"; select "Settings"; select "Control Panel". Click on "Mouse"; select the "General" tab; (see what driver is currently loaded and make note of it); select "Change"; select "Show all devices"; (make note of the current Manufacturer and Model); select "Standard Mouse Type" for Manufacturer; then select "Standard Serial Mouse" or "Standard PS/2 Mouse". Click OK to change and apply the new driver. Restart Windows when prompted.

b) **Windows™ 3.1** - From "Program Manager" click "Main"; then click "Windows Setup", (make note of what the current mouse driver is); Click "Options"; then "Change Systems Settings". Choose "Mouse". It should be listed as "Microsoft or IBM PS/2".

✓ Note THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

For proper mouse operation, always turn the projector power on first and then power up the computer.

For some laptop computers you may need to disable the internal pointing device (IPD). This is done through the BIOS level set up of the particular machine, or it could be listed in a "Utilities" program group, i.e., "Toshiba Utilities™," or "Thinkpad Features™."

2.4 Remote Control Transmitter Identification

STANDBY / ON button

Set main power switch to ON. Press and hold STANDBY/ON button for projector mode (lamp on) or standby mode (lamp off).

FREEZE button

Press to display single frame of projector image. Press again to release freeze function. (Operation of Disk Pad and some setup items will not function when freeze is active.)

MAGNIFY buttons

Press +/- to magnify image (4x magnification). Press POSITION button and use disc pad to view entire image. Press OFF button to return to normal image size.

POSITION button

Press and light POSITION button. Move DISC PAD to adjust horizontal/vertical image position.

DISC PAD

Select mode, then move DISC PAD to position image, navigate menus or control mouse functions. To select the mode:

- Press and light POSITION button for position mode.
- Press and light MENU ON button for menu mode.

MENU ON button

Press and light MENU ON button to display the Main Menu. Move DISC PAD to select menu and/or adjust screen values.

BLANK ON button

Press BLANK to display a blank background with no image. Press again to return the image to the screen.

INPUT buttons

RGB 1/2: Select computer video input (RGB1 → RGB2 → RGB1).

VIDEO 1/2: Select video inputs (VIDEO1 → VIDEO2 → VIDEO1).

LASER APERTURE

MUTE button

Press MUTE to switch the audio sound ON or OFF

VOLUME button

Press +/- to adjust internal/external speaker volume.

LASER POINTER

Press and hold down button to project laser pointer.

CAUTION

To prevent injury to eyesight, do not point laser beam at other persons or look directly into laser beam.

LEFT MOUSE button

Backside of Remote

RESET / RIGHT MOUSE button

RESET / RIGHT MOUSE button

RESET: When a menu is being displayed, press RESET to return menu value to factory setting.

RIGHT MOUSE: When computer image is being displayed, press for right mouse button function.

MOUSE ON button

Press MOUSE ON button to activate mouse mode. Move DISC PAD to control mouse functions.

TIMER ON / OFF button

Press TIMER to display and start the timer as set in OPT menu setting. Note: Timer will not display on a blank screen. To remove TIMER display press again.

EPS-70A

AVOID EXPOSURE-LASER RADIATION IS EMITTED FROM THIS APERTURE

CAUTION

LASER RADIATION
DO NOT STARE INTO BEAM

WAVE LENGTH: 670 nm
MAX. OUTPUT: 1mW
CLASS II LASER PRODUCT

Laser Aperture

Battery Cover
(Use AA or LR6 batteries)

Figure 2.3 Remote Control Buttons

Section 3: Basic Operations

3.1 Projector Startup

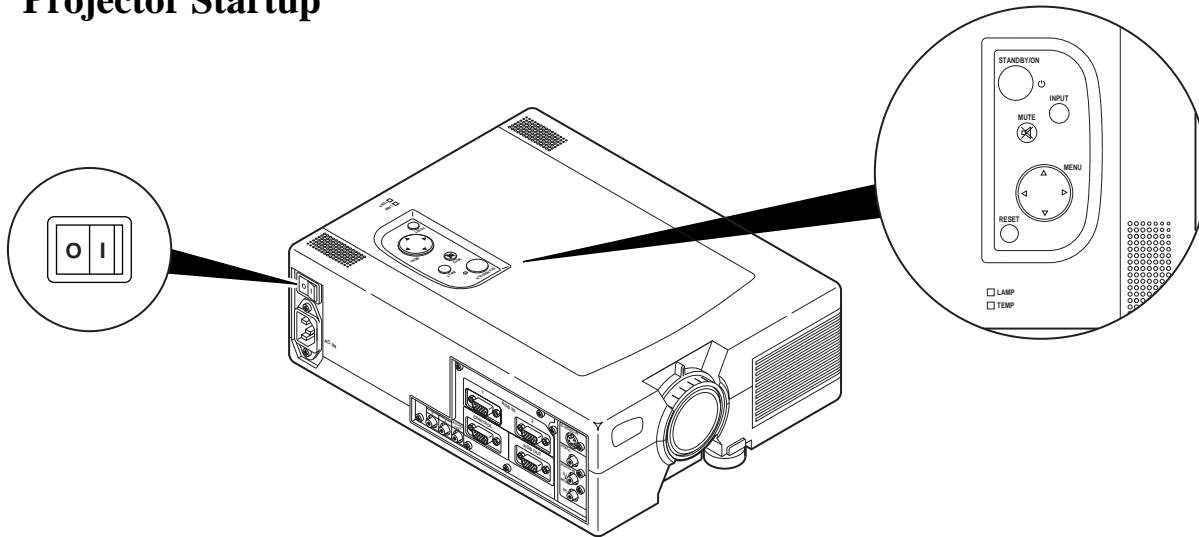







Figure 3.1 Projector Controls

1. **Make all cable connections and line hookups with the power off.**
2. **Turn the POWER SWITCH  of the projector on.** The ON indicator will light up orange.
3. **Press the STANDBY/ON button .** The ON indicator blinks (green) and then lights (green). The ON indicator will blink green during warm-up and lamp ignition. When power is turned off, there is a 60 second reset period before the STANDBY/ON button will function again.
4. **Adjust the screen size by rotating the ZOOM CONTROL.**
5. **Adjust the focus by rotating the projection lens.**
6. **Turn on all connected equipment.** The method of connecting various equipment, see section 2.3.
7. **Press the INPUT button  on the projector or the INPUT SELECT (VIDEO or RGB) button on the remote to select the source of the signal to be projected on the screen.** The selected signal input is displayed at the bottom right of the screen. The display will show the **last selected input source** before power was turned off.

3.2 Projector Shutdown

1. **Hold the STANDBY/ON button  for 3-5 seconds.** The ON indicator blinks orange and the lamp turns off. After approximately 1 minute, the fan stops and the indicator stays orange.
2. **Turn the MAIN POWER SWITCH  of the projector off.**

Caution

Do not turn off the POWER SWITCH before pressing the STANDBY/ON button. After the STANDBY/ON button is pressed, the fan rotates for about 1 minute to cool the projector.

3. **Disconnect cables.**



Section 4: Adjustment and Functions

4.1 Menu Navigation

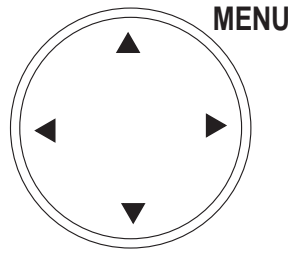


Figure 4.1 Menu Button

1. Press any MENU button on projector or remote control MENU button. On-screen menus are displayed on the screen.
2. Select the menu to be adjusted using the MENU (◀ ▶) buttons or DISC PAD. Selected Menu is highlighted.
3. Select the item to be adjusted using the MENU (▲ ▼ ◀ ▶) buttons or DISC PAD. Highlighted items may be adjusted.

✓ Note

Separate settings are provided for the VIDEO, RGB1 and RGB2 input terminals. Adjustments are saved after power off.

Factory Default Setting:

1. Highlight SETUP option.
2. To reset the entire SETUP menu
 - Press the RESET button.
 - Select DEFAULT or CANCEL.
3. To reset a single item from SETUP menu
 - Select the adjustment item (brightness, contrast...)
 - Press the RESET button. Only the selected item resets.

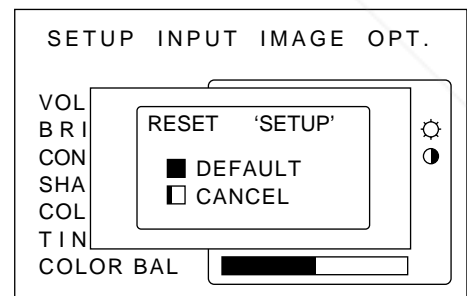


Figure 4.2 Default Settings



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4.2 How To Use Height Adjustment Feet

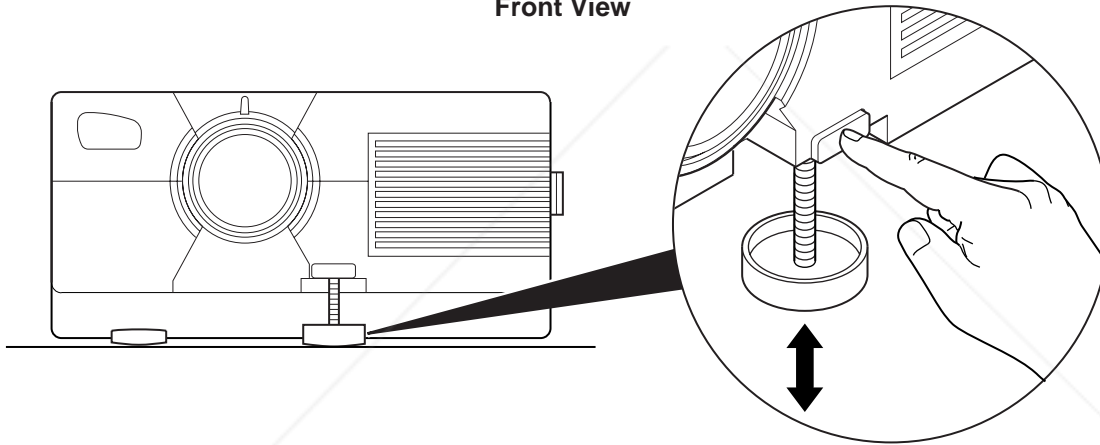
Adjust the image elevation using the height adjustment at the front of the projector.

1. Raise the front end of the projector so the foot is not touching the table top.
2. Push the lock button to unlock the foot.
3. Extend or retract the foot to the desired height.
4. Release the lock button to lock the foot into position.
5. For fine adjustments, rotate the foot.

Caution

Do not unlock the foot adjuster if the projector is not supported. If the foot adjuster does not lock completely, turn the foot adjuster slightly before locking.

Front View



Side View

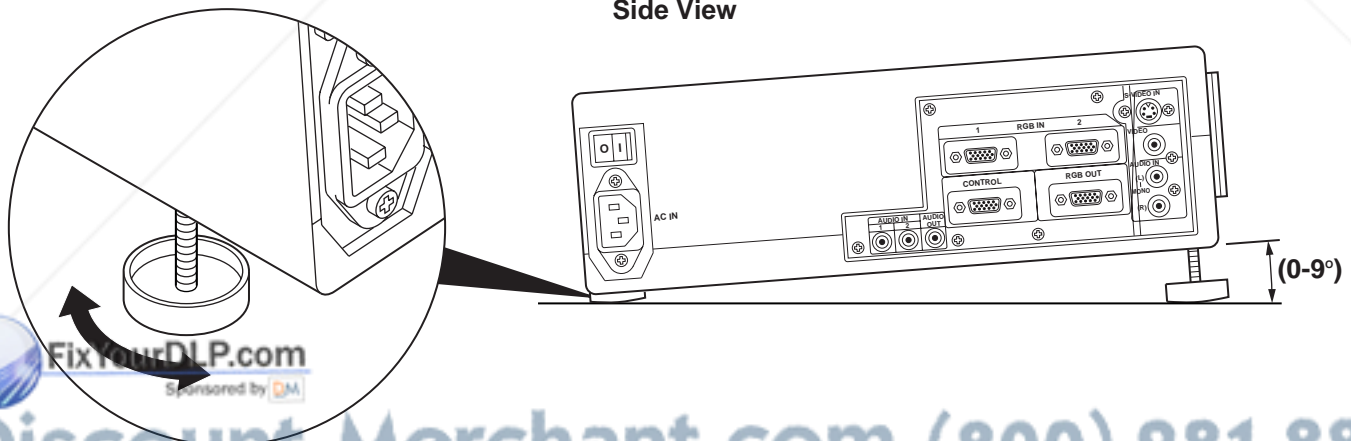


Figure 4.3 Height Adjustment

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4.3 SETUP

The SETUP sub-menu is used to adjust and move the image position. The projector will display either the RGB (Figure 4.4) or Video (Figure 4.5) menu according to the input source being projected.

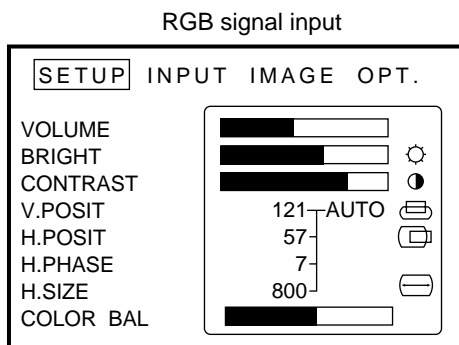


Figure 4.4 RGB Signal

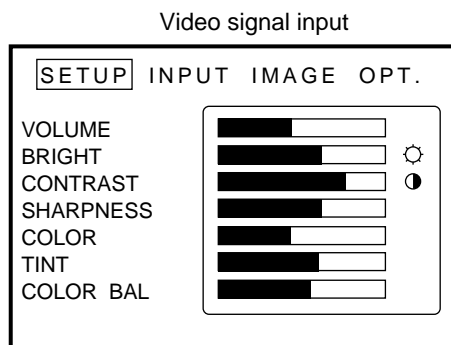
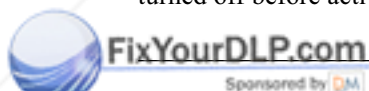


Figure 4.5 Video Signal

Adjustment Item	Details of Adjustment	Freeze On	Magnify On	Both On
VOLUME	Decrease ← → Increase	Adjustable	Adjustable	Adjustable
BRIGHT (BRIGHTNESS)	Dark ← → Bright	Adjustable	Adjustable	Adjustable
CONTRAST	Lower ← → Higher	Adjustable	Adjustable	Adjustable
SHARPNESS	Soft ← → Sharp	Not Adjustable	Adjustable	Not Adjustable
COLOR	Less ← → More	Not Adjustable	Adjustable	Not Adjustable
TINT	Red ← → Green	Not Adjustable	Adjustable	Not Adjustable
V.POSIT (V.POSITION)	Moves the picture up or down.*	Not Adjustable	Not Adjustable	Not Adjustable
H.POSIT (H.POSITION)	Moves the picture left or right.*	Not Adjustable	Not Adjustable	Not Adjustable
H.PHASE	Decreases the picture flicker.*	Not Adjustable	Adjustable	Not Adjustable
H.SIZE	Widens or Narrows the horizontal size of picture.*	Not Adjustable	Not Adjustable	Not Adjustable
COLOR BAL R (Color Balance)	Less ← → More	Adjustable	Adjustable	Adjustable

*Select "Auto" to engage automatic adjustment function. The software application running on your computer must be at maximum screen size for the auto function to synchronize. It will take 20 seconds to reset field.

The screen cursor will turn "RED" and the Auto Sync function will not operate if the Freeze function, Magnify function or initial screen display (NO INPUT is DETECTED or SYNC IS OUT OF RANGE) is activated. These functions must be turned off before activating the Auto Sync function.



✓ Note

- TINT cannot be adjusted with a PAL or M-PAL video signal input.
- TINT, COLOR and SHARPNESS cannot be adjusted with an RGB signal input.
- V. POSIT, H. POSIT, H. PHASE and H. SIZE cannot be adjusted with a VIDEO signal input.

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4.4 INPUT

The menu INPUT sub-menu (Figure 4.6) is used to select the input source. The VIDEO values (Figure 4.7) have additional values that can be selected.

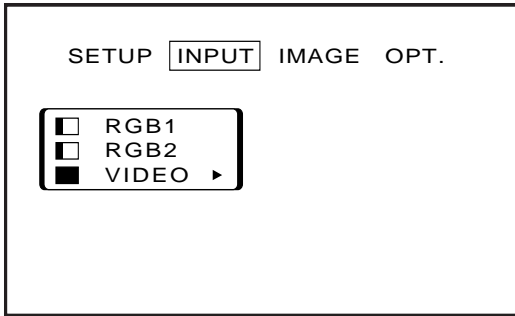


Figure 4.6 Input Menu

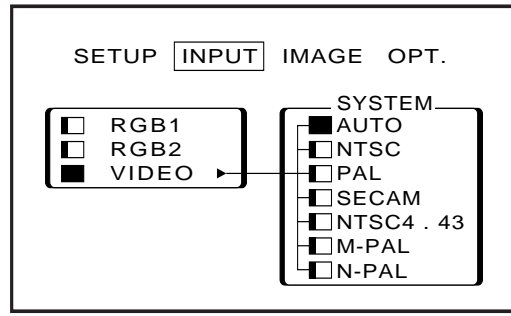


Figure 4.7 Video

Adjustment Area	Value	Value Screen	Value
RGB1	Selects the RGB1 terminal		
RGB2	Selects the RGB2 terminal		
Video	Selects the VIDEO terminal	System	Selects the video signal format Auto, NTSC, PAL, SECAM, NTSC 4.43, M-PAL, N-PAL

4.5 IMAGE

The IMAGE sub-menu is used to change the image characteristics.

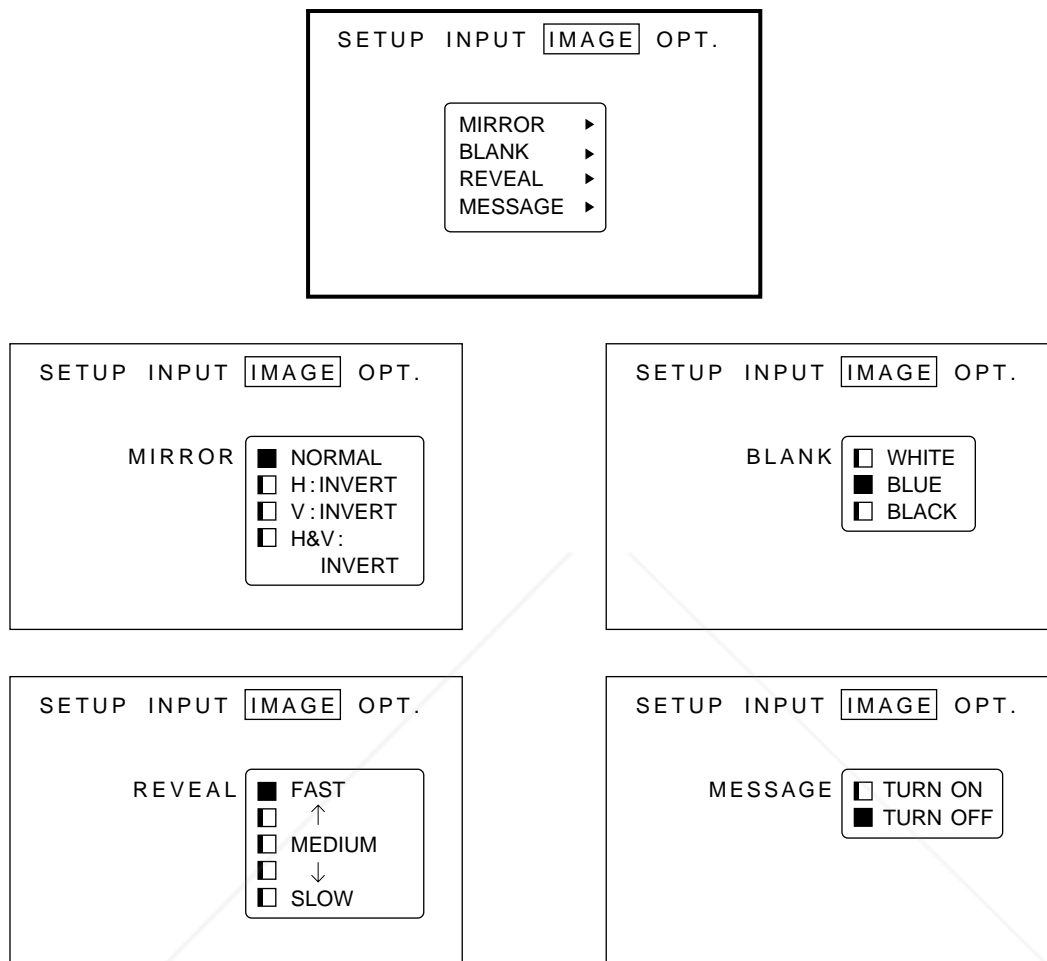


Figure 4.8 Image Adjustment Screens

Adjustment Screen	Value
MIRROR	Inverts the picture horizontally or vertically. H : INVERT Inverts the picture horizontally. V : INTERT Inverts the picture vertically. H&V: INVERT Inverts the picture horizontally and vertically.
BLANK	Selects the blank color.
REVEAL	Selects reveal speed.
MESSAGE	Turn ON or OFF on-screen messages.

4.6 OPT

The OPT. sub-menu allows you to control communication function.

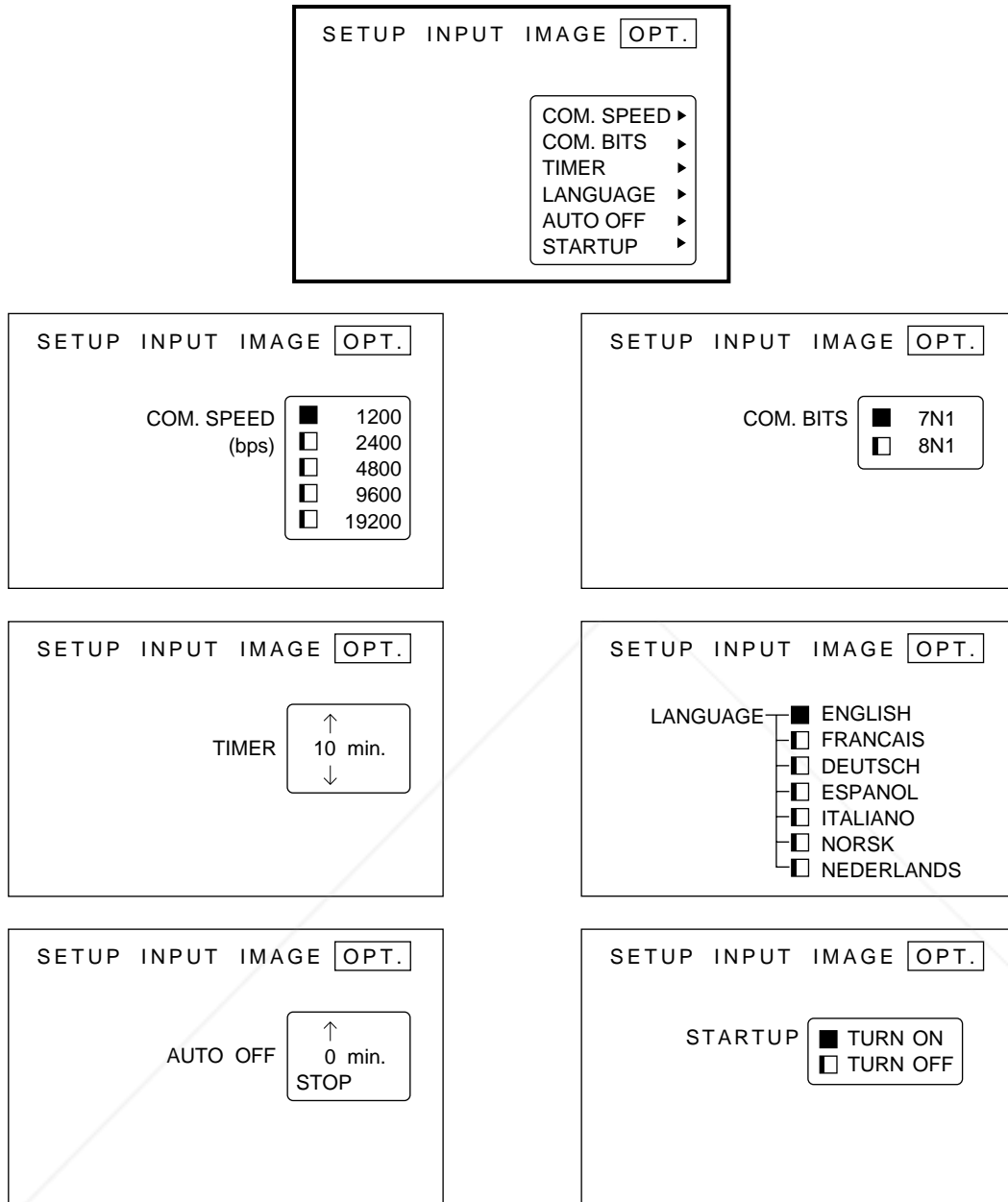


Figure 4.9 OPT Adjustment Screens

Adjustment Screen	Value	Default
COM. SPEED	Selects the data speed of transmission. (For mouse emulation-1200)	1200
COM. BITS	Selects the data format of transmission. 7N1... 7 data-bits, No parity, 1 stop bit. (For mouse emulation-7N1) 8N1... 8 data-bits, No parity, 1 stop bit.	7N1
TIMER	Sets the timer (in minutes).	—
LANGUAGE	Selects the language on-screen menu. (English, French, German, Spanish, Italian, Norwegian, Dutch)	—
AUTO OFF	Selects how long projector will stay on, if no input is detected. Select 0 to disable this function.	—
START UP	Enable/Disable Startup Screen.	TURN ON



Section 5: Maintenance

5.1 Cleaning the Air Filter

✓ **Note**

Clean the air filter about every 50 hours. If air flow is restricted due to dust accumulation on filter, the projector may shut down due to over heating.

1. Turn off the **MAIN POWER** switch of the projector and pull out power cord. Let cool for 20 minutes.
2. Press tab (2) to release air filter door.

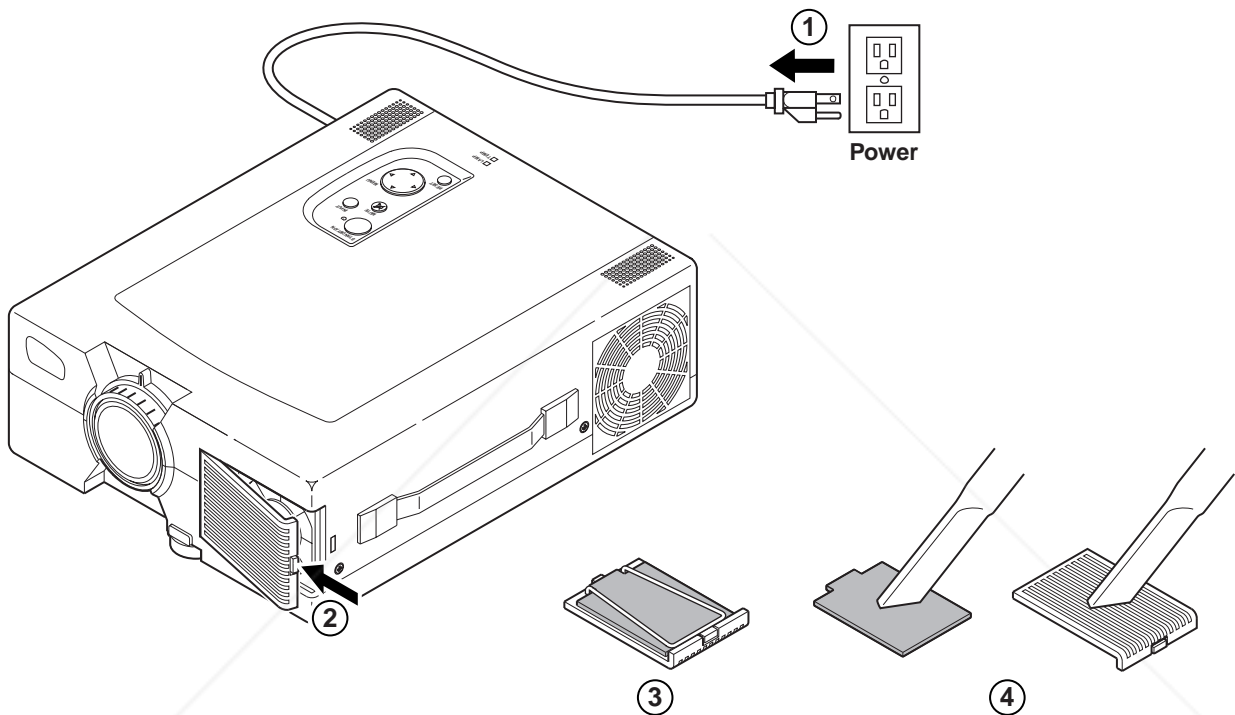


Figure 5.1 Remove Air Filter

3. Carefully remove foam air filter screen (3) from air filter door.
4. Vacuum air filter and door to remove dust and dirt.

✓ **Note**

When air filter is very dirty, wash it in neutral detergent diluted with water. Thoroughly dry filter before reinstalling.

5. Re-install the air filter and replace the air filter door.

Section 6: Lamp

6.1 Lamp

The following symptoms may indicate a lamp in need of replacement:

- LAMP indicator lights up red.
- "CHANGE THE LAMP" message appears on the screen.

✓ **Note**

This lamp contains mercury. Consult your local hazardous waste regulations and **dispose of this lamp in a proper manner**.

6.2 Display Lamp Operation Hours

To determine the lamp operation hours, follow these steps:

1. While the projector is running, press and hold the timer button on the remote control for 3 seconds.
2. The operating time of the lamp will be displayed. If the operating hours are greater than 1,700 the "CHANGE THE LAMP, AFTER REPLACING LAMP RESET THE LAMP TIMER" message will appear. If the hours are greater than 1,979 the following message will appear, "POWER WILL TURN OFF AFTER 20 HOURS" The number of hours left until shut down will decrease until 0 hour is reached, then power will be turned off.

✓ **Note**

After 2000 hours, the projector will only run for 10 minute intervals when restarted until the lamp is replaced and the lamp timer is reset. The message "CHANGE THE LAMP" will blink at projector start up to remind you to change the lamp.

6.3 Reset Lamp Hours

1. To display the total lamp hours, press and hold for 3 seconds, the Reset button on the projector or Timer button on the remote control.
2. To reset the lamp timer, press the Reset button on the projector or Menu On button on the remote while the total lamp hours are displayed. Use the arrow button on the projector or the disc pad to select 0 (or CANCEL).



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6.4 Replacing the Lamp

⚠ WARNING

To reduce the risk of electrical shock, always turn off projector and disconnect power cord before changing lamp.

⚠ Caution

To reduce the risk of severe burns, allow the projector to cool for at least 45 minutes before replacing the lamp.
To reduce the risk of cuts to fingers and damage to internal components, use caution when removing lamp glass that has failed and shattered into sharp pieces.

✓ Note

For maximum lamp life, do not apply shock, handle or scratch the lamp glass when it is hot. Also, do not use an old or previously used lamp as a replacement lamp.

1. **Remove lamp access door:** The lamp access door is located on the bottom of the machine. side. Use a screwdriver to unscrew the cover retaining screw (1) and gently open the cover and set it aside.
2. **Retaining screws:** Use a screwdriver to unscrew the lamp module retaining screws. (2)
3. **Remove lamp module:** Grasp the lamp module with one hand and the projector body with the other hand. Carefully slide the lamp module out (3) using steady pressure.

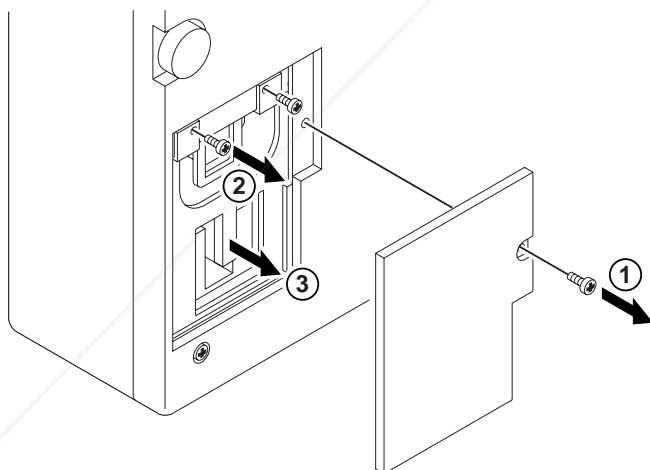


Figure 6.1 Lamp Module

✓ Note

Do not touch lamp glass with fingers.
Reduced lamp life may occur.

⚠ Caution

To reduce the risk of cuts to fingers from sharp metal fittings and/or decreasing image quality by touching the lens, do not insert hand into the empty lamp compartment when the lamp has been removed.

4. **Insert lamp module:** Carefully insert the new lamp module. Ensure that it is fully seated. Tighten the lamp module retaining screws (2) to secure the lamp module in place.

Insert the hinge tabs on the left side of the lamp access door, then close and tighten the retaining screw (1) to secure the door.

✓ Note

Reset the lamp operation hours. See section 6.2 for details.

Section 7: Troubleshooting

7.1 Symptom/Solution Table

Symptom	Cause	Solution
Power cannot be turned on.	<ul style="list-style-type: none"> The Main power is not turned on. The power cord is disconnected. 60 seconds have not elapsed since the power was turned off. 	<ul style="list-style-type: none"> Turn the MAIN POWER switch on. Insert the power cord into an AC socket. Wait 60 seconds before turning on power.
No picture and sound	<ul style="list-style-type: none"> The setting of the input source is not correct. RGB/Video/Audio wiring to projector is not correct. 	<ul style="list-style-type: none"> Set the correct input using the input select button of the projector or the remote control Connect the cable to correct input/output source.
Sound is heard with no picture	<ul style="list-style-type: none"> RGB/Video/Audio wiring to projector is not correct. The brightness is set fully to dark. 	<ul style="list-style-type: none"> Connect the cable to correct input/output source. Press the MENU button and increase BRIGHTNESS.
Picture is displayed with no sound	<ul style="list-style-type: none"> Audio wiring to projector is not correct. The volume is set to minimum. The unit is muted. 	<ul style="list-style-type: none"> Connect the cable to correct input/output source. Press the VOL button and increase VOLUME Press the MUTE button.
Color is weak and tint is incorrect	<ul style="list-style-type: none"> The color and tint have been adjusted incorrectly. 	<ul style="list-style-type: none"> Adjust the color and tint correctly.
Picture is dark	<ul style="list-style-type: none"> The brightness and contrast has been adjusted incorrectly. The lamp needs to be replaced. 	<ul style="list-style-type: none"> Adjust the brightness and contrast correctly. Replace the lamp with a new one.
Picture is not clear	<ul style="list-style-type: none"> Projector is out of focus. 	<ul style="list-style-type: none"> Adjust the focus.
LAMP indicator lights red.	<ul style="list-style-type: none"> Lamp will not ignite. 	<ul style="list-style-type: none"> Turn off power and let cool for 45 minutes, then restart. If problem persists call your dealer.
LAMP indicator blinks red.	<ul style="list-style-type: none"> Lamp door is open. Lamp module is not connected correctly. 	<ul style="list-style-type: none"> Lamp door is closed. Insert lamp module and ensure that it is secured properly.
TEMP indicator lights red.	<ul style="list-style-type: none"> Temperature inside projector is too hot. 	<ul style="list-style-type: none"> Do not block the ventilation holes. Clean air filter
TEMP indicator blinks red.	<ul style="list-style-type: none"> Cooling fan may be obstructed by metal screen under foam air filter. 	<ul style="list-style-type: none"> Align metal screen. If fan blade is still obstructed, call service.
Both LAMP indicator and ON indicator blink red.	<ul style="list-style-type: none"> Lamp operating time is greater than 2,000 hours. 	<ul style="list-style-type: none"> Change the projector lamp and reset the lamp operation hours to zero.

7.2 Message/Solution Table

Error Message Displays	Cause	Solution
NO INPUT IS DETECTED.	The projector is not detecting a signal.	Check cable connections to input device. Input device not connected to this input mode, switch to next mode.
SYNC IS OUT OF RANGE.	The horizontal frequency of input signal exceeds projector capability.	Switch input device to compatible resolution. See Appendix A.5
CHANGE THE LAMP. AFTER REPLACING LAMP RESET THE LAMP TIMER	Lamp operation time is greater than 1,700 hours.	Change the projector lamp and reset the lamp operation hours to zero.
CHANGE THE LAMP. AFTER REPLACING LAMP RESET THE LAMP TIMER THE POWER WILL TURN OFF AFTER 20 HR.	Lamp operation time is greater than 1,979 hours which leaves 20 hours of lamp time.	Change the projection lamp and reset the lamp operation hours to zero.
CHANGE THE LAMP. (Blinking message)	Lamp operating time is greater than 2000 hours. Safety feature shuts projector down after 10 minutes.	Change the projector lamp and reset the lamp operation hours to zero.



Section 8: Accessories

ENGLISH

8.1 Service Information

For product information, product assistance, service information, or to order accessories, please call:

In U.S. or Canada: **1-800-328-1371**

In other locations, contact your local 3M Sales office.

Accessories

Part Number

Ultra-high brightness lamp module, 150W	78-6969-8920-7
Power cord (US)	26-1011-8852-7
Power cord (UK)	78-8118-3304-1
Power cord (Germany)	78-8118-3303-3
VGA cable	78-8118-3401-5
MAC adapter	26-1011-3308-2
S-video cable	26-1011-3419-0
3-conductor video/audio cable	78-8118-3306-6
Serial mouse cable	78-8118-3426-2
PS/2 mouse cable	78-8118-3424-7
ADB mouse cable	78-8118-3425-4
Stereo mini jack cable	26-1012-0683-2
Remote Control	78-8118-8185-9

Not Included with Basic Packet

Part Number

Ceiling mount	78-6969-8781-3
Adjustable height suspension	78-6969-8312-7
Shipping case	78-6969-8779-7
Soft carry case	78-6969-8780-5
RS-232 control cable	78-8118-3312-4
Document Camera - 120 VAC 60 Hz (optional)	78-6969-8578-3
Document Camera - 220 VAC 50 Hz (optional)	78-6969-8724-3

How to Order

Please order these parts through your dealer, or contact 3M Customer Service at the following number:

In U.S. or Canada: **1-800-328-1371**

In other locations, contact your 3M Sales office.

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- A.5 Connection to the RGB Signal Terminal**
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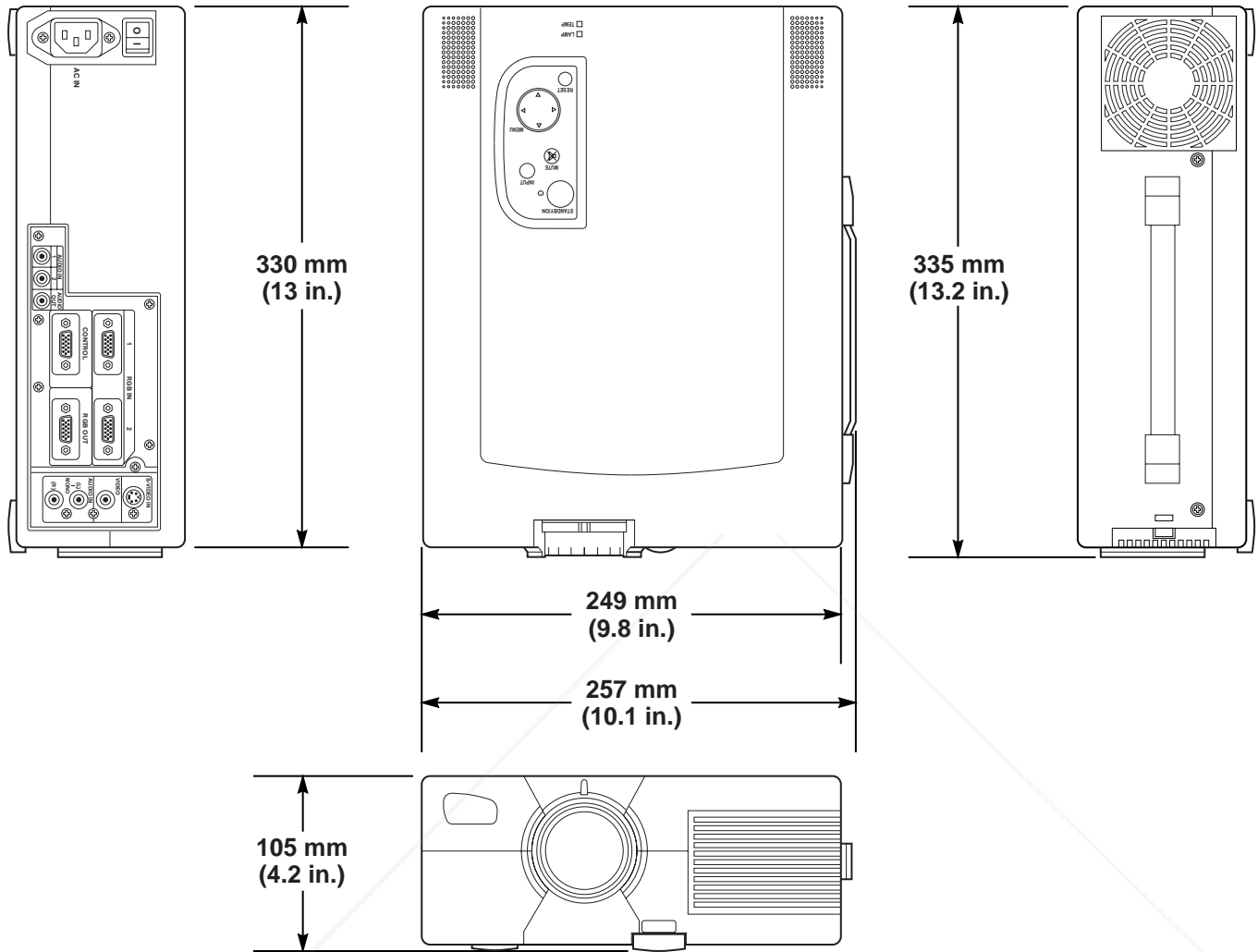
A.1 Technical Specifications

✓ Note

All specifications are subject to change without notice.

Product name		Multimedia projector
Model Name		MP8635
Display system		3 LCD panels, RGB shutter system.
Liquid crystal panel	Panel size	0.9 inches (23 mm)
	Drive system	TFT active matrix
	Number of pixels	480,000 pixels (V600 × H800) per panel. 1.44 million total pixels with 3 panels.
Lens		Number: F/1.7 – F/2.0 Focal Length: F = 38.0 – 49.0 mm (1.5 in. – 1.96 in.)
Lamp		Ultra-high brightness lamp 150W, UHB
Speaker (stereo)		2 x 1 watt
Power supply		AC100 ~ 120V, 2.6A / AC220 ~ 240V, 1.3A (Universal)
Power consumption		250W
Operating temperature range		32° ~ 95°F (0° ~ 35°C)
Dimensions		257.5 mm (W) x 106 mm (H) x 336 mm (D) 10.3 in. (W) x 4.3 in. (H) x 13.4 in. (D)
Weight		4.45 kg (9.9 lbs.)
Input/Output terminal	video signal input terminal	S VIDEO : Mini DIN4-pin terminal VIDEO : RCA Jack terminal AUDIO : RCA Jack terminal
	RGB input/output signal terminal	RGB signal : D-sub 15pin (Female) AUDIO : Stereo mini jack
	Control terminal	D-sub 15pin (Male)

A.2 Dimensions



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A.3 Projector-to-Screen Distance

Example of the Multimedia projector and screen installation. Determine picture size and projection distance as illustrated below.

Screen Size			Distance to Screen	
Width	Height	Diagonal	Minimum	Maximum
81 cm (32 in.)	61 cm (24 in.)	102 cm (40 in.)	161.5 cm (5.3 ft)	214 cm (7.0 ft)
122 cm (48 in.)	91 cm (36 in.)	152 cm (60 in.)	247 cm (8.1 ft)	323 cm (10.6 ft)
163 cm (64 in.)	122 cm (48 in.)	203 cm (80 in.)	329 cm (10.8 ft)	430 cm (14.1 ft)
203 cm (80 in.)	152 cm (60 in.)	254 cm (100 in.)	415 cm (13.6 ft)	543 cm (17.8 ft)
244 cm (96 in.)	183 cm (72 in.)	305 cm (120 in.)	497 cm (16.3 ft)	649 cm (21.3 ft)
305 cm (120 in.)	229 cm (90 in.)	381 cm (150 in.)	619 cm (20.3 ft)	811 cm (26.6 ft)
406 cm (160 in.)	305 cm (120 in.)	508 cm (200 in.)	829 cm (27.2 ft)	1079 cm (35.4 ft)

✓ Note

These sizes are $\pm 1\%$. This is due to variations in the manufacture of the lens. If you are close to one of the endpoints you should verify with your unit that the image is the proper size at the proper distance.



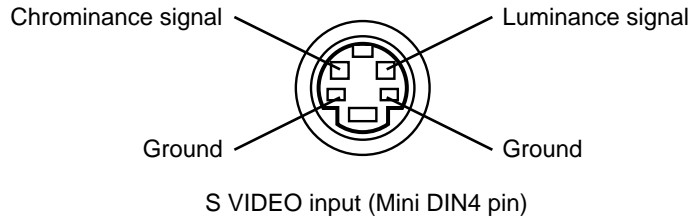
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A.4 Connection to the Video Signal Terminal

a) Input signal

S-VIDEO signal		Luminance signal	1.0Vp-p, 75 Ω termination
		Chrominance signal	0.286Vp-p (burst signal), 75 Ω termination
VIDEO signal		1.0Vp-p, 75Ω termination	
AUDIO signal	Input	200mVrms, 20 kΩ below (MAX 3.0Vp-p)	
	Output	0~200mVrms, 1k Ω	

b) Signal input terminal



✓ Note

Video input signal terminals have priority in the following order:

1. S-VIDEO input terminal
2. RCA jack (composite) input terminal

A.5 Connection to the RGB Signal Terminal

a) Input signal / Output signal

Video signal		Analog 0.7Vp-p 75 Ω termination (Positive polarity)
Horizontal sync signal		TTL level (Positive/negative polarity)
Vertical sync signal		TTL level (Positive/negative polarity)
Composite sync signal		TTL level
Audio signal	Input	200mVrms, 20k Ω below (MAX 3.0Vp-p)
	Output	0 ~ 200mVrms, 1k Ω

b) Signal input terminal / output terminal

1	Video signal (Red)	9	No Connection
2	Video signal (Green)	10	Ground
3	Video signal (Blue)	11	No Connection
4	No Connection	12	SDA (DDC 1/2B)
5	No Connection	13	Horizontal/Composite sync signal
6	Ground (for R)	14	Vertical sync signal
7	Ground (for G)	15	SCL (DDC 1/2B)
8	Ground (for B)		

c) **Example of computer signal**

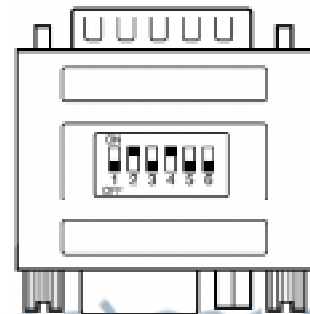
Resolution HxV	Refresh Rate	Horizontal Frequency	Standard Type	Note	Display Dots HxV
640 x 400	56.4 Hz	24.8 kHz		NEC PC9800	800 x 560
640 x 350	85.1 Hz	37.9 kHz		VGA-1	800 x 490
640 x 400	85.1 Hz	37.9 kHz	VESA	VGA-2	800 x 560
720 x 400	37.9	85.0 kHz	VESA	TEXT	800 x 560
640 x 480	59.9 Hz	31.5 kHz	VESA	VGA-3	800 x 600
640 x 480	66.7 Hz	35.0 kHz		*MAC 13 in.	800 x 600
640 x 480	72.8 Hz	37.9 kHz	VESA		800 x 600
640 x 480	75.0 Hz	37.5 kHz	VESA		800 x 600
640 x 480	85.0 Hz	43.3 kHz	VESA		800 x 600
800 x 600	56.3 Hz	35.2 kHz	VESA		800 x 600
800 x 600	60.3 Hz	37.9 kHz	VESA		800 x 600
800 x 600	72.2 Hz	48.1 kHz	VESA		800 x 600
800 x 600	75.0 Hz	46.9 kHz	VESA		800 x 600
800 x 600	85.1 Hz	53.7 kHz	VESA		800 x 600
832 x 624	74.5 Hz	49.7 kHz		*MAC 16 in.	800 x 600
1024 x 768	60.0 Hz	48.4 kHz	VESA	Compressed	768 x 576
1024 x 768	70.1 Hz	56.5 kHz	VESA	Compressed	768 x 576
1024 x 768	75.0 Hz	60.0 kHz	VESA	Compressed	768 x 576
1024 x 768	85.0 Hz	68.7 kHz	VESA	Compressed	768 X 576

* **MAC adapter is necessary to set the resolution mode.**
Projector is compatible with 13 inch mode and 16 inch mode.

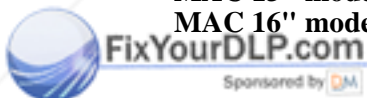
Set all dip switches OFF except those indicated below:

MAC 13" mode = switch 1 and 2 are ON

MAC 16" mode = switch 2 and 4 are ON



(Example of 16 inch mode)



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✓ **Note**

Some input sources may not be displayed properly because they are not compatible with the projector.

A.6 Indicator Status

The ON, LAMP and TEMP indicators will light or blink in the following cases:

	Indicator status	Meaning	Remedy
ON indicator	Lights orange	Standby mode	normal
	Blinks green	During warming up	normal
	Lights green	During operation	normal
	Blinks orange	During cooling down	normal
*LAMP indicator	Lights red	Lamp cannot light	Cool projector by power off for 45 minutes.
	Blinks red	Lamp door open. Lamp module not fully seated. Lamp operation time 2000 hours.	Close lamp door. Fully seat lamp module in projector. Replace lamp to zero.
TEMP indicator	Lights red	Temperature inside too high	Let projector cool 45 minute. Check air flow and filter.
	Blinks red	Cooling fan not operating	call your dealer

***When the LAMP indicator lights or blinks, turn the power off. If the problem persists, contact your dealer.**



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A.7 Connection to the Control Signal Terminal

a) Mouse emulation

- (1) While the projector and computer are turned OFF, connect the projector and the mouse terminal of computer using an appropriate cable. (PS/2, Serial or ADB)
- (2) Turn ON the projector.
- (3) Turn ON the computer.
- (4) Select the correct mouse driver for the application. See computer's User Manual for this procedure.

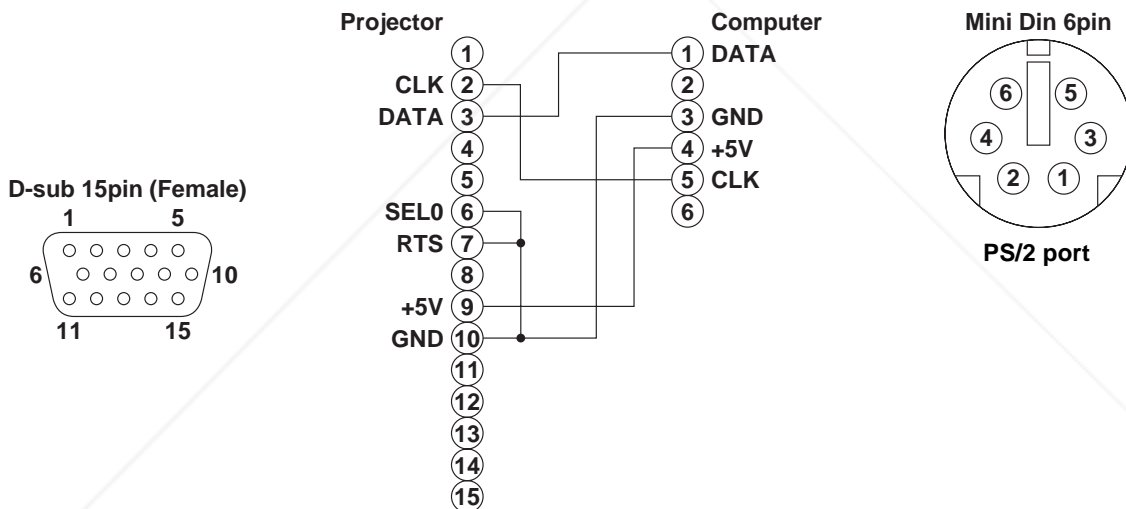
✓ Note

In some Notebook computers which have internal pointing device, mouse emulation will not work unless the internal pointing device is disabled. In this case, disable the internal pointing device in BIOS setting. Check the computer's manual for procedure to follow to disable internal pointing device in BIOS setting.

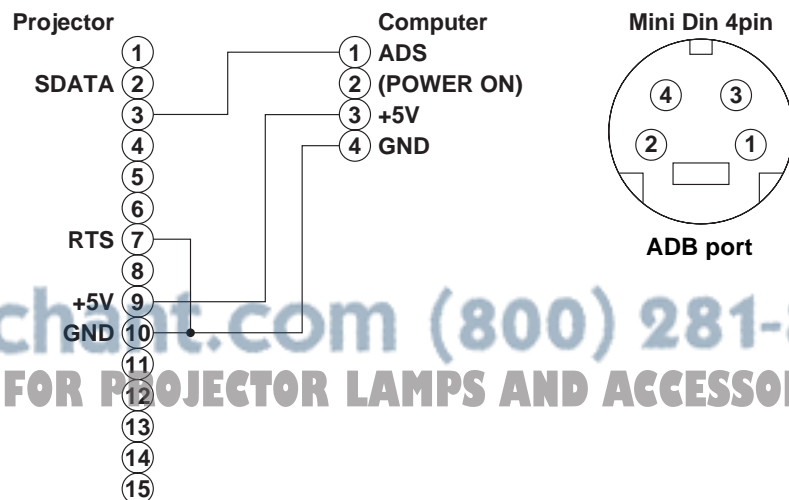
⚠ Caution

Turn off the power to both the projector and computer before connecting. Connect the computer to the control terminal of the projector using the appropriate cable.

PS/2 mouse

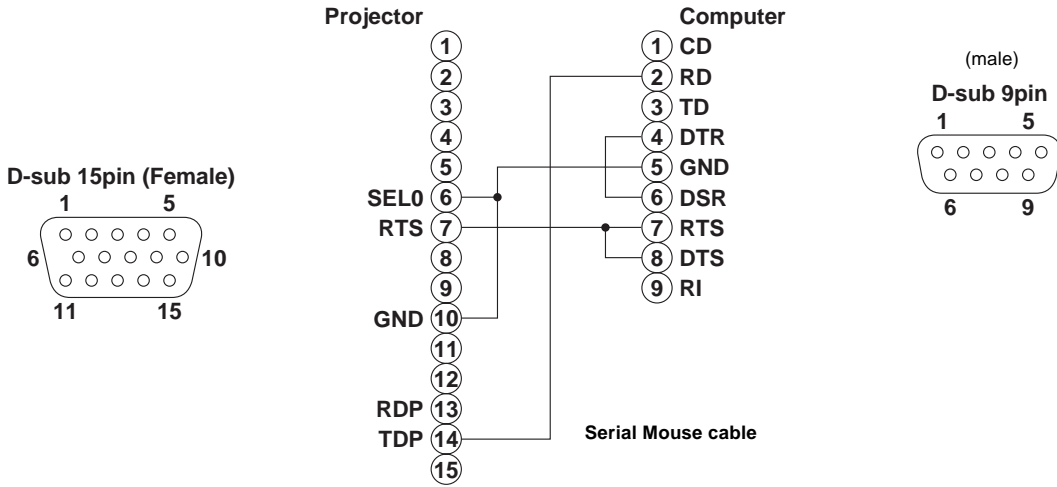


ADB mouse



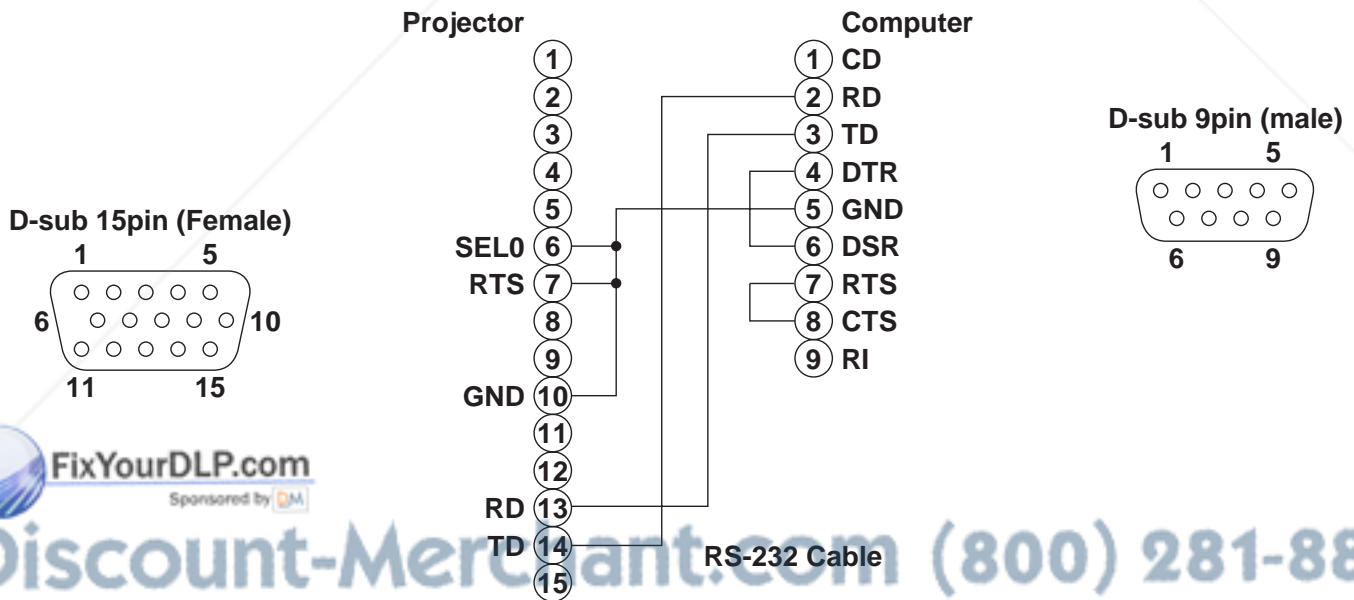
A.7 Connection to the Control Signal Terminal (continued)

Serial mouse



b) RS-232 Control Cable (not included with basic packout)

This cable is used to directly control the projector without using the Remote Control or Operator's Panel.



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Serial Command Codes

All numbers in this document are in Hexadecimal. You must send at the same communication setting as the projector and use a null modem serial cable to connect to the projector.

There are four types of messages: 1) ASK, 2) REPLY, 3) SET and 4) DEFAULT.

Ask Code:

User:

20	XX
----	----

XX is the attribute you are checking.

Projector:

1Y	XX	Y bytes of data
----	----	-----------------

This is a reply code. The Y is the number of extra bytes that come after the command.

The XX is the same as in the Ask code.

Set Code:

User:

3Y	XX	Y bytes of data
----	----	-----------------

XX is the attribute you are checking. The Y is the number of bytes for the data.

Projector:

1Y	XX	Y bytes of data
----	----	-----------------

This is a reply code. The Y is the number of extra bytes that come after the command.

The XX is the same as in the Set code.

Default Code:

User:

40	XX
----	----

XX is the attribute you are checking.

Projector:

1Y	XX	Y bytes of data
----	----	-----------------

This is a reply code. The Y is the number of extra bytes that come after the command.

The XX is the same as in the Ask code.

Errors:

For an error, the projector will reply with the same code that was sent but with a 0 in the first nibble.



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Serial Command Code Table

Function	Command Code	# Bytes	Data Code	Meaning
Mouse	05	1	00 01-7F	Stop mouse function Enable mouse function
Communication	06	1	0X 1X X0 X1 X2 X3 X4	8N1 7N1 1200 bps 2400 bps 4800 bps 9600 bps 19200 bps
Power	11	1	3E 3F	Power off Power on
Mirror	14	1	00 01 02 03	Normal H Invert V Invert H & V Invert
Magnify	15	Set Command 6 Ask Command 1	00 00 00 00 00 00 00 00-3C 05 00 00-0D 04 64 00-20 06 00 01	X-coordinate = First, 2-bytes (left top corner) Y-coordinate = Second, 2-bytes (00 00, 00 00) Magnification = Third, 2-bytes (64 00 is x 8, 20 06 is x1) Magnify Off Magnify On
Freeze	16	1	00 01	Freeze Off Freeze On
Input	21	1	11 21 22	Video 1 RGB 1 RGB 2
Video Type	22	2	00 00 00 01 00 02 00 03 00 04 00 05 00 06	Auto NTSC PAL SECAM NTSC 4.43 M-PAL N-PAL
Volume	23	1	00-7F	00 - Softest
Mute	24	1	00 01	Mute off Mute on
Brightness	31	3	00 00 00 - 00 00 7F	7F is high end of scale
Contrast	32	3	00 00 00 - 00 00 7F	7F is high end of scale
Color	33	3	00 00 00 - 00 00 7F	7F is high end of scale
Tint	34	3	00 00 00 - 00 00 7F	7F is green end of scale
Sharpness	35	3	00 00 00 - 00 00 7F	7F is sharp end of scale

Serial Command Code Table (con't)

Function	Command Code	# Bytes	Data Code	Meaning
H. Phase	37	3	00 00 00 - 00 00 1F	
H. Position	38	4	00 00 00 00 - 00 00 7F 01	7F is right end of scale
H. Size	36	4	00 00 02 06 - 00 00 1E 08	1E 08 is wide end of scale
V. Position	3A	3	00 00 00 00 - 00 00 7F 01	7F 01 is down
Color Balance	3B	3	00 00 00 - 00 00 24 -	Red to Blue
Auto Adjust	3C	1	00 07	Start Stop
Blank	41	1	0X 1X bit 0 - 0 bit 0 - 1 bit 1 - 0 bit 1 - 1 bit 2 - 0 bit 2 - 1 bit 3 - 0 bit 3 - 1	Blank off Blank on Blue off Blue on Green off Green on Red off Red on No change Change
Reveal	42	1	0X X1 X4	Stop Reveal down Reveal right X in down and right is 0 - 7 with 7 being the fastest



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