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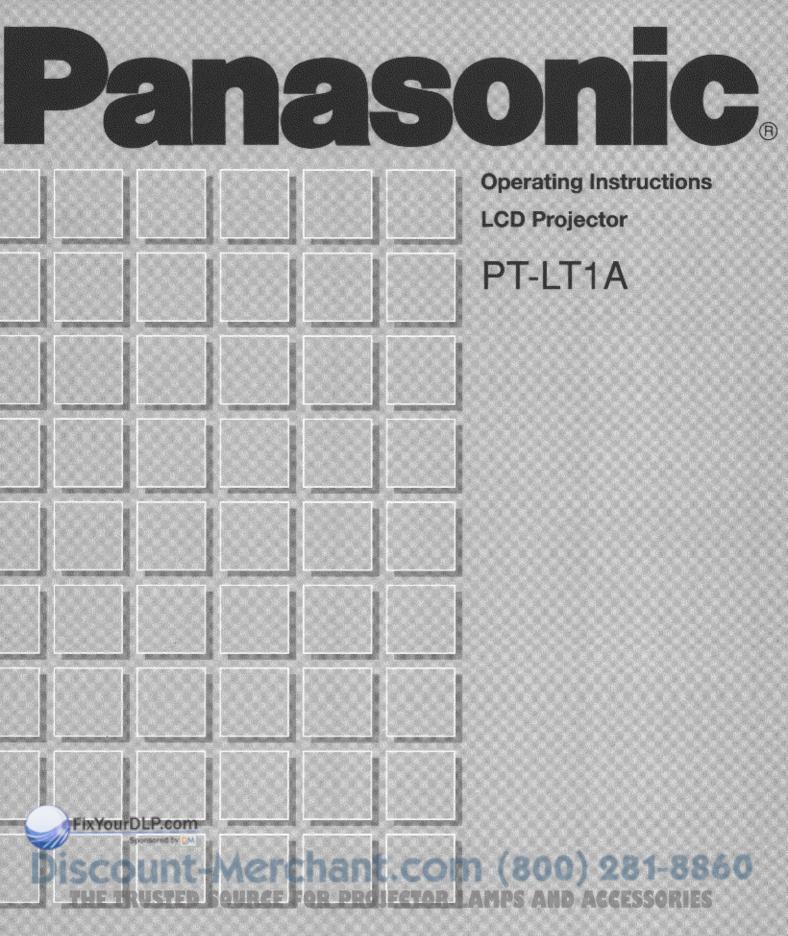
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Dear Panasonic Customer

Welcome to the Panasonic family of Customers. We hope that you will have many years of enjoyment from your new LCD Projector. To obtain maximum benefit from your projector, please read these instructions before making any adjustments, and retain them for future reference. Retain your purchase receipt also, and write the Model Number and Serial Number of your projector in the space provided on the rear cover of these instructions.



This Video Projector is intended for household use only.

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Safety Instructions



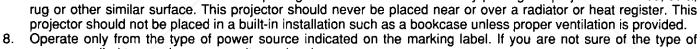


The lightning flash with arrow-head within a triangle is intended to tell the user that parts inside the product are a risk of electric shock to persons. The exclamation point within a triangle is intended to tell the user that important operating and servicing instructions are in the papers with the appliance.

Note To CATV System Installer: This reminder is provided to direct the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

Safety Instructions

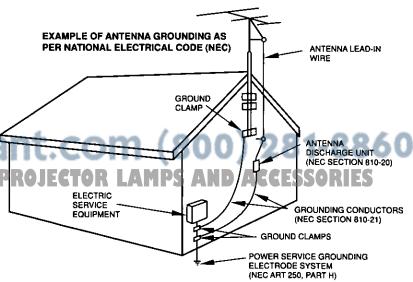
- 1. Read and apply the operating instructions provided with your projector.
- 2. Read all of the instructions given here and retain them for later use.
- 3. Unplug this projector from the wall outlet before cleaning. Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning.
- 4. Do not use attachments not recommended by the projector manufacturer as they may cause hazards.
- 5. Do not use this projector near water. For example: Avoid placing it near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, etc.
- 6. Do not place this projector on an unstable cart, stand or table. The projector may fall, causing serious injury to a child or adult, and serious damage to the appliance. Use only with a cart or stand recommended by the manufacturer, of sold with the projector. Wall or shelf mounting should follow the manufacturer's instructions, and should use a mounting kit approved by the manufacturer.
- 6A. An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.
- 7. Slots and openings in the cabinet and the back or bottom are provided for ventilation, and to insure reliable operation of the projector and to protect it from overheating. These openings must not be blocked or covered. The openings should never be blocked by placing the projector on a bed, sofa,



- power supplied to your home. consult your local power company.
 This projector is equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. this is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.
- Do not allow anything to rest on the power cord. Do not locate this projector where the cord will be damage by people walking on it.
- 11. Follow all warnings and instructions
 - marked on the projector.
 Do not overload wall outlet and extension cords as this can result in fire or electric shock.

3. Never push objects of any kind into this

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





Safety Instructions

- 14. If an outside antenna is connected to the product equipment, be sure the antenna system is grounded so as to provide some protection against voltage surges and built up static charges. In the U.S. Section 810 of the National Electrical Code and in Canada Part of the Canadian Electrical Code provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See Figure.
- 15. For added protection for this projector during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet. This will prevent damage to the projector due to lightning and power-line surges.
- 16. An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.
- 17. Unplug this projector from the wall outlet, and refer servicing to qualified service personnel under the following conditions:
 - a. When the power cord or plug is damaged or frayed.
 - b. If liquid has been spilled into the projector.
 - c. If the projector has been exposed to rain or water.
 - d. If the projector does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the projector to normal operation.
 - e. If the projector has been dropped or the cabinet has been damaged.
 - f. When the projector exhibits a distinct change in performance-this indicates a need for service.
- 18. Do not attempt to service this projector yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
- 19. When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer that have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.
- 20. Upon completion of any service or repairs to this projector, ask the service technician to perform routine safety checks to determine that the projector is in safe operating condition.

NOTE: This equipment is designed to operate in the U.S.A., Canada and other countries where the broadcasting system and AC house current is exactly the same as in the U.S.A. and Canada.



Specifications

Projector	
Туре	LCD Projector
Power Source	AC 120V 60 Hz
Power Consumption	160W (Stand-by condition : approx, 5W)
Color System	PAL, SECAM, NTSC 3.58, NTSC 4.43
LCD Panel	0.9Type Transparent LCD Panels (3), 3 Primary Color Type, 921,600 dots (307,200 × 3)
Lens	Manual Zoom Type (Zoom Ratio 1:1.4), Manual Focus Type
Optical Lamp	100W UHP Lamp
Optical Output	400ANSI Lumens
Projecting Screen Size	33 type - 250 type (projection distance 1.2m ~ 9m) [at RGB input]
Screen Aspect	4:3
Projection Method	4 Methods (Reflection Possible Left, Right, Up and Down)
Audio Output	1.0W (Monaural)
Connection Terminals	Video Input 1 and 2 *S-Video Priority NTSC 3.58, NTSC 4.43, PAL, SECAM S-Video (S Terminal): Luminance, Color Signal Separation Video (Pin jack): 1 Vp-p (75Ω) Audio (Pin jack): Left and Right 0.5Vrms RGB Input (D-sub 15 pin) Horizontal 24 kHz - 49.7 kHz, Vertical 50 Hz - 75 Hz
Weight (Mass)	8.4 Kg [18.5 lbs] (Net [only for main unit]), 9 Kg [19.8 lbs] (Net [including mirror unit and set stand]]
Dimensions	Width: 306 mm (12 inches) Height: 167 mm (6.6 inches) Depth:506 mm (20 inches) (including mirror unit and set stand) [When using mirror: Depth 621 mm (24.5 inches) Depth Alone : Depth 402 mm (16 inches)]

 Video Cord (1.5 m) × 2 S-Video Cord (1.5 m) × 2 Analogue RGB Cord (1.5 m) Polishing Cloth Wall Mounting Fixtures LCD Projector Mounting Fixtures 	 Screws for mounting LCD Projector Screws for mounting on a wall Operating Instructions Installation Instructions 	
•	 S-Video Cord (1.5 m) × 2 Analogue RGB Cord (1.5 m) Polishing Cloth Wall Mounting Fixtures LCD Projector Mounting 	 S-Video Cord (1.5 m) × 2 Analogue RGB Cord (1.5 m) Polishing Cloth Wall Mounting Fixtures LCD Projector Mounting Screws for mounting on a wall Operating Instructions Installation Instructions

Discount-Merchant.com (800) 281-8860 THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

Specifications

Accessories Supplied

Remote Control (TNQE 184)	R6 (AA) Battery × 2	Lens Cap (TKKL 5038)	Set Stand (TBLB0031)
Terminal Cap (TJCX 001)	Mirror Unit (TXFEE 020N05)	Video Cord (1.5m) × 2 (TSXF 091)	S-Video Cord (1.5m) × 2 (TSXF 133)
Analogue RGB Cord (1.5m) (TSXF 147)	Polishing Cloth (TPEX007)	Wall Mounting Fixtures (TTRA0007)	LCD Projector Mounting Fixtures [TKRA10501(L) TKRA10601(R)]
Screws for mounting LCD	Screws for mounting on a wall	Operating Instructions (TQBC0108)	Installation Instructions (TQBC7027)
Discount THE TRUSTED	Merchan source for pro		ND ACCES

Important Information

FCC STATEMENT:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Caution:

To assure continued compliance and prevent undesirable interference, use only the provided shielded VGA cable with 2 ferrite cores while connecting LCD to computer and all other connecting cables should be shielded. Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

Pursuant to 47CFR, Part 15.21 of the FCC rules, any changes or modifications to this monitor not expressly approved by Matsushita Electric Corporation of America could cause harmful interference and would void the user's authority to operate this device.

Responsible Party:

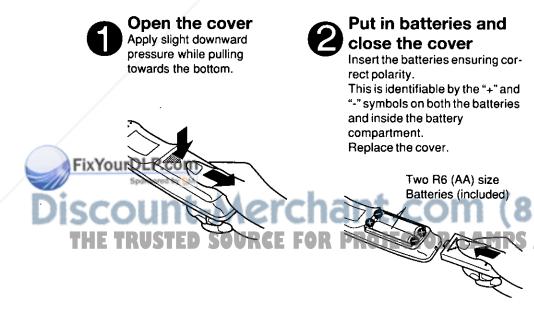
Declaration of Conformity

Matsushita Electric Corporation of America One Panasonic Way Secaucus, NJ 07094 1-800-528-8601

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Important: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Inserting the Battery

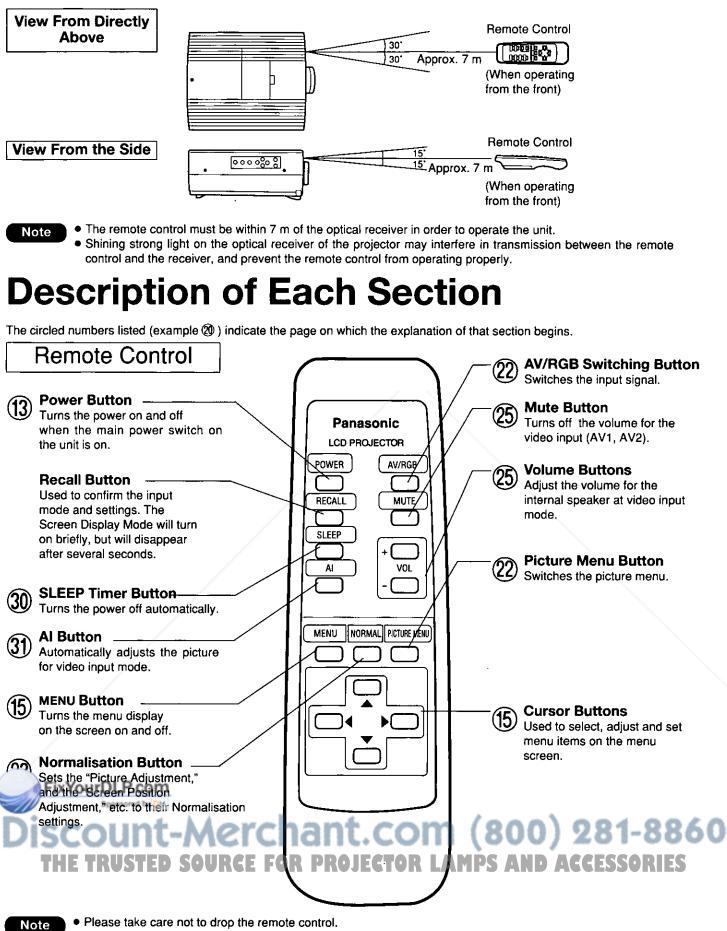


Caution

To prevent damage or leaking from the batteries:

- Do not mix different types of batteries or new and old batteries, and do not use rechargeable batteries (Ni-Cd) They are different in shape and
- performance and may fail to
- ensure correct operation.
- The batteries cannot be
- A recharged CESSORIES
- Do not burn or disassemble the batteries.

Effective Distance for Operation Using the Remote Control



Please take care not to drop the remote control.

Please take care to prevent the remote control from coming into contact with liquids.

The projector can also be operated by the power, input-switch, menu, cursor and volume buttons on the main unit.

Description of Each Section

Inserting and withdrawing the mirror unit.

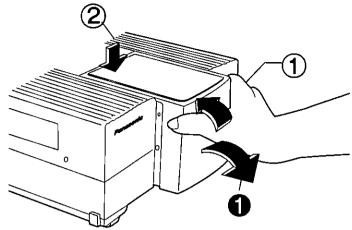
The mirror unit can be folded up and stored when not in use.



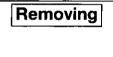
Pull out the cover section, and adjust the mirror angle for use.

Inserting

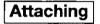
Press the cover in to insert.
 Press the mirror in to insert.



Attaching and removing the mirror unit.



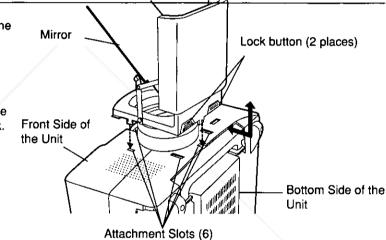
Pull out after sliding the mirror unit towards the bottom of the main unit.



Press until the attachment knobs on the mirror box slide into the attachment slots on the main unit, and lock with a click.



 The lens cap cannot be put on with the mirror unit attached.



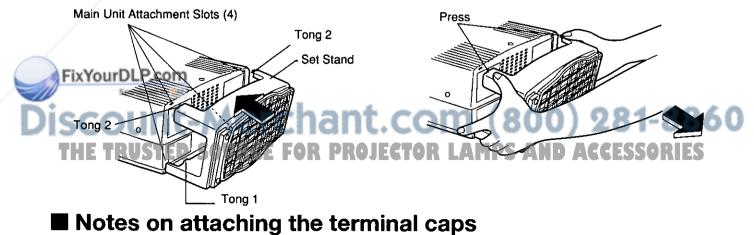
Attaching and Removing the Set Stand

Attaching

Slide the set stand into the attachment slots on the unit, and push in until the stand locks with a click. When setting up the set stand, insert tongs 2 after inserting tong 1.

Removing

Press on the two spots above the set stand to unlock, and pull back to remove.

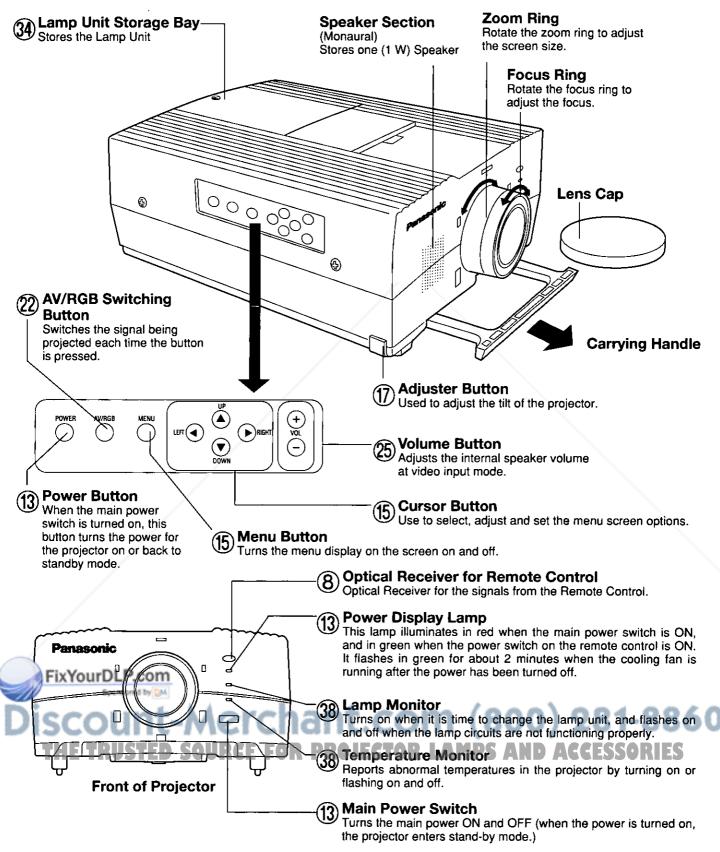


The terminal caps (included as standard) on the back terminal section are for the purpose of preventing dust from falling into the terminal section. Please attach these caps to those terminals that are not connected to cables.

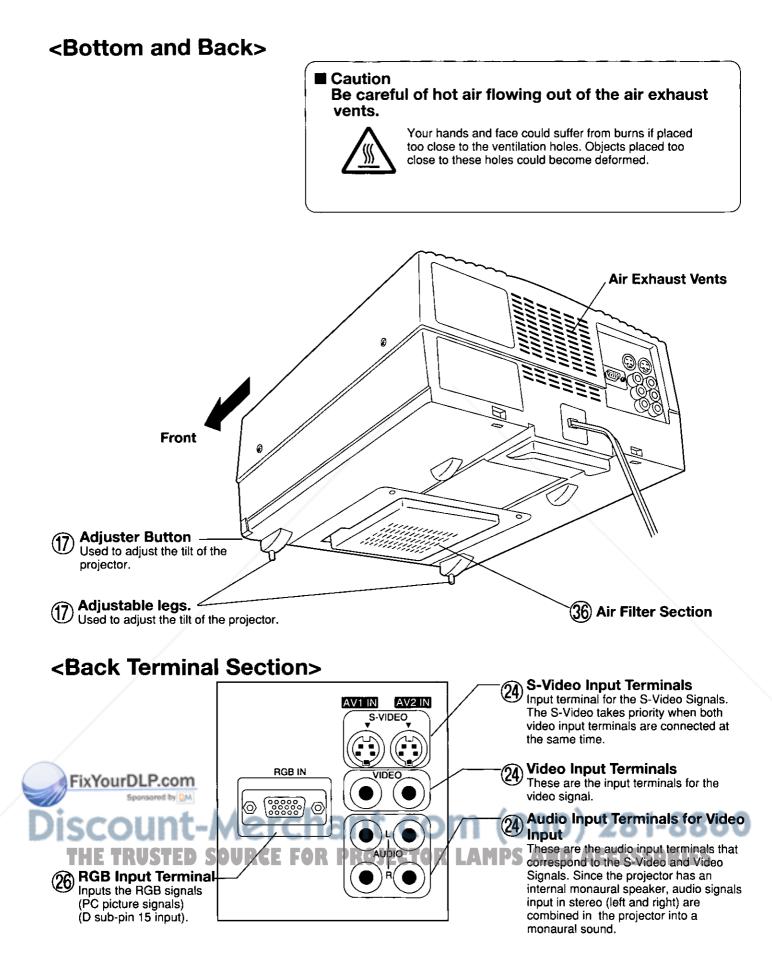
Description of Each Section

Projector

<Operating panels on Top, Front and Side.>



Description of Each Section

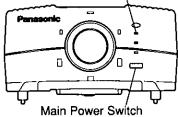


Turning the Power On and Off

Turning the main power switch off while the cooling fan is still running will reduce the life of the projection lamp. Always follow the following procedure when turning the power on and off.

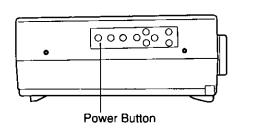
Front of Projector

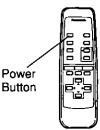
Power Display Lamp



Side Operating Panel on Projector

Remote Control





Plug the power cord into the wall socket.

Note

Turning On the Power

0	Turn on the Main Power (Projector)	Turn on the Main Power Switch on the front of the projector. The Power Display Lamp will shine red, and the unit will switch to stand-by mode.
	Turn on the Power (Projector) (Remote Control	Press the Power button on the operation panel on the side of the projector, or press the Power button on the remote control.
2		The Power Display Lamp will shine green, and an image will be projected onto the screen. (A few seconds will be required before the lamp achieves sufficient brightness).

0	Turn Off the Power (Projector) (Remote Control) POWER OR	Press the Power button on the operation panel on the side of the projector, or press the Power button on the remote control. Power display lamp will flash in green.
2	Wait until the cooling fan turns Off.	Wait until the Power Lamp (red) comes on (approx. 120 seconds).
/	Turn off the Main Power.	Turn off the Main Power Switch on the front panel of the Projector.
Fi	(Projector)	The power will turn off, and the Power Lamp will turn off after 6 seconds.

- The cooling fan will continue to run even after the power is turned off, while the internal temperature of the projector remains hot (approximately 120 seconds). Please do not unplug the main power cord or turn off the main power switch while the cooling fan is still running.
- If you accidentally turn the power off during use, the images may not be projected even if you immediately turn the power back on. Wait until the projection lamp cools, and then turn the power back on.
- The lamp may not turn on immediately after the power is turned on. If this happens, the lamp will turn on again automatically after 30 seconds (during this time the Power Display Lamp's LED illuminates in green.) If the lamp does not light up again, the Power Display Lamp's LED flickers in green, and the Lamp Monitor Display's LED flickers in red, turn on the power after the lamp has cooled down sufficiently.
- The projector uses approximately 5 W of power, even in standby state after the power has been turned off and the cooling fan has stopped.

Setting Up

Cautions During Set-Up

Please make sure to obey the following when setting up the projector.

- Please do not set up the projector in locations subject to vibration or shocks. Vibrations and shocks can damage the Projector and cause it to malfunction. Please set up the projector in a location that is not exposed to vibrations or shocks.
- Please do not set up the projector near high voltage wires or power sources. Setting the projector up near high voltage wires or power sources may cause interference with the operation of the projector.
- Please do not set up the projector on top of a tablecloth or carpet. This may interfere with circulation to the air filter and cause the internal temperature of the projector to rise, which will cause the protection circuit to operate and cut off the power.
- If you intend to mount the projector on the ceiling or a wall, please discuss this with the dealer from which you purchased the projector.

Cautions During Use

To display the highest quality in images:

Do not shine external light or illumination on the screen surface. This will prevent you from seeing high contrast and high quality images. Cover windows with curtains and blinds, and turn off fluorescent lamps near the screen surface. Moreover, flooring or walls that reflect lights should be covered by carpets or wallpaper.

• Do not touch the projection lens or the reflecting surface on the mirror section with your bare hands.

Fingerprints or dust on the projection lens surface will be magnified and projected on the screen. Therefore, please do not touch the lens or mirror surface with your hand. If the projector is not being used, the lens should be covered with the lens cap, and the mirror unit* section should be folded and stored.

*The lens cap cannot be put on with the mirror unit attached.

• Do not hang objects, of any nature, from the projector. The unit may drop, which may lead to injuries.



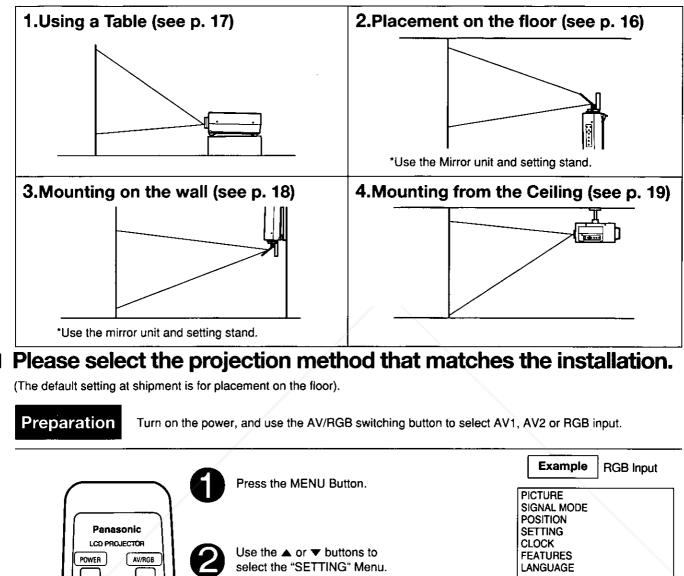
Setting Up

1

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4

Please choose the installation that suits your room and your desired purposes.



RECALL MUTE SLEEP SETTING 2 Press the ◀ or ▶ buttons to select the VOL "SETTING" Menu Screen. а 4 MENU NORMAL PICTURE MENU Press the ▲ or ▼ buttons to select the appropriate Setting 1 through 4, that P.com matches your installation. hant.com (800) 281-8860 Press the MENU Button twice to complete S AND ACCESSORIES SETTING 1 For Use on a Table Left and right reversed from Setting 2. SETTING 2 Floor Placement Default setting at shipment. SETTING 3 Wall Mount Left, right, top and bottom reversed from setting 2.

Top and bottom reversed from Setting 2.

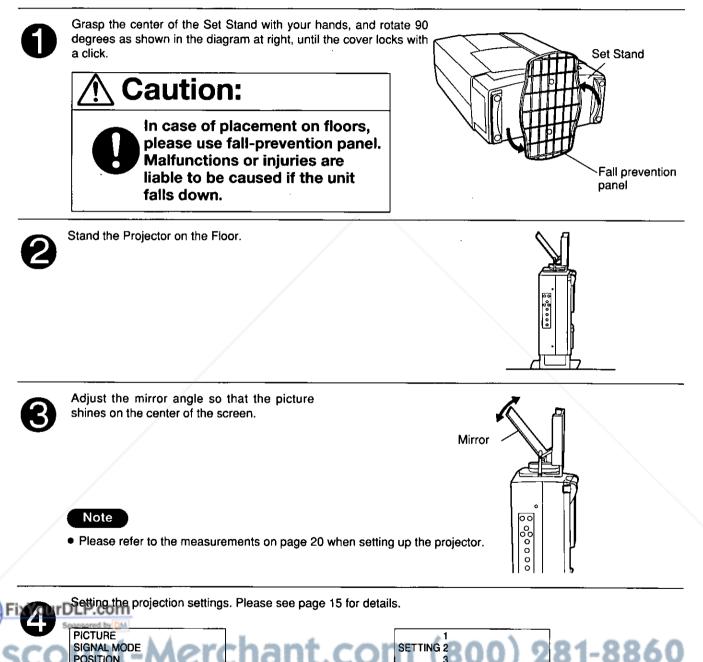
SETTING 4 Ceiling Mount



Attach the mirror unit and the setting stand (see page 10) Preparation:

Place the projector on the floor, and use the mirror unit and setting stand to stand the projector upright.

Adjustments



3

Select "SETTING 2".

POSITION

SETTING CLOCK FEATURES LANGUAGE

Setting Up

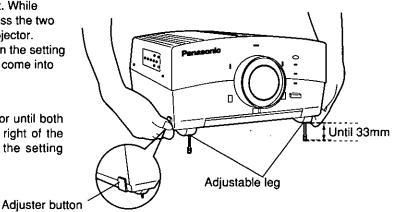
Preparation:

Remove the mirror unit and the setting stand (see page 10)

Unless the projector is placed flat, you will not be able to see clear images without distortion. If you are placing the projector on a table, please make the following adjustments to make sure that the stand is not off balance.

Adjustments

- Lift the front of the projector until it is flat. While holding the projector in this position, press the two adjuster buttons at the bottom of the projector. While you are holding the adjuster button the setting legs (left and right) will extend until they come into contact with the setting surface.
 - Please do not let go of the projector until both of the setting legs on the left and right of the projector come into contact with the setting surface.





Note

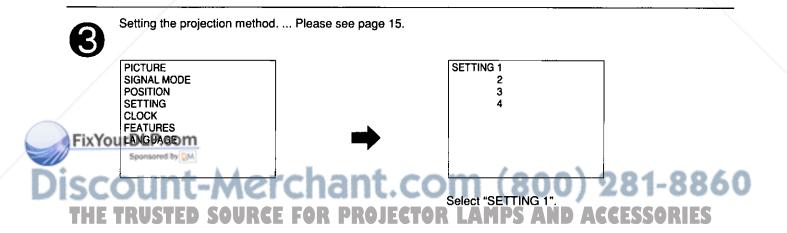
Let go of the projector. When you let go of the adjuster buttons, the adjusting function will be locked.

To Retract the Setting Legs.

Lift the projector up slightly and press on the adjuster buttons. While pressing these buttons, gently let the projector down.



• Please do not press the adjuster buttons unless you are supporting the projector with your hands. Releasing the lock and letting the projector fall abruptly onto the stand may break the projector.



Mounting Projector on a Wall

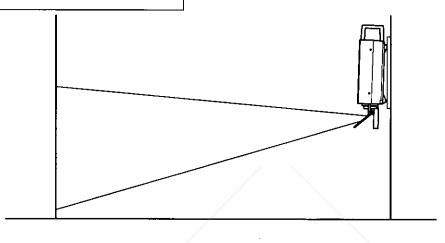
Preparation:

Attach the mirror unit and setting stand (see page 10).

Please use the included fittings when mounting the projector on a wall.

Please follow the included Installation Manual for Wall mounting, and request a professional installer to install the projector properly.

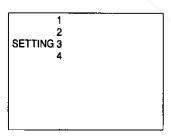
Example of mounting on a wall.



Selecting the Projection Setting ... Please see page 15 for details.







Select "SETTING 3".



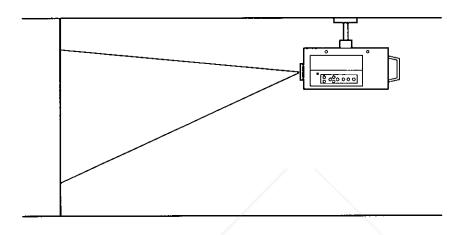
Setting Up

Preparation:

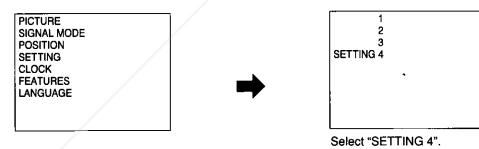
Remove the mirror unit (see page 10).

The Ceiling Mount Kit TY-CE1 is required to mount the projector on the ceiling. Please discuss this with the dealer from which you purchased the projector.

Example of mounting on the ceiling.



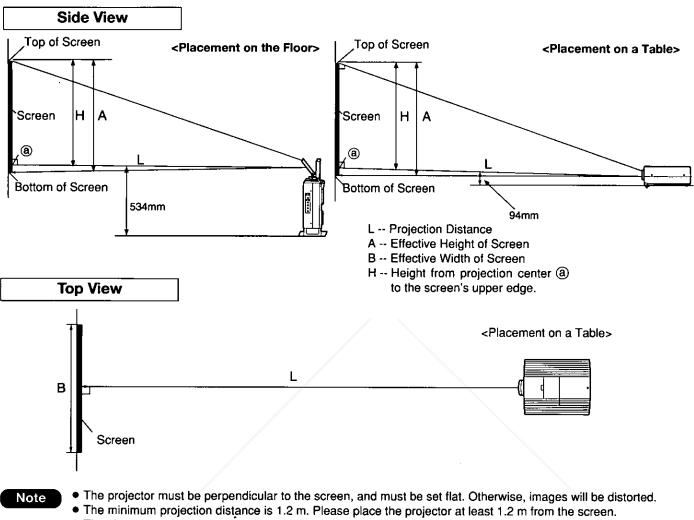
• Selecting the Projection Setting -- Please see page 15 for details.





Projection Distance and Location for Installing

Please refer to the following diagrams to determine the projection location.



- The sizes of the images projected will differ slightly depending on whether the input is video or RGB. Please adjust using the zoom function.
- If the screen size is reduced slightly, the image will be brighter.

[During Video Input]

		Screen Size (mm)		Height from		
	Projection creen size (Type)	Effective Height (A)	Effective Width (B)	projection center (a) to the screen's upper edge.	Projection D (Screen surface	• •
F	FixYourDL	P.com		H (mm)	Shortest	Longest
11	40 Spons	pred by 📴 610	813	Approx. 570	Approx. 1.6m	Approx. 2.2m
lic	50	762	1016	Approx. 710	Approx. 2.1m	Approx. 2.7m
	60	914	1219	Approx. 860	Approx. 2.5m	Approx. 3.3m
	70 TRU	STED10670URCE	FOR1422 0 JECT(Approx. 1000	Approx. 2.9m	Approx. 3.9m
	80	1219	1626	Approx. 1140	Approx. 3.3m	Approx. 4.5m
	90	1372	1829	Approx. 1280	Approx. 3.7m	Approx. 5.1m
	100	1524	2032	Approx. 1430	Approx. 4.1m	Approx. 5.6m
	150	2286	3048	Approx. 2140	Approx. 6.2m	Approx. 8.5m
	200	3048	4064	Approx. 2850	Approx. 8.3m	Approx. 9.0m

Selecting the Screen

A screen is needed to view images from the projector. The brightness and viewing range may vary depending on the type of screen used.

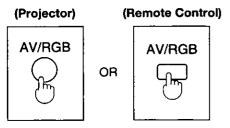
When selecting a screen, please consider the features of the screen carefully, and select a screen that fits the location where the screen is to be used.

Type of Screen Screen Features Can be viewed from any direction within the viewable area. However, clear images cannot be seen unless the room is darkened like a movie theatre. White Screen White Screen Images are reflected off the screen at 2-4 times the brightness of a white screen. 8 -----Various screen manufacturers sell various types of screens that offer differing Reflection brightness ranges. Some screens also restrict the viewing angles. Silver Screen Maximum Luminance *Well suited to ceiling or wall projection. Silver Screen Similar to a silver screen, except that images are reflected back in the same direction from which they were sent. *Well suited to projection when the projector is to be placed on a table stand **Bead Screen** or floor stand. Maximum luminance. FixYourDLP.com

(Reference) Screen Features

Projecting With the Setting You Desire

AV/RGB Selection



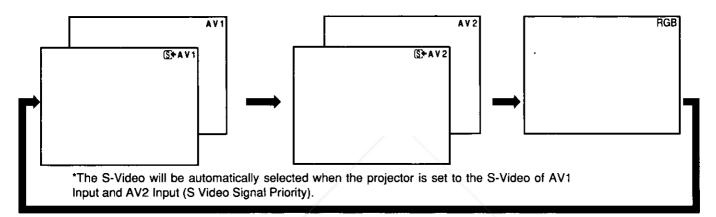
Note

To switch inputs press the AV/RGB switching button on the projector, or the remote control. Inputs will be switched in the following order:

Signals from the device connected to AV1 Input will be projected.

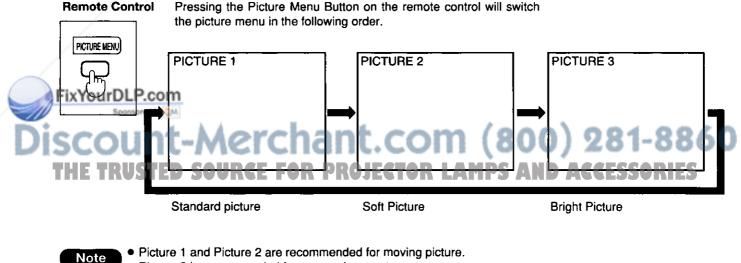
Signals from the device connected to AV2 Input will be projected.

Signals from the device connected to the RGB Input will be projected.



- Please do not connect cables to the S-Video Input Terminal if you wish to project a video signal from the video input terminal.
 - At the time of shipment, the default color projection for Auto or RGB input is set to Auto. If the images are not being projected correctly, however, it may be necessary to change the setting to match the input signal. Please see p. 25 for selection of color standard for the video input signal. Please see p. 27 for selection of mode for the RGB input signal.

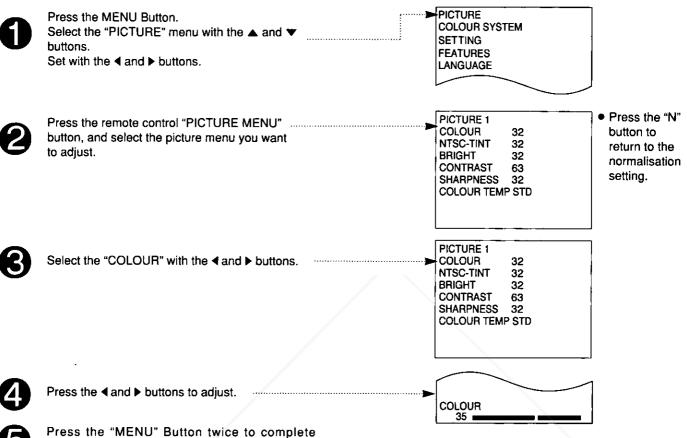
Using with the Picture Menu of Your Preference



- Picture 3 is recommended for personal computer.
 - The selected Picture Menu will be memorized for each input switching.
 - The contents of the Picture Menu (color, contrast, etc.) let you make the desired changes. (See page 23.)

Adjusting the Picture to Your Preference

The picture can be adjusted to your preference for each AV/RGB setting selected for the projector using the method discussed on p. 22 (adjustments will be stored for each of Pictures 1 through 3). The options that can be selected will differ between the Video (S-Video) signal and the RGB signal. The adjustment procedures presented below are explained on the screen when inputting the Video (S-Video) signals.



(screen returns to the normal viewing condition).

• The buttons you press and the adjustments made will differ depending on the adjustment setting. Please refer to the following table.

Adjustment Item	Button	Adjustment	Extent of Adjustment	Remarks
COLOUR	•	Increases the Color	Maximum Value 63	Only operational during video
0020011	•	Lightens the Color	Minimum Value 0	signal input (Including S-Video).
NTSC-TINT	►	Adds a Green Tint to Flesh Tones	Maximum Value 63	Only operational during NTSC3.58/NTSC 4.43 video signal
	•	Adds a Purplish Red Tint to Flesh Tones	Minimum Value 0	input (including S-Video).
BRIGHT	•	Brightens the picture	Maximum Value 63	
ixYourDLP.con	1	Makes the picture darker	Minimum Value 0	
		Makes the screen brighter and the picture darker	Maximum Value 63	
	-Merc	Makes the screen darker and the picture brighter	Minimum Value 0	281-886
SHARPNESS	CAUDEE	Increases the sharpness of the picture quality	Maximum Value 63	Only operational during video
	SUGACE	Makes the picture quality softer	Minimum Value 0	signal input (including S-Video).
COLOUR TEMP	4 ·Þ	STDStandard WarmAdds a reddish hue to the screer CoolAdds a bluish hue to the screen.	۱.	

Note

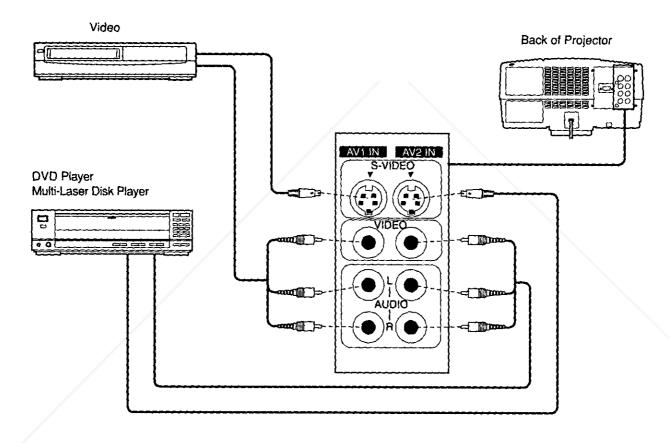
- Press the "MENU" Button to close the Adjustment Screen or Main Menu Screen.
- NTSC tint cannot be adjusted for the color systems SECAM and PAL.

• The selected color temperature can be stored in the memory, however, it would be the same even if the input is switched over.

Remarks on System Installation

- · Please read the User Manuals carefully for any equipment you intend to connect to the Projector.
- Make sure that the power is off for each piece of equipment before connecting any cables.
- If the included cables cannot be attached because of the location in which the projector is installed, please use commercially sold cables that match the equipment to be connected.
- The signals that can be connected to the projector are video signals, S-Video Signals and Analogue RGB Signals (with synchronous signals of 0.6 - 8.0 Vp-p).
- The projector has one 1 W internal speaker. A separate audio system would be required to output high volumes, or to enjoy stereo sound (please connect each device directly to the audio system).
- Some computer models cannot be connected to the Projector.

Connecting to AV Equipment

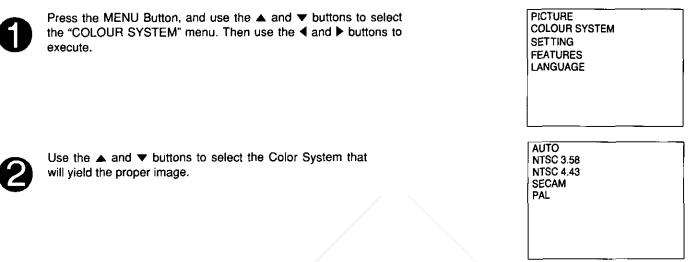


The S-Video In terminal will have priority when cables are connected to both the S-Video In and the Video In terminals. Please do not connect a cable to the S-Video In if you wish to project video signals.
 FixYourDit the wideo signal is to be connected using a BNC plug cable, please use a (commercially sold) BNC-Pin Adapter if you wish to convert to a pin jack.
 The left audio and the right audio for the Video Input are combined within the Projector into monaural audio.

Selecting the Colour System for Video (S-Video) Input

Please use the following procedure to select the Colour System, if the signal does not match and a normal picture is not projected, when selecting AV1 or AV2 during input switching. Normally, the Projector can be used as is without this setting, since at the time of shipment the Projector is set to Auto.

Setting Procedure (Either the Remote Control or the Projector can be used to set the Color System)





Press the MENU Button twice to complete.



- NTSC3.58, NTSC4.43, SECAM and PAL are television broadcast systems. This Projector can project video signals that correspond to these systems.
- In some cases, images will not be properly displayed under the Auto setting, if the picture is poor, including dubbing tapes. Switching the Color System is an effective measure to take in these instances.

Adjusting the Volume

Use the volume adjustment buttons (-/+) to adjust the volume during video input.

Press + to increase the volume.

Press - to decrease the volume.

- Even if another screen is being displayed, these buttons will operate when pressed, although the adjustment level will not be displayed.
 - The buttons will not operate during RGB signal input.

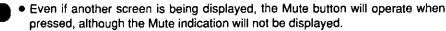
FixYourDLP.com

Note

Note

Turning Off the Volume

Pressing the Mute button "@" during video input will cause the sound to turn off and the Mute indication to be displayed as shown to the right. Press the Mute button again to turn off the Mute indication. The sound will return at its prior volume, and the volume level will be indicated for approximately 3 seconds.



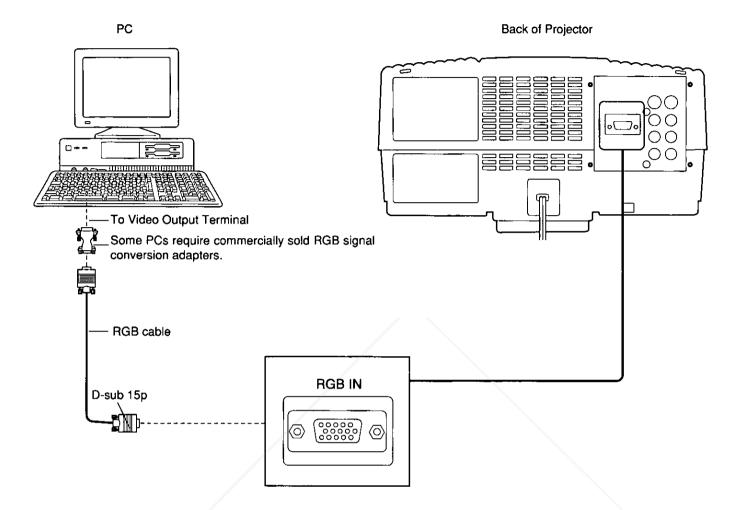
 The settings will be cancelled by turning off the power, or by pressing the volume "+" button.

VOLUME 35 _____



• The Mute button will not operate during RGB signal input.

Connecting to PCs



Note

- Please refer to the data presented on page 27 concerning PCs that can be connected to the Projector. In some cases other PCs may not work with this projector.
- There is no audio signal in RGB input.
- Some PC models cannot be connected to the Projector.
- A commercially sold adapter is required to use the included RGB cable (D-sub 15P) to connect a PC-98 series computer (which has a D-sub 15P terminal) or a Macintosh computer to the projector.

There is no need to use an adapter for computers with a DOS/V compatible D-sub 15P terminal.



5 4 3 2 1 10 9 8 7 6 15 14 13 12 11

Signal Names for D-sub 15P Connector



Pin No.	Signal Name	Pin No.	Signal Name	I Pin No.	Signal Name
(1)	REP ROURCE	6	GND (Ground)	(1)	GND (Ground)
2	G	\overline{O}	GND (Ground)	1 12	NC
3	В	8	GND (Ground)	(13)	HD/SYNC
4	GND (Ground)	9	NC (not connected)	14	VD
5	GND (Ground)	10	GND (Ground)	(15)	NC (not connected)

Selecting the Signal Mode for RGB Signal Input

The Projector is set to Auto, which will automatically select the Signal Mode that matches, or is closest to, the input signal, in the data that is loaded into the Projector prior to shipment. Please use the following procedure, however, if pictures are not projected properly. If signals are input that are substantially different from the frequency registered, pictures will not be properly displayed, or a blue back (or no signal) screen will be displayed.

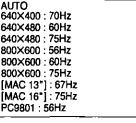
Selection Procedure (Selection is Possible Using Either the Remote Control or the Buttons on the Projector)



Press the MENU Button. Use the \blacktriangle and \checkmark buttons to select the "SIGNAL MODE" Menu. Then use the \triangleleft and \triangleright buttons to execute. PICTURE SIGNAL MODE POSITION SETTING CLOCK FEATURES LANGUAGE



Use the \blacktriangle and \blacktriangledown buttons to select the "SIGNAL MODE" that will yield the proper image.



C

Press the MENU Button twice to complete.

Note

• During the selection of the Signal Mode, in some cases it may be displaced outside the screen domain, and viewing would not be possible. When confirming the present Signal Mode, or troubles are encountered during operations, you may either unplug the RGB cable, or shut down the computer, and carry out the procedure from step 1 to return to the first display.

Table of Compatible PC Signals

D	Signal Data			
Display Mode	Pixels	Horizontal Scanning Frequency (kHz)	Vertical Scanning Frequency (Hz)	Remarks
AUTO	Selection is mad	e automatically from the follow	ring recorded modes.	
640X400 : 70Hz	640X400	31.5	70.1	
640X480 : 60Hz	640X480	31.5	59.9	
640X480 : 75Hz	640X480	37.5	75.0	
800X600 : 56Hz	800X600	35.2	56.3	Converted and
100X600 : 60Hz	800X600	37.9	60.3	Converted and
0X600.75Hz P.CO	m 800X600	46.9	75.0	Displayed at 640X480
[MAC 13"] : 67Hz	640X480	35.0	66.7	
[MAC 16"]: 75Hz	832X624	49.7	74.6	Converted and Displayed at 640X468
PC9801: 56Hz	640X400	24.8	56.4	

Note

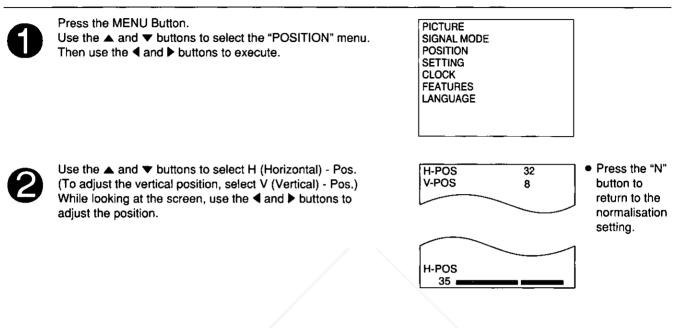
• The pixel value for the Projector is 640X480 (meets requirements up through VGA). Signals of more than 640X480 (S-VGA), (MAC 16) are converted to 640X480 and displayed, which causes some deterioration in picture quality.

Adjustments for RGB Input Screen

Adjusting the Screen Position

The position of the screen can be shifted left, right, up or down if the RGB input image projected on the screen is off center, even though the Projector and screen have been set up in the proper relative positions. (This is available only during RGB input.)

Adjustment Procedure <Adjusting the Horizontal Position (Left and Right)>

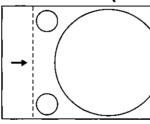




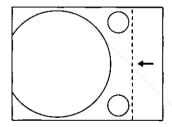
Press the MENU Button twice to complete.

<Adjusting the Horizontal Position (Shift Left or Right)>

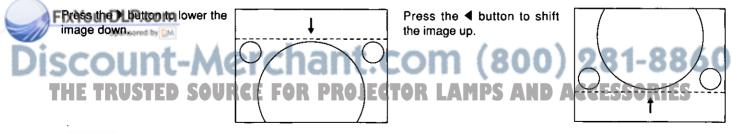
Press the ▶ button to shift the image right.



Press the **4** button to shift the image left.



<Adjusting the Vertical Position (Shift Up or Down)>



Note

• The V-Pos cannot be changed if the display mode for the Signal Mode is 640X400 : 70 Hz, 800X600 : 56Hz, 800X600 : 60 Hz, 800X600 : 75 Hz, or PC9801 : 56 Hz.

Adjustments for RGB Input Screen

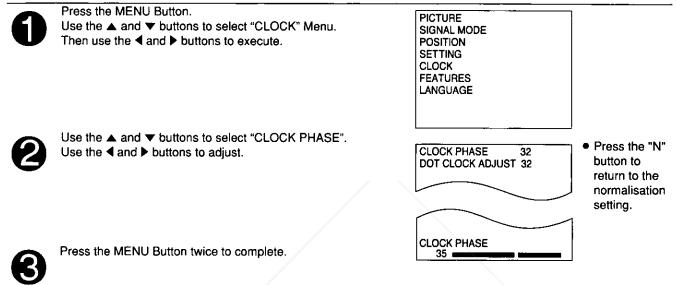
Adjusting the Dot Clock

Fine adjustment and clock phase adjustment of the dot clock frequency is possible during RGB signal input. Please follow the following procedure to adjust, while looking at the screen.

Adjusting the Clock Phases

By adjusting the phases you can remove screen flickers and blurred contours that result from computer images using RGB signal inputs.

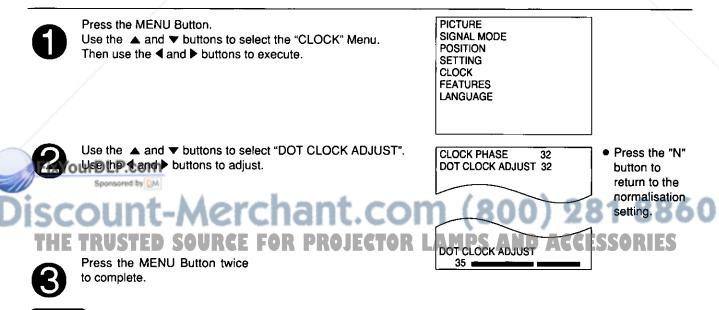
Adjustment Procedure



Fine Adjustment of Dot Clock Frequency

The Projector allows adjustment of the area of picture display at the time of RGB Signal Input.

Adjustment Procedure



Note

In some cases the picture will not display normally if the Dot Clock Frequency is substantially out of adjustment.

Convenient Options for Use

Changing Screen Display Language.

Data for 7 languages is stored in the Projector. Use the following procedure to display the language of your choice.

Setting Procedure To Switch to French (FRANÇAIS) (Example: When using AV1 and AV2)



Press the MENU Button. Use the \blacktriangle and \checkmark buttons to select the "LANGUAGE" Menu. Then use the \triangleleft and \triangleright buttons to execute.

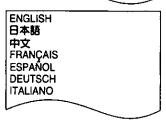


Use the ▲ and ▼ buttons to select French "FRANÇAIS".



Press the MENU Button twice to complete.

PICTURE COLOUR SYSTEM SETTING FEATURES LANGUAGE



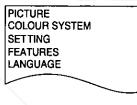
Using the Noise Timer Feature

The projector offers a Noise Timer feature, which automatically switches the projector into standby mode to save energy if the projector is left for 5 minutes or more without any signal being input. At the time of shipment this feature is turned Off. Please follow the following procedure to turn the Noise Timer On, if you wish to use this feature.

Setting Procedure (Example : When Using AV1 and AV2)



Press the MENU Button Use the \blacktriangle and \checkmark buttons to select the "FEATURES" Menu. Then use the \triangleleft and \triangleright buttons to execute.

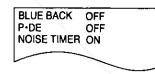




Use the \blacktriangle and \checkmark buttons to select "NOISE TIMER". Then use the \triangleleft and \triangleright buttons to switch the Noise Timer off or on. (Set to On to operate the Noise Timer)



Press the MENU Button twice to complete.



Note

• Settings of the NOISE TIMER would be stored in the memory even after the power has been turned off.

- If the Noise Timer feature is operating, a flashing light will appear at the bottom right hand corner of the screen when less than 3 minutes are left.
- When the OFF TIMER has already been set, it will have the priority.

Using the Sleep Timer Feature



The Timed Off feature will be turned off when the setting is set to "0".

Display flashes on and off.



 If you wish to know how much time is remaining, press the Sleep Timer button once, or confirm by pressing the Recall button.

Convenient Options for Use

Setting the Screen Color to Blue When There is no Signal.

This sets the screen color to blue when no devices are attached to any of the input terminals to the Projector, or when no signals are being input from any of the connected devices.

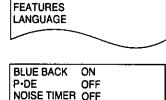
Setting Procedure (Example: When using AV1 and AV2)



Press the MENU Button Use the \blacktriangle and \checkmark buttons to select "FEATURES" Menu. Then use the \triangleleft and \triangleright buttons to execute.



Use the \blacktriangle and \blacktriangledown buttons to select "BLUE BACK". Then use the \blacktriangleleft and \triangleright buttons to switch the Blue Back off or on.



PICTURE

SETTING

COLOUR SYSTEM



Press the MENU Button twice to complete.



Unrecognisable signals input are treated as no signal being input.

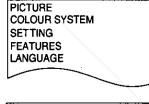
Adjusting P . DE (Picture Detail

Adjusting the picture clarity to your preference during Video Input.

Setting Procedure

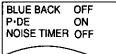


Press the MENU Button Use the \blacktriangle and \checkmark buttons to select "FEATURES" Menu. Then use the \triangleleft and \triangleright buttons to execute.





Use the ▲ and ▼ buttons to select "P·DE". Then use the ◀ and ▶ buttons to switch the P· DE on or off. On.....increases clarity Off.....reduces roughness.



Auto Adjustment of Picture AI (Artificial Intelligence)

During video input, this feature automatically uses the optimum staged compensation at all times for the picture being Neved, to provide a clear picture with a comfortable contrast.

Setting Procedure

• Press 🖪 button on the remote control (the display will switch between On and Off each time you press the button).



Al On -- Bright and clear contrast. The picture colors are reproduced with high clarity.





Cleaning and Proper Use

Wipe gently with a soft cloth to clean.

If the Projector is heavily soiled, moisten the cloth with a neutral cleanser diluted in water. and wring out the cloth before using. Then wipe dry with a dry cloth.



Do not use insecticide, benzene, paint thinner or explosive substances.

This will cause damage to the case or strip off the paint. Also do not place in contact with rubber or vinyl products for an extended period (this can cause damage to the case).



Do not apply cleaning fluid directly to the Projector.

Droplets falling inside the cabinet can cause the Projector to malfunction.

Do not wipe the lens surface or the mirror surface with a cloth that has dust.

Foreign matter or dust on the lens surface will be magnified and projected onto the screen.

Wipe clean with the polishing cloth included with the projector, or a soft, clean cloth.

Note

Before using a chemically treated cloth, make sure to read the accompanied cautions.

Care When Setting Up the Projector

Avoid direct sunlight and keep away from heating equipment.

This can warp the case and cause the Projector to malfunction.



Be Careful of Interference Between Equipment

Weight and electromagnetic interference can distort images and sound.



RUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

Turn the power Off when connecting

Follow the user manuals when connecting devices. (including audio equipment, video equipment, game machines, video disk equipment, speaker boxes and PCs).

Leave space around the Projector

- Air circulation will reduce the amount of dust adhering to walls and other surfaces.
- Use the designated units when mounting on a wall or the ceiling.

Cautions for Use

Do not Short Circuit the Interval Between **Opposing Poles of the Batteries (Interval** Between (+) Pole and (-) Pole). This can cause the batteries to become unusable.

nt-Mer

If Battery Leakage Occurs (for the Remote **Control Batteries)**

Wipe the battery case fully with a cloth if leaking occurs, and insert a new battery. If any part of your body comes into contact with the leaking fluid, wash these areas ant choroughly with water.

Replacing the Lamp Unit

A Caution

Make sure that the lamp is fully cooled before replacing the lamp unit.

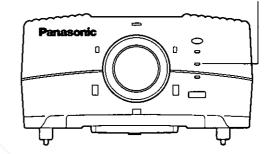
After using the projector, the lamp will be very hot. Touching it can cause burns, and objects placed in contact with the lamp may be deformed or damaged by the heat.

When to Replace the Lamp

The lamp monitor will shine red when the Lamp Unit has been used for 7000 hours.

Please replace the lamp when the lamp monitor turns on, since the lamp will eventually become darker or burn out over a period of time.

*The expected life is 7000 hours. Depending on the conditions of use, the lamp may need to be changed before this time elapses.



Lamp Monitor Display

Please Observe the Following When Changing the Lamp

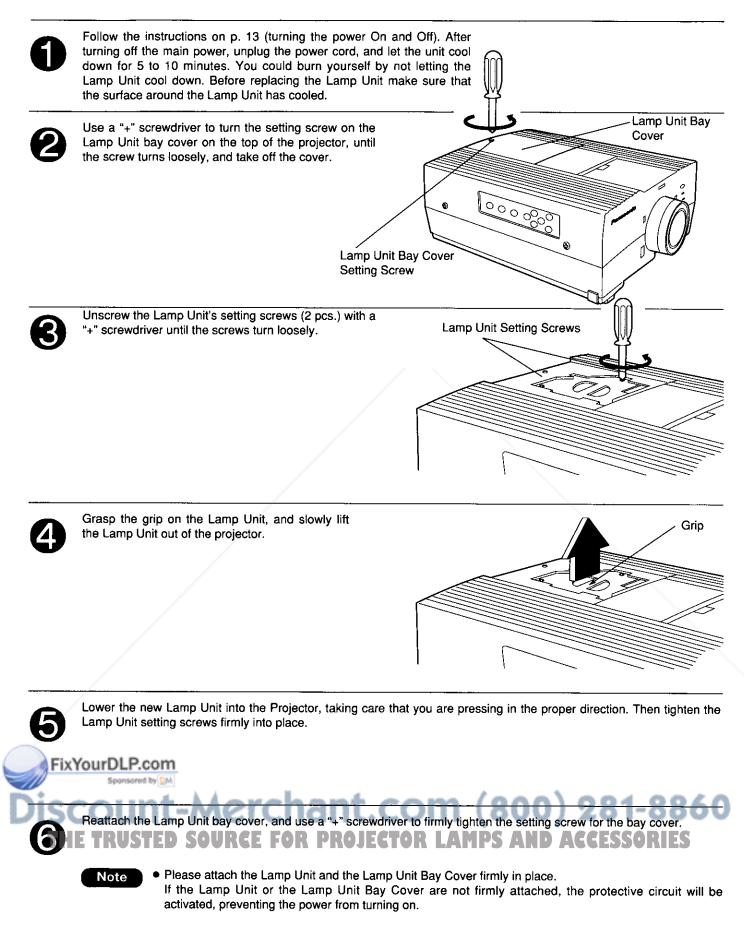
- The optical lamp is a glass product. It may shatter if struck by hard objects or if dropped. Please be careful when handling the lamp.
- A "+" screwdriver must be used when replacing the lamp unit. Please be careful that your hand does not slip when using the screwdriver.
- Follow the instructions on the following page when replacing the lamp unit, and please turn off the Lamp Monitor Display.



• Lamp Units are sold separately. Please inquire with the dealer from whom you purchased the Projector. Lamp Unit Spare Part No : TXZVL010N05



Replacing the Lamp Unit



Replacing the Lamp Unit



Note

Insert the power plug into the socket, and turn on the Main Power on the front panel of the Projector.

 If the power does not turn on even though the Main Power switch has been turned on, turn the Main Power back off, and confirm that the Lamp Unit and the Lamp Unit Bay Cover are firmly in place. Then turn the power back on.



Press the power button on the operating panel on the side of the Projector, or on the remote control, and begin picture projection.



To Turn Off Lamp Monitor Display

Operating Panel on the Side of the Projector



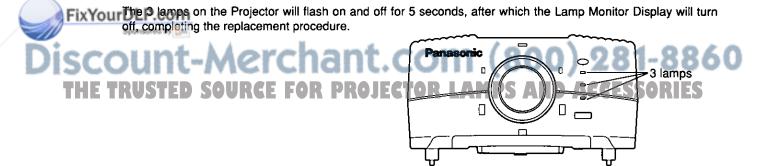
Remote Control AV/RGB Switching Button on the Remote Control Panasonic Loo PROJECTOR Prover

Remote Control

ROWER AV/RGS RECALL MUTE SLEEP + VOL AV/RGS

Press the above three buttons at the same time.





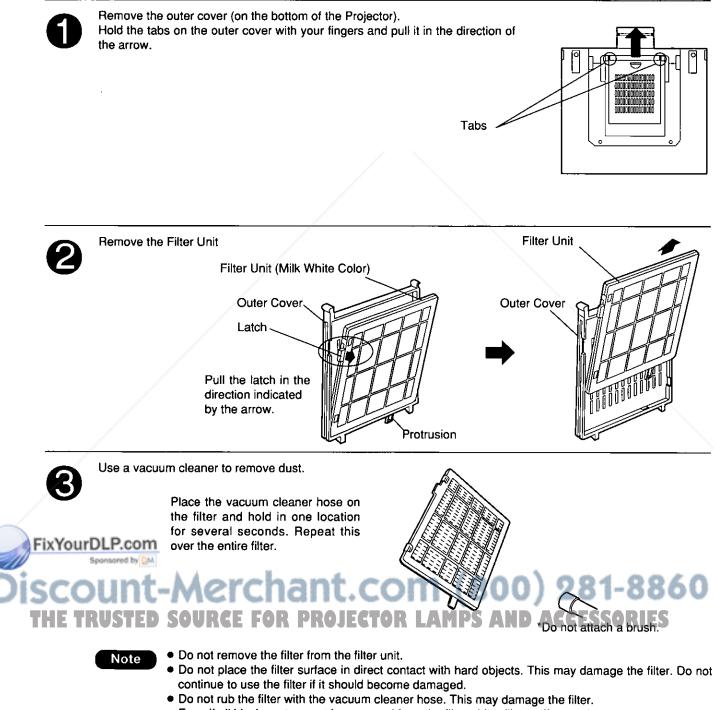
Cleaning and Replacing the Air Filter

Dust build-up in the air filter will raise the internal temperature of the Projector, whereupon the Temperature Monitor will flash on and off and the power will be turned off. Please clean the air filter, immediately if the Temperature Monitor flashes on and off. Cleaning the Air Filter is recommended after approximately every 100 hours of use, although requirements will differ depending on the location in which the Projector is used.

Cleaning the Air Filter

Preparation

Turn off the Main Power on the Projector, and unplug the power cord. Please be sure to follow the instructions on page 13 (Turning Power On and Off).



• Even if all black soot cannot be removed from the filter, this will not affect performance.

Cleaning and Replacing the Air Filter



Reattach the Filter Reattach the Filter in the reverse order as it was removed.

Replacing the Air Filter

If dust cannot be removed by cleaning, or if the filter is damaged, you will have to replace the filter. To replace the filter unit, follow the same instructions as for cleaning.

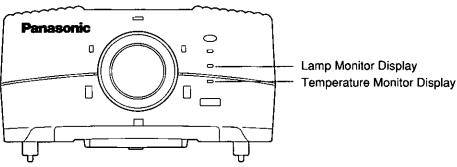
Note

• To obtain new filter units, please inquire with the dealer from whom you purchased the Projector. Filter Units Spare Part No : TXFKN010N05



Monitor Display

The front panel of the Projector contains two lamps that display information on the internal condition of the Projector. If these Lamps are on, or flashing on and off, this indicates a problem inside the Projector. Please turn off the power and take the action indicated below.



Name of Warning	Lamp Display	Symptom	Check	Action
Lamp Monitor Display	Red Light is On	This means that it is time to change the Lamp Unit.		This light turns on when the Lamp Unit has been used for 7,000 hours. Please replace the Lamp Unit (see p. 33)
	Red Light Flashes Off and On	Detects abnormalities in Optical Lamp and the Lamp Circuit.	Did you turn the power back on immediately after turning it off?	Wait for some time until the Optical Lamp cools off, and then turn the power on.
			Is the Optical Lamp burnt out?	Check the Optical Lamp. If this is burned out, please replace it following the instructions on p. 33 through 35.
			An abnormality has occurred in the Lamp circuit.	Follow the instructions on p. 13 to turn off the Main Power, and contact your dealer.
	Red Light is On	The inside of the Projector is hot.	 Check whether or not the air vents are clogged. Is the Projector being used in a 	 Remove debris clogging the air filter. Please set up the Projector in an area where the surrounding temperature is between 0 °C and
Temperature Monitor Display FixYourDLP.com	Red Light Flashes Off and On	The inside of the Projector has overheated, and the Lamp Unit has turned off automatically (reverting to standby condition).	 Is the air filter clogged? 	 40°C, and the surrounding humidity is between 20% and 80% (no condensation). Please turn off the main power switch following the instructions on p. 36, and clean the air filter

Note • When the main power is turned on, the Temperature Monitor Display and the Lamp Monitor Display will flash on and off for an instant, and at the same time the radiating fan will rotate for a brief instant.

1 1

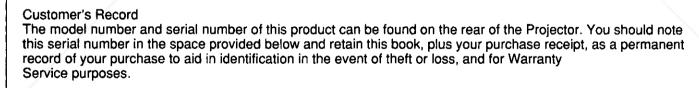
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• Always follow the instructions on p. 13 (Turning Power On and Off) when carrying out the indicated actions for the Temperature Monitor Display or the Lamp Monitor Display.

• If the Power Display Lamp turns off after the Temperature Monitor Lamp flashes on and off, this indicates an internal malfunction. Please see your dealer for servicing.

Check Before Requesting Servicing Please check the following one more time.

If this happens	Check the following	
The power does not turn on.	 Is the power cord properly plugged into the socket? Has the main power switch been turned off? Check the Temperature Monitor Display on the front panel of the Projector. Is flashing on and off? Have you taken the proper action indicated on page 38? Is the air filter properly attached? Is the Lamp Unit Bay Cover completely attached? 	it lit or
Pictures are not projected.	 Have you taken off the mirror unit? Is the lens cap still on? Is the picture input source correctly connected? Is the input switch setting correct? Are the devices connected to the projector operating properly? 	
Power source is turned off after a few minutes.	Is the Noise Timer still on? (See page 30.)	
Pictures are dim.	 Is the lens properly focused? Is the projection range proper? Is the lens soiled? Is the projector set up at the correct angle to the screen? 	
Color is Faint. Shading is Poor.	 Have you correctly adjusted the color and NTSC-TINT? Have you properly adjusted equipment that is connected to the projector? 	
There is no sound.	 Is the audio input source correctly connected? Has the volume adjustment been turned all the way down? Is the mute on? Has RGB Input been selected? RGB Input is not compatible with audio. 	
Remote Control does not work	 Are the dry cell batteries used up? Have you set the batteries with the poles in the proper direction? Are there any obstructions between the remote control and the remote correceiver? Is the remote control being operated outside of its effective area? 	ntrol optical
Pictures are not projected properly.E TRUS	 Has the Projector been set to the proper Input ? Has the proper color system and signal mode been selected? (Refer to page 25 Is there any malfunction in the video player or other equipment connector? 	
Sounds are emitted from inside the Projector.	 The heat discharging fan inside the Projector automatically adjusts its str stages, depending on increases in temperature within the unit. As the internal temperature increases, the noise from the fan will also increase 	



Model Number PT-LT1A

Serial Number

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