



DVD Player Service Manual

Model Group: DVD-2102

**Model :
DVD-2102SL1**

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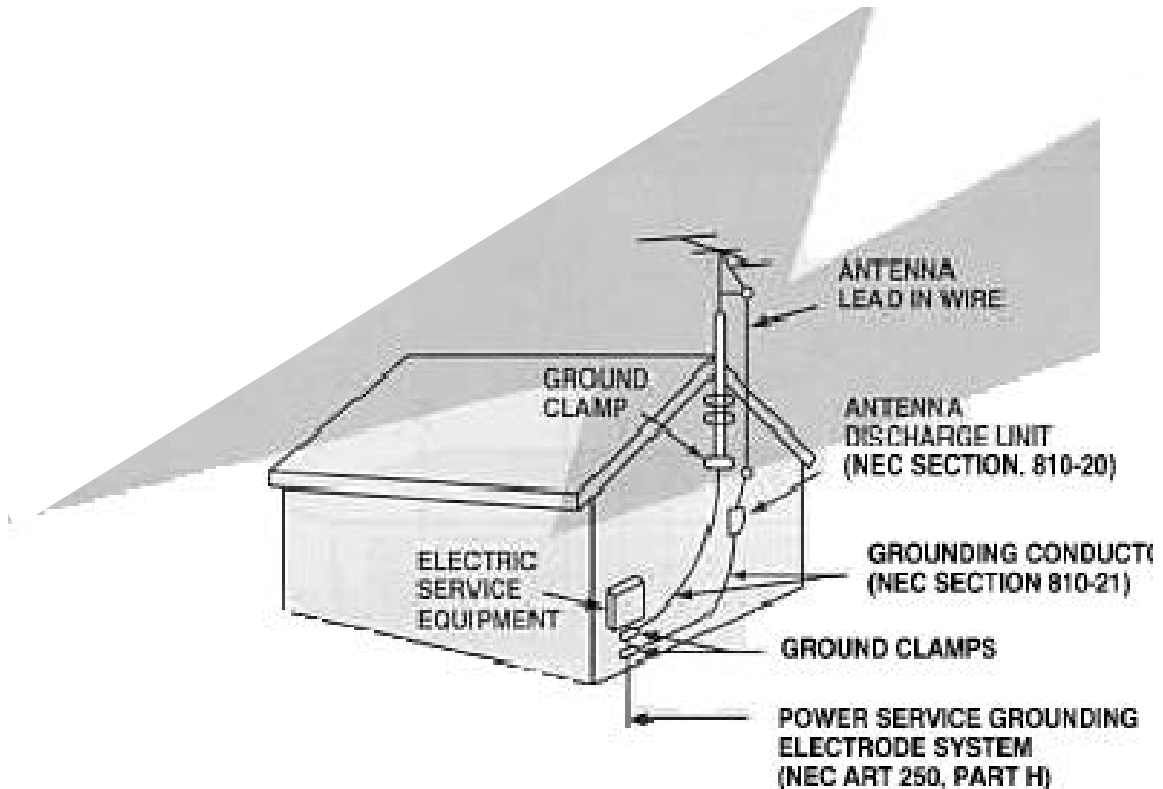
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SAFETY INSTRUCTIONS WARNING AND NOTES

ELECTRIC SHOCK WARNING

	CAUTION RISK OF ELECTRIC SHOCKS DO NOT OPEN	
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK) NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL		
	THE LIGHTNING FLASH WITH ARROWHEAD SYMBOL WITHIN AN EQUILATERAL TRIANGLE IS INTENDED TO ALERT THE USER TO THE UNINSULATED “DANGEROUS VOLTAGE” WITHIN THE PRODUCTS ENCLOSURE THAT MAY BE SUFFICIENT MAGNITUDE TO CONSTITUTE A RISK OF ELECTRIC SHOCK TO PERSONS.	
	THE EXCLAMATION POINT SYMBOL WITHIN AN EQUILATERAL TRIANGLE IS INTENDED TO ALERT THE USER TO THE PRESENCE OF IMPORTANT OPERATING AND MAINTENANCE (SERVICING) INSTRUCTIONS IN THE LITERATURE ACCOMPANYING THE APPLIANCE.	
CAUTION TO PREVENT ELECTRIC SHOCK, DO NOT USE THIS POLARIZED AC PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.		
LASER SAFETY THIS UNIT EMPLOYS LASER. ONLY QUALIFIED SERVICE PERSONNEL SHOULD REMOVE THE COVER OR ATTEMPT TO SERVICE THIS DEVICE DUE TO POSSIBLE EYE INJURY. CAUTION: USE OF ANY CONTROLS, ADJUSTMENTS, OR PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.		

EXAMPLE OF ANTENNA GROUNDING



EXAMPLE OF ANTENNA GROUNDING ACCORDING TO
NATIONAL ELECTRICAL CODE INSTRUCTIONS
CONTAINED IN ARTICLE 810-RADIO AND TELEVISION EQUIPMENT

NOTE TO CATV SYSTEM INSTALLER

This reminder is provided to call the CATV (Cable- TV) system installer's attention to Article 820-40 of the NEC, which provides guidelines for proper grounding and, in particular that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

ATTENTION

This equipment has been tested and found to comply with the limits for 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 or more 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.

NOTE: Change or modifications may cause this unit to fail to comply with part 15 of the FCC Rules and may void the user's authority to operate the equipment.

SAFETY INSTRUCTIONS

1. This production was designed and manufactured to meet strict quality and safety standards. There are, however, some installation and operation precautions, which you should be particularly aware of.
2. Read Instruction - All the safety and operating instructions should be read before the appliance is operated.
3. Retain Instruction -The safety and operating instructions should be retained for future reference.
4. Follow Instructions - All operating and use instructions should be followed.
5. Heed Warnings - All warning on the appliance and in the operating instructions should be adhered to.
6. **Water and Moisture** -The appliance should not be used near water, for example, near a bathtub, wash-bowl, kitchen sink laundry tub, in a wet basement or near a swimming pool.
7. **Do not turn on and off too frequently.** Please accord to follow steps. Turning on: AC cord Power button on front panel; Turning off: Power button on remote-Power button on front panel-AC code.

8. **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.

9. **Wall or Ceiling Mounting-** the appliance should be mounted to a wall or ceiling only as recommended by the manufacturer.
10. **Ventilation** - the appliance should be situated so that its location or position does not interfere with its proper ventilation. For example, the appliance should not be situated on a bed, sofa, rug or similar, surface that may block the ventilation openings; or, placed in a built-in installation, such as a bookcase or cabinet that may impede the flow of air through the ventilation opening.
11. **Heat** - The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances(including amplifiers) that produce heat.
12. **Power Sources** -The appliance should be connected to a power supply only of the type described in the operating instructions or as marked on the appliance.
13. **Grounding or Polarization** - The precautions that should be taken so that grounding or polarization means of an appliance is not defeated.
14. **Cleaning** - The appliance should be cleaned only as recommended by the manufacturer.
15. **Power Lines** - An outdoor antenna should be located away from power lines.
16. **Power-Cord Protection** - Power-supply cords should be routed so-that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.
17. **Outdoor Antenna Grounding-** If an outside antenna connected to the receiver, be sure the antenna system grounded so as to provide some protection against voltage surges and built up static charges.

Section 810 of the National Electrical Code, ANS1/NFPA Number 70-1984 provides information with respect to proper grounding of the lead-in wire to an antenna discharge unit, connection to grounding electrodes, and requirements for the ground unit electrode.

18. **Non-use Periods** - The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time.
19. **Object and Liquid Entry** -Care should be taken objects do not fall and liquids are not spilled into the enclosure through openings.

20. **Damage Requiring Service** -The appliance should be serviced by qualified service personnel when:
- The power -supply cord or the plug has been damaged
 - Objects have fallen, or liquid has spilled into the appliance
 - The appliance has been exposed to rain
 - The appliance does not appear to operate normally
 - Exhibits a marked change in performance
 - The appliance has been dropped or the enclosure damaged.
21. **Servicing** - The user should not attempt to service the appliance beyond that described in the operation instructions. All other servicing should be refereed to qualified service personnel.
22. **Replacement Parts** - When replacement parts are required, be sure the service technician or that have the same characteristics as the original part. Unauthorised substitutions may result in fire, electric shock or other hazards
23. **Lightning** - For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightening and power-line surges.

INTRODUCTION

FEATURES

1. OUTSTANDING SOUND QUALITY

Dolby Digital  system developed by Dolby Laboratory. Features high quality sounds which can be played in DVD or CD disc.

2. HIGH DEFINITION

The appliance adopts MPEG2 coding format and brings the horizontal resolution over 500 lines.

3. UNIQUE FUNCTIONS

Multi-angle and multi-language bring unique function. Parental lock makes it easy to control the content of discs.

4. SCREEN

Ordinary screen and wide screen (16:9) are available.

5. COMPATIBILITY

The appliance can play DVD, CD, MP3, VCD, SVCD, DVCD, MR. OKO, CD-R.

6. TIMESEARCH

It can search a specific part on a disc.

7. MULTI-FUNCTIONS

Fast forward, fast reverse, slow play, frame play repeat play and program play.

8. RESUME PLAY

It can memorize the position where the disc has stopped and resume playback at that position'.

9. CONTENT DISPLAY

Colored fluorescent display and English OSD make the disc easy to use.

10. VIDEO OUTPUT

Standard video, S-video signal output component video Cr/Y/Cb, can be connected with any amplifier to enjoy high quality effects.

11. AUDIO OUTPUT

5.1ch Dolby surround sound output and, stereo analog audio output, coaxial audio and optical digital audio output, can be connected' with any amplifier to enjoy high quality sound effects.

PLAYABLE DISCS

TYPE	MARK	CONTENT	SIZE	PLAYING TIME
DVD		Audio + Video (Motion pictures)	12cm	About 4 hrs (single-side disc) About 8 hrs (double-side disc)
			8cm	About 80 mins (single-side disc) About 160 mins (double-side disc)
CD		Audio	12cm	About 75 mins
			8cm	About 20 mins
VCD		Video + Audio	12cm	About 75 mins
Mp3		Audio	12cm	About 500 mins

This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

PREPARATIONS BEFORE OPERATION

SAFETY

- Before operation, check if the voltage of the unit is in line with the local voltage. Hold the plug to disconnect it from the main outlet. Do not pull the power cord.
- When the plug of the unit is connected to the main outlet, the unit will still be connected to AC even if the power is turned off.
- Disconnect the plug as soon as liquid or objects enter the unit. The unit cannot be used without being fully checked by experts.
- Do not open the cabinet. Laser rays employed by the unit may damage eyes. Any servicing should be done by qualified service personnel.

PRECAUTIONS FOR DISCS

PLACEMENT

- Put the unit where ventilation is good enough to prevent overheating. Never put the unit in direct sunlight or near heat sources.
- Put the unit horizontally, never put any heavy object on the unit.
- To protect the laser, do not put the unit where there is dust. If there is dust on the laser, use a cleaning disc to clean it. Refer to the operation instructions of the cleaning disc you bought.

CONDENSATION

Water will appear on the pickup lens in the following cases:

- The unit is suddenly from a cold place to a warm place.
- Use the unit in a humid place.

In these cases, if the unit cannot work. Unload the disc and let the unit run empty for about one hour to evaporate the condensation.

CLEANING

- Use soft cloth with a little neutral detergent to wipe the cabinet, panel and controls. Never use abrasive paper, polish powder or solvent like alcohol and gasoline.

HANDLING DISC

- To keep the disc clean, do not touch the play sides the disc, Do not attach paper or tape to the disc.
- Do not attach paper or tape to the disc.



- Keep the disc away from direct sunlight or heat sources.
- Store the disc in a disc case after playback.

CLEANING DISC

- Wipe the disc outwards from the center with clean cloth.



- Do not use any type of solvent such as thinner, benzene, commercially available cleaners or antistatic spray.

USE OF REMOTE CONTROL

1. Open the battery
2. Insert two AAA batteries (not supplied), make sure to match" + " and" -" of the batteries to marks inside the battery compartment.
3. Point the remote control at the remote sensor, operate in the range of 5 metres and 60° from the front of the remote sensor. Make sure there is no barrier between them.

Note: -

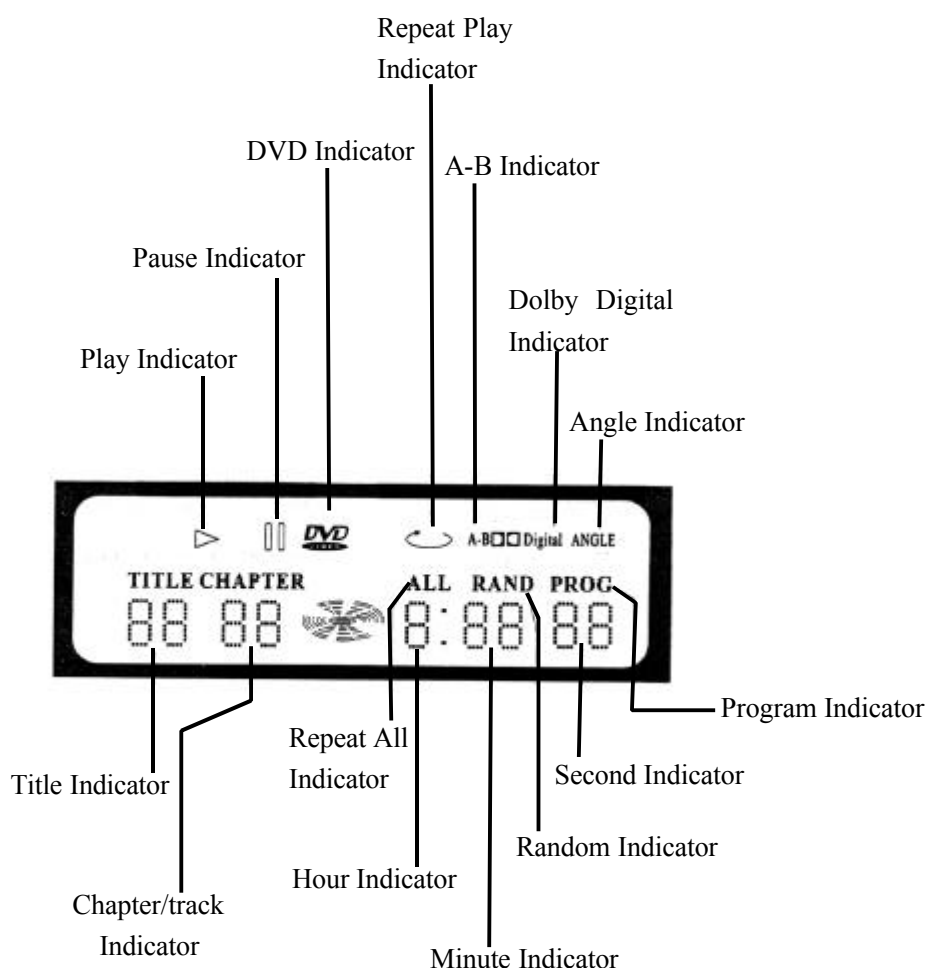
- Batteries can last about 6 months Change the batteries if the remote control does not work.
- If he remote control is not used for a long time, remove the batteries to prevent battery leakage.

LOCATION OF CONTROLS

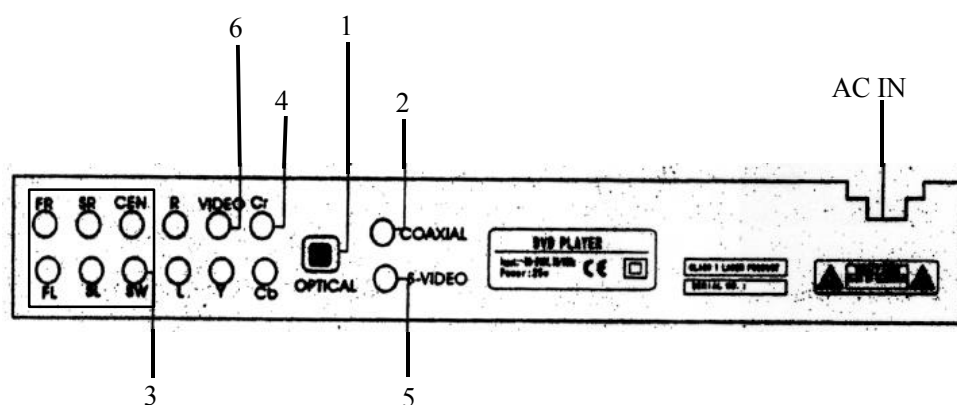
FRONT PANEL

• POWER switch • OPEN/CLOSE button • SKIP button • SEARCH button • PAUSE button • L/R button • N/P button	• STOP button • DISPLAY • ECHO LEVEL • MIC 1 • MIC 2 • MIC VOLUME • REV button • FORWARD
--	---

DISPLAY



REAR PANEL



- 1. OPTICAL OUT - (Optical Digital Audio)
- 2. COAXIAL OUT - (Coaxial Digital Audio)
- 3. AUDIO OUT - (Analog 5.1ch output: Front L/R, Center, Surround L/R, Sub-woofer.)
- 4. Cr/Y/Cb OUTPUT
- 5. S-VIDEO OUT
- 6. VIDEO OUT
- 7. AC POWER CORD

REMOTE CONTROL

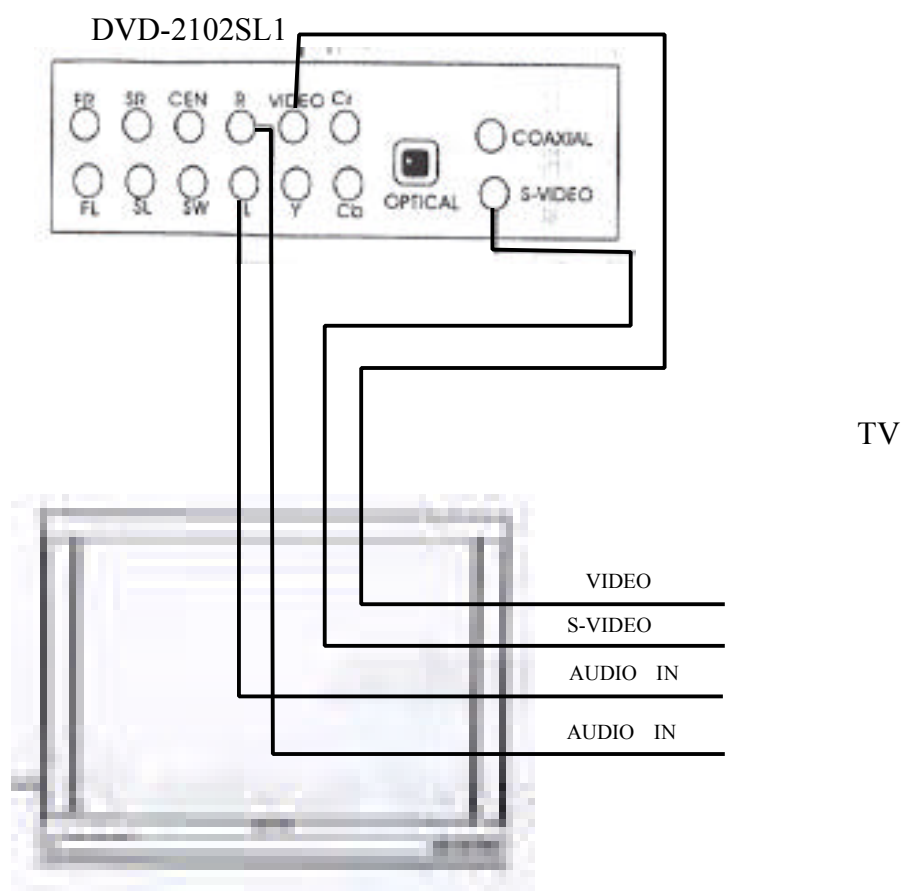
1. A-B button	16. MUTE button	31. Right button
2. ANGLE button	17. NEXT button  	32. SETUP button
3. AUDIO button	18. N/P button	33. SLOW button
4. CLEAR button	19. NUMBER button	34. STEP button
5. 2/5.1CH button	20. OPEN/CLOSE button 	35. STOP button. 
6. 3D button	21. PAUSE button	36. SUBTITLE button
7. DISPLAY button	22. PBC button	37. TIME button
8. DOWN button 	23. PLAY button	38. TITLE button
9. ENTER button	24. POWER button	39. UP button 
10. EQ button	25. PREVIOUS button	40. VOCAL button
11. FWD button 	26. PROGRAM button	41. VOLUME + button
12. LANGUAGE button	27. REPEAT button	42. VOLUME – button
13. LEFT button 	28. RESUME button	43. YUV/TV button
14. MENU button	29. RETURN button	44. ZOOM button
15. MIC ON/OFF button	30. REV button 	

FUNCTIONAL CONNECTIONS

CONNECT TO A TV

The unit has many kinds of output modes like AV output, S-VIDEO output, Component Video output, digital signal output (OPTICAL, COAXIAL).

Turn off all the equipment before connection.



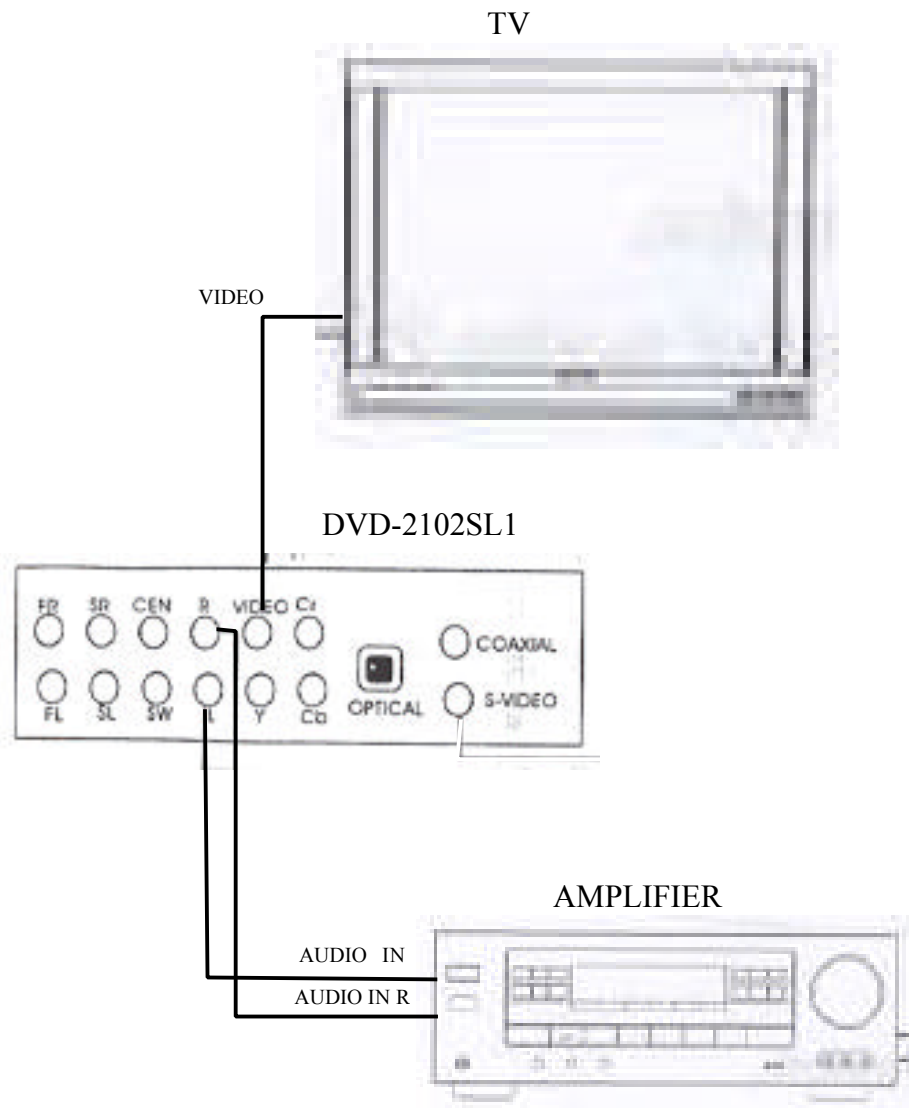
1. Insert the yellow colored RCA cable into the VIDEO OUT jack on the back of the DVD player. Insert the other end of cable to the Video input jack of your TV.
2. Insert the red and white colored RCA cables into the AUDIO OUT jacks on the back of the DVD player. Insert other end of cables to the audio input jacks on the rear of your TV.

NOTE:

1. If the TV has Component Video input, please connect the unit and the TV with Component Video cord (not supplied). You do not have to connect it to S-VIDEO. Component Video will ensure clearer image.
2. You have to set the unit according to the TV to be connected.
3. Connect the unit to a wide-screen TV. Set the "TV DISPLAY" to "WIDE" in the function setting column.
4. Connect the unit to an ordinary TV. Set the "TV DISPLAY" to "NORMAUPS" or "NORMAULB" in the function setting column.

CONNECT TO AN ORDINARY AMPLIFIER

Turn off all the equipment before connection.

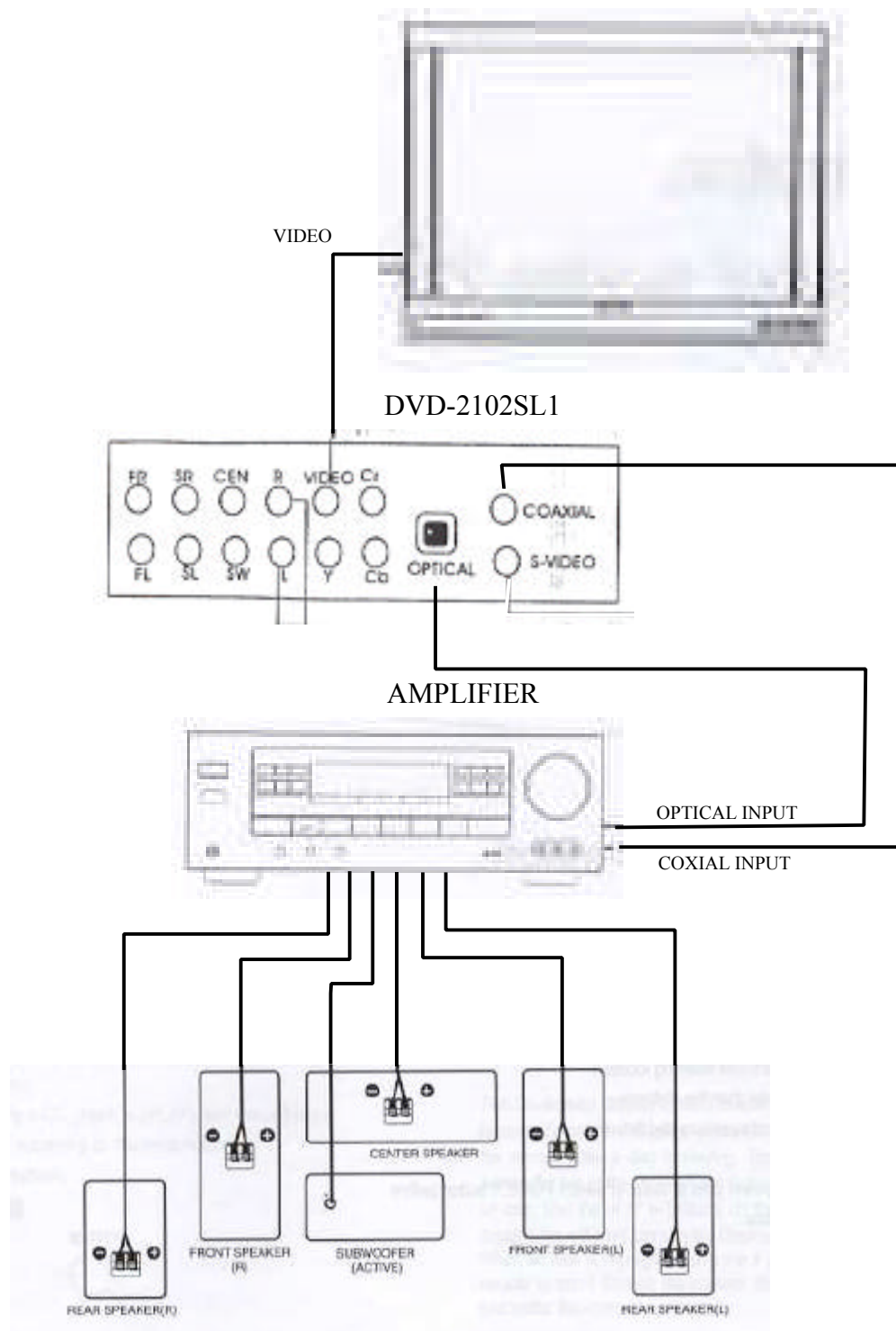


1. Insert the yellow colored RCA cable into the VIDEO OUT jack on the back of the DVD player. Insert the other end of cable to the video input jack of your TV.
2. Insert the red and white colored RCA cables into the AUDIO OUT jacks on the back of the DVD player. Insert other end of cables to the audio input jacks on your amplifier.

NOTE: There is no sound output from the port when a DTS disc is played.

CONNECT TO AN AMPLIFIER WITH DIGITAL SIGNAL INPUT

If you have DTS decoder or processor, you can enjoy DVD disc or CD sound decoded by 5.1 channel DTS



1. Insert the yellow colored RCA cable into the VIDEO OUT jack on the back of the DVD player. Insert the other end of cable to the video input jack of your TV.
2. Insert RCA cables into the COAXIAL DIGITAL AUDIO OUT jacks on the back of the DVD player. Connect other end of cable to the COAXIAL DIGITAL AUDIO IN on your amplifier. OR Insert Optical Cable into the OPTICAL DIGITAL AUDIO OUT on the back of the DVD player. Connect other end of the cable to the OPTICAL DIGITAL AUDIO IN on your amplifier.
3. Some discs with Dolby or MPEG AUDIO recorded 5.1channel track. When connecting an amplifier with 5.1 channel input terminal and 5(+1) speaker, you can enjoy more realized sound effect at home. "5 channel" means 2 front L/R speakers, 2 rear L/R speakers and a center speaker. 0.1 means bass speakers output bass. Even if there are no 5(+1) speakers, the unit will output signal to each channel.

Note: A DVD disc with MPEG AUDIO format recorded 7.1channel sound track, the output signal will be incorporated to 5.1 channel.

SPEAKERS SETUP

To obtain perfect sound, following is recommended:

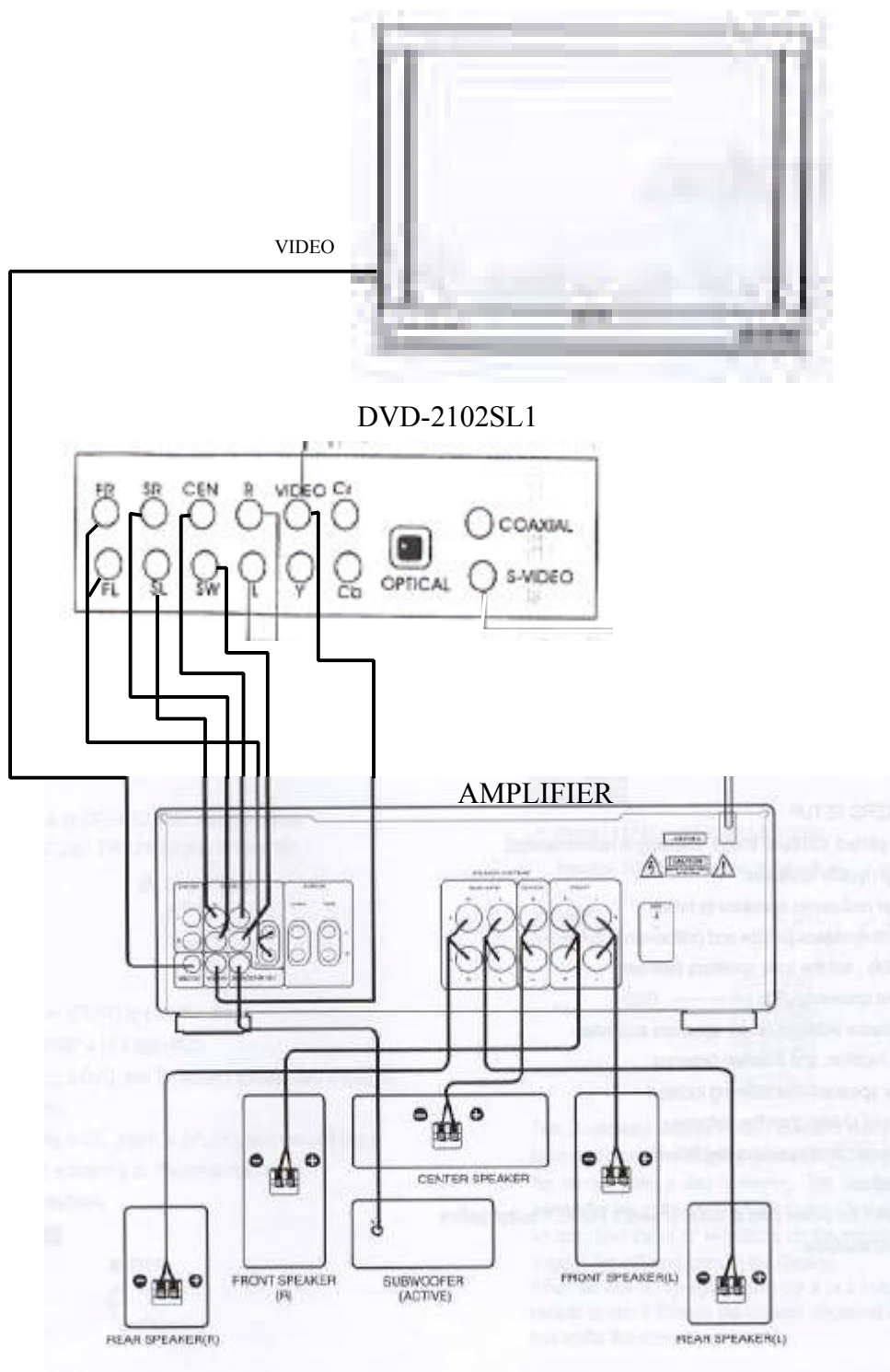
- a. Use high quality speakers.
- b. Use rear and center speakers to match with front speakers (in size and performance).
- c. If possible, set the bass speakers between two front speakers (L/R).

Note: Distance between center speakers and listening location, and distance between rear speakers and listening location should be shorter than the distance between front speakers and listening location.

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CONNECT TO AN ANALOGUE 5.1 CHANNEL AMPLIFIER



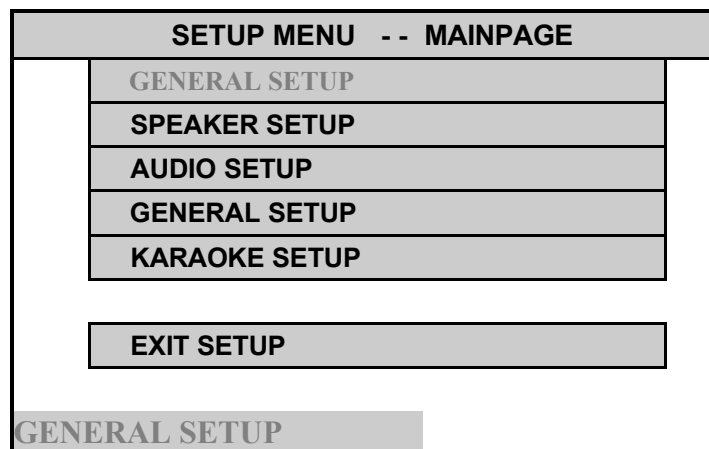
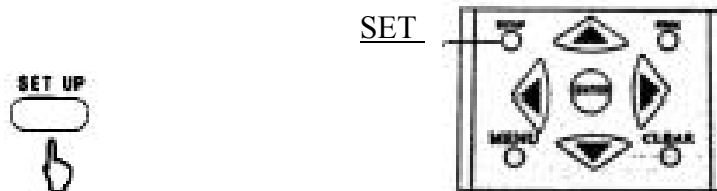
FUNCTION SETTING

GENERAL SETUP

Using the setup menu, you may select the play mode setting , the various output, etc.

In each menu page, the menu items are showed on the left. Use the button RIGHT on the remote to go to the option list or setting on the right. Use the button LEFT to go back to the left menu item.

1. During STOP or PLAY mode, press SETUP button on the remote, select GENERAL SETUP. Current SETUP menu appears on the screen.
Please see the reference picture.

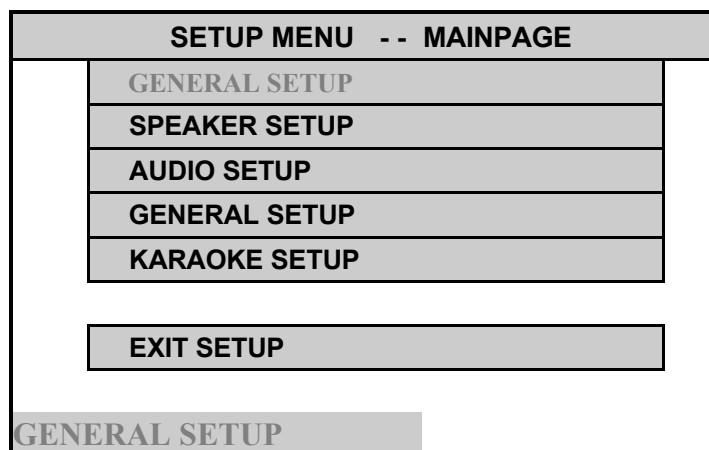


2. Select the main menu item desired by using UP/DOWN, then press the ENTER button. The selective main menu is highlighted and its option lists it shown at the bottom of the screen.
3. Press RIGHT to go to the option list.
4. Select the option desired using UP/DOWN, then press the ENTER button.
5. Use LEFT to go back to the left menu item.
6. Press the SETUP button to leave the setup menu main page and return to the TV DISPLAY.

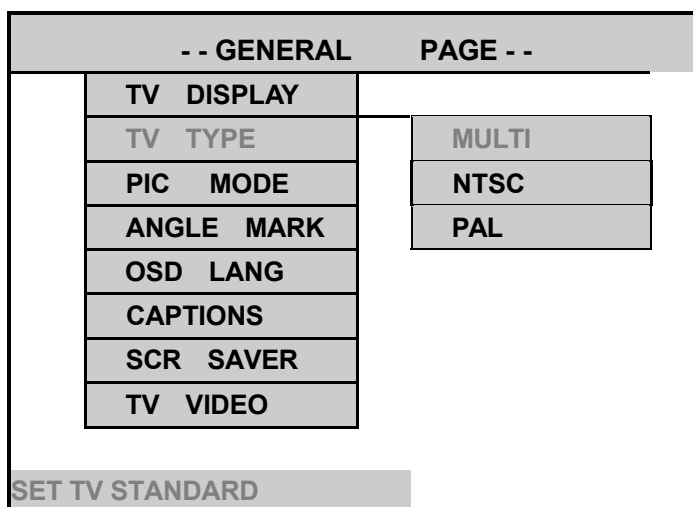
Select the GENERAL SETUP to go to the GENERAL PAGE.

TV TYPE

According to the system of TV to be connected, set the system of the unit to make it match the TV. Press SETUP button, the screen shows:



Press ENTER on remote to select GENERAL SETUP.



1. If the system of the TV is PAL, select PAL;
2. If it is NTSC, select NTSC;
3. If it is MULTI, select MULTI.

TV DISPLAY

Press SETUP on the remote control, the screen shows SETUP MENU- MAIN PAGE. Press GENERAL SETUP to select TV DISPLAY, TV TYPE, PIC MODE, ANGLE MARK, OSD LANG, VIDEO OUTPUT, CAPTIONS, SCR SAVER.

-- GENERAL PAGE --			
	TV DISPLAY		NORMAL / PS
	TV TYPE		NORMAL / LB
	PIC MODE		WIDE
	ANGLE MARK		
	OSD LANG		
	CAPTIONS		
	SCR SAVER		
	TV VIDEO		
SET TV DISPLAY MODE			

NORMAL/PS--4 x 3 Pan Scan

Choose this setting you will see the movie fill the entire screen of your TV. But you won't see part of the picture(especially the right and left edge).

NORMAL/LB--4x3 Letterbox

Choose this setting if you want to see movies in their original aspect ratio. You will see the entire frame of the movie, but it will occupy a smaller portion of the screen.

WIDE --16 x 9 Wide screen

Choose this setting if your DVD player is connected to a wide screen TV.

ANGLE MARK

This only works when there is an angle mark on the disc. Many DVD discs are not sold with this feature.

-- GENERAL PAGE --	
TV DISPLAY	
TV TYPE	
PIC MODE	
ANGLE MARK	ON
OSD LANG	OFF
CAPTIONS	
SCR SAVER	
TV VIDEO	
ANGLE MARK ON/OFF	

- Select ON, the screen shows the mark when playing DVD and CD
- Select OFF, the mark is not shown.

OSD LANGUAGE

-- GENERAL PAGE --	
TV DISPLAY	
TV TYPE	
PIC MODE	
ANGLE MARK	
OSD LANG	ENGLISH
CAPTIONS	CHINESE
SCR SAVER	
TV VIDEO	
SET OSD LANGUAGE	

- **ENGLISH:** The display language is English
- **CHINESE:** The display language is Chinese.

PIC MODE

-- GENERAL PAGE --	
TV DISPLAY	
TV TYPE	
PIC MODE	AUTO
ANGLE MARK	HI - RES
OSD LANG	N - FLICKER
CAPTIONS	
SCR SAVER	
TV VIDEO	
SET PICTURE MODE	

For general DVD use, AUTO should always be selected.

CAPTIONS

-- GENERAL PAGE --	
TV DISPLAY	
TV TYPE	
PIC MODE	
ANGLE MARK	
OSD LANG	
CAPTIONS	ON
SCR SAVER	OFF
TV VIDEO	
CLOSED CAPTION	

- ON - The hidden subtitle is shown.
- OFF - The hidden subtitle is turned off.

TV - VIDEO

- - GENERAL PAGE - -				
TV DISPLAY				
TV TYPE				
PIC MODE				
ANGLE MARK				
OSD LANG				
CAPTIONS				
SCR SAVER				
TV VIDEO	<table border="1"> <tr> <td>S - VIDEO</td> </tr> <tr> <td>YUV</td> </tr> <tr> <td>RGB</td> </tr> </table>	S - VIDEO	YUV	RGB
S - VIDEO				
YUV				
RGB				
SELECT VIDEO OUTPUT				

- RGB OUTPUT-COMPONENT VIDEO RGB OUTPUT.
- YUV OUTPUT - COMPONENT VIDEO YUV OUTPUT.
- ANALOG: the output signal is Analog format, the default setting. You should select this when you are playing the DVD and audio through the AUDIO OUT Right & Left jacks on your DVD player. No signal output from the coaxial port when selecting this function.
- BIT STREAM: Select this when the DVD player is connected with a power amplifier through DIGITAL OUT coaxial port. The power amplifier to be connected must have Dolby Digital decoder.
- PCM: Select this when the DVD player is connected with a 2-channel digital mode or stereo amplifier. When a Dolby Digital or MPEG disc is played, the coaxial port will output in PCM 2-channel format. This program features an uncompressed digital stereo sound track for improved fidelity, when played, discrete stereo sound will be heard from the front right and left speakers.

SCREEN SAVER

-- GENERAL PAGE --	
TV DISPLAY	
TV TYPE	
PIC MODE	
ANGLE MARK	
OSD LANG	
CAPTIONS	
SCR SAVER	ON
TV VIDEO	OFF
CLOSED SAVER OFF	

- **ON:** Start the screen saver. The screen saver image appears when the unit stops or the image is frozen for a few minutes. This saver can keep the screen from being damaged.
- **OFF:** Remove the screen saver.

SPEAKER SETUP

Press ARROW (UP or DOWN) button on the remote to select SPEAKER SETUP

SETUP MENU -- MAINPAGE	
	GENERAL SETUP
	SPEAKER SETUP
	AUDIO SETUP
	GENERAL SETUP
	KARAOKE SETUP
	EXIT SETUP
GO TO SPEAKER SETUP PAGE	

DOWNMIX

-- SPEAKER SETUP PAGE --	
DOWNMIX	LT / RT
CENTER	STEREO
REAR	VSS
SUBWOOFER	OFF
CNTR DELAY	
REAR DELAY	
TEST TONE	
▼	
LOUDSPEAKER SETUP	

- STE&EO or LT/RT
Stereo should always be selected when using this DVD player.
- VSS
Virtual surround Down mix should be selected.

DOLBY DIGITAL SETUP

-- AUDIO -- SETUP --	
	AUDIO OUT
	OP MODE
	DUAL MONO
	DYNAMIC
	PROLOGIC
	LPCM OUTPUT
	MAIN PAGE
AUDIO RELATED	

AUDIO OUTPUT

-- DOLBY DIGITAL SETUP --	
AUDIO OUT	ANALOG
OP MODE	SPDIF / RAW
DUAL MONO	SPDIF / PCM
DYNAMIC	
PROLOGIC	
LPCM OUTPUT	
MAIN PAGE	
AUDIO RELATED	

NOTE: PLEASE SEE THE EXPLAIN OF ANALOG, BIT STREAM AND PCM ON PREVIOUS PAGE

DYNAMIC RANGE

-- AUDIO SETUP --	
AUDIO OUT	- ☒ - FULL
OP MODE	- 6/8
DUAL MONO	-
DYNAMIC	- 4/8
PROLOGIC	-
LPCM OUTPUT	- 2/8
MAIN PAGE	-
	- OFF

DYNAMIC RANGE

When the compression mode is set to LINE OUT, this is selected to adjust linear compression rate to obtain the different compression results of the signals.

DUAL MODE

-- AUDIO SETUP --	
AUDIO OUT	
OP MODE	
DUAL MONO	STEREO
DYNAMIC	L - MONO
PROLOGIC	R - MONO
LPCM OUTPUT	MIX - MONO
MAIN PAGE	

DUAL MONO (1+1) SETUP

This is the output mode of the Land R signals of the set audio output. If it is set to MIX-MONO, the function only works when the DVD being played is 5.1-channel.

KARAOKE SETUP

Press ARROW (UP or DOWN) on the main page of setup menu to select KARAOKE SETUP and press ENTER button, the screen shows:

KARAOKE -- PAGE	
	GENERAL SETUP
	SPEAKER SETUP
	AUDIO SETUP
	KARAOKE SETUP
	PREFERENCES
	EXIT SETUP

GOTO KARAOKE PAGE

-- KARAOKE PAGE --	
KARAOKE MODE	OFF
	KARAOKE
MAIN PAGE	

SETUP KARAOKE FEATURE

- ON - KARAOKE TURN ON.
- OFF - KARAOKE TURN OFF

KODAK FILM DISC

(ONLY IN DOUBLE DECODER DVD PLAYER)

1. Put the KODAK FILM DISC or PICTURE CD into DVD player.
2. Press PLAY button to enjoy
3. Press up, down, left and right buttons to rotate
4. Press FWD and REV to change the size
5. Press Resume button to choose different display

EQ

1. Press UP, DOWN, LEFT and RIGHT to adjust the parameter on personal mode.
2. Press ENTER button to standard mode.
3. Press PLAY button to choose different sound field, for example, the jazz, the class, the rock, personal mode and so on.

PREFERENCES SETTING

The DVD player must be in the stop mode or have the DVD door open to access the preferences menu. To put the player in the stop mode, you must press the STOP button twice. Press ARROW button (UP or DOWN) on the remote control to select PREFERENCES from the SETUP menu, Press ENTER button to enter submenu.

SETUP MENU -- MAIN PAGE	
	GENERAL SETUP
	SPEAKER SETUP
	AUDIO SETUP
	KARAOKE SETUP
	PREFERENCES
	EXIT SETUP
GOTO PREFERENCE PAGE	

ENTER LANGUAGE

If a language mentioned is recorded on the disc, you can select sounds, subtitles or disc menu languages. If not, the language recorded on the disc is shown.

-- PREFERENCE PAGE --	
AUDIO	ENGLISH
SUBTITLE	FRENCH
DISC MENU	SPANISH
PARENTAL	CHINESE
PASSWORD	JAPANESE
DEFAULTS	
SMART NAV	
SET PREFERENCES	

ENTER LANGUAGE

-- PREFERENCE		PAGE --
AUDIO		ENGLISH
SUBTITLE		FRENCH
DISC MENU		SPANISH
PARENTAL		CHINESE
PASSWORD		JAPANESE
DEFAULTS		OFF
SMART NAV		

PREFERENCES SUBTITLE LANGUAGE

-- PREFERENCE		PAGE --
AUDIO		
SUBTITLE		
DISC MENU		ENGLISH
PARENTAL		FRENCH
PASSWORD		SPANISH
DEFAULTS		CHINESE
SMART NAV		JAPANESE
MAIN PAGE		

PREFERENCES MENU LANGUAGE

PARENTAL CONTROL

When selecting one of the PARENTAL items, the screen will be changed to the PASSWORD VERIFY page.

- - PREFERENCE		PAGE - -	
AUDIO		1	G
SUBTITLE		2	
DISC MENU		3	PG
PARENTAL		4	PG 13
PASSWORD		5	
DEFAULTS		6	PG R
SMART NAV		7	NC - 17
▼		8	ADULT

When playing disc with parent lock function, you may select an age control grade according to grade of disc, and your desired.

For example: Select PG-R, you cannot play DVD video disc, rate higher the PG-R grade.

Parental control grades are listed from low to high, kids is lowest grade adults is highest grade.

PASSWORD SETTING

PASSWORD MODE

-- PREFERENCE PAGE --			
	AUDIO		
	SUBTITLE		
	DISC MENU		
	PARENTAL		
	PASSWORD		CHANGE
	DEFAULTS		
	SMART NAV		
	▼		
CHANGE PASSWORD			

PASSWORD CHANGE

Select this to adapt the code, the screen shows:

PASSWORD CHANGE		PAGE
OLD PASSWORD		
NEW PASSWORD		
CONFIRM		
PLEASE ENTER OLD PASSWORD		

Enter a password according to the screen.

- Notes: The password is 3308 when the unit is turned on at the first time.
- Select this to adapt the LOCAL code.

DEFAULTS

- - PREFERENCE PAGE - -		
	AUDIO	
	SUBTITLE	
	DISC MENU	
	PARENTAL	
	PASSWORD	
	DEFAULTS	RESET
	SMART NAV	
	▼	
LOAD FACTORY SETTING		

RESET

If you select the RESET, each function setting returns to the initial status setting by the factory.

Notes:

- PREFERENCES only can be selected in password OFF and the tray is open after the unit go into stop mode.
- PREFERENCES function words only with DVD discs.

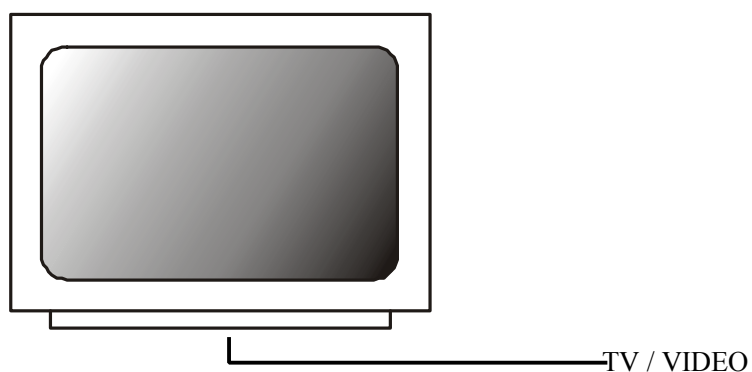
BASIC OPERATIONS

PLAY DISCS

TV / AUDIO SETTING

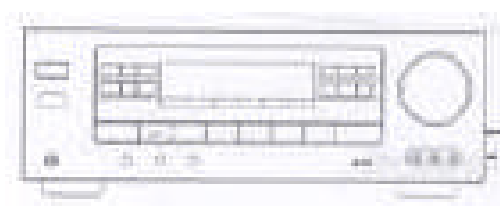
Press POWER button on the TV and audio system.

1. Press "TV / VIDEO " on the TV, select VIDEO mode (TV)



Select S-VIDEO mode connect to
S-VIDEO (if available)

2. Select the correct audio input on the amplifier. Each amplifier is different from another, please refer to the manual of the amplifier. (e.g. connect the audio output of the DVD player to the DVD audio input of an amplifier.)



DVD / LD

Notes: This step can be cancelled if you do not connect it to the amplifier.

BASIC PLAY

Preparation (for DVD playing)

- Switch the TV ON and select Video as the TV Input.
 - Switch on the stereo system's power if the player has been connected to a stereo system.
1. Press POWER button to turn on the unit.
 2. Press  to open the disc tray and load a disc with the label side up

OPEN / CLOSE



3. Press  again to close the disc tray. The appliance begins to read the disc.

OPEN / CLOSE



REMOTE CONTROL



4. Press  to play the disc

AFTER STEP 4 IS COMPLETED:

PLAY DVD

The TV screen shows DVD menu and title menu. Press

PLAY CD

Press  , the unit plays the disc according to the track numbers.

5. Stop playback.

Press  .



6. Remove the disc and turn off the unit.
You have to push this button twice to stop the playback.

OVERVIEW OF THE FUNCTIONS OF REMOTE CONTROL BUTTONS

Listed in this chapter are the functions of the remote control buttons and their methods of operations so that the user can refer to them for reference.

- **A-B button**

During the playback, pressing it once will set automatically a start point A for repeat play and after playing for a period of time, pressing it another time will automatically set an end point B. Then repeat play will be performed between A and B. Pressing it another time will end the repeat play.

- **ANGLE button (Effectiveness depends on the type of disc)**

When playing DVD discs on which many angles are recorded, pressing ANGLE can playback from different angles. Each press of the button changes the angle of the scene.

- **CLEAR button**

When inputting the code for program playback, pressing CLEAR button can cancel the input number.

- **2/5.1CH button(depends on the types of disc)**

When playing VCD, DVCD, DVD, pressing the button can select the output mode such as 2 channel, 5.1 channel. Each press of the button changes a different type of channel.

- **3D button**

This button is for choosing sound stereo.

Note: please open karaoke function in advance, press this button to enjoy.

- **ON-SCREEN DISPLAY button**

Press this can allow you to check the such as the current playback time, the remains time etc.

- **ENTER button**

Press the button to confirm.

- **EQ button**

1. Press " UP ,DOWN,LEFT, RIGHT " to set parameters;
2. Press " ENTER " to confirm;
3. Press " PLAY " to choose different sound field.

- **FAST FORWARD button**

Press the button to fast without sound. Each press changes the fast forward speed until it resumes the normal playback.

- **LANGUAGE button**

When playing a DVD disc recorded with many languages, pressing LANGUAGE can select different languages. Each press of the LANGUAGE button changes one language.

- **MENU button**

When playing a DVD disc, pressing the button can the menu contained in the side (Effectiveness depends on the types of disc.) When PBC is off, pressing the button in stop mode can browse the contents of disc.

- **MIC ON/OFF**

Press " MIC on " button to start Karaoke function, press again to cancel.

- **MUTE button**

Press the button can turn off the audio output form the analogue channel.

- **NEXT button(Effectiveness depends on the type of disc)**

During DVD playback, pressing the button can jump to the playback of next chapter. In stop mode can browse the contents of disc, pressing the button can skip to the next track.

- **NUMBER button**

The number button " 0 " , " 1 " " 9 " are used to input numbers, such as inputting the track number of KARAOKE songs, chapter of a DVD disc, time etc.

- **10+button**

When the track number, chapter number etc exceeds 9, it is necessary to press " 1 0+ " button first, then press the corresponding number. That is, the button is used to input the tenth digit of a track number. Each press increases the tenth digit by one.

- **OPEN/CLOSE button**

Press this button ejects the disc tray and press the second time to close the disc tray. You can use this button to place or remove a disc.

- **PAUSE button**

When the player is in playback mode (including slow motion play, fast forward, fast reverse), pressing PAUSE button can pause the playback, making the image unchanged. Pressing PLAY resumes the normal playback.

- **PBC button**

Pressing the button switches the PBC state. With DVD discs, when PBC is off, during the playback, press PLAY to turn on PBC.

- **PLAY button**

When the player is in the state of stop , pause, slow motion, fast forward, fast reverse etc, pressing PLAY button can resume the player to normal playback.

- **N/P button**

Pressing the button can switch the format of the TV signals output by the player (PAL - MULTI - NTSC). Each press changes a format.

- **PROGRAM button**

Depending on the type of disc, pressing PROGRAM button youcan set the track playing sequence.

- **POWER button**

To turn off the power or standby.

- **REPEAT button**

When playing a DVD disc, pressing the button will repeat the current chapter when it ends; pressing repeat the second time will repeat the content under the current title; pressing REPEAT the third time will cancel the repeat play function.

- **RESUME**

Press" STOP" button first, then press" RESUME" button to return to the playing, this unit will continue from where you stop last time. If the tray is opened or the power is turn off, the memory place will be cancelled automatically.

- **RETURN button**

Only for VCD2.0 disc, when PBC is on, pressing RETURN button during playback can return to the track list picture.

- **FAST REVERSE button**

Pressing the button can playback fast reverse without sound. Each press changes the fast reverse speed until it resume the normal playback.

- **SETUP button**

Press the button, the system setup picture will displayed on the screen and wait for the user to set parameters not often changed. Users can make the relevant setup according to the specific needs.

- **SLOW MOTION PLAY button**

Press the button will play the disc in slow motion without sound. Slow motion play can be performed forward or reverse. Each press changes the slow motion play speed until it resume the normal playback.

- **STEP button**

To enjoy the picture step by step.(Only for VCD disc)

- **STOP button**

When playing DVD, VCD, CD, etc, pressing the button to stop

- **SUBTITLE button(Depends on the content of disc)**

There are 32 subtitle for button your enjoy if it has been recorded on disc.

- **TIME**

You may directly enter a time, title or chapter number to search fast one a disc, the player plays from that point.

- **TITLE MENU button**

Pressing MENU button can display the selectable title menu contained in the DVD disc. In the menu picture, you can move the UP, DOWN, LEFT, RIGHT buttons to choose the specific item, then press ENTER button to specify the playing content (it can be submenu, in this case continue operating with UP, DOWN, LEFT, RIGHT and ENTER buttons).

- **UP, DOWN, LEFT, RIGHT button**

When DVD menu or system menu is displayed on the screen and is the state of standby for select the required item.

- **VOCAL button**

When playing VCD, DVCD, pressing the button can select the output modes such as the left channel, the right channel, the stereo. Each press of the button changes a different type of channel.

- **VOLUME + button**

Pressing the button can adjust the volume. Each press increases the volume by one unit.

- **VOLUME - button**

Pressing the button can adjust the volume. Each press decreases the volume by one unit.

- **YUV/TV**

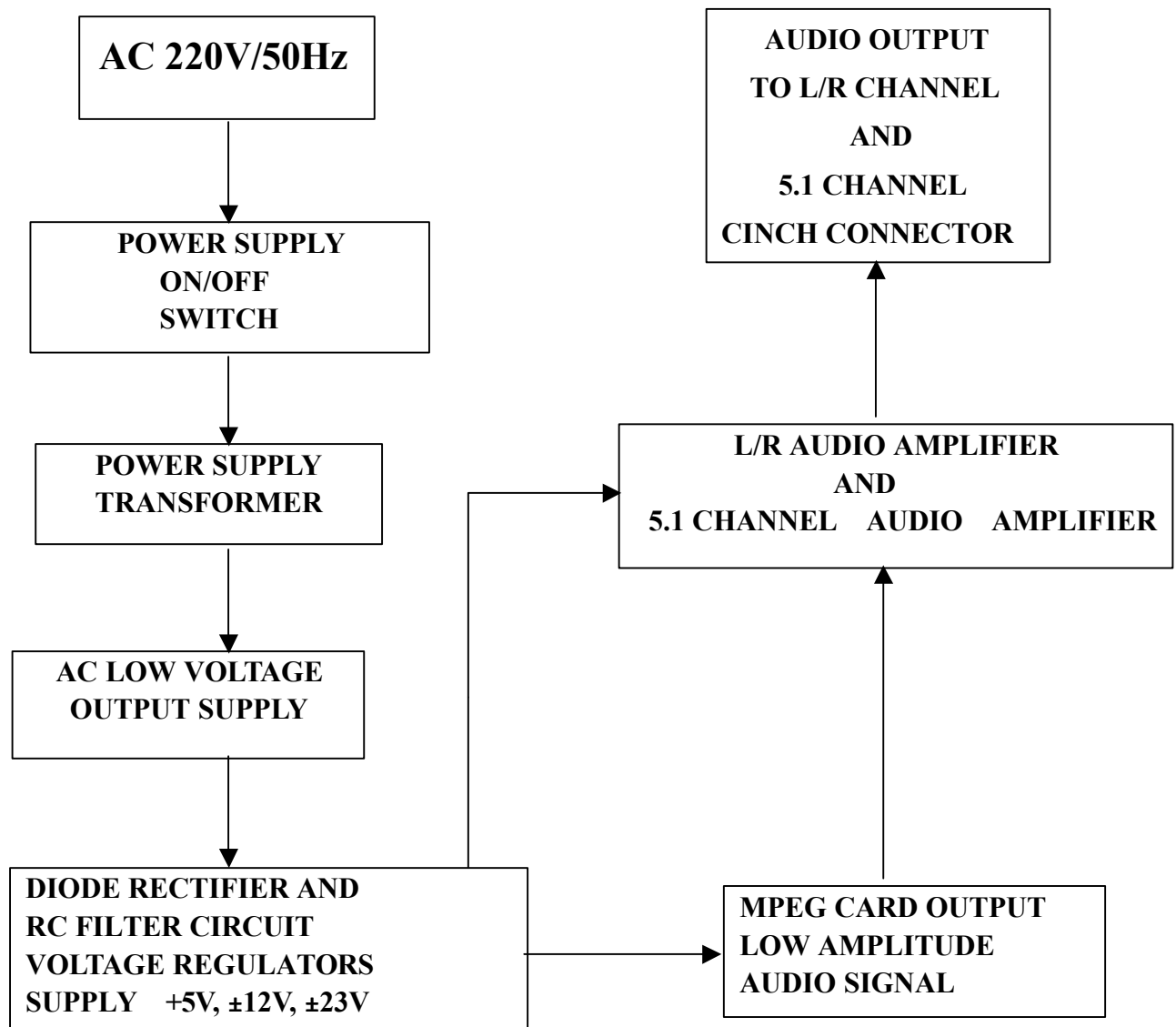
Video output.

- **ZOOM button**

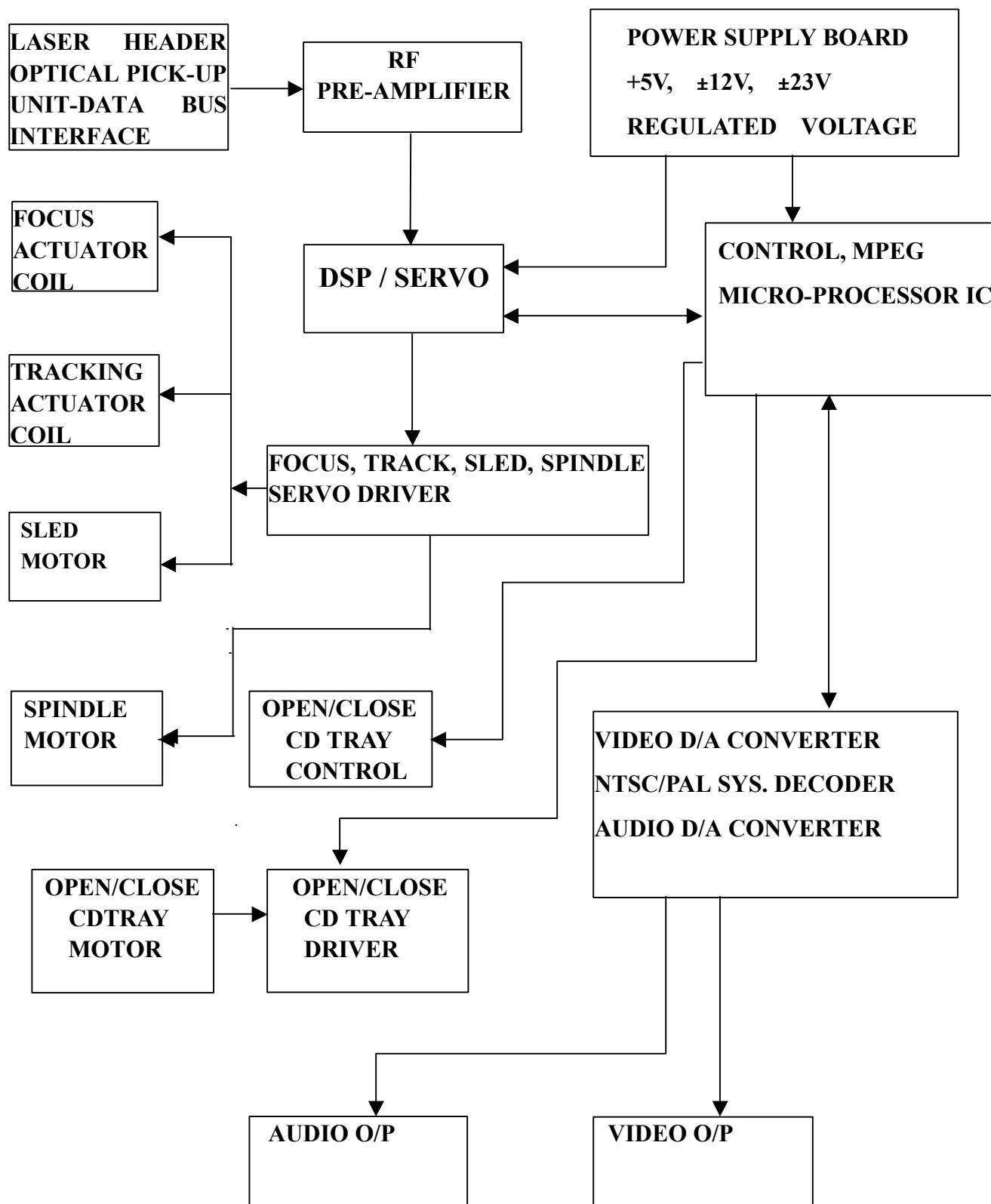
During playback, pressing the button can zoom out the image. Pressing it once enlarges the image by 1.5 times. Pressing it twice can enlarge the image by two times. Pressing it the third time can enlarge the image by four times. Pressing it again can resume the normal play back.

DVD FUNCTIONAL BLOCK DIAGRAMS

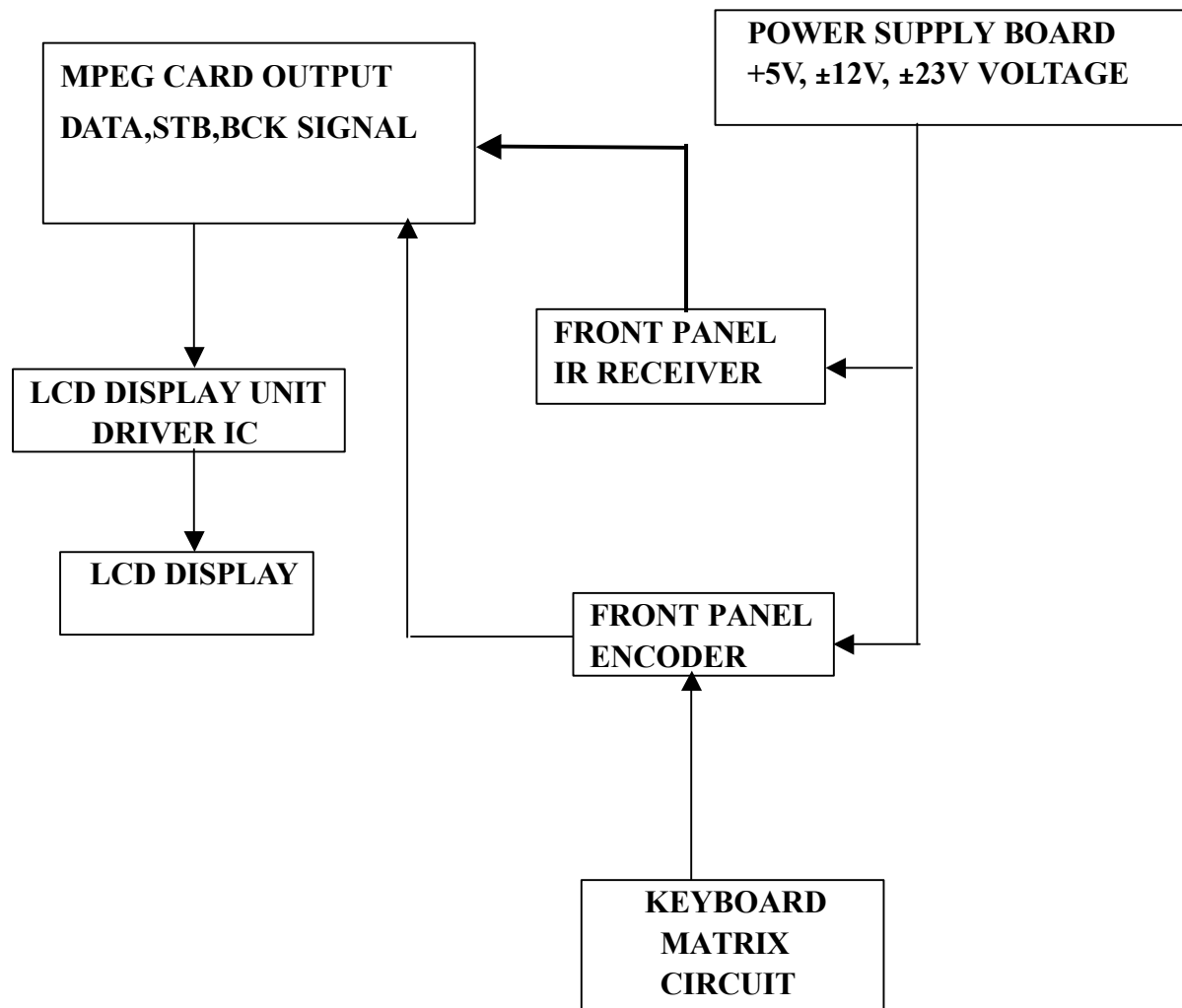
POWER SUPPLY BLOCK DIAGRAM



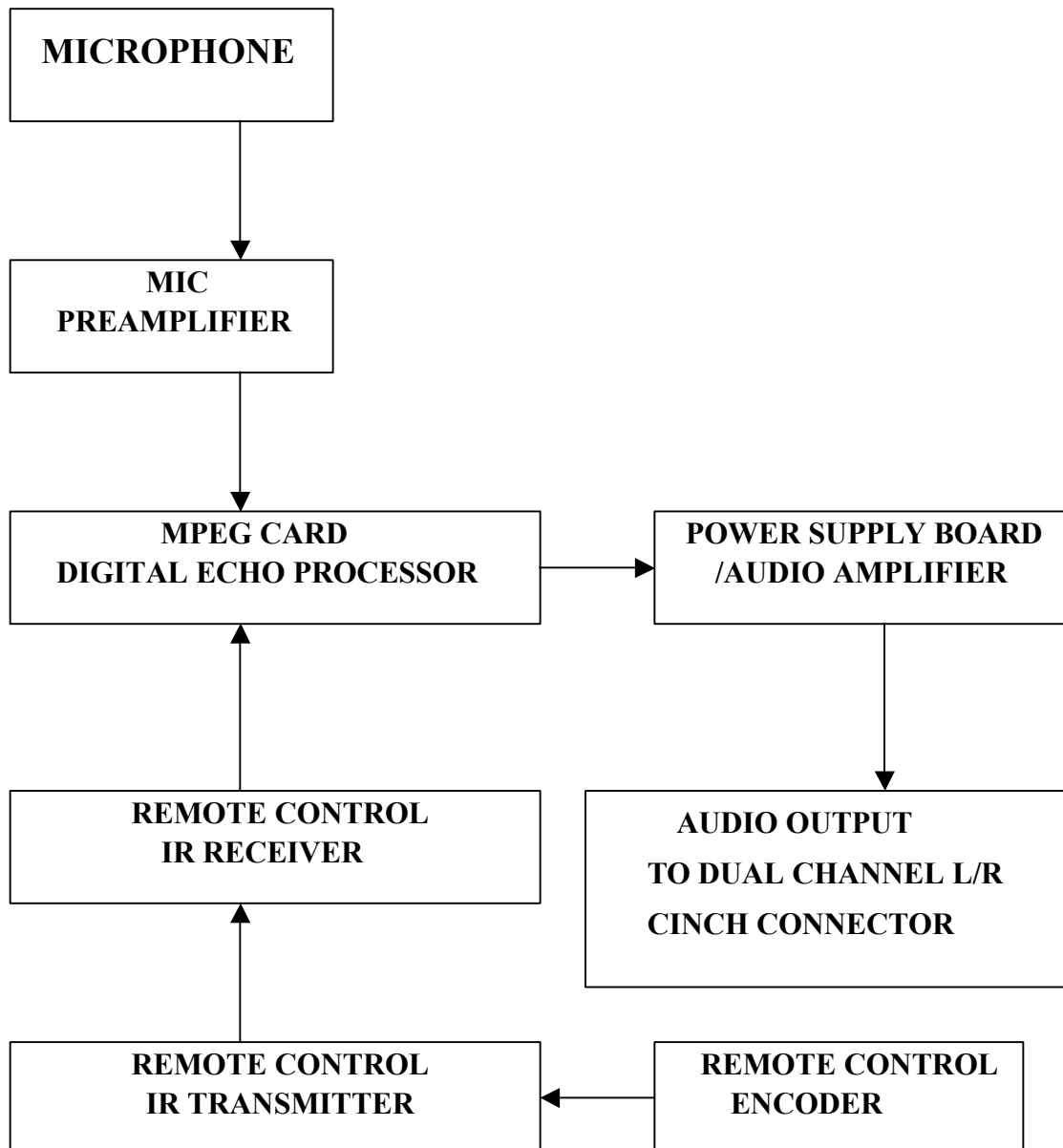
MPEG CARD BLOCK DIAGRAM



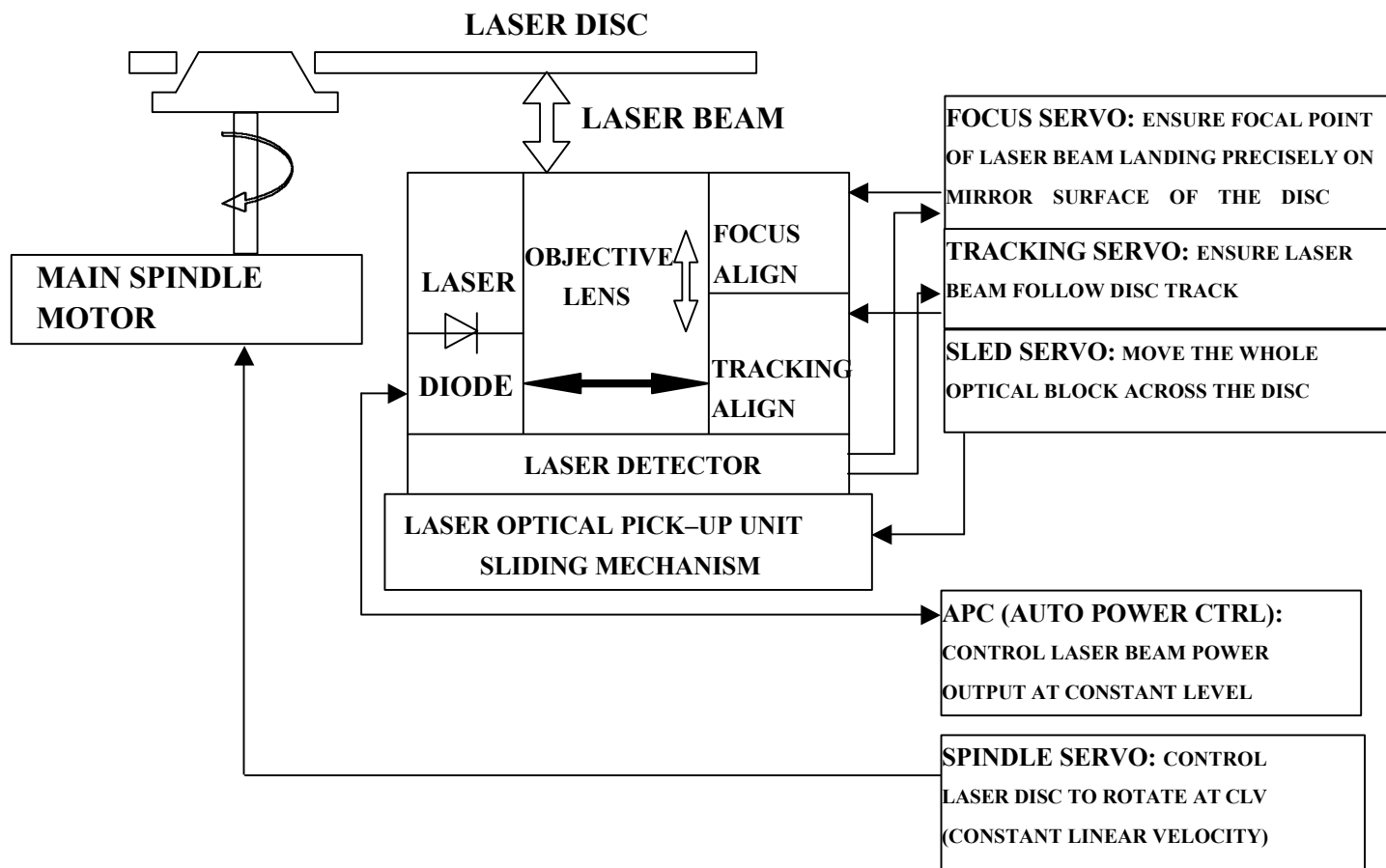
FRONT PANEL BLOCK DIAGRAM



KARAOKE BLOCK DIAGRAM



SERVO MOTOR FUNCIONAL BLOCK DIAGRAM



TROUBLESHOOTING

PRELIMINARY CHECK

If you experience the following problems while using the player, this trouble shooting guide can help you.

No sound

- Check if the unit is connected securely.
- Make sure you operate the TV or amplifier correctly.
- Make sure you have selected DVD player position on the amplifier
- Check the Audio Setting, Coaxial for Digital, Analog for standard.

No Image

- Check if the unit is connected securely.
- Make sure you operate the TV correctly

Bad Sound Quality

- Make sure the audio output mode is set correctly.
- Make sure the audio connection between the player and amplifier is right.
-

Image Rolls and No Color

- The color system set by this unit does not match with that label side up.
- TV TYPE proper setup needed to selected according disc system for SETUP at GENERAL PAGE.

Disc can not be played

- There is no disc in the unit.
- Put the disc; on the disc tray properly with the label side up.
- Moisture has condensed in the unit.
- Remove the disc and leave the unit on for about one hour (at power on condition)
- DVD may be wrong region.

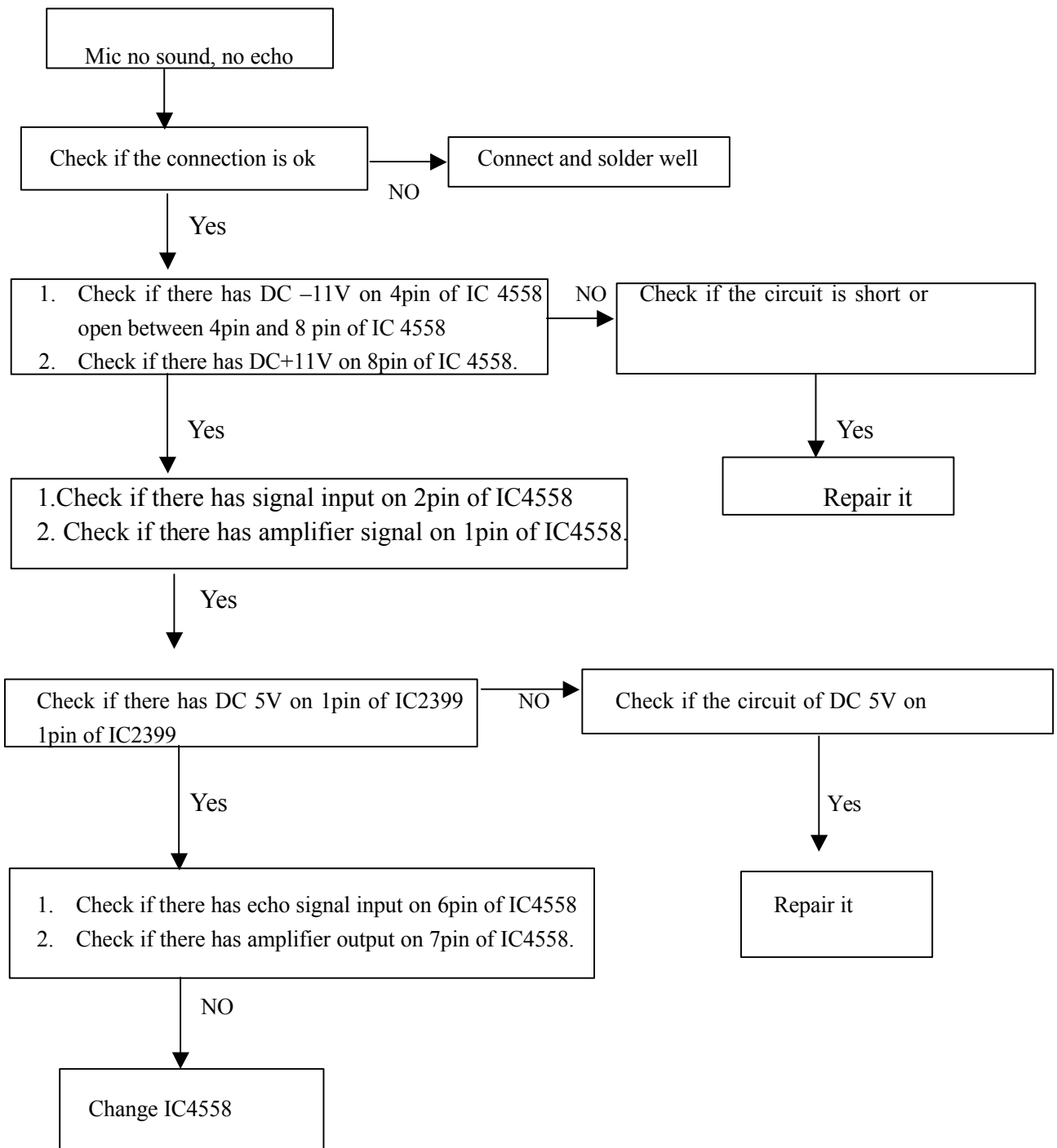
Remote Control does not work

- Obstruction due to objects in between the player & the remote
- Point the remote control at the remote control sens
- Replace the batteries with new ones.

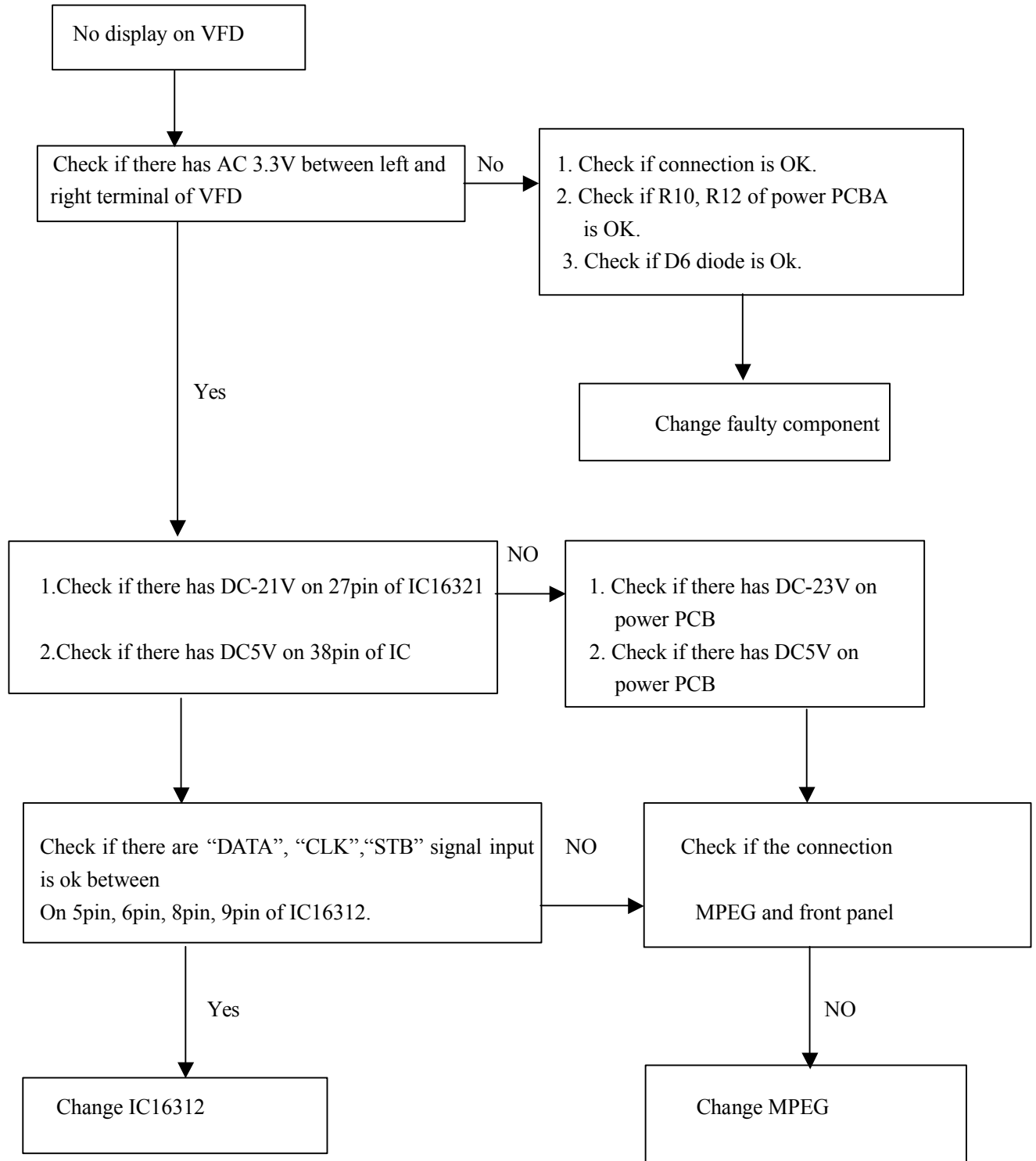
Player buttons & remote do not work

- In very rare occasions the player may not respond when you press buttons on the remote or on the player's front panel. To remedy this problem simply turn off the power or unplug the player, wait one minute and resume normal operation.

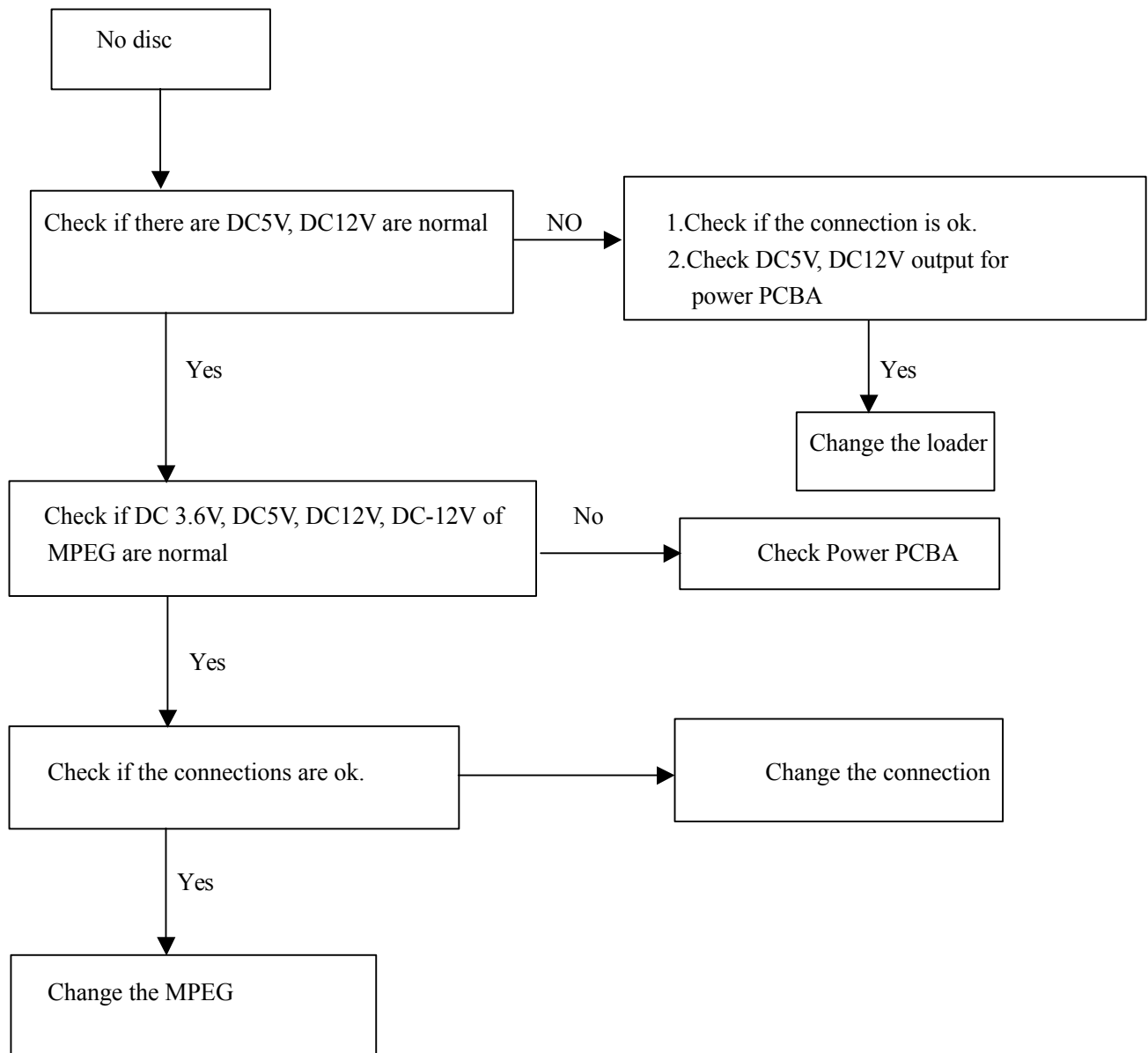
REPAIR PROCEDURE FOR MIC



REPAIR PROCEDURE FOR FRONT PANEL CONTROL



REPAIR PROCEDURE FOR NO DISC



TECHNICAL SPECIFICATIONS

Laser Bandwidth		WAVELENGTH 650nm
Video System		PAL / MULTI / NTSC
Frequency Respond		20Hz ~ 20KHz
Signal / Noise Ratio		≥ 98dB
Audio Distortion + Noise		≤ -80dB (1 KHz)
Channel Separation		≥ 98dB (1 KHz)
Dynamic Range		≥ 85dB (1 KHz)
Output	Audio Out (analog audio)	Output level: 2V Load impedance: 10Kw
	Audio Out (digital audio)	Output level: 0.5V p-p Load impedance: 75w
	Video Out	Output level: 1.0V p-p Load impedance: 75w, Unbalance, negative polarity
	S-Video Out	Output level: (Y) = 1.0V p-p (C) = 0.3V p-p Load impedance: 75w
Power Supply		AC 90V ~ 240V 50Hz/60Hz
Power Consumption		< 25W
Dimension		465 x 87 x 300 mm
Weight		Approximately 4Kg