

Final Sound DVD Receiver User Manual



release 1.4

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1. Safety Instructions



WARNING:

Do not exposure to rain, moisture or high humidity.

Do not open - High voltage inside

Do not cover the receiver. (e.g. with curtains)

Use only a power cord approved for the country of use.

Refer servicing to a qualified Final Sound dealer.

Important Safety Instructions:

- 1) Read these instructions.
- 2) Keep these instructions.
- 3) Heed all warnings.
- 4) Follow all instructions.
- 5) Do not use this apparatus near water.
- 6) Clean only with dry cloth.
- 7) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9) (US only) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet
- 10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.



- 12) Unplug this apparatus during thunderstorms or when unused for long periods of time from the mains.
- 13) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, for instance when the power-supply cord or plug is damaged, liquid has been spilled or objects has fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- 14) Do not open the apparatus.
- 15) To reduce the risk of electric shock, do not remove any panel from the receiver. There are no user-serviceable parts inside. Refer servicing to a qualified Final Sound dealer.

Warning: High Voltage Inside. To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.

Warning: The apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.

Explanation of used symbols:



This flash symbol indicates that the outlet carrying this symbol is carrying a dangerous voltage.



The double insulation symbol indicates a double insulated product. In a double-insulated product, two systems of insulation are provided instead of grounding.



The exclamation mark indicates that special attention has to be given to the indicated remark.

RISK OF ELECTRIC SHOCK, DO NOT OPEN.

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

CAUTION: Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate this device.

CAUTION: Invisible laser radiation when open. Avoid exposure to beam. Class 1 laser product. Only qualified technicians to prevent accidents caused by the laser beam must open this system. WARNING: The AC mains power plug should be located such that it remains readily accessible to the user.

IMPORTANT NOTES: Do not cover the ventilation openings with items such as newspapers, tablecloths, curtains, etc. Do not impede the ventilation.

No naked flame sources, such as candles, should be placed on the product.

Apparatus claims of U.S. patent nos. 4 631 603, 4 577 216 and 4 907 093 licensed for limited viewing uses only.

DVD Safety Information

This DVD player is designed and manufactured to respond to the Region Management Information. If the Region number of a DVD does not correspond to the Region number of this DVD player, this player cannot play the DVD.

DVD Copy Protection

In accordance with the DVD standard, your DVD player is equipped with a Copy Protection System, which can be switched on and off by the DVD itself, in order to make any recording of the relevant DVD onto a videotape of very poor picture quality, or even impossible. 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. Macrovision must authorize use of this copyright protection technology. The copyright protection technology is intended for home use only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited. This DVD player does not play DVDs that are pirated. The unauthorized use and recording of copyright and patented material is considered piracy.

For Your Safety: In the US, the AC power plug is polarized (one blade is wider than the other) and only fits into an AC power outlet one way. If the plug won't go into the outlet completely, turn the plug over and try to insert it the other way. If it still won't fit, contact a qualified electrician to change the outlet, or use a different one. Do not attempt to bypass this safety feature.

License information

DOLBY LABORATORIES NOTICE

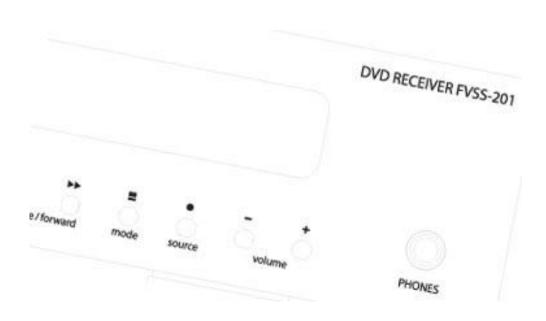
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HI-DEFINITION MULTIMEDIA INTERFACE

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2. Congratulations

Thank you for purchasing the Final Sound FVSS-201/P DVD Receiver. After reading this manual and connecting your system, you will hear the results of a unique combination of the Final Sound electrostatic panels with a DVD receiver, which is designed for both virtual surround sound and stereo sound. In case of a dipole line array the virtual surround effect will propagate far deeper into the room as there are almost no reflections from the walls the floor or the ceiling. Final's implementation of an inverted electrostatic loudspeaker has also additional benefits as the product has already a broad soundstage and gives a transparent and lifelike sound reproduction. The Final Sound DVD receiver can be used together with the various Final electrostatic panels and subwoofers

- Panels; F90i, F100i, F150i, F200i, F300i and F400i
- Subwoofers S95, S110 and S220

The FVSS-201/P has been designed to give the user the optimal sound quality for stereo as well as for virtual surround. The user will be able to have an optimal setting of the acoustical parameters by selecting the applied electrostatic loudspeaker from the setup menu.

Virtual Surround

The Final Sound FVSS-201/P supports virtual surround mode. Movie sound consists of at least five channels and a dedicated subwoofer channel. To recreate five channels of sound in your living room, you need five loudspeakers and a subwoofer. Some customers won't place five loudspeakers for several reasons. Virtual surround will bring a good alternative. Thanks to advanced computer simulations, it's possible to emulate a surround sound experience using only two loudspeakers. Simply connect two Final electrostatic loudspeakers and a Final Sound subwoofer to the FVSS-201/P DVD Receiver, engage the virtual surround mode and enjoy surround sound all around your listening position. The receiver supports two virtual surround modes. One gives a wide surround effect and the other mode is narrower.

Powering Final electrostatic panels

The Final Sound FVSS-201/P provides two outlets to power up Final Sound electrostatic panels.

Manual contents

This manual includes the instructions for the Final DVD receiver FVSS-201/P.

Please read and follow these instructions carefully before you connect your Final Sound system. These instructions are very important and will prevent you from experiencing any delay or system damage, which might occur in a trial and error situation.

3. Unpacking and connecting the receiver

Step-by-Step Connection

This chapter is divided into steps to get you up and running as quickly as possible. Because of the many options of different TV's, several connection scenarios are provided. Below is a summary of the various steps.

- Step 1: Unpack the box
- Step 2: Put batteries in the universal remote control
- Step 3: Connect Set-top box or TV's signal output to Final Sound DVD receiver's INPUT
 - 3A: Set-top box connection. Use this connection if your TV has a cable box, satellite receiver, or HD receiver set-top box connected to it.
 - 3B: TV audio to Final Sound receiver connection. Use this connection if you get your TV signal via regular cable (no cable box or set-top receiver) or an off-air antenna and you will play back your sound using the Final Sound receiver.
- Step 4: Connect the Final Sound DVD receiver to TV's Video Input
- Step 5: Connect loudspeakers and subwoofer
- Step 6: Connect other components (optional)
- Step 7: Connect AM and FM antennas
- Step 8: Turn on TV and Final Sound DVD receiver

Step 1: Unpack the box FVSS-201/P

Make sure you have the following items as you unpack your Final Sound system:

- DVD receiver FVSS-201/P
- Composite video cable (yellow)
- Left/right audio cable (red and white)
- Two power cables to connect Final electrostatic panels
- User manual
- Warranty card
- Universal Remote Control
- 2-AAA batteries for the remote control
- Power cord
- AM antenna
- FM antenna

Step 2: Put the batteries in the universal remote control

The supplied universal remote control and batteries are in the carton box.

Remove the battery compartment cover on the back of the remote. Push down on the tab and slide the cover.

Insert two (2) "AAA" batteries. Make sure the polarities (+ and -) are aligned correctly with the polarities inside the remote.

Replace the cover.

Step 3: Connect your Final Sound DVD receiver to the peripheral equipment

Understanding the basics

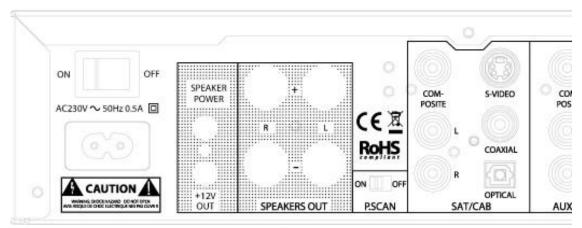
Understanding the basics of how input and output jacks work will assist you in connecting components to your Final Sound DVD receiver.

- INPUT jacks are connected to peripheral components. Your cable box, satellite box, HD
 receiver box etc. would connect to your Final Sound DVD receiver's INPUT jacks to bring
 the signal INTO the Final Sound DVD receiver so you can control everything (sound and
 picture) from the Final Sound DVD receiver.
- OUTPUT jacks send the signal OUT from your Final Sound DVD receiver to the TV (for video), to the loudspeaker system (for audio) and to the subwoofer. For instance, in order to see the DVD movie you're playing in your Final Sound DVD receiver, you must connect cables to the TV so you can see the picture on the TV screen. Therefore, you connect a cable to the OUTPUT jack on the Final Sound DVD receiver (sending the DVD signal OUT to the TV) and connect the other end of that cable to the matching INPUT jack(s) on the TV.

Available rear panel connections from left to right

The Final Sound DVD receiver is equipped with almost every common interface solution to connect to video and audio equipment.

MAINS and SPEAKERS OUT (L/R)



Function: the power socket is located to the left side. Use this to connect the receiver to the mains supply. Put the power switch in the **ON** position to put the receiver in standby mode (the red LED on the front panel will indicate the standby status).

(The US-model -110Volt- is equipped with the US-power socket and lead not shown here)

The SPEAKERS OUT panel is located to the right side. Use these to connect the loudspeakers.

The SPEAKER POWER outlets supply power to Final electrostatic panels.

SAT/CAB- INPUT



Function: connect your set-top box's audio and video connections to the Final Sound DVD receiver.

The SAT/CABs incoming connections:

- Composite video-in S-video in
- Coaxial audio in
- Optical audio in
- Analogue audio in

AUX 1 INPUT



Function: to connect a peripheral audio and/or video device to the Final Sound DVD receiver.

The AUX 1 incoming connections:

- Composite video in
- S-video in
- Analogue audio in

AUX 2 INPUT



Function: to connect a peripheral audio and/or video device to the Final Sound DVD receiver.

The AUX 2 incoming connections:

- Component video in
- Coaxial digital audio in
- Optical digital audio in
- Analogue audio in L + R
- USB input

OUTPUT



Function: connect to best available video-input-connector on your flat screen, crt-device, television or projector.

Connect the subwoofer-output to the Final Sound Subwoofer's input terminal.

(The US-model does not have a SCART connector)

The OUTPUT panel's outgoing and incoming connections:

- Component video output
- S-video output
- Composite output
 SCART output (not available for the US-model)
 Subwoofer audio output

HDMI

HDMI input HDMI output

ANTENNA FM (75 Ω) / GND AM



Function: connect the supplied FM Antenna and AM Antenna to get radio reception.

Available front panel connection

HEADPHONES

Function: to connect stereo headphones

Plugging in headphones will mute loudspeaker, subwoofer, SCART etc.

Theory behind video connections

Component Video is considered excellent video quality because the video is separated into three parts (Y = Luminence (black & white part of signal) Pb= Chrominance (color) minus blue Pr = Chrominance minus red)

S-Video (separate video) provides very good video quality. Even though there is only one cable, the chrominance and luminance are kept separate from the sync.

Composite (yellow) provides good video quality.

HDMI will provide the best digital connection. If your TV allows both HDMI and component inputs then the HDMI will probably give better picture quality. Early TVs with HDMI inputs often delivered a better picture using component inputs

Step 3a: Set-Top box connection (cable box, satellite receiver)

Connect the **VIDEO**—look at the options available on the set-top box (in order of preference) and choose:

If the set-top box has a HDMI OUTPUT jack for video, plug HDMI cable into that jack and to the Final Sound DVD receiver's HDMI-in jack. This HDMI connection will also support the audio-connection from the set-top box to the receiver. If audio is not available using the HDMI, you need to connect the audio seperately (see step 3b).

Or - if the back of the set-top box has Component Video (Y, Pb, Pr) OUTPUT jacks, plug corresponding cables (either bundled set or three video grade cables) into those jacks on the set-top box and to the Final Sound DVD receiver's SAT/CABLE INPUT COMPONENT jacks (Y to Y; Pb to Pb, Pr to Pr).

Or - if the set-top box has a VIDEO (yellow) OUTPUT jack for video, plug yellow video cable into that jack and to the Final Sound system's SAT/CABLE INPUT COMPOSITE (yellow) Jack.

Or- if your set-top box is ONLY provided with a SCART output connector, connect a special SCART to composite video, S-video and analogue audio adapter (in case of doubt consult your dealer). From this adapter you can connect the adapter's (yellow) composite output or the S-Video output to the receiver's AUX 1 composite video input or S-video input.

The US-model receiver does not have SCART connectors. Usually, set-top devices in the US are not provided with SCART outputs.)

Connect the **AUDIO**—look at the options available on the set-top box and choose:

If the set-top box has Digital Audio (OPTICAL), connect appropriate cable to the set-top box Audio Optical Out jack and to the receiver's SAT/CABLE INPUT optical jack.

Or - if the set-top box has Digital Audio (COAXIAL), connect appropriate cable to the set-top box Audio Coaxial Out jack and to the receiver's SAT/CABLE INPUT coaxial jack.

Or - connect audio cables to the audio left (white) and audio right (red) jacks on the back of the set-top box and to the Final Sound receiver's SAT/CABLE INPUT L (white) and R (red) jacks.

If the set-top box has a HDMI output and this connection does NOT support audio, it might be necessarily to connect a separate audio connection between the set-top box and the Final Sound DVD receiver. You can apply digital or analog connections (HDMI carries both digital video and digital audio, but under specific conditions, audio is not transferred.)

Step 3b: Audio connection from TV to receiver (no set-top box)

Connect TV Audio OUTPUT to the Final Sound DVD receiver

Purpose: If you want the TV sound to come through the Final Sound DVD receiver, you need to make this audio connection.

If you **don't have a set-top box** connected to your TV (you either have cable coming out of the wall or an off-air antenna, such as HD), simply connect the Audio OUT jacks on the TV to the Audio INPUT jacks on the Final Sound DVD receiver (AUX1, AUX2 or SAT/CAB if not occupied by a set-top box). You can watch television and listen to the sound using your Final Sound DVD receiver. You can mute or lower the TV's own loudspeaker audio output.

Choose the best TV AUDIO connection available:

If your TV has a Digital Audio (OPTICAL) Output jack, connect appropriate cable (not supplied) to it and the other end to the Final Sound DVD receiver's AUX 2 or SAT/CAB INPUT OPTICAL jack.

If your TV has a Digital Audio (COAXIAL) Output jack, connect appropriate cable to the TV's Audio Coaxial Out jack and to the Final Sound DVD receiver's AUX 2 or SAT/CAB INPUT COAXIAL jack.

If your TV doesn't have Digital Optical or Digital Coaxial for the audio connection, connect regular audio cables to the audio left (white) and audio right (red) output jacks on the back of your TV and to the Final Sound DVD receiver's AUX1, AUX2 or SAT/CAB INPUT jacks.

Step 4: Video connection to TV (or projector)

Connect Final Sound DVD receiver to the TV's VIDEO INPUT

If your TV does have HDMI, connect HDMI cable (not supplied) to the Final Sound DVD receiver's HDMI-out jack and to the corresponding HDMI-in jack on the TV.

Or- if your TV has Component INPUT jacks (Y, Pb, Pr) connect the corresponding cables (either bundled or three separate video grade cables—yellow) to the Final Sound DVD receiver's VIDEO OUTPUT COMPONENT Y, Pb, Pr jacks and to the corresponding INPUT jacks on the TV.

Or- if your TV doesn't have Component, but has S-Video, connect S-Video cable (not supplied) to the Final Sound DVD receiver's VIDEO OUTPUT S-VIDEO jack and to the corresponding S-VIDEO jack on the TV.

Or- if your TV does have SCART, connect a SCART cable (not supplied) to the Final Sound DVD receiver's SCART output jack and to the corresponding SCART input jack on the TV. (The US-model does not have a SCART connector)

Or- if your TV doesn't have Component or S-Video, connect the TV's VIDEO INPUT (yellow) to the Final Sound DVD receiver's COMPOSITE jack (yellow).

If your TV (or projector) supports **progressive scanning** technology (see the TV or projector's owner manual if you don't know whether your device supports progressive scanning), only the Final Sound DVD receiver's component outputs and HDMI outputs supports progressive scanning technology. Also, put the progressive scan switch (backpanel) in the 'on' position. If in doubt, leave the progressive scan switch (back panel) in the 'off' position.

Notes:

Until recently, TVs only had INPUT video jacks. Therefore, your TV might not carry the "IN" or "INPUT" label even though it is an input.

Step 5: Connect the loudspeakers and subwoofer

- Connect the SPEAKERS OUT R red and black terminals to the right loudspeaker's red and black terminals respectively.
- Connect the SPEAKERS OUT L red and black terminals to the left loudspeaker's red and black terminals respectively.
- Connect the Final electrostatic loudspeakers to the mains, using the supplied power adapter (in the loudspeaker's package) OR:
- Connect both Final electrostatic panels to the receiver's SPEAKER POWER outlets.
- Connect the Final subwoofer's LINE-IN terminal to the DVD receiver's SUB-out terminal.
- If you connect an aditional second subwoofer, you can connect the first sub's LINE OUT terminal to the second sub's LINE IN terminal (daisy chain).

Step 6: Connect other components (optional)

You can connect other components, such as a VCR, another recording device (like a hard-disk drive product or DVD Recorder), a video game system or an external CD/DVD drive or changer to your Final Sound DVD receiver using the available digital or analogue audio inputs and/or video inputs.

Connecting a component to the Final Sound DVD receiver:

From the component's OUTPUT jacks, connect the best available video option to the Final Sound System's INPUT video jacks.

Do the same thing for the audio connection. Choose the best available connection from the component's AUDIO OUTPUT jacks, and connect appropriate cables. Connect the cable(s) to the Final Sound system's INPUT audio jacks.

Connecting headphones to the front panel's headphone OUTPUT:

For private listening, connect compatible headphones to the HEADPHONE jack.

Step 7: Connect AM and FM Antennas

Connect AM and FM Antennas (supplied).

The back of your Final Sound System has jacks for the AM and FM antennas that were packed with your system. Unwind the wires for each antenna to provide the best reception.

Note: An outdoor antenna may be used in place of the supplied indoor antennas. Outdoor antennas will generally give better FM performance than an indoor one. To add an outdoor antenna, consult a qualified installer. Follow all safety instructions supplied with the antenna.

FM Antenna

Plug the FM antenna into the Final Sound system's FM (75 Ω) jack in the section labeled ANT. Spread out the antenna arms and move them around to establish optimum FM reception. Extend the antenna as much as possible.

Notes: Some cable TV providers make FM radio signals available through the cable service to your home. This connection is made to the external FM jack on the back of the Final Sound system. To connect to this service, contact your cable TV provider for assistance.

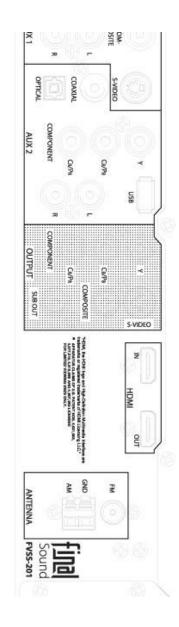
Make sure that the cable radio installation includes a TV/FM splitter so that only the FM radio band, not the cable TV band, is received by the Final Sound system. If necessary, contact your cable company.

AM Antenna

Plug the AM loop antenna into the GND AM jack in the section labeled ANT on the back of your Final Sound system. Place the antenna loop at least 20 inches (50 centimeters) away from your Final Sound system. To get optimum reception, you'll need to experiment with the positioning of the loop antenna.

Step 8: Turn on the TV and Final Sound FVSS-201/P

- Plug in the Final Sound DVD receiver's power cord to an AC power outlet.
- Turn on the Final Sound DVD receiver. First press the ON/OFF button on the rear panel and secondly press the power button on the front panel or the red button on the remote control.
- You can also press DVD on the remote control.
- Turn on the TV and tune to the correct video input channel.
- Tune the TV to the channel that corresponds to the INPUT jack you used on the back of the TV to connect the Final Sound DVD receiver. The name and how you access this video input channel varies for different TVs. Generally; you'll press a button on the <u>TV's</u> remote control, such as SOURCE, AV, INPUT or VID. Check your TV's owner manual to see how you tune your TV to the correct channel.



Go to the next chapter: Complete the On-screen Setup

4. On-screen Set up

How To Navigate Menus

To access the menu system, press MENU (the main menu appears).

Use the arrow buttons to move the direction you want to go. You'll notice the menu is highlighted to let you know where you are.

When a menu item is highlighted, press OK to see the submenus or to activate the option that is highlighted.

Starting the On-screen Set up

- Press MENU on the remote control (the main menu appears)
- On the left side are 4 options to choose from. You can navigate using the up and down arrows.
- Highlight the desired option and press OK
- For initial set up, start with the GENERAL SETUP

General set up	OSD language	English
		French
		German
		Dutch
		Spanish
		Italian
		Swedish
		Russian
	Defaults	Reset
	Main menu	

The GENERAL SET UP

- Select OSD LANGUAGE and press OK.
- Select the preferred language and press OK.
- Return to the former menu by pressing the left arrow key.
- Select DEFAULT and press OK.
- DO NOT press OK while RESTORE is highlighted. You ONLY need this option when you
 want to return to the receiver's original factory settings. So please return to the former
 menu using the left arrow key.
- Select MAIN MENU and press OK. This will bring you back to the main menu.

Video set up	TV display	Normal/PS
		Normal/LB
		Wide/HDTV
	TV type	Multi system
		NTSC
		PAL
	Resolution	SD interlace
		720p
		1080i
		1080p
	Video output	YPbPr
		SCART (*)
	Main menu	

(*The US-model does not have a SCART connector)

The VIDEO SET UP

- Select VIDEO SET UP and press OK. The next menu level will bring 4 options to choose from.
- Select TV DISPLAY and press OK.
- Normal/PS is Pan & Scan
- Normal/LB is Letterbox 4:3
- Wide/HDTV is preferred for HD and HD-ready screens with a 16:9 aspect ratio
- Make your preferred selection and press OK. Return to the former menu using the left arrow key.
- Select TV TYPE and press OK.
- Multi system is recommended for TVs that discriminate automatically between incoming NTSC and PAL standards. Please consult your TV's manual.
- NTSC is for NTSC-only TVs
- PAL is for PAL-only TVs
- Make your preferred selection and press OK. Return to the former menu using the left arrow key.
- Select RESOLUTION and press OK.
- SD Interlace is recommended for standard resolution TVs.
- 720P is recommended for TVs with support for 720 lines of horizontal resolution, supporting progressive scan. You need a component or HDMI connection.
- 1080i is recommended for TVs with support for 1080i lines of horizontal resolution, without supporting progressive scan or when connected otherwise than HDMI or component.
- 1080P is recommended for TVs with support for 1080 lines of horizontal resolution, supporting progressive scan. You need a component or HDMI connection.
- Make your preferred selection and press OK. Return to the former menu using the left arrow kev.
- Select VIDEO OUTPUT and press OK.
- YPBPR will route the video signal towards the component output.
- SCART (*) will route the video signal towards the SCART output.
- These video output terminals are mutually exclusive.
- Make your preferred selection and press OK. Return to the former menu using the left arrow key.
- Select MAIN PAGE and press OK. This will bring you back to the main menu.

Speaker set up	Speaker type	F90i
Opeaker Set up	Speaker type	F100i
		F150i
		F200i
		F300i
		F400i
		-
	Speaker	Close wall
	position	
		Near wall
		Free space
	Sub type	S95
		S110
		S220
	Distance	Front distance
		Sub distance
	Audio delay	0
		1
		2
		3 4
		4
		5
	Room	Low
	damping	
		Normal
		High
		,
	N 4 = 1 =	
	Main menu	

The SPEAKER SET UP

- Select SPEAKER SET UP and press OK.
- SPEAKER TYPE: choose the Final electrostatic loudspeakers connected to your system. This parameter will adjust the high pass filter for the applied panels.
- Make your preferred selection and press OK. Return to the former menu using the left arrow key.
- SPEAKER POSITION: should be adjusted according to your loudspeaker's placement.
 This parameter is responsible for the room correction in relation to the wall behind the loudspeakers (close wall, near wall and free space).
- Make your preferred selection and press OK. Return to the former menu using the left arrow key.
- SUBTYPE: please choose the Final Sound subwoofer connected to the system. When
 you choose the S110 or S220, you need to make additional adjustments to the
 subwoofer according to the instructions in chapter 9.
- Make your preferred selection and press OK. Return to the former menu using the left arrow key.
- DISTANCE: between the listening position and the loudspeakers and the listening position and the subwoofer. Scrolling can set the distance. Adjust both front distance and sub distance.

- Make your preferred selection and press OK. Return to the former menu using the left arrow key.
- AUDIO delay: to adjust lip-sync. Default value is 3. See page 26 for detailed explanation.
- Make your preferred selection and press OK. Return to the former menu using the left arrow key.
- DAMPING: adjustment for your room's reflective conditions.
- LOW: for reflective and lively rooms.
- NORMAL: the average room
- HIGH: for rooms with lots of furniture, carpets and heavy drapes.
- Make your preferred selection and press OK. Return to the former menu using the left arrow key.
- Select MAIN PAGE and press OK. This will bring you back to the main menu.

_		
Preferences	Audio	English
		French
		Spanish
		Chinese
		Japanese
	Subtitle	English
		French
		Spanish
		Chinese
		Japanese
		Off
	Disc menu	English
		French
		Spanish
		Chinese
		Japanese
	Parental	1 G
		2
		3 PG
		4 PG-13
		5
		6 PG-R
		7 NC-17
		8 Adult
		No limits
	Password	Change
	Main menu	

The PREFERENCES SET UP

Select PREFERENCES and press OK.

- AUDIO will (for most DVDs) pre select the movie's spoken language. Please choose your preferred language and press OK. Off will switch off subtitles.
- SUBTITLE will (for most DVDs) pre select the movie's subtitles. Please choose your preferred subtitle language and press OK.
- DISK MENU will (for most DVDs) pre select the DVD's menu language. Please choose your preferred DVD menu's language and press OK.
- PARENTAL The Parental Control menu lets you password-protect DVDs by using the MPAA (Motion Pictures Association of America) rating system to tell the Final Sound system which ratings require a password in order to play the DVD. See table below. See chapter 8 for changing the parental level.
- PASSWORD To change your password. See chapter 8 for details.
- Select MAIN PAGE and press OK. This will bring you back to the main menu.

Table Parental Level

G	General Audiences All ages admitted	All ages admitted
PG	Parental Guidance Suggested some material may not be suitable for children	Some material may not be suitable for children
PG-13	Parents Strongly Cautioned some material may be inappropriate	Some material may be inappropriate for children under 13, which also applies to PG-15 etc.
PG-R	Restricted	Under 17 requires accompanying parent or adult guardian
NC-17	No one 17 and under admitted	
Adult	Only adult permitted	
No Limits		

That completes the receiver's set up procedure. You can leave the menu by pressing MENU on the remote control.

The RADIO SET UP

To set up the radio and to store your favorite stations, you only need the remote control.

- Select FM/AM on the remote control
- By pushing this button once or twice, you can select the AM or FM band
- Left cursor key: search upward by step (for fine tuning stations)
- Right cursor key: search downward by step (for fine tuning stations)
- Up cursor key: search next station
- Down cursor key: search previous station
- TO SAVE A STATION: In tuner mode, after auto search one station, press OK, then
 press the numeric key of your choice for saved station number. Press OK again once
 finished
- Ch up: go to next SAVED station
- Ch down: go to previous SAVED station

RDS information

RDS (Radio Data System)—RDS is the system that allows broadcasters to embed programming information in the radio signal, such as the name of the artist or song. Your Final Sound DVD receiver is RDS-enabled.

The SUBWOOFER SET UP

The Final Sound DVD receiver is originally set up for the Final Sound S95 subwoofer. You need to adjust the following:

- Set the ON/AUTOMATIC switch to automatic. The subwoofer will automatically power on and power off, following the receiver's operational status.
- Adjust the subwoofer's volume according to your taste and acoustical environment. See the S95 subwoofer's manual for further details considering this adjustment.
- For adjusting other Final subwoofers: see chapter 9.

5. Navigating your receiver

The front controls of your Final Sound receiver



Explanation of buttons on the front of your Final Sound System

- POWER ON/OFF (not in this picture) Turns the Final Sound DVD receiver on and off (standby mode) and tunes it to the last selected input. If the remote is programmed to operate other components, the ON-OFF button is used together with the component buttons (AUX 1, TV, AUX 2, and SAT-CAB) to turn the components on and off.
- EJECT to open and close the disc tray
- PLAY/PAUSE to play and/or pause a disc
- SKIP to advance to the next track
- REVERSE fast reverse
- FORWARD fast forward
- MODE to select between both virtual surround modes. Use the STEREO key on the remote control to disable the virtual surround modes. Each of the two available virtual surround modes will provide a slightly different spatial representation of sound. Please select according to your preferences and acoustic environment.
- **SOURCE** Used to choose the function you want to use—radio, DVD/CD, watch TV, access any other components connected to your Final Sound system (VCR, video game system, etc.). Each time you press the SOURCE button, it goes to the next "input".
- VOLUME (-/+) Adjusts the sound level

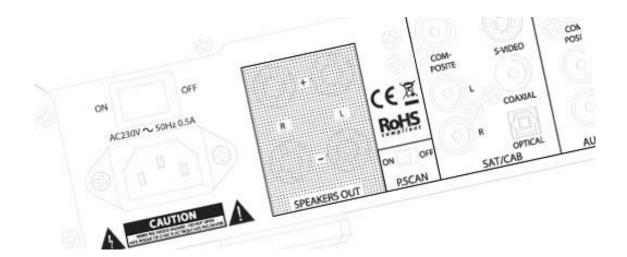
Switching between inputs — TV, DVD, Radio, CDs, etc.

Your Final Sound DVD receiver IS THE CENTER of your entertainment system...now, you just need to understand how to get from one type of entertainment to another.

To move to a different type of media, press the corresponding button on the remote control (TV, SAT/CAB, DVD, AUX1, AUX2, AM/FM).

When you turn on your Final Sound DVD receiver, it tunes to the last source you used. The front panel indicates what source is active.

- TV To control your TV (see remote control list) from the Final Sound remote control
- SAT/CAB activates the SAT/CAB input for watching TV from a connected set-top box
- DVD for playing DVDs or CDs
- AUX1 activates this input (VCR, hard disc recorder, tape recorder, camcorder)
- AUX2 activates this input (VCR, hard disc recorder, tape recorder, camcorder)
- AM/FM listening to the radio



6. The universal remote control



The universal remote control that came packed with your Final Sound DVD receiver can be programmed to operate the basic functions of many other brands of audio and video components, such as TVs, satellite receivers, cable boxes, DVD players, and others.

The design of the remote control groups the buttons to help you achieve better performance from your remote. In this section of the manual, you will learn the function of each button and how to program it to operate other brands of components. To use the remote control effectively, always aim it directly at the Final Sound DVD receiver.

The following buttons are illuminated: TV, SAT/CAB, DVD, AUX1, AUX2, and AM-FM

Button Descriptions

- POWER ON/OFF Turns the Final Sound DVD receiver on and off (standby mode) and tunes it to the last selected input. If the remote is programmed to operate other components, the ON-OFF button is used together with the component buttons (AUX 1, TV, AUX 2, and SAT-CBL) to turn the components on and off.
- MUTE Reduces the audio to a minimum level. Press again to restore the volume.
- TV Selects the TV for which the button was programmed and operates the basic functions of that TV (for programming see chapter 8).
- SAT-CAB (Satellite Receiver/Cable) Switches the Final Sound unit to SAT-CAB inputs. When
 the SAT-CAB button is programmed, it operates the basic functions of the component
 connected to the SAT/CABLE INPUT jacks.
- DVD Places the remote in DVD mode to operate the DVD/CD player.
- AUX1 Switches the Final Sound unit to AUX 1. When the AUX1 button is programmed, it
 operates the basic functions of the component connected to the AUX 1 INPUT jacks.
- AUX2 Switches the Final Sound unit to AUX 2. When the AUX2 button is programmed, it
 operates the basic functions of the component connected to the AUX 2 INPUT (side
 panel) jacks.
- FM-AM Selects the radio tuner and switches between AM and FM stations.
- STEREO Selects stereo mode. Mainly used to listening to music.
- **VS** Switches the receiver in virtual surround mode (two modes available).
- Keys 0-9 Use the number buttons for direct "channel" access in TV or SAT/CABLE mode.
- AUDIO To select between DVD's audio decoding systems.
- **CH** (Channel up/down) Selects the lower or higher station on the radio. If programmed properly, selects the lower or higher channel on a TV, satellite receiver, or cable system.
- SUB Allows you to increase or decrease the subwoofer's volume with the volume up/down keys.
- VOL (Volume up/down) Controls the audio level in every mode
- ARROW BUTTONS or CURSOR CONTROL (up, down, left, right, 0K) Use the arrow buttons
 to highlight options and navigate through menu systems. The arrow buttons move the
 highlight in the corresponding direction of the arrow buttons. Also available for tuning the
 FM/AM radio.
- DISC MENU Displays or removes the Duds menu.
- MENU Displays or removes the main menu of the selected component. In DVD mode, the Final Sound DVD receiver's menu is displayed.
- PLAY Begins playback of DVD/CD.
- PAUSE Temporarily stops playback. Resume with the PLAY button.
- STOP Stops playback.
- **ZOOM** Shows magnification of image when zoom is activated.
- FAST BACKWARD (<<) Searches backward through a DVD, CD, mp3, and radio stations during playback.
- FAST FORWARD (>>) Searches forward through a DVD, CD, mp3, and radio stations during playback.
- LS- see text below (*)
- LS+ see text below (*)
- TITLE Displays the DVD's title menu.
- SUBTITLE Subtitles on/off
- REPEAT Repeats a track or disc.
- EJECT To open and close the disc tray.

(*) Our experience indicates that there are some DVD discs in the market with possible mastering errors, resulting in potential lip-sync problems. Some satellite and terrestrial set-top boxes can also display some problems depending on the program's source.

If you notice a lip-sync problem (sound and picture do not seem perfectly in time with each other) when watching, you can go to the OSD SPEAKER set up menu (while DVD is selected) and change the delay time of the audio. Improving the sync between audio and video can significantly improve the enjoyment of music videos and movies or even speech based programmes.

Once in the OSD menu system you can change the delay time in five steps. The default is setting 3 as this works with the widest selection of DVDs and sources. Only if you notice a lip-sync problem you need to make any adjustment. Setting 3 is ideal for use with flat panel TVs and monitors. Setting 0 or 1 will probably work best with traditional CRT based TV sets. The new remote control has also the capability to directly control the audio delay time by two buttons (LS- (lip-sync minus) and LS+ (lip-sync plus).

With some DVDs you may find you have to stop playing the DVD, adjust the lip-sync and start playing again. If you only press STOP once during this procedure, playback should start from the position it stopped. The new remote control allows the user to control all the input devices directly from the remote control such as through cable/satellite, aux1 and aux2. Normally you should not need to adjust the volume control of any other device. The FVSS201/P always controls the volume. Set your television's volume to zero using the TVs supplied remote control as all the sound will come from the Final loudspeakers.

7. Operation Explained

This chapter will review operation in more detail—how to play DVDs, CDs and USB devices.

Playing Discs

Compatible Disc Standards

CD-DA
VCD CD 2.0
CVD,S-VCD
CD-R,CD-RW
DVD VIDEO
DVD-RW/DVD+RW
DVD-R/DVD+R
Disc Size 12cm and 8cm

Compatible Audio/Video Standards

Dolby Digital 2 ch Downmix
Dolby Prologic II Decoding
Dolby Virtual speaker mode
DTS Decoder with 2.1ch out
MPEG-4
MPEG-2 standard video (S-VCD)
MPEG-1 audio
MP3
AAC
DCDI
Pluge (0 IRE) capable (=black
level adjustment)
USB (mp3 decoder)

Incompatible Disc Standards



Incompatible Audio/Video Standards



Regional Coding

DVD Players and DVDs are coded by region. The region codes must match in order for the DVD to play. The Final Sound DVD receiver has the proper region code for your geographical area. You can only play DVDs that match your region code in this player.

Playing DVDs or CDs

To play a DVD or CD:

- Press DVD on the remote to put the Final Sound DVD receiver in DVD/CD mode or press the SOURCE button on the front panel of the DVD receiver to select DVD.
- (For DVD not CD playback) If the TV didn't turn on and tune to the correct video input channel so you see the Final Sound DVD screen, turn on your TV, and tune the TV to the channel that matches how you connected the Final Sound DVD receiver's output jacks to the TV's input jacks (see chapter 3).
- Press EJECT (the DVD/CD tray opens).
- Place a DVD/CD into the tray with the label facing up (some DVDs have content on both sides, so you can load these DVDs with either side up).
- Press EJECT or PLAY (the DVD/CD tray closes and your Final Sound DVD receiver reads the contents of the DVD/CD). Most CDs start playing track 1 and most DVDs will show the menu.
- (For DVD not CD playback) What happens next depends upon the type of DVD you put in the player.

DVD/CD and **VCD** Playback Features

You can use the remote control to access various features during playback, if the DVD/CD was formatted to support the features.

Transport

Fast forward/fast backward: To move forward or backward on the DVD/CD, simply press F-FORWARD (>>) or F-REVERSE (<<) during playback. Each time you press FORWARD or REVERSE, the speed will increase until the maximum search speed is reached (2x, 4x, 8x, $16x^*$). To resume playback, press PLAY.

- CH+/CH-: To advance through the DVD's chapters or the CDs tracks during playback, press the CH+ button. CH- takes you to the previous chapter/track.
- Pause/Resume: To resume playback at the point where you paused playback, just push PLAY or PAUSE.
- Title: If the DVD has more than one title, you can go to another title by entering the number while the Title icon is highlighted. Additionally, to move to the next title, you can press CH+ or the up arrow button. To go to the previous title, you can press CH- or the down arrow button.
- Repeat: Press once for repeating tracks, press twice for repeating the disk, press again to disable repeat mode.
- Subtitles: To turn subtitles on or off, highlight the Subtitle icon and press enter. Use the down arrow button to highlight On or Off, and press ENTER. To change the subtitle language, you need to go to the Final Sound system's main menu.
- Zoom: Shows the magnification chosen (1.5x, 2x and 3x).

Note 16x* for CD

Playing CDs with mp3-files

- Put the CD with mp3-files into the receiver's tray.
- Push EJECT or PLAY.
- The connected TV will display the mp3's track numbers and some title information.
- Choose your favorite track using the CH+/CH- keys.
- Push the PLAY key.
- You can navigate the CDs Mp3s using CH+/CH- keys. After changing the track, the receiver will immediately advance into play-mode.
- It's also possible to select tracks using the UP and DOWN ARROW keys and watching the menu on the TV screen. Push OK to play the selected track.
- To move fast forward or backward on the mp3-CD, simply press F-FORWARD (>>) or F-REVERSE (<<) during playback. Each time you press FORWARD or REVERSE, the speed will increase until the maximum search speed is reached (2x, 4x, 8x, 16x). To resume playback, press PLAY.</p>

Playing USB-sticks or mp3 players with mp3-files

- Plug the USB-stick or mp3-player into the receiver's back panel USB connector
- The connected TV will display the mp3's track numbers
- Choose your favorite track using the CH+/CH- keys
- Push the PLAY key
- You can also navigate the stick's mp3s using the left and right arrow keys
- After choosing a track, push OK

- To move fast forward or backward on the USB-stick, simply press F-FORWARD (>>) or F-REVERSE (<<) during playback. Each time you press FORWARD or REVERSE, the speed will increase until the maximum search speed is reached (2x, 4x, 8x, 16x). To resume playback, press PLAY.</p>
- When playing a track, pushing the left arrow key will start the track again from the position 0.00.00 seconds.

DVD or CD play will stop if a USB device is connected. To return playing DVDs press the STOP button, remove the USB device and start the DVD-disc.

8. Additional Information

In this chapter you can find information about the following topics:

- Configuring parental control and password
- Programming the remote control
- Troubleshooting
- The receiver's front display
- The USB connector
- Dolby Digital and DTS
- The back panel's P.SCAN switch
- Video input mode priority

Configuring Parental Control and Password

- Choose PARENTAL in the PREFERENCES SET UP menu.
- Use the UP and DOWN ARROWS to select your preferred rating
- Press OK
- To activate your preferred level, enter your password. The system's default password is 3502.

If you want to change your parental level, follow the procedure again. After selecting the preferred new level, the system asks for your password. If you enter the right password, the table with selectable rating will show up again. If you enter the wrong password, the table does not show up and the system asks again for the password.

To set or change your password:

- Choose PASSWORD in the PREFERENCES SET UP menu.
- The system will ask for your old password (or the system's default password).

After that, you're requested to enter **twice** the new password.

Programming the Remote Control

Your remote control is a universal remote which means you can program it to operate other brands of electronic components, such as TVs, satellite receivers, cable boxes, VCRs, etc. Follow these steps to program your remote control.

- Push TV (or another source button) for approx. 3 seconds.
- When you see the LED blink, than you push in with the numeric keys the number.
- Press OK

The codes are available on the Final Sound website (<u>www.finalsound.com</u>) and/or in a separate leaflet.

Troubleshooting

Trying to find the solution to a problem with your equipment can be very frustrating. The symptoms and solutions in this section will hopefully assist you in finding the correct answers. If you have additional questions that this manual cannot answer, please contact your Final Sound dealer or visit the Final Sound website.

General problems

No power—make sure you use an outlet that is not controlled by a wall switch.

No power—make sure you've plugged the unit into a working outlet or the power strip is turned on.

Menu is displayed in a foreign language—check OSD LANGUAGE in the menu system to make sure the language that you want is selected.

Screen saver appears on TV—press any button to remove the screen saver from the TV screen.

DVD tray doesn't open—try unplugging the power cord and plugging it back in. Press and hold STOP for approximately 3 seconds to open the tray.

DVD won't eject—DVD cannot be ejected when the player is reading the DVD. Wait a few seconds before ejecting the DVD.

Video problems

Make sure the TV and Final Sound DVD receiver are turned on.

Make sure the Final Sound DVD receiver is in DVD mode (press DVD on the remote control).

Make sure TV is tuned to Video Input Channel that matches the INPUT jack(s) on the TV you used to connect the TV to the Final Sound DVD receiver.

Make sure the cables are attached securely (check your connections). You must connect Final Sound OUTPUT jacks to a set of the TV's INPUT jacks.

Check the P.SCAN switch on the back of the Final Sound DVD receiver. Make sure it is in the OFF position unless you are certain your TV or projector supports progressive scan. The components must be connected via the Y, Pb, Pr or HDMI jacks to use P.SCAN. See chapter 3 for more information.

Check the settings in the Parental Control menu.

HIDEF component video input has a corresponding HIDEF component video output.

Check your settings in the Final Sound DVD receiver's set up menu specifically the video connections. Make sure your selection in the **SAT/CABLE Video Connection** menu matches the SAT/CABLE INPUT jack you used to connect the video originating from the set-top box or TV.

Audio problems

Make sure the cables are attached correctly, and that you've connected the appropriate cable to the appropriate jack (see chapter 3 for information about different audio options).

Refer to your TV's owner manual to find the procedures to set up your TV for a home theater system. With most TVs, you'll need to turn off the TV's internal speakers via the TV menu system or a switch on the back of the TV. Additionally, you may need to change the Fixed or Variable setting.

Check the settings in the Final Sound DVD receiver's **Set up** menu, specifically the **TV Audio Connection** submenu.

Display

The display on the front of your Final Sound system provides playback information. The display illuminates each option that is active for the type of media you are playing. The numbers on the display let you know the track, title, and/or chapter number of the DVD/CD. Additionally, information from the radio's RDS (Radio Data System), such as artist and track information, is displayed when you've tuned to the radio function.

The USB connector

mp3 playback: The USB connector can be used to put on a USB mp3 player or a USB Memory stick.

WARNING: please never try to connect the receiver's USB sockets to a computer, hub, router or other device, except for USB sticks or mp3-players. It's potentially harmful for the receiver and will void the warranty.

Dolby Digital and DTS

Dolby Digital

The trademarked marketing name for Dolby Laboratories' AC-3 codec. The common version contains six channels of sound, with five channels for normal-range loudspeakers (Right Front, Center, Left Front, Right Rear and Left Rear) and one channel for the subwoofer. The Dolby Digital format also supports mono and stereo. Your Final Sound system supports Dolby Digital with its 2.1 audio system design. In a 2.1 system, the surround loudspeakers (rear loudspeakers) and the center loudspeaker are virtual. This gives the surround sound effect without having to find room for the extra loudspeakers.

DTS (Digital Theatre Systems)

A multi-channel surround sound format (rival of Dolby Digital). With DTS, the encoders and decoders support numerous channel combinations and stereo. DTS contains up to seven channels + LFE (Low Frequency Effects). Digital Theatre Systems was the name of the company that developed this format (currently referred to as DTS). Film director Steven Spielberg was one of the company's initial investors. Spielberg films use the DTS audio format. The Final Sound receiver supports DTS 2.1 format. In a 2.1 system, the surround loudspeakers (rear loudspeakers) and the center loudspeaker are virtual. This gives the surround sound effect without having to find room for the extra loudspeakers.

P.SCAN (Progressive Scan)

The Final sound receiver supports progressive scan output. Put this switch in the **on** position when you want the component or HDMI outputs to support progressive scan. If your screen or projector does not support progressive scan, put the switch in the **off** position.

Video input mode priority

SAT/Cable mode

Prio	rity	Video Input	Video Output
4	<u> </u>	HDMI in	HDMI out
		S-Video in	HDMI out, Component, Composite, S-video, SCART
		Composite	HDMI out, Component, Composite, S-video, SCART

Notice: SCART out and Component out are selected in the OSD video menu.

Priority	Audio Input	Audio Output
A	HDMI in	Speaker, sub, SCART, HDMI
	Optical in	Speaker, sub, SCART, HDMI
	Coaxial in	Speaker, sub, SCART, HDMI
	Analogue in	Speaker, sub, SCART, HDMI

Notice: Plugging in headphones will mute Speaker, SUB, and SCART.

AUX1 mode

_	AT IIIOGO		
	Priority	Video Input	Video Output
	↑	S-Video in	HDMI out, Component, Composite, S-video, SCART
		Composite	HDMI out, Component, Composite, S-video, SCART

Notice:

- 1. SCART out and Component out are selected in the OSD video menu.
- 2. Audio input is only analogue input
- 3. Plugging in headphones will mute Speaker, SUB, and SCART.

AUX2 mode

Priority	Video Input	Video Output
†	Component (480i)	HDMI out, Component, Composite, S-video, SCART
	Component (above 480i)	HDMI out, Component

Notice: SCART and Component (480p) select in the OSD video menu.

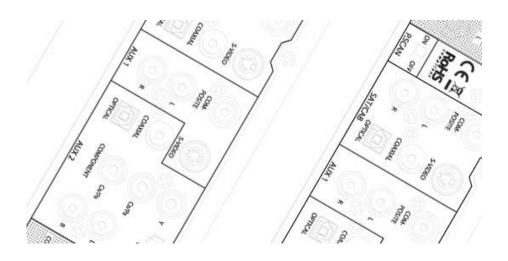
Priority	Audio Input	Audio Output
	Optical in	Speaker, sub, SCART, HDMI
	Coaxial in	Speaker, sub, SCART, HDMI
	Analogue in	Speaker, sub, SCART, HDMI

Notice: Plugging in headphones will mute Speaker, SUB and SCART.

(The US-model does not have a SCART connector)

FM/AM mode

Press FM/AM key will change between AM mode and FM mode. In the FM mode if RDS information is available, it will display in the receiver's display.



9. Connecting to other Final Equipment

Although the Final FVSS-201/P DVD Receiver is intended to operate with the dedicated S95 subwoofer and the F90i, F100i, F150i, F200i, F300i and F400i panels, it's possible to operate the system using other Final subwoofers and panels.

Procedure for connecting and configuring the Final 600i

Although the Final Sound FVSS-201/P is not primarily intended for use with the 600i panels, it's possible to run these panels from the receiver. You must be willing to accept some compromises.

Choosing the F400i as the loudspeaker type in the 'Speaker setup' menu, the 600i is running in the frequency range from approximately 90Hz and up.

As a subwoofer, you need the S95, S110 or the S220. Except for the regular subwoofer settings in the speaker setup menu, the S95 doesn't need any further adjustments.

For the S110 and S220, some adjustments need to be made on the sub's back panel.

Please proceed with the following procedure (for S110 and S220 subwoofers):

Procedure for connecting and configuring the Final S110 and S220 subwoofers

- Position the subwoofer in the desired location.
- Put the subwoofer in Auto-turn-on mode
- Connect the subwoofer's low-level input (left input, white connector) to the receiver's dedicated SUB output according to this manual's instructions.
- Select the Final Sound S110 or S220 in the receiver's 'Speaker set up' menu.
- Set the sub's volume control to a minimum and the phase switch (as a starting point) to 0 degrees.
- Adjust the Variable Phase control to 'minimum'.
- Adjust the sub's Low Pass control (crossover frequency) to the HIGHEST frequency. So, turn the control to its clockwise maximum setting.
- Keep the Variable Bass Equalizer at 'Min'.
- Play some music you are familiar with.
- Turn up the subwoofer volume to a level that matches the main loudspeaker's level.
- Now listen to modern music with some kind of strong bass rhythm.
- Adjust the Variable Phase control now. This is only necessary if the subwoofer's position is not on the baseline between the loudspeakers or left to the left loudspeaker and right to the right loudspeaker. If the subwoofer is before or behind the baseline, or somewhere else in the room, adjustment of the phase might be necessary. The Phase control is in the right position, if you're not aware of a time difference between the mid/high frequencies and the lower frequencies on the listening position. The system is definitely

out of phase when the bass frequencies lag behind the rest of the spectrum or there's a time difference anyway. If it's not possible to get the right timing, reverse the Phase Switch from '0' to '180' and try again. If this is not helpful, diminish the distance between the subwoofer and the electrostatic panels.

- Readjust the volume control after adjusting the phase.
- It can take quite a few tracks to set the best subwoofer level. Generally slightly too little subwoofer output is preferable to having the subwoofer too loud which will reduce speech intelligibility as an example.
- Note that you may need to try more than one location for the subwoofer to reach optimum results.

Daisy Chain subwoofers

If you have a rather large room, it's recommended to add a second subwoofer. Therefore, the S95 has a LINE IN and a LINE OUT (link) connection. Simply connect the second S95 to the first sub's LINE OUT connector. Adjust the second sub's volume control to balance the sound from both subwoofers from a listening position's perspective.



10. FCC Information

FCC Information

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

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 radiates radio frequency energy and, if not installed and used in accordance with the instruction, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

In accordance with FCC requirements, changes or modifications not expressly approved by Final Sound could void the user's authority to operate this product.

This device generates and uses radio frequency (RF) energy, and if not installed and used properly, this equipment may cause interference to radio and television reception. If this equipment does cause interference to radio or television reception (which you can determine by unplugging the unit), try to correct the interference by one or more of the following measures:

Re-orient the receiving antenna (that is, the antenna for the radio or television that is "receiving" the interference).

Move the unit away from the equipment that is receiving interference.

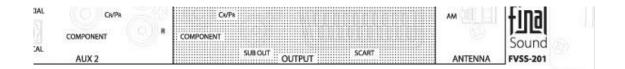
Plug the unit into a different wall outlet so that the unit and the equipment receiving interference are on different branch circuits.

If these measures do not eliminate the interference, please consult your dealer or an experienced radio/television technician for additional suggestions.

Also, the Federal Communications Commission has prepared a helpful booklet, "How To Identify and Resolve Radio TV Interference Problems." This booklet is available from the U.S. Government Printing Office, Washington, DC 20402. Please specify stock number 004-000-00345-4 when ordering copies.

This product complies with DHHS Rules 21 CFR Subchapter J. Applicable at the date of manufacture.

This Class B digital apparatus complies with Canadian ICES-003. Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.



11. Warranty

Automatic Coverage

Thank you for purchasing this Final Sound product. We have made every effort to insure that it represents the highest level of performance, reliability and finish. A Limited One Year Warranty covers your Final Sound product. This one year coverage is automatic upon your acceptance of delivery and no registration is required.

Limited One Year Warranty

Final Sound warrants the product designated herein to be free of manufacturing defects in material and workmanship, subject to the conditions hereinafter set forth, for a period of three hundred sixty five (365) days from the date of purchase by the original purchaser.

Conditions

This warranty is subject to the following conditions and limitations: the warranty is void and inapplicable if the product has been used or handled other than in accordance with the instructions in the owner's manual, abused or misused, damaged by accident or neglect or in being transported, or the defect is due to the product being repaired or tampered with by anyone other than Final Sound or an authorized Final Sound dealer. If returned, the product must be properly packaged and shipped to Final Sound or an authorized Final Sound dealer by the customer at his or her sole expense. A returned product must be accompanied by a written description of the defect and proof of the date of purchase. Final Sound reserves the right to modify the design of any product without obligation to purchaser of previously manufactured products and to change the prices or specifications of any product without notice or obligation to any person.

Exclusions

Any implied warranties relating to the above product shall be limited to the duration of the above warranty. The warranty does not extend to any incidental or consequential costs or damages to the purchaser. Some countries do not allow limitations on how long an implied warranty lasts or exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights, and you may also have other rights, which vary from country to country. This warranty represents a limited warranty as defined above.

Remedy

In the event the product fails to meet the above Warranty and the above conditions have been met, the purchaser's sole remedy under this Limited Warranty shall be to return the product to Final Sound or an authorized Final Sound dealer where the defect will be rectified without charge for parts or labor.

Restriction

This Warranty is for the sole benefit of the original purchaser of the covered product, is restricted to the original purchaser, and shall not be transferred to a subsequent purchaser of the product.

12. Warranty Card

Limited Warranty Registration Card

In order to validate your warranty registration we kindly ask you to fill in the following data. For registration, this form has to be accompanied by a copy of your purchase receipt. The address to send to can be found on this page. We thank you and wish you great enjoyment with your new Final Sound product.

Name:	
Email:	······································
Address:	
City:	State
Country:	
Authorized Final Sound dealer:	
Salesperson's Name:	
Please fill in for warranty registration the serial numbers (Numbers appear on labels at the back of the product)	of all units you have bought.
1 Final Sound Center Loudspeaker:	
1 set Final Sound Front Loudspeakers (Home Theatre of	or Stereo System, 2 panels):
1 set Final Sound Rear Loudspeakers (2 panels):	
1 Final Sound Subwoofer:	
1 Final Sound DVD Receiver	
To improve our products and customer service, we wou questions.	ld greatly appreciate your answers to the following
Title or profession:	Age:
How did you find out about Final Sound?	
Advertisement in	
Relations/friends	
Internet:	
Other	
What kind of amplifier do you use?	
Brand:Type:	
If you have any comments on our products and services Thank you very much for taking time to complete in this	
Final Sound Eisenhowerweg 8D 5466 AC Veghel The Netherlands	3

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For US customers ONLY:

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