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AUDIO/VIDEO MULTI-CHANNEL RECEIVER

VSX-41 Elite

Operating Instructions

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WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

WARNING: THE APPARATUS IS NOT WATERPROOFS, TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE AND DO NOT PUT ANY WATER SOURCE NEAR THIS APPARATUS, SUCH AS VASE, FLOWER POT, COSMETICS CONTAINER AND MEDICINE BOTTLE ETC.

[For Canadian model]

CAUTION: TO PREVENT ELECTRIC SHOCK, DO NOT USE THIS (POLARIZED) PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

ATTENTION: POUR PREVENIR LES CHOCS ELECTRIQUES NE PAS UTILISER CETTE FICHE POLARISEE AVEC UN PROLONGATEUR UNE PRISE DE COURANT OU UNE AUTRE SORTIE DE COURANT, SAUF SI LES LAMES PEUVENT ETRE INSEREES A FOND SANS EN LAISSER AUCUNE PARTIE A DECOUVERT.

[For Canadian model]

This Class B digital apparatus complies with Canadian ICES-003.

[Pour le modèle Canadien]

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

If the socket outlets on the associated equipment are not suitable for the plug supplied with the product, the plug must be removed and an appropriate one fitted. Replacement and mounting of an AC plug on the power supply cord of this unit should be performed only by qualified service personnel. The cut-off plug must be disposed of as an electrical shock hazard could exist if connected to a socket outlet.

[For U.S. model]



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CAUTION:

THE STANDBY/ON BUTTON IS SECONDARY CONNECTED AND THEREFORE DOES NOT SEPARATE THE UNIT FROM MAINS POWERIN STANDBY POSITION. THEREFORE INSTALL THE UNIT SUITABLE PLACES EASY TO DISCONNECT THE MAINS PLUG IN CASE OF THE ACCIDENT. THE MAINS PLUG OF UNIT SHOULD BE UNPLUGGED FROM THE WALL SOCKET WHEN LEFT UNUSED FOR A LONG PERIOD OF TIME <u>HAUTER</u> Thank you for buying this Pioneer product. Please read through these operating instructions so you will know how to operate your model properly. After you have finished reading the instructions, put them away in a safe place for future reference.

IMPORTANT NOTICE

H006AEn

The serial number for this equipment is located in the rear panel. Please write this serial number on your enclosed warranty card and keep it in a secure area. This is for your security.

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

Information to User

Alteration or modifications carried out without appropriate authorization may invalidate the user's right to operate the equipment.

CAUTION:

This product satisfies FCC regulations when shielded cables and connectors are used to connect the unit to other equipment. To prevent electromagnetic interference with electric appliances such as radios and televisions, use shielded cables and connectors for connections.

Re-Equalization and the "Re-EQ" logo are trademarks of LucasFilm Ltd.

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IMPORTANT



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



CAUTION

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



The exclamation point 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.

IMPORTANT SAFETY INSTRUCTIONS

H003 Er

READ INSTRUCTIONS — All the safety and operating instructions should be read before the product is

- operated. RETAIN INSTRUCTIONS — The safety and operating instructions should be retained for future reference. HEED WARNINGS — All warnings on the product and in the operating instructions should be achieved to. FOLLOW INSTRUCTIONS — All operating and use
- CLEANING Unplug this product from the wall outlet before cleaning. The product should be cleaned only with a polishing cloth or a soft dry cloth. Never clean with furniture wax, benzine insecticides or other
- with furniture wax, benzine, insecticides or other volatile liquids since they may corrode the cabinet. ATTACHMENTS — Do not use attachments not recommended by the product manufacturer as they
- recommended by the product manufacturer as they may cause hazards. WATER AND MOISTURE — Do not use this product
- near water for example, near a bathtub, wash bowl, kitchen sink, or laundry tub; in a wetbasement; or near a swimming pool; and the like.
- ACCESSORES Do not place this product on an unstable acrt, stand, tripod, bracket, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the product. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.
- CART A product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn.



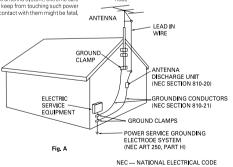
- VENTILATION Stots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should not be placed in a built-initiation is provided or the manufacturer's instructions have been adhered to. **POWERS OURCES** — This product should be operated
- POWER SOURCES This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company.
- LOCATION The appliance should be installed in a stable location. NONUSE PERIODS – The power cord of the appliance
- should be unplugged from the outlet when left unused for a long period of time.

GROUNDING OR POLARIZATION

- If this product is equipped with a polarized alternating currentline plug (a plug having one blade wider than the other), it will finit on the outlet only one way. This is a safety feature, If you are unable to insert the plug indlying the outlet, try every sing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.
- If this product is equipped with a three-wire grounding type plug, ablug having a third (grounding) pin, it will only fit into a grounding type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. Don to defeat the safety purpose of the grounding type plug.
- 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 receptades, and the point where they exit from the product.
 OUTDOOR ATVENNA GROUNDING — If an outside
- OUTDOOR ANTENNA GROUNDING If an outside antenna orable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 Of the National Electrical Code, ANSI/NFPA70, provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in witer to an anterna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, sand requirements for the grounding electrode. See Figure A.
- LIGHTNING For added protection for this product duringalightningstorm, 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 lightning and power-line surges.
- POWER LINES An outside antenna system should not be locate in the vicinity of overhead power lines or other electric light or power circuits, or where it can fail into such power lines or circuits. When installing an outside anterna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

OVERLOADING — Do not overload wall outlets, extension cords, or integral convenience receptacles

- as this can result in a risk of fire or electric shock. **OBJECT AND LIQUID ENTRY** — Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never soill liquid of any kind on the product.
- SERVICING Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
 DAMAGE REQUIRING SERVICE—Unolug this product
- DAMAGE REQUIRING SERVICE— Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:
- When the power-supply cord or plug is damaged.
 If liquid has been spilled, or objects have fallen into
- If the product has been exposed to rain or water.
- If the product rates also received and the initial of white if the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.
- If the product has been dropped or damaged in any way.
- When the product exhibits a distinct change in performance — this indicates a need for service.
 REPLACEMENT PARTS — When replacement parts
- REPLACEMENT PARTS When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.
- SAFETY CHECK Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.
- WALL OR CEILING MOUNTING The product should not be mounted to a wall or ceiling. HEAT — The product should be situated away from heat
- HEAT The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.



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Checking what's in the box

Please check that you've received the following supplied accessories:

- AM loop antenna
- FM wire antenna
- Dry cell batteries x 2 (AA size IFC I R6).
- Remote control
- · These operating instructions

Installing the receiver

Please note the following points:

· Do not place objects directly on top of this unit. This prevents proper heat dispersal.

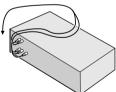
receiver.



· When installing on a rack, shelf, etc., be sure to leave more than 8 inches (20 cm.) of space above the

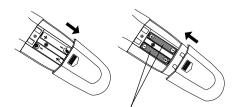
Making cable connections

Make sure not to bend the cables over the top of this unit (as shown in the illustration). If this happens, the magnetic field produced by the transformers in this unit may cause a



humming noise from the speakers.

Loading the batteries



Caution

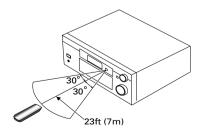
Incorrect use of batteries may result in such hazards as leakage and bursting. Observe the following precautions:

- · Never use new and old batteries together.
- Insert the plus and minus sides of the batteries properly according to the marks in the battery case.
- Batteries with the same shape may have different voltages. Do not use different batteries together.
- When disposing of used batteries, please comply with governmental regulations or environmental public instruction's rules that apply in your country or area.

Operating range of remote control unit

The remote control may not work properly if:

- There are obstacles between the remote control and the receiver's remote sensor.
- Direct sunlight or fluorescent light is shining onto the remote sensor.
- The receiver is located near a device that is emitting infrared rays.
- The receiver is operated simultaneously with another infrared remote control unit.



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Introduction to home theater

You are probably used to using stereo equipment to listen to music, but may not be used to home theater systems that give you many more options (such as surround sound) when listening to soundtracks.

Home theater refers to the use of multiple audio channels to create a surround sound effect, making you feel like you're in the middle of the action or concert. The surround sound you get from a home theater system depends not only on the speakers you have set up in your room, but also on the source and the sound settings of the receiver.

DVD-Video has become the basic source material for home theater due to its size, quality, and ease of use. Depending on the DVD, you can have up to seven different audio channels coming from one disc, all of them being sent to different speakers in your system. This is what creates a surround sound effect and gives you the feeling of 'being there'.

This receiver will automatically decode Dolby Digital, DTS, or Dolby Surround DVD-Video discs, according to your speaker setup. In most cases, you won't have to make changes for realistic surround sound, but other possibilities (like listening to a CD with multichannel surround sound) are explained in *Playing sources*, starting on page 30.

Listening to Surround Sound

This receiver was designed with the easiest possible setup in mind, so with the following quick setup guide, you should have your system hooked up for surround sound in no time at all. In most cases, you can simply leave the receiver in the default settings.

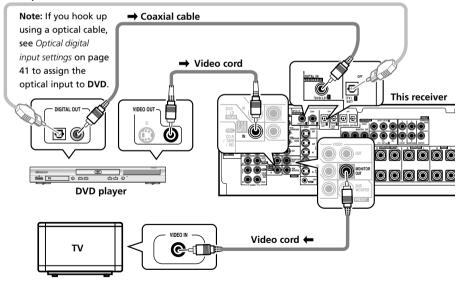
1 Hook up your DVD player.

For surround sound, you'll want to hook up using a digital audio connection from the DVD player to the receiver. You can do this with either a coaxial, or an optical connection (you don't need to do both). If you hook up using an optical cable, you should refer to *Optical digital input setting* on page 41 to assign the optical input to DVD.

Use a video cord to connect the video output on your DVD player to the receiver using the jacks shown below.

2 Hook up your TV.

Use a video cord to connect your receiver to the TV using the jacks as shown below.



→ Optical cable

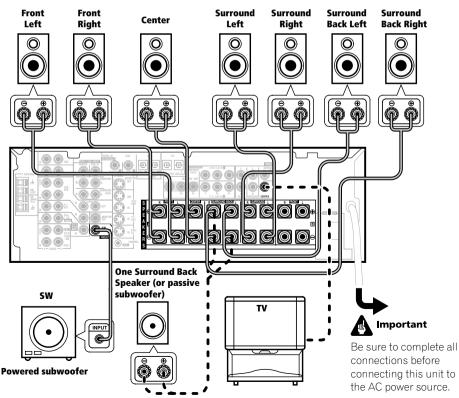
02

A complete setup of eight speakers is shown here (including the subwoofer) but everyone's home setup will vary. Simply connect the speakers you have in the manner shown below. The receiver will work with just two stereo speakers (the front speakers in the diagram) but using at least three speakers is recommended, and a complete setup is best.

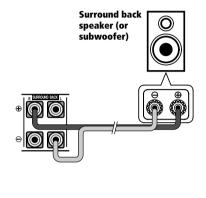
Make sure you connect the speaker on the right to the right terminal and the speaker on the left to the left terminal. Also make sure the positive and negative (+/-) terminals on the receiver match those on the speakers.

🖉 Note

- Use speakers with a nominal impedance of 8 Ω to 16 $\Omega.$
- If you're not using a subwoofer, change the front speaker setting (see *Speaker setting* on page 37) to large
- When using the speaker on your TV as the center speaker (C), connect the **CENTER PREOUT** jack on this unit to the audio input jack on your TV. In this case the center speaker shown is unnecessary.



If you only have one surround back speaker connect as below. You could also use this method for a subwoofer when using the surround back speaker terminal for a passive subwoofer.





- Be sure to complete all connections before connecting this unit to the AC power source.
- If you are using only one surround back speaker, connect the positive wire to the right channel (+) terminal, and the negative wire to the left channel (–) terminal (shown above).

• If you select subwoofer (**SB SUBWF**) in the *Surround back speaker setting* (see page 37) you can hook up a subwoofer instead of speakers to the surround back speaker terminals. Connect the wires just as above, connecting the positive wire to the right channel (+) terminal, and the negative wire to the left channel (-) terminal.

Make sure you've set the video input on your TV to this receiver. Check the manual that came with the TV if you don't know how to do this.

Also make sure that **DVD/LD** is showing in the receiver's display, indicating that the DVD input is selected. If it isn't, press **DVD/LD** on the remote control to set the receiver to the DVD input.

5 Press QUICK SETUP on the front panel to specify your speaker setup and your room size.

Use the **MULTI JOG/INPUT SELECTOR** dial to select and **ENTER** to confirm your selection. See *Using the Quick Setup* on the next page if you're unsure about the settings.

6 Play a DVD, and adjust the volume to your liking.

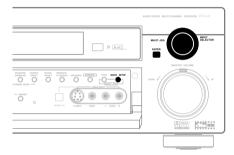
There are several other sound options you can select. See pages 30–31 for more on this. See also *Choosing your receiver setup* on page 36–42 for more setup options.

🖉 Note

Depending on your DVD player or source discs, you may only get digital 2 channel stereo and analog sound. In this case, the listening mode must be set to Standard (it should already be set—see page 32–33 if you need to do this) if you want multichannel surround sound.

Using the Quick Setup

You can use the Quick Setup to get your system up and running with just a few button presses. The receiver automatically makes the necessary settings after you have selected your speaker setup and room size. If you want to make more specific settings, refer to *Choosing your receiver setup* on pages 36–42 Use the front panel controls for the steps below.



1 If the receiver is off, press \odot STANDBY/ ON to turn the power on.

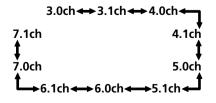
The **STANDBY** indicator goes out.

2 Press QUICK SETUP.

The display prompts you to select your speaker setup.

3 Use the MULTI JOG/INPUT SELECTOR dial to choose your speaker setup.

Cycle between the following choices:





Check the table below to find the speaker setup that corresponds with your system.

	Front Speakers		Surround Speakers	Surround Back Sp.	Sub Woofer
3.0 ch	\checkmark	\checkmark			
3.1 ch	\checkmark	\checkmark			\checkmark
4.0 ch	\checkmark		\checkmark		
4.1 ch	\checkmark		\checkmark		\checkmark
5.0 ch	\checkmark	\checkmark	\checkmark		
5.1 ch	\checkmark	\checkmark	\checkmark		\checkmark
6.0 ch	\checkmark	\checkmark	\checkmark	(1 speaker)	
6.1 ch	\checkmark	\checkmark	\checkmark	(1 speaker)	\checkmark
7.0 ch	\checkmark	\checkmark	\checkmark	(2 speakers)	
7.1 ch	\checkmark	\checkmark	\checkmark	(2 speakers)	\checkmark

4 Press ENTER.

The display prompts you to select your room size.

5 Use the MULTI JOG/INPUT SELECTOR dial to choose your room size.

Depending on the distance of your speakers from the listening position, choose between Small, Medium, or Large (see table below).

	S	Μ	L	
Front	12 ft.	12 ft.	12 ft.	
Center	10 ft.	10 ft.	10 ft.	
Surround	6 ft.	7 ft.	9 ft.	
Surround Back	3 ft.	5 ft.	7 ft.	

6 Press ENTER to confirm your setup.

The display shows the speaker setup and room size that you have selected.

Connecting up

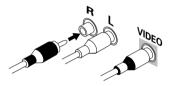
Before making or changing any connections, switch off the power and disconnect the power cord from the AC wall outlet.

Audio/Video cords

Use audio/video cords (not supplied) to connect the audio/video components and a video cord to connect the monitor TV.

Connect red plugs to **R** (right), white plugs to **L** (left), and the yellow plugs to **VIDEO**.

Be sure to insert completely.



S-video cables

Use S-video cables (not supplied) to get clearer picture reproduction than regular video cords.

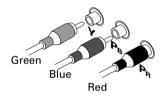
Connect from an S-video jack on the rear of the receiver to an S-video jack on the video component you are hooking up.

Be sure to insert completely.



Component video cords

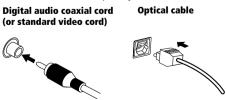
Use component video cords to get the best possible color reproduction of your video source. The color signal of the TV is divided into the luminance (Y) signal and the color (PB and PR) signals and then output. In this way, interference between the signals is avoided. Connect from the component video jacks on the rear of the receiver to the component video jacks on the video component you are hooking up.



Digital audio coaxial cords/ Optical cables

Commercially available digital audio coaxial cords (standard video cords can also be used) or optical cables (not supplied) are used to connect digital components to this receiver.

Be sure to insert completely.



Connecting digital components

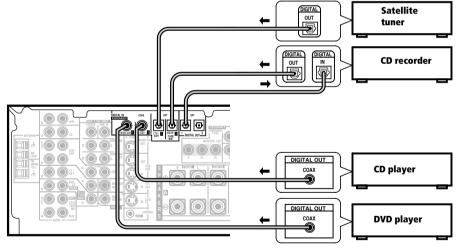
The easiest way to hook up this receiver for surround sound is to use a digital input. You can do this by either coaxial or optical connections (you do not need to do both). The quality of these two types of connections is the same but since some digital components only have one type of digital terminal, it is a matter of matching like with like (for example, the coaxial output from the component to coaxial input on the receiver). The VSX-41 has four digital inputs (two coaxial inputs and two optical inputs). Connect your digital components to the rear panel as shown below. See page 17 to connect the front panel optical input.

There are two digital output jacks which is marked **DIGITAL OUT**. If you connect this to the optical input on a digital recorder (currently these include MD, DAT and CD-R) you can make direct digital recordings with this unit.

When connecting your equipment, always make sure the power is turned off and the power cord is disconnected from the AC wall outlet.



The arrows indicate the direction of the audio signal.



🖉 Note

If you have an LD player, you need to make special connections to ensure you can play **D** RF format LDs on your system. If this is the case, hook up your DVD/LD or LD player directly to an RF demodulator using both the **D** RF output and either a coaxial or optical digital connection. We also recommend hooking up your digital components to analog audio jacks as well. Make sure the RF demodulator digital in switch is set correctly (optical or coaxial depending on the connection). See the component's instruction manual if you are unsure about its input and output jacks.

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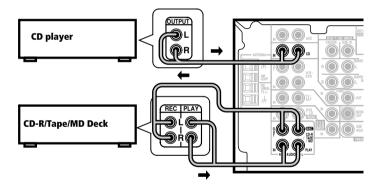
Connecting audio components

To begin set up, connect your analog audio components (such as a cassette deck) to the jacks. For components you want to record with, you need to hook up four plugs to the receiver (a set of stereo inputs and a set of stereo outputs), but for components that only play, you only need to hook up one set of stereo plugs. You must also hook up your digital components to analog audio jacks if you want to record to/from digital components (like an MD) to/from analog components. See the previous page for more on digital connections.

When connecting your equipment, always make sure the power is turned off and the power cord is disconnected from the AC wall outlet.

🖉 Note

The arrows indicate the direction of the audio signal.



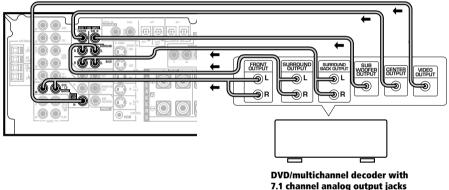
Connecting DVD 7.1 channel components

If you prefer to use a separate component for decoding DVDs, you can connect a decoder or a DVD player with multichannel analog outputs to the multichannel inputs of this receiver.

When connecting your equipment, always make sure the power is turned off and the power cord is disconnected from the AC wall outlet.

🖉 Note

The arrows indicate the direction of the signal.





- The multichannel input can only be used when DVD 7.1 CH is selected (see page 35).
- If the component you are connecting only has one surround back channel output, change the *Surround back channel input setting* (page 40) to **SB 1ch IN**.

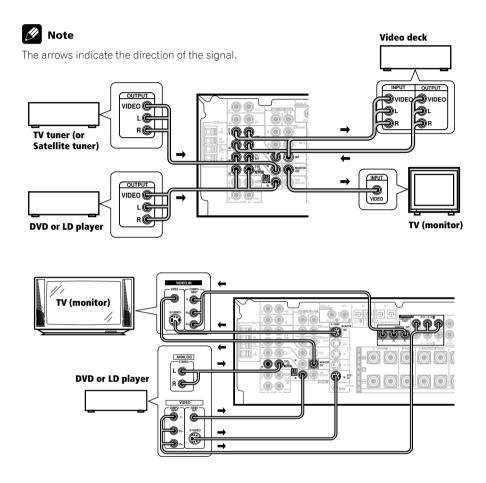
Connecting video components

Connect your video components to the jacks as shown below. With digital video components (like a DVD player), you must use one of the connections shown on the next page for the video signal, but in order to hear a digital source (like a DVD) you should hook up the audio to a digital input (see page 14). It is also a good idea to hook up your digital components with analog audio connections (see page 15).

For better quality video, you can hook up using the component video jacks or the S-video jacks (quality descends in this order) on the rear of the receiver instead of the regular video jacks (see the second illustration of the following page). Make sure they are connected to the video component using the same kind of connection. However, you don't need to make more than one type of video connection.

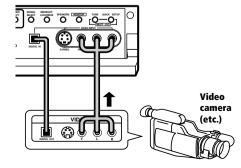
When connecting your equipment, always make sure the power is turned off and the power cord is disconnected from the AC wall outlet.

Connecting up



Connecting to the front panel video terminal

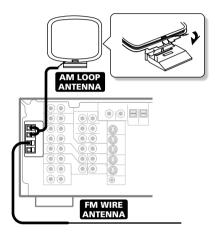
Front video connections are accessed via the front panel input selector as **VIDEO**. There are standard audio/video jacks as well as an S-video jack and an optical input jack. Hook them up the same way you made the rear panel connections.



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Connecting antennas

Connect the AM loop antenna and the FM wire antenna as shown below. To improve reception and sound quality, connect external antennas (see *Using external antennas* below). Always make sure that the receiver is switched off and unplugged from the wall outlet before making or changing any connections.

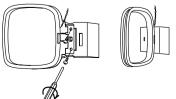


FM wire antenna

Connect the FM wire antenna and fully extend vertically along a window frame or other suitable area, etc.

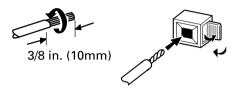
AM loop antenna

Assemble the antenna and connect to the receiver. Attach to a wall, etc. (if desired) and face in the direction that gives the best reception.



Antenna snap connectors

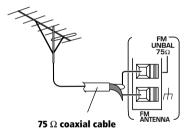
Twist the exposed wire strands together and insert into the hole, then snap the connector shut.



Using external antennas

To improve FM reception

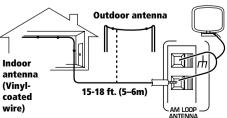
Connect an external FM antenna.



To improve AM reception

Connect a 15-18 feet length of vinyl-coated wire to the AM antenna terminal without disconnecting the supplied AM loop antenna.

For the best possible reception, suspend horizontally outdoors.

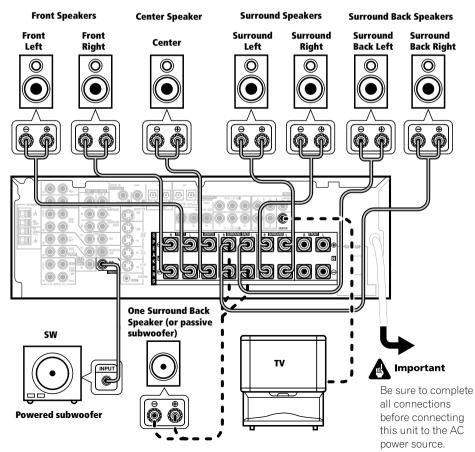


A complete setup of eight speakers (including the subwoofer) is shown below, but everyone's home setup will vary. Simply connect the speakers you have in the manner shown below. The receiver will work with just two stereo speakers (the front speakers in the diagram) but using at least three speakers is recommended, and a complete setup is best for surround sound. If you're not using a subwoofer, change the front speaker setting (see *Speaker setting* on page 37) to large.

Make sure you connect the speaker on the right to the right terminal and the speaker on the left to the left terminal. Also make sure the positive and negative (+/-) terminals on the receiver match those on the speakers.

🖉 Note

Use speakers with a nominal impedance of 8 Ω to 16 $\Omega.$



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Connecting up

Note

unnecessary.

20

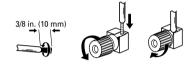
En

Speaker terminals

1 Twist exposed wire strands together.

terminal (see illustration on page 10).

- 2 Loosen speaker terminal and insert exposed wire.
- 3 Tighten terminal.



The speaker terminals also accept single banana plugs. (Refer to speaker manual for details.)



Caution

Make sure that all the bare speaker wire is twisted together and inserted fully into the speaker terminal. If any of the bare speaker wire touches the back panel it may cause the power to cut off as a safety measure. Use good quality speaker wire to connect the speakers to the receiver.

 When using the speaker on your TV as the center speaker (C), connect the CENTER PREOUT jack on this unit to the audio input jack on your TV. In this case the center speaker shown is

If you are using only one surround back speaker, connect the positive wire to the right channel (+) terminal, and the negative wire to the left channel (-) terminal (see illustration on page 10).
If you select subwoofer (SB SUBWF) in the Surround back speaker setting (see page 37) you can hook up a subwoofer instead of speakers to the surround back speaker terminals. Connect the positive wire to the right channel (+) terminal, and the negative wire to the left channel (-)

A and B speaker systems

The receiver has two speaker systems: A and B. A is the main system supporting the full speaker setup. If you switch on both A and B speaker systems, only the front speakers and the subwoofer will be audible. No sound will come from the center, surround, or surround back speakers, but multichannel sources will be down-mixed to the active speakers so no sound will be lost. Similarly, if you choose just the B system you'll only hear the front speakers connected to the B system and multi channel sources will be down-mixed to these two speakers.

Hints on speaker placement

Speakers are usually designed with a particular placement in mind. Some are designed to be floorstanding, while others should be placed on stands to sound their best. Some should be placed near a wall; others should be placed away from walls. We have provided a few tips on getting the best sound from your speakers (below), but you should also follow the guidelines on placement that the speaker manufacturer provided with your particular speakers to get the most out of them.

- Place the front left and right speakers at equal distances from the TV.
- When placing speakers near the TV, we recommend using magnetically shielded speakers to prevent possible interference, such as discoloration of the picture when the TV is switched on. If you do not have magnetically shielded speakers and notice discoloration of the TV picture, move the speakers farther away from the TV.

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Connecting up

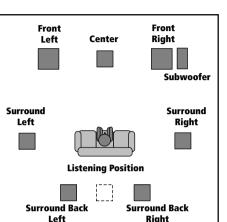
 Place the center speaker above or below the TV so that the sound of the center channel is localized at the TV screen.

Caution

If you choose to install the center speaker on top of the TV, be sure to secure it with putty, or by other suitable means, to reduce the risk of damage or injury resulting from the speaker falling from the TV in the event of external shocks such as earthquakes.

- If possible, place the surround speakers slightly above ear level.
- Try not to place the surround speakers further away from the listening position than the front and center speakers. Doing so can weaken the surround sound effect.
- To achieve the best possible surround sound, install your speakers as shown below. Be sure all speakers are installed securely to prevent accidents and improve sound quality.

Overhead view of speaker set up



3-D view of speaker set up

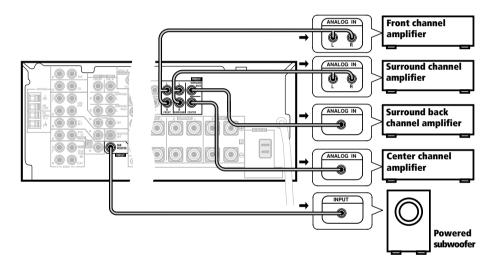


Connecting additional amplifiers

This receiver has more than sufficient power for any home use, however it is possible to add additional amplifiers to every channel. Make the connections shown below to add amplifiers to power your speakers. Always make sure that the receiver is switched off and unplugged from the wall outlet before making or changing any connections.



The arrows indicate the direction of the audio signal.





- To hear sound only from the pre-outs, disconnect any speakers that are connected directly to the receiver.
- If you're not using a subwoofer, change the front speaker setting (see *Speaker setting* on page 37) to large.

[switched 100 W (0.8 A) max]

Power supplied through this outlet is turned on and off by the receiver's **POWER** switch. Total electrical power consumption of connected equipment should not exceed 100 W (0.8 A).



DO NOT CONNECT A MONITOR, TV SET, HEATER, OR SIMILAR APPLIANCE TO THIS UNIT'S AC WALL OUTLET.

Do not connect appliances with high power consumption to the **AC WALL OUTLET** in order to avoid overheating and fire risk. This can also cause the receiver to malfunction.

💋 Note

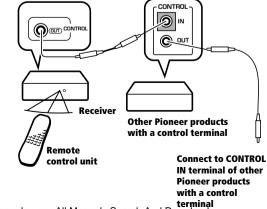
- Make sure no exposed speaker wire is touching the rear panel, this may cause the receiver to turn off automatically.
- This unit should be disconnected by removing the power plug from the wall socket when not in regular use (ex. when on vacation).

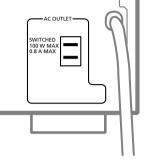
POWER-CORD CAUTION

Handle the power cord by the plug. Do not pull out the plug by tugging the cord and never touch the power cord when your hands are wet as this could cause a short circuit or an electric shock. Do not place the unit, a piece of furniture, etc., on the power cord, or pinch the cord. Never make a knot in the cord or tie it with other cords. The power cords should be routed such that they are not likely to be stepped on. A damaged power cord can cause a fire or give you an electrical shock. Check the power cord once in a while. When you find it damaged, ask your nearest Pioneer authorized service center or your dealer for a replacement.

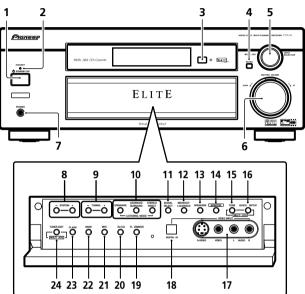
Operating other Pioneer components

By connecting a control cord (optional), you can point the remote controls of other Pioneer components at the receiver's remote sensor. The remote control signals are received by the remote sensor of this unit, and sent to the other devices via the **CONTROL OUT** terminal.





Front panel



1 ⁽⁾ STANDBY/ON

Switches the receiver between on and standby.

2 STANDBY indicator

Lights when the receiver is in standby.

3 Remote sensor

Receives the signals from the remote control.

4 ENTER button

5 MULTI JOG/INPUT SELECTOR dial The MULTI JOG/INPUT SELECTOR dial performs a number of tasks. Use it to select options after pressing TONE CONTROL, QUICK

SETUP or TUNER EDIT.

6 MASTER VOLUME

7 PHONES jack

Use to connect headphones. When the headphones are connected, there is no sound output from the speakers.

8 **STATION (+/–) buttons** (pages 44–45) Selects station presets or characters for those presets when using the tuner.

9 TUNING buttons (page 43)

Selects the frequency when using the tuner.

10 LISTENING MODE buttons

STANDARD (pages 30, 32,33) Press for Standard decoding and to switch between the various Pro Logic II options.

ADVANCED SURROUND (pages 31, 33)

Use to switch between the various surround modes.

STEREO/DIRECT (pages 30, 33) Switches direct playback on or off. This bypasses the tone controls and channel levels for the most accurate reproduction of a source.

11 SIGNAL SELECT (pages 32, 35, 46) Use to select an input signal.

12 MIDNIGHT/LOUDNESS (page 33) Use Midnight when listening to movie soundtracks at low volume. Use Loudness to boost the bass and treble at low volume

13 SPEAKERS

Use to cycle through the speaker system: $\mathbf{A} \rightarrow \mathbf{B} \rightarrow \mathbf{A} + \mathbf{B}$

14 MONITOR

Press to switch tape monitoring on/off.

15 TONE

Press this button to access the bass and treble controls, which you can then adjust with the **MULTI JOG/INPUT SELECTOR dial**.

- 16 QUICK SETUP
- 17 VIDEO INPUT (page 17)
- 18 DIGITAL IN (page 17)

19 FL DIMMER

Use this button to make the fluorescent display (FL) dimmer or brighter.

20 Re-EQ (page 41)

This feature compensates for the effect of reproducing sounds that have been originally processed for a large movie theater in a smaller room.

21 MPX (page 43)

Press to receive a radio broadcast in mono.

22 BAND (page 43)

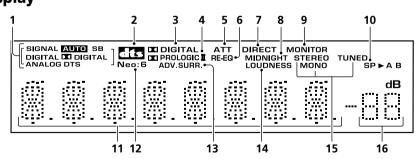
Switches between AM and FM radio bands.

23 CLASS (pages 44-45)

Switches between the three banks (classes) of station presets.

24 TUNER EDIT (pages 44-45)

Press to memorize and name a station for recall using the **STATION +/-** buttons or the **MULTI JOG/INPUT SELECTOR dial.**



1 SIGNAL SELECT indicators

Lights to indicate the type of input signal assigned for the current component:

AUTO

Lights when AUTO signal select is on

SB

Depending on the source, this lights when a signal with surround back channel encoding is detected.

DIGITAL

Lights when a digital audio signal is detected.

Display

DI DIGITAL

Lights when a Dolby Digital signal is detected.

ANALOG

Lights when an analog signal is detected.

DTS

Lights when a source with DTS audio signals is detected.

2 DTS

When the Standard mode of the receiver is on, this lights to indicate decoding of a DTS signal.

3 DI DIGITAL

When the Standard mode of the receiver is on, this lights to indicate decoding of a Dolby Digital signal.

4 DD PRO LOGIC II

When the Standard mode of the receiver is on, this lights to indicate Pro Logic II decoding.

5 ATT

Lights when INPUT ATT is used to attenuate (reduce) the level of the analog input signal.

6 RE-EQ:

Lights when Re-Equalization is swiched on. This feature evens out the soudn for smaller rooms.

7 DIRECT

Lights when source direct playback is in use. This function bypasses all tone, balance, Advanced Surround, and Dolby Surround effects.

8 MIDNIGHT

Lights during Midnight listening.

9 MONITOR

Lights when **MONITOR** is selected (page 46).

10 Speaker indicator

Shows the speaker system currently in use.

11 Character display

12 Neo:6

Lights during NEO:6 processing

13 ADV. SURR (Advanced Surround)

Lights when one of the Advanced Surround modes has been selected.

14 LOUDNESS

Lights when LOUDNESS has been selected.

15 TUNER indicators

STEREO:

Lights when a stereo FM broadcast is being received in auto stereo mode.

MONO:

Lights when the mono mode is set using the **MPX** button.

TUNED:

Lights when a broadcast is being received.

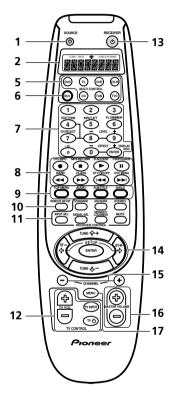
16 Master volume level

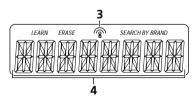
Shows the overall volume level. ---dB indicates the minimum level, and -OdB indicates the maximum level.

Depending on your level settings for each channel, the maximum level can range between -10dB and -0dB.



Remote control





1 SOURCE

Press to turn on/off other components connected to the receiver.

2 LCD Screen

This screen displays the mode the receiver is in, commands sent, etc.

3 Transmit icon

Blinks to indicate the remote is transmitting control signals.

4 CHARACTER display (LCD)

Shows function modes and other information.

SETUP

Indicates that the remote is in Setup mode so that new information (preset codes, learning, etc.) can be input (see pages 47–51).

DIR SET

Indicates that the remote is in Direct Setup mode so you can put it in **DIRECT FUNCTION** (see pages 47–51).

BRAND

Indicates that the remote is in preset code Search by Brand mode to find the preset codes for your components by brand (see page 49).

SEARCH

Indicates that the remote is in Preset Code Search mode to find the preset codes for your components (see page 48).

LEARN

Indicates that the remote is in Learning mode and ready to learn signals from other remote controls (see page 49).

ERASE

Indicates that the remote is in Erase mode so that you can erase one or more learned buttons. (see page 50).

RESET

Indicates that the remote is in Reset mode so that you can return it to default settings (see page 50).

READ ID

Indicates that the remote is in Read ID mode so that you can check the preset codes (see page 51).

5 MULTI CONTROL buttons

Press to select control of other components (see *Controlling the Rest of Your System* on pages 47–51).

6 RCV

Switches the remote to controls the receiver (used to select the features above the number buttons. (ex. **INPUT ATT, FL. DIMMER**)). Also use this button to set up surround sound (pages 36, 42).

7 Number buttons/Receiver controls/ ENTER

Use the number buttons to directly select a radio frequency (page 43) or the tracks on a CD, DVD, etc.

DISPLAY/ DISC (ENTER)

The button's use depends on the component selected. It can be used to switch the display between the station preset name and the frequency for the tuner, enter commands for TV or DTV, and can also be used to select a disc in a multi-CD player.

Receiver Controls

Press the **RCV** button first to access the functions above the number buttons. The display flashes when it isn't possible to use a function.

TEST TONE (page 42)

Sounds the test tone when setting up the surround sound of the receiver.

INPUT ATT

Attenuates (lowers) the level of an analog input signal to prevent distortion (when the overload indicator lights).

FL DIMMER

Dims or brightens the display.

CH SELECT (page 42)

Selects a speaker when setting up the surround sound of the receiver.

LEVEL +/- (page 42)

Adjusts the levels of the surround sound of the receiver.

EFFECT +/- buttons (page 33)

Adds or subtracts the amount of effect with different advanced listening modes (except 5 or 6 Ch Stereo and Virtual SB).

8 Component/Tuner controls

The main buttons (▶, ■, etc.) are used to control a component after you have selected it using the **MULTI CONTROL** buttons. The tuner/ DTV controls above these buttons can be accessed after you have selected the corresponding **MULTI CONTROL** button (**TUNER** or **DVD** (when connected to DTV)).

DTV INFO

Use to bring up information screens on a digital TV.

MPX/RETURN (page 43)

Switches between stereo and mono reception of FM broadcasts. If the signal is weak then switching to mono will improve the sound quality. Also acts as a stop button for CDs, tapes, or DVDs.

D. ACCESS (page 43)

After pressing, you can access a radio station directly using the number buttons.

T. EDIT/GUIDE (pages 44–45) Press to memorize and name a station for recall using the **STATION +/–** buttons or the **MULTI JOG/ INPUT SELECTOR** dial. Also displays the guides on a digital TV.

BAND (page 43) Switches between the tuner AM and FM bands.

CLASS (pages 44–45) Switches between the three banks (classes) of radio station presets.

DTV ON/OFF

Switches a digital TV on/off.

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DTV MENU

Displays menus on a digital TV.

9 DVD controls (Press DVD first to access)

These controls will also function as DTV controls, depending on the component you've selected.

TOP MENU

Displays the disc 'top' menu of a DVD.

AUDIO

Changes the audio language or channel.

SUBTITLE

Displays/changes the subtitles included in multilingual DVD-Video discs.

ANGLE

Switches camera angles on discs with multi-angle scenes.

10 **REMOTE SETUP** (pages 47–51)

Press this button to set up the remote control to control other components.

11 RECEIVER CONTROL buttons

STANDARD (pages 30, 32–33) Press to switch between the various Dolby/ DTS modes

ADV. SURR. (pages 31, 33) Use to switch between the various surround modes.

STEREO (pages 30, 33) Switches direct playback on or off. This bypasses the tone controls and channel levels for the most accurate reproduction of a source.

INPUT SELECT Use to select the input source.

SIGNAL SELECT (pages 32, 35, 46) Use to select an input signal.

MIDNIGHT/LOUDNESS (page 33)

Switches to Midnight or Loudness listening.

MUTE

Mutes the sound (or restores the sound if it has been muted).

12 TV control buttons

These buttons can only be used to control your TV.

TV VOLUME +/-Use to adjust the volume on your TV.

TV INPUT Use select the TV function.

TV 🖱

Use to turn on/off the power of the TV.

13 RECEIVER 🖱

This switches between standby and on for this receiver.

14 ⇔⇒↓↑ (TUNE/ST +/–) /ENTER

Use the arrow buttons when setting up your surround sound system (see pages 36–41). Also used to control DVD menus/options and for deck 1 of a double cassette deck player. Use the **TUNE +/-** buttons to find radio frequencies and use **ST +/-** to find and name preset stations (page 43–45).

15 CHANNEL +/-

Select radio station presets. Also skip tracks backward or forward on CDs, DVDs, etc.

16 MASTER VOLUME +/-

Use to set the listening volume.

17 MENU button

Displays the disc menu of DVD-Video discs. It also displays TV and DTV menus.

Introduction to Sound Modes

There are three basic sound options: Stereo/ Direct, Standard or Advanced Surround.

Stereo/Direct

When you select **STEREO** or **DIRECT**, you will hear the source through just the front left and right speakers (and possibly your subwoofer depending on your speaker settings). Dolby Digital and DTS multichannel sources are downmixed to stereo.

In **STEREO**, you'll hear the audio with your surround settings and you can still use the Midnight, Loudness, and Tone control functions.

With **DIRECT**, you will bypass all effects and surround settings so that the audio remains as close to the source audio signal as possible.

Note

If you switch on Midnight listening, Loudness, or the Tone controls when DIRECT is selected, the receiver automatically switches to STEREO.

Standard mode

The standard mode can be used to decode Dolby Digital, DTS, or Dolby Surround sources. The other surround sound options (next column) can add multichannel sound to regular stereo sources. If you play a Dolby Digital or DTS source the receiver will change to that mode automatically.

You can identify Dolby Digital software by the **Minister** or **Minister** marks. Most Dolby Surround software is marked **Minister**, but unmarked software may also incorporate Dolby Surround. Depending on the source, the *6.1 channel setting* (page 38), and the sound mode you have selected, you may not get sound from the surround back speakers in your setup. For more on this, refer to the table on the next page. Choose one of the following to add depth to a 2 channel source:

Pro Logic

This mode gives 4.1 channel surround sound. It is less sensitive to the quality of the source material, so may be useful when Pro Logic II Movie/ Music modes don't give good results.

Pro Logic II Movie

This mode gives 5.1 channel surround sound. It is suitable for movies, especially those recorded in Dolby Surround. The channel separation and movement of surround effects is comparable to Dolby Digital 5.1.

Pro Logic II Music

This mode gives 5.1 channel surround sound and is suitable for music. The surround effect is more enveloping than Pro Logic II Movie.

Neo:6 Cinema

This mode gives 6.1 channel surround sound and is suitable for movies. The Neo:6 Cinema mode delivers good channel separation for movie soundtracks.

Neo:6 Music

This mode gives 6.1 channel surround sound and is suitable for music. The Neo:6 Music mode plays the stereo source as is through the front left/right speakers, and generates a natural, ambient surround and center sound. These are designed to be used with multichannel surround sound audio/video sources (like DVDs and LDs). Most Advanced Surround modes are designed to be used with film soundtracks, but some modes are also suited for music sources. Try different settings with various soundtracks to see which you like.

🖉 Note

Depending on the source, the 6.1 channel setting (page 40), and the sound mode you have selected, you may not get sound from the surround back speakers in your setup. For more on this, refer to the table below.

Movie

Simulates the relaxed environment of a movie theater, and is suitable for watching movies.

Music

Simulates the acoustic environment of a large concert hall and is suitable for music or musical sources.

Virtual Surround Back (VIRTL SB)

The Virtual Surround Back effect simulates 7.1 surround channel listening (like Dolby Digital Surround EX or DTS–EX), giving the impression that there are two surround back speakers in your system when listening to a 5.1 channel source.

Expanded

This mode is especially designed to give sound depth to stereo sources, and lets you hear twochannel (stereo) signals as simulated multichannel surround sound. Use with Dolby Pro Logic for a stereo surround effect. You can also use with Dolby Digital sources for a wider stereo field than the Standard modes.

6-Channel Stereo

This can be selected to give multichannel sound to a stereo source, using all of the speakers in your setup.

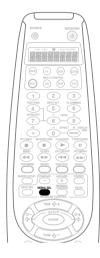
Type of source	6.1 ch. setting	Standard	Advanced Movie/Music	Virtual SB	Expanded	6 Ch. Stereo
DTS-ES/Dolby Digital Surround EX encoded	Auto	\checkmark			\checkmark	\checkmark
multi-channel sources with 6.1 surround	Fix	\checkmark			\checkmark	
Dolby Digital/DTS encoded multi-channel	Auto					
sources with stereo surround	Fix	\checkmark				
Dolby Digital/DTS encoded multi-channel	Auto					\checkmark
sources with mono surround, Stereo sources	Fix					
Analog 2-channel (stereo) source	Auto					
	Fix					

🖉 Note

- See the 6.1 channel setting on page 40 to select between AUTO or FIX.

Choosing the input signal

You need to hook up a component to both analog and digital inputs on the rear of the receiver to select between input signals.



• Press **SIGNAL SEL** (**SIGNAL SELECT**) to select the input signal corresponding to the source component.

Each press switches between AUTO, DVD 7.1ch, ANALOG and DIGITAL. The default is AUTO.

DVD 7.1ch will only appear when **DVD/LD** is selected using the remote or the **MULTI JOG/ INPUT SELECTOR** dial on the front panel.

When set to **DIGITAL**, **DI DIGITAL** lights when a Dolby Digital signal is input, and **DTS** lights when a DTS signal is input.



• This receiver can only play back Dolby Digital, PCM (32kHz, 44kHz, 48kHz, and 96 kHz) and DTS digital signal formats. With other digital signal formats, set to **ANALOG**. • You may get digital noise when a LD or CD player compatible with DTS is playing an analog signal. To prevent noise, make the proper digital connections (page 14) and set the signal input to **DIGITAL**.

• Some DVD players don't output DTS signals. For more details, refer to the instruction manual supplied with your DVD player.

Listening to multichannel playback

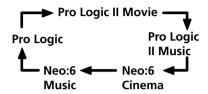


1 Switch on the playback component.

2 Select the source you want to playback. Use the MULTI CONTROL buttons on the remote (or MULTI JOG/INPUT SELECTOR dial on the front panel).

3 Press STANDARD.

If the source is Dolby Digital, DTS, or Dolby Surround encoded, the proper decoding format will automatically be selected and shows in the display. If you are listening to a two channel source, each press changes the display as follows:



Refer to page 30 for more details about each mode.

4 Start playback of the component you selected in step 1.

Using Stereo/Direct

When you select STEREO or DIRECT, you will hear the source through just the front left and right speakers (and possibly your subwoofer depending on your speaker settings). Dolby Digital and DTS multichannel sources are downmixed to stereo. See page 30 for more on these modes.

Press STEREO (STEREO/DIRECT on the front panel) repeatedly to switch between the two options.



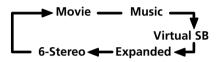
If you switch on Midnight listening, Loudness, or the Tone controls when DIRECT is selected, the receiver automatically switches to STEREO.

Using Advanced Surround

When you select one of the Advanced surround options, Dolby Pro Logic, Dolby Digital and DTS decoding is done automatically corresponding to the input signal. Use Advanced surround to add effects to the surround sound.

Press ADV.SURR. (ADVANCED SUR-ROUND) repeatedly to cycle the sound options.

Fach press changes the display as follows:



Refer to page 31 for more details about each surround effect.



Note

The Advanced surround effects can be adjusted in the range of 10 to 90 (the default setting is 70) by pressing **RCV** then pressing EFFECT +/-. The effect level can be set for each Advanced surround mode. The Standard mode cannot be changed.

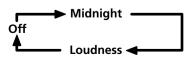
Using Loudness and Midnight listening

The Loudness listening feature can be used to get good bass and treble from music sources at low volume levels.

The Midnight listening feature allows you to hear effective surround sound of movies at low volume levels. The effect automatically adjusts according to the volume at which you're listenina.

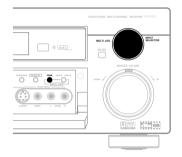
Press MIDNIGHT/LOUDNESS.

Each press cycles through the effects as follows:



Using the tone controls

Depending on what you are listening to, you may want to adjust the bass or treble using the front panel tone control.



1 Press TONE to select the frequency you want to adjust.

Each press switches between **BASS** and **TREBLE**.

2 Use the MULTI JOG/INPUT SELECTOR dial to change the amount of bass or treble as necessary.

Wait about five seconds for your changes to be input automatically.

Playing other sources



1 Turn on the power of the playback component.

2 Turn on the power of the receiver.

3 Select the source you want to playback. Use the MULTI CONTROL buttons on the remote (or MULTI JOG/INPUT SELECTOR dial on the front panel).

4 Start playback of the component you selected in step 1.

Selecting the multichannel analog inputs

If you have connected a decoder or a DVD player with multichannel analog outputs to this receiver (page 16), you must select the analog multichannel inputs for surround sound playback.

Playing sources



1 Press DVD or select it with the MULTI JOG/INPUT SELECTOR dial (front panel).

2 Press SIGNAL SEL (SIGNAL SELECT) repeatedly to select DVD 7.1ch.

To cancel playback from the multichannel inputs, use the **SIGNAL SEL (SIGNAL SELECT**) button to select a different input signal.

🖉 Note

• When playback from the multichannel inputs is selected, you can't use the **SPEAKER**, **INPUT ATT**, **TONE**, and **MIDNIGHT/LOUDNESS** buttons, as well as the Standard, Advanced Surround, and Stereo/Direct sound modes.

• When playback from the multichannel inputs is selected, only the volume and channel levels can be set.

Using Re-Equalization

Re-equalization compensates for the effect of reproducing sounds in a smaller room that have been originally processed for a large movie theatre that can handle lots of high frequencies. Both the front and the center channels were originally mixed to give normal sound behind a heavy projection screen, and might sound unnaturally bright with a home theater setup. Use the Re-equalization feature to even out the sound if you feel that movie soundtracks are sounding slightly harsh.

• Press the Re-EQ button on the front panel.

The receiver automatically switches to Standard mode and Re-equalization is applied. Press Re-EQ again to switch Re-equalization off.

🖉 Note

• You can't use the **NEO:6 Music** and **Pro Logic II Music** modes when Re-equalization is on.

• If **STEREO** or one of the **Advanced Surround** modes is selected, Re-equalization is automatically cancelled. Selecting speaker system B will also cancel Reequalization.

• Re-equalization is not applied to the headphone mix.

Choosing your receiver setup

To ensure the best possible surround sound, be sure to complete the following set up operations. This is particularly important when using Dolby surround. You only need to make these settings once (unless you change the placement of your current speaker system or add new speakers, etc.). Refer to the following pages for details on each of the settings.



1 Press ${}^{\circlearrowright}$ RECEIVER to turn the power on.

The **STANDBY** indicator goes out.

2 Press RCV.

3 Use \Leftrightarrow or \Rightarrow to choose the option you want to adjust.

It will be easiest to adjust each of the settings in turn, following the order below (and on the following pages). The current setting is shown for each option as you cycle through the display.

Speaker setting (page 37)

Specify the number and type of speakers you have connected.

Surround back speaker setting (page 37)

Specify your surround back speaker/ surround back subwoofer setup.

6.1 channel setting (page 38) Set when 6.1 channel decoding is used.

Subwoofer setting (page 38) Specify how the subwoofer is used.

Crossover frequency setting (page 38) Determine which frequencies will be sent to the subwoofer (or large speakers).

LFE attenuator setting (page 39) Specify the peak level for the LFE channel.

Front speaker distance setting (page 39)

Specify the distance from your listening position to your front speakers.

Center speaker distance setting (page 39)

Specifies the distance from your listening position to your center speaker.

Surround speaker distance setting (page 39)

Specify the distance from your listening position to your surround speakers.

Surround back speaker distance setting (page 39)

Specifies the distance from your listening position to your surround back speakers.

Dynamic range control setting (page 40)

Compress the dynamic range of the sound track.

Dual mono setting (page 40)

Isolate one channel when listening to discs with dual mono encoding.

Setting up the receiver

Component video input setting (page 40)

Specify the components to be assigned to the component video inputs (below).

- Component video 1 input setting
- Component video 2 input setting

Surround back channel input setting

(page 40)

Specify the number of surround back inputs you have connected.

Digital input settings (page 41)

Specify the components to be assigned to the video and digital inputs (below).

- Coaxial digital input 1 setting
- Coaxial digital input 2 setting
- Optical digital input 1 setting
- Optical digital input 2 setting
- 4 Use \uparrow or \downarrow to adjust the setting.

The setting is entered automatically.

5 Repeat steps 3 and 4 to set other surround modes.

6 When you're done, press ENTER to exit.



The setting display is automatically exited after 20 seconds of inactivity.

Speaker setting

• Default setting: S (all speakers)

You must let the receiver know how many speakers you have, and how big they are. The size you choose (large or small) determines how much bass is sent from the receiver to the speakers.

In the display, **F**, **C**, and **S** refer to front, center, and surround speakers respectively. Speaker size is denoted as **L** for large speakers, **S** for small speakers, and **X** (asterisk) if no speaker is connected.



• If the cone size (diameter) of the speaker is larger than 5 inches, set the speaker size to L.

• If you're not using a subwoofer, we recommend setting the front speakers to **L**.

• Cycle through the available choices using $\, {\ensuremath{\widehat{}}}$ or $\, {\ensuremath{\mathbb{J}}}$ and choose a configuration that matches your speaker setup.

One of the following configurations should match your setup:

FS-C	s-ss 🛶
FL-C*-SS	FS-CS-S*
FL-C*-SL	FS-C≭-SS
♥ FL-CS-S*	FL-CL-SL
FL-CS-SS	FL-CL-SS
FL-CS-SL	₹ FL-CL-S#

Surround back speaker setting

• Default setting: S

You must let the receiver know if surround back speaker(s) have been connected, and how big they are. The size you choose (large or small) determines how much bass is sent from the receiver to the speakers. If you have connected a surround back subwoofer, you should select the surround back subwoofer setting (SB SUBWF) from the options. Choose ***** (asterisk) if no speaker is connected.

• Use î or ↓ to select SB L, SB S, SB¥ or SB SUBWF.

6.1 channel setting

Default setting: 6.1 FIX

You can have the receiver automatically switch to Dolby Digital Surround EX or DTS-ES decoding for 6.1 encoded sources (**6.1 AUTO**), or you can choose to listen to other kinds of sources (for example, 5.1 encoded material) with 6.1 encoding (**6.1 FIX**). With 5.1 encoded sources, a surround back channel will be generated, but the material may sound better in the 5.1 format for which it was originally encoded.

• Use ${\bf \uparrow}$ or ${\bf \downarrow}$ to select 6.1 FIX or 6.1 AUTO.

- 🖉 Note
- If you chose **SB*** in Surround back speaker setting (above), you can't set the 6.1 channel setting and ******* shows in the display.
- Refer to the table on page 31 to see how the *6.1 channel setting* affects sound output from the surround back speakers.

Subwoofer setting

• Default setting: ON

You can choose whether the subwoofer is used or not. Use the plus (**PLS**) setting for extra bass.

• Use ${\bf \widehat{1}}$ or ${\bf \widehat{1}}$ to select subwoofer ON, PLS or OFF.

🖉 Note

• If you chose the small front speaker setting, SUBWF ON is automatically set and locked.

• When you select the plus setting, you will get the bass sounds from the subwoofer even if the front speakers are set to **L**.

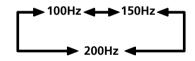
Crossover frequency setting

• Default setting: 100 Hz

Crossover frequency is the point where the receiver divides the high and low sounds (the frequencies) between the speakers. Since most smaller speakers can't handle deep bass tones, you can send these sounds to the subwoofer (or if you don't have a subwoofer, the large (L) speakers in your system) instead of the speakers set to small (S) in your setup. Choose the point at which you want the frequency routed to the subwoofer (or L speakers).

We recommend setting this to 200 Hz if your **S** speakers are smaller bookshelf-type speakers.

• Use \Uparrow or \Downarrow to specify the crossover frequency for your small speakers (100 Hz, 150 Hz or 200 Hz).



100 Hz

Sends bass frequencies below 100 Hz to the subwoofer (or **L** speakers).

150 Hz

Sends bass frequencies below 150 Hz to the subwoofer (or **L** speakers).

200 Hz

Sends bass frequencies below 200 Hz to the subwoofer (or **L** speakers).



If all speakers (front, center, and surround) are set to L, the crossover frequency can't be set because there are no S speakers (******* appears in the display).

06

Setting up the receiver

LFE attenuator setting

Default setting: **0 dB**

Dolby Digital and DTS audio sources include ultra-low bass tones. Set the LFE attenuator as necessary to prevent the ultra-low bass tones from distorting the sound from the speakers.

Use î or ↓ to set the attenuation level (0 dB, 10 dB or ****** dB(∞)).



🖉 Note

When ∞ is selected (****** appears in the display), LFE is not available.

Front speaker distance setting

• Default setting: 10 ft.

Sets the distance from the front speakers to the listening position.

• Use $\hat{\uparrow}$ or \mathbb{Q} to set the distance of the front speakers from the main listening position (within a 30 foot range).

Center speaker distance setting

Default setting: 10 ft.

The center speaker is normally placed directly in the front of the listening room and closer to the listening position than the front speakers. This means that the sound from the center speaker will be heard before the front speakers. To prevent this, set the center speaker distance setting to delay the sound from the center speaker so that the sound from the front and center speakers will be heard at the same time.

• Use \uparrow or \Downarrow to set the distance of the center speaker from the main listening position (within a 30 foot range).

🖉 Note

When **C*** is selected in the speaker setting, the center speaker distance can't be set.

Surround speaker distance setting

• Default setting: 10 ft.

Like the center speaker, you should set the distance of the surround speakers accurately to hear sounds coming from both front and surround speakers at the same time.

• Use $\hat{1}$ or \mathbb{Q} to set the distance of the surround speakers from the main listening position (within a 30 foot range).

🖉 Note

When **S*** is selected in the speaker setting, the surround speaker distance can't be set.

Surround back speaker distance setting

• Default setting: 10 ft.

Like the center speaker, you should set the distance of the surround speakers accurately to hear sounds coming from both front and surround speakers at the same time.

• Use $\widehat{1}$ or \mathbb{Q} to set the distance of the surround speakers from the main listening position (within a 30 foot range).

💋 Note

When **SB*** is selected in the surround speaker setting, the surround back speaker distance can't be set.

Setting up the receiver

Dynamic range control setting

• Default setting: OFF

Dynamic range is the difference between the loudest and softest sounds in any given signal. With this setting, you can compress the dynamic range, so that low level sounds can be heard more easily (sounding relatively louder) yet louder sounds won't be too overbearing.

• Press $\hat{\uparrow}$ or \mathbb{J} to set the dynamic range control (OFF, MAX, or MID).



• When the volume level is increased, set to **OFF**.

• When listening at low volumes, set to **MAX** for maximum dynamic range compression.

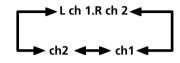
• Dynamic range control is effective only when a Dolby Digital signal is being played back.

Dual mono setting

• Default setting: ch1

The dual mono setting can only be used when listening to Dolby Digital discs with dual mono encoding. These discs are not widely used, but are sometimes used when it is necessary to have one language on one channel and a different language on the other. With this setting you can choose which channel in the dual mono setting you want to listen to.

You will hear the channel you have selected (either **ch1** or **ch2**) through your center speaker. If you don't have a center speaker, you will hear the channel you have selected through both front speakers. In the **L ch 1. R ch 2** setting, the left front speaker will play channel 1 and the right front speaker will play channel 2. • Use \Uparrow or \Downarrow to cycle through the possible dual mono settings.



Component video input settings

Here you tell the receiver what components you have hooked up to the component video jacks on the back of the receiver.

Component video 1:

Default settings: DVD

1 Use ☆ or ↓ to assign the component video 1 input (DVD, TV, VCR or OFF).

Component video 2:

• Default setting: TV

2 Use ☆ or ∜ to assign the component video 2 input (DVD, TV, VCR or OFF).

Surround back channel input setting

Default setting: SB 2ch IN

You only have to make this setting if you are using a separate component for decoding DVDs, and the component has only one surround back channel output. If this is the case, select **SB 1ch IN**, otherwise leave it set to **SB 2ch IN**.

 Use
 [↑] or
 [↓] to select SB 2ch IN or SB 1ch IN.

06

Coaxial digital input settings

Here you tell the receiver what components you have hooked up to the coaxial **DIGITAL IN** jacks 1 and 2 on the back of the receiver.

Coaxial digital 1:

Default settings: DVD/LD

1 Use ☆ or ↓ to assign the coaxial digital 1 input (DVD, TV, CD, CD-R, VCR or OFF).

Coaxial digital 2:

Default setting: CD

2 Use $\hat{\uparrow}$ or \mathbb{Q} to assign the coaxial digital 2 input (DVD, TV, CD, CD-R, VCR or OFF).

After you assign a component to a digital jack, whenever you select that component, (for example, a DVD player) the receiver automatically changes to the digital input setting and **DIGITAL** shows in the display.

Optical digital input settings

Here you tell the receiver what components you have hooked up to the optical **DIGITAL IN** jack(s) on the back of the receiver.

Optical digital 1:

- Default settings: TV/SAT
- 1 Use $\hat{\uparrow}$ or \mathbb{Q} to assign the optical digital 1 input (DVD, TV, CD, CD-R, VCR or OFF).

Optical digital 2

• Default setting: CDR/TAPE/MD

2 Use $\uparrow\uparrow$ or \Downarrow to assign the optical digital 2 input (DVD, TV, CD, CD-R, VCR or OFF).

After you assign a component to a digital jack, whenever you select that component, (for example, a DVD player) the receiver automatically changes to the digital input setting and **DIGITAL** shows in the display.

Setting the relative volume level of each channel

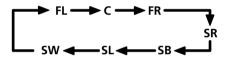
• Default setting: Odb

For best surround sound playback, you should set the relative channel levels from the main listening position. You can set separate levels for each surround mode.

- 1 Press RCV.
- 2 Press STANDARD.

3 Press TEST TONE to output the test tone.

The test tone is output in the following order (depending on the speaker setting):





If you don't hear a test tone from one of your speakers, please refer to *Speaker setting* on page 37 to make sure you have correctly specified your speaker setup.

4 Press MASTER VOLUME +/- to adjust the volume to an appropriate level.

5 Use LEVEL +/- to adjust the speaker levels in turn.

You should hear the test tone at the same volume from each speaker when seated in the main listening position. The channel level range is \pm 10 dB.

6 When you're done, press TEST TONE to turn off the test tone.



The speaker volume can be adjusted without outputting the test tone by pressing **CH SELECT** and then using **LEVEL +/-**.





- Test tone is only output in Standard modes.
- Since the subwoofer transmits an ultralow frequency its sound may seem quieter than it actually is.

Listening to the radio

The following steps show you how to tune in to FM and AM radio broadcasts using the automatic (search) and manual (step) tuning functions. If you already know the frequency of the station you want, see *Tuning directly to a station* below. Once you are tuned to a station you can memorize the frequency for recall later—see *Saving station presets* on the next page for more on how to do this.



1 Press the TUN button on the remote control to select the tuner.

You can also use the **MULTI JOG/INPUT SELECTOR** dial on the front panel.

2 Use the BAND button to change the band (FM or AM), if necessary.

Each press switches the band between FM and AM.

3 Tune to a station.

There are three ways to do this:

Automatic tuning

To search for stations in the currently selected band, press and hold **TUNE +/-** for about a second. The receiver will start searching for the next station, stopping when it has found one. Repeat to search for a the rational

Manual tuning

To change the frequency one step at a time, press **TUNE +/-**.

High speed tuning

Press and hold **TUNE +/-** for high speed tuning. Release the button at the frequency you want.

Improving FM stereo sound

If the **TUNED** or **STEREO** indicators don't light when tuning to an FM station because the signal is weak, press the **MPX(/RETURN**) button to switch the receiver into mono reception mode. This should improve the sound quality and allow you to enjoy the broadcast.

Tuning directly to a station

Sometimes, you'll already know the frequency of the station you want to listen to. In this case, you can simply enter the frequency directly using the number buttons on the remote control.

1 Press the TUN button on the remote control to select the tuner.

You can also use the **MULTI JOG/INPUT SELECTOR** dial on the front panel.

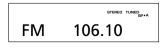
2 Use the BAND button to change the band (FM or AM), if necessary.

Each press switches the band between FM and AM.

3 Press D.ACCESS (Direct Access).

4 Use the number buttons to enter the frequency of the radio station.

For example, to tune to $\mathbf{106.00}$ (FM), press $\mathbf{1, 0}, \mathbf{6, 0, 0}.$

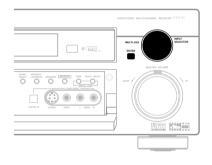


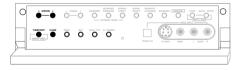
If you make a mistake halfway through, press **D.ACCESS** twice to cancel the frequency and start over.

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Saving station presets

If you often listen to a particular radio station, it's convenient to have the receiver store the frequency for easy recall whenever you want to listen to that station. This saves the effort of manually tuning in each time. This unit can memorize up to 30 stations, stored in three banks, or classes, (A, B and C) of 10 stations each. When saving an FM frequency, the **MPX** setting (see previous page) is also stored. Use the front panel controls to store station presets.





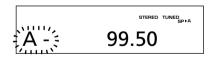


1 Tune to a station you want to memorize.

See *Listening to the radio* (previous page) for more on this.

2 Press T.EDIT (TUNER EDIT).

The display shows **ST. MEMORY**, then a blinking memory class.



3 Press CLASS to select one of the three classes then press ST +/- (STATION +/-) or the ← and ⇔ keys to select the station preset you want.

You can also use the **MULTI JOG/INPUT SELECTOR** dial (front panel) to select a station preset.

4 Press ENTER.

After pressing **ENTER**, the preset class and number stop blinking and the receiver stores the station.

Naming station presets

For easier identification, you can name your station presets.

1 Choose the station preset you want to name.

See Listening to station presets (this page) for how to do this.

Press T.EDIT (TUNER EDIT). 2

The display shows ST. NAME, then a blinking cursor at the first character position.

3 Input the name you want.

Names can be up to four characters long.

Use the MULTI JOG/INPUT SELECTOR dial or ST +/- buttons (front panel) the \Leftrightarrow and ⇒ buttons (remote) to select characters.

- Press ENTER to confirm a character. If no character is input, a space is input.
- The name is stored when ENTER is pressed after choosing the fourth character.

Note

To erase a station name, simply repeat steps 1-3 and input four spaces instead of a name.

Tip

Once you have named a station preset, you can press **DISPLAY** when listening to a station to switch the display between the name and the frequency.

Listening to station presets

If you haven't already stored some station presets, see the previous page to do so.

Press TUN (remote) or use the MULTI JOG/INPUT SELECTOR dial on the front panel to select the tuner.

2 Press CLASS to select the class in which the station is stored.

Press repeatedly to cycle through classes A, B and C.

3 Press ST +/- (STATION +/-) to select the station preset you want.



Note

If the receiver is left disconnected from the AC power outlet for an extended period, the station memories will be lost and will have to be reprogrammed.

Making an audio or a video recording

You can make an audio or a video recording from the built-in tuner, or from an audio or video source connected to the receiver (such as a CD player or TV).

Keep in mind you can't make a digital recording from an analog source or vice-versa, so make sure the components you are recording to/from are hooked up in the same way (see pages 13– 19 for more on connections).

If you want to record a video source, you also need use the same type of connection for the source as for the recorder. For example, you can't record a component hooked up to S-video jacks with a recorder hooked up to the component video outputs (see page 17 for more on video connections).

Note

The receiver's volume, balance, tone (bass, treble, loudness), and surround effects have no effect on the recorded signal.

1 Select the source you want to record. Use the MULTI CONTROL buttons on the remote (or MULTI JOG/INPUT SELECTOR dial on the front panel).

2 Select the input signal (if necessary). Press SIGNAL SEL (SIGNAL SELECT) to select the input signal corresponding to the source component (see page 32 for more on this).

3 Prepare the source you want to record. Tune to the radio station, load the CD, video, DVD etc.

4 Prepare the recorder.

Insert a blank tape, MD, video etc. into the recording device and set the recording levels.

Refer to the instructions that came with the recorder if you are unsure how to do this. Most video recorders set the audio recording level automatically—check the component's instruction manual if you're unsure.

5 Start recording, then start playback of the source component.



Monitoring your recording

You can listen to (monitor) the recording as it's being made using the **MONITOR** button on the front panel (a cassette deck would have to have a record monitor function).

• Press the MONITOR button to switch between the recorded signal and the original source signal.

Setting the remote to control other components

There are several ways to set your remote to control the other components in your system. The easiest way to do this is to assign the component's manufacturer preset code (listed on page 55) to one of the **MULTI CONTROL** buttons on the remote control.

The buttons can be set to control the following components:

Button	Controllable Components
DVD: TV: VCR: CD: CD-R:	DVD or LD player TV or Satellite tuner VCR or Digital Video Recorder CD player CD Recorder, Tape deck
TVC: TUN:	or MD player TV or Cable TV tuner FM/AM tuner

You can do this directly, or by searching through different preset codes until you find the right one. If you can't find a preset code that matches the component you want to control, you can still teach the remote individual commands from another remote control (page 49–50).

🖉 Note

You can cancel or exit any of the steps by pressing and holding **MUTE** for three seconds.

Selecting preset codes directly



1 Press and hold **REMOTE SETUP** for three seconds.

The LCD display shows SETUP.

- 2 Press the **MULTI CONTROL** button for the component you want to control.
- 3 Use ⇐ and ➡ to select DIR SET then press REMOTE SETUP.

The LCD on the remote displays the component you want to control.

4 Use the number buttons to enter the 4 digit preset code (see pages 55–66)

The LCD display shows the code as you enter it. If you make a mistake press the button to go back one digit. The display shows **OK** once you have entered a valid code. If it's an invalid code or an error has occurred, **ERROR** shows in the display.

If you get an error message, check the preset code list and try again. If you can't find or properly enter a preset code, you can still teach the remote individual commands from another remote control (page 49).



• If you assign a preset code for the **TUNER** button, you won't be able to control the builtin tuner of this receiver using the remote. Reset the remote to the built-in tuner by entering the preset code **7008**.

5 Repeat steps 1 through 4 for the other components you want to control.

Setting Up Using Full Library Search

An alternative method of setting up the remote with preset codes is to use the Library Search feature. The remote transmits batches of 10 codes; when you see the component you want to control respond (by turning on or off) you just scan through those last 10 codes until you find the correct one.



1 Switch on the component you want to control.

If the component is some kind of player (CD player, VCR, etc.), then start it playing.

2 Press and hold **REMOTE SETUP** for three seconds.

The LCD display shows SETUP.

- 3 Press the **MULTI CONTROL** button for the component you want to control.
- 4 Use the ⇐ and ➡ buttons to select the **SEARCH**.

The LCD display shows **SEARCH**.

5 Press and hold **REMOTE SETUP** for three seconds.

A batch of 10 codes is transmitted and the transmit icon blinks during transmission.

If you see the component respond, by stopping (for playback components only) or switching off, go on to the step 6, otherwise press and hold the **REMOTE SETUP** button for three seconds.

Cancelling this step can only be done after the 10 codes are transmitted.

- 6 Switch the component back on or restart playback.
- 7 Use [↑] and [↓] buttons to scan step-bystep through the last 10 codes transmitted to identify the correct code.

Stop when you see the component stop or switch off. The LCD display shows the I.D.

You can also verify you have the correct code by pressing **PLAY**, **STOP**., **VOL**+/–, etc.

8 Press and hold **ENTER** for three seconds to save the preset code.

The LCD display shows **OK**.

The remote control automatically returns to normal usage.



- Unless otherwise stated, you can cancel or exit any of the steps by pressing and holding MUTE for three seconds.
- The remote control will return to its previous mode after 30 seconds of inactivity.

Searching for preset codes using brand names

Another way of assigning preset codes is to use the Brand Search feature.

1 Switch on the component you want to control.

If the component is some kind of player (CD player, VCR, etc.), then start it playing.

- 2 Press and hold REMOTE SETUP for three seconds to enter the setup mode. The LCD display shows SETUP.
- 3 Press the **MULTI CONTROL** button for the component you want to control.
- 4 Use the ⇐ and ➡ buttons to select **BRAND** then press **REMOTE SETUP**.

The brand names are displayed in alphabetical order. The display starts by showing the letter ${f A}.$

5 Use $\hat{1}$ and $\hat{1}$ to select the first letter of the brand of your component then press **ENTER**.

The LCD will show the brands that start from the letter you have selected. If you make a mistake here, press ⇐ to go back to the previous step.

6 Use $\hat{1}$ and $\hat{1}$ to select the brand of your component then press **ENTER**.

The LCD shows the component type and codes relating to the brand.

7 Use î and ↓ to select your component type (if you see the component respond) then press and hold ENTER for three seconds to save the preset code.

The LCD display shows OK.

Programming signals from other remote controls

If the preset code for your component is not available, or the available preset codes do not operate correctly, you can program signals from the remote control of another component. This can also be used to program additional operations (buttons not covered in the presets) after assigning a preset code.

1 Press **REMOTE SETUP** and hold for three seconds.

The LCD display shows SETUP.

- 2 Press the **MULTI CONTROL** button for the component you want to control.
- 3 Prepare the remote to learn the remote control signal from the component.

Use \Leftarrow and \Rightarrow to select LEARN and then press **REMOTE SETUP**.

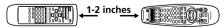
The LCD display shows **PRES KEY**. The learn icon indicates the remote is ready to accept a signal.

🖉 Note

To exit or cancel press and hold the **SETUP** key for three seconds.

4 Point the two remote controls towards each other about 1-2 inches apart then press the button that will be doing the learning on this receiver's remote control (for example ►, ■, etc.).

The LCD display flashes PRES KEY.



5 Press the corresponding button on the other remote control that is sending (teaching) the signal to this receiver's remote control (for example ►, ■, etc.).

The LCD display will show **OK** if the operation has been learned.

If for some reasons the operation hasn't been learned the LCD will display **ERROR** for three seconds and then display **PRES KEY** again. If this happens, keep pressing the (teaching) button as you vary the distance between the two remotes, until the LCD display shows **OK**.

To program additional operations for the current component repeat steps 4 and 5.

To program operations for another component exit and repeat steps 1 through 5.

6 Press and hold the **REMOTE SETUP** button for three seconds to store the operation(s).

🖉 Note

• Some commands from other remote controls cannot be learned, but in most cases the remotes just need to be moved closer together or farther apart.

• Certain buttons represent operations that cannot be learned from other remote controls.

These include: MULTI CONTROL, RECEIVER O, REMOTE SETUP, RECEIVER CONTROL and MASTER VOLUME.

• TV CONTROL buttons (TV , TV VOL +/-, and TV INPUT) can only be learned after selecting TV or TVC.

Erasing one of the remote control button settings

This erases one of the buttons you have programmed and restores the button to the factory default.

1 Press **REMOTE SETUP** and hold for three seconds.

The LCD display shows SETUP.

- 2 Press the **MULTI CONTROL** button relating to the button setting to be erased.
- 3 Prepare the remote to erase the button setting.

Use \Leftrightarrow and \Rightarrow to select **ERASE** and then press **REMOTE SETUP**.

The LCD display flashes **PRES KEY**.

4 Press and hold the button to be erased for three seconds.

The LCD display shows **OK** to confirm the button has been erased or **NO CODE** if an error has occurred.

- 5 Repeat step 4 to erase other buttons.
- 6 Press and hold the **REMOTE SETUP** button for two seconds to exit.

Clearing all the remote control settings

You can clear all presets and restore the factory default settings.

1 Press **REMOTE SETUP** and hold for three seconds.

The LCD display shows SETUP.

- 2 Press any MULTI CONTROL button.
- 3 Use ⇐ and ➡ to select **RESET** then press **REMOTE SETUP**.

Direct function

Default setting: ON

You can use the direct function feature to control one component using the remote control while at the same time, using your receiver to playback a different component. This could let you, for example, use the remote control to set up and listen to a CD on the receiver and then use the remote control to rewind a tape in your VCR while you continue to listen to your CD player.

When direct function is on, any component you select (using the **MULTI CONTROL** buttons) will be selected by both the receiver and the remote control. When you turn direct function off, you can operate the remote control without affecting the receiver.

1 Press **REMOTE SETUP** and hold for three seconds.

The LCD display shows SETUP.

- 2 Press the **MULTI CONTROL** button for the component you want to control.
- 3 Use ⇐ and ➡ to select **DIR SET** then press **REMOTE SETUP**.

The LCD on the remote displays the component you want to control.

4 Use the number buttons to enter either 9990 (direct on) or 9995 (direct off).

The LCD will display **OK** to show the four digit code has been accepted.

🖉 Note

You can't use direct function for TV INPUT.

Confirming preset codes

Use this feature to check which preset code is assigned to a **MULTI CONTROL** button.

1 Press **REMOTE SETUP** and hold for three seconds.

The LCD display shows SETUP.

- 2 Press the **MULTI CONTROL** button of the component for which you want to check the preset code.
- 3 Use ⇐ and ➡ to select **READ ID** and then press **REMOTE SETUP**.

The preset code appears in the display for two seconds.

Controls for TVs

09

This remote control can control components after entering the proper codes or teaching the receiver the commands (see pages 55–66). Use the **MULTI CONTROL** buttons to select the component.

Button (s)	Function	Components
TVŮ	Switches the DTV on or off.	DTV
	Switches the TV or CATV between standby and on.	Cable TV/Satellite TV/TV
TV INPUT	Switches the TV input. (Not possible with all models.)	TV
CHANNEL +/-	Selects channels.	Cable TV/Satellite TV/TV/ DTV
TV VOL +/-	Adjust the TV volume.	Cable TV/Satellite TV/TV/ DTV
SOURCE ⁽⁾	Press to switch the component assigned to the TVC button on or off.	DTV
	Switches DTV on or off.	DTV
	Press to display the DTV menu.	DTV
н	Use as the GUIDE button for navigating	DTV
•	Press to get information on DTV programs.	DTV
TOP MENU	Use to choose the BLUE commands on a DTV menu.	DTV
AUDIO	Use to choose the GREEN commands on a DTV menu.	DTV
SUB TITLE	Use to choose the RED commands on a DTV menu.	DTV
ANGLE	Use to choose the YELLOW commands on a DTV menu.	DTV
>>	Selects between screen formats for widescreen TVs.	TV
44	Use to clear a TV channel selected using the number buttons.	Cable TV/TV
•	Use to switch DTV audio tracks	DTV
	Use to select closed captioning with DTV.	DTV
Number Buttons	Use to select a specific TV channel.	Cable TV/Satellite TV/TV/ DTV
+10 button	Use to add a decimal point when selecting a specific TV channel.	DTV
ENTER/ DISPLAY/ DISC	Use to enter a channel.	Cable TV/Satellite TV/TV

Button (s)	Function	Components
MENU	Select different menus from the DTV functions.	DTV
	Select the menu screen.	Cable TV/Satellite TV/TV
⇔⇔∱∬ & ENTER	Select or adjust and navigate items on the menu screen. ENTER brings up the DTV menus.	DTV
	Press to select or adjust and navigate items on the menu screen.	Cable TV/Satellite TV/TV/ DTV
EFFECT +/-	For TV and cable TV use this button to immediately enter a new channel (CHANNEL ENTER function). For satellite TV use this button to exit the menu screen.	Cable TV/Satellite TV/TV/ DTV

🖉 Note

The four TV CONTROL buttons on the remote control are dedicated to control the TV assigned to the TVC button. Thus if you only have one TV to hook up to this system assign it to the TVC MULTI CONTROL button. If you have two TVs, assign the main TV to the TVC button.

Controls for other components

This remote control can control these components after entering the proper codes or teaching the receiver the commands (see pages 55–66). Use the **MULTI CONTROL** buttons to select the component.

Button (s)	Function	Components
SOURCE	Press to switch the component between standby and on.	CD/MD/CD-R/VCR/DVD/LD/ DVR player/Cassette deck
	Press to return to the start of the current track. Repeated presses skips to the start of previous tracks.	CD/MD/CD-R/DVD/LD player
	Go back channels (channel –).	VCR/DVR
	Play the reverse side of the tape on a reversible deck.	Cassette deck
	Press to advance to the start of the next track. Repeated presses skips to the start of following tracks.	CD/MD/CD-R/LD player
	Go forward channels (channel +).	VCR
	Play the forward side of the tape on a reversible deck.	Cassette deck
II	Pause playback or recording.	CD/MD/CD-R/VCR/DVD/LD/ DVR player/Cassette deck
•	Start playback.	CD/MD/CD-R/VCR/DVD/LD/ DVR player/Cassette deck

09

Button (s)	Function	Components
••	Hold down for fast forward playback.	CD/MD/CD-R/VCR/DVD/LD/ DVR player/Cassette deck
44	Hold down for fast reverse playback.	CD/MD/CD-R/VCR/DVD/LD/ DVR player/Cassette deck
•	Stops playback (on some models, pressing this when the disc is already stopped will cause the disc tray to open).	CD/MD/CD-R/VCR/DVD/LD/ DVR player/Cassette deck
•	Starts recording. To prevent accidental recording, this button must be pressed twice to take effect (the second press must be within 10 seconds of the first).	VCR/DVR player
Number	Directly access tracks on a program source.	CD/MD/CD-R/VCR/LD player
buttons	Use the number buttons to navigate the on-screen display.	DVD/DVR player
+10 button	Selects tracks higher than 10. (For example, press +10 then 3 to select track 13.)	CD/MD/CD-R/VCR/LD player
ENTER	Chooses the disc.	Multiple CD player
(DISPLAY/	Ejects the disc.	MD player
DISC)	Use as the ENTER button.	VCR
	Displays the setup screen for DVD/DVR players.	DVD/DVR player
	Changes sides of the LD.	LD player
	Use as the SET UP button.	DVD/DVR player
MENU	Displays menus concerning the current DVD or DVR you are using.	DVD/DVR player
Û	Pauses the tape.	CD-R/Cassette deck
Û	Stops the tape.	CD-R/Cassette deck
ENTER	Starts playback.	CD-R/Cassette deck
⇔/⇒	Fast rewinds/fast forwards the tape.	CD-R/Cassette deck
⇔⇒介贝& ENTER	Navigates DVD menu/options.	DVD/DVR Player
CHANNEL	Selects channels.	VCR/DVD/DVR Player
+/-	Selects tracks.	CD/MD/CD-R/Cassette deck
TOP MENU	Displays the disc 'top' menu of a DVD.	DVD/DVR Player
AUDIO	Changes the audio language or channel.	DVD/DVR Player
SUBTITLE	Displays/changes the subtitles on multilingual DVDs.	DVD/DVR Player
ANGLE	Switches camera angles on discs with multi-angle scenes. Download from Www.Somanuals.com. All Manuals Search /	DVD/DVR Player

Preset Code List

You can only set these codes for the buttons that assigned to the respective components. So, for example, the TV codes can only be set to the TV or TVC button.

TV

TV	ТУС
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	•	
Manufacturer	Code	AMSTRAD
PHILIPS	1008, 1017, 1020, 1025, 1104,	ANITECH AOC
	1115	ARCAM
SONY	1001, 1007, 1016	ASBERG
PANASONIC	1023, 1054, 1055, 1075, 1076,	ASUKA
	1082, 1087, 1121, 1124	ATLANTIC
TOSHIBA	1015, 1016, 1027, 1031, 1050,	AUDIOSO
	1051, 1085	AUDIOSO
TELEFUNKEN	1005, 1026, 1034, 1038, 1042,	AUTOVOX
	1046, 1075, 1097	BANG & O
SHARP	1016, 1019, 1041, 1056, 1124	BASIC LIN
SAMSUNG	1006, 1011, 1013, 1017, 1026,	BAYSONIC
	1027, 1039, 1062, 1079, 1089,	BAUR
FEDOLICON	1092, 1102	BEKO
FERGUSON	1005, 1017, 1033, 1046, 1065,	BELCOR
MITSUBISHI	1084, 1091 1011, 1016, 1041, 1045, 1049,	BELL & HO
IVIII SUDISHI		BEON
GOLDSTAR	1062, 1114 1002, 1011, 1013, 1017, 1019,	BINATONE
GULDSIAR	1026, 1046, 1062, 1079, 1092	BLUE SKY
BLAUPUNKT	1066, 1068, 1071, 1075, 1115	BLUE STAI
RADIOLA	1008, 1017	BONDSTE
JVC	1016, 1024, 1030, 1053, 1065,	BOOTS
0.00	1067, 1103, 1122	BPL
DAEWOO	1006, 1011, 1017, 1019, 1028,	BSR
DREWOO	1040, 1050, 1104, 1110, 1118,	BRADFOR
	1119	BRANDT
ORION	1017, 1063, 1083, 1095, 1098,	BRITANNI
	1099, 1112	BROCKW
SIEMENS	1017, 1052, 1066, 1068, 1071,	BROKSON
	1075, 1115	BTC
ADMIRAL	1041, 1055, 1075, 1112	BUSH
ADYSON	1014, 1079	CANDLE
AIKO	1040	CARNIVAL
AKAI	1013, 1074	CARREFO
AKURA	1080, 1089	CARVER
ACURA	1006	CASCADE
ALARON	1063, 1078	CASCADE
ALBA	1006, 1016, 1017, 1080, 1103	CENTURY
ALLORGAN	1095	CENTURIC
ANAM	1004, 1006, 1029, 1054, 1064,	CELEBRIT
	1087, 1108	CCE
ANAM NATIONAL	1054, 1087, 1108	CGE
AMBASSADOR AMERICA ACTION	1061	CIMLINE
AIVIERICA ACTION	1064	

AMPI IVISION 1079 AMPRO 1126 D 1006, 1017, 1103, 1105 1006, 1029, 1036 1011, 1013 1078, 1079 1036 1080 1073)NIC 1017, 1046)X 1040, 1064, 1110, 1118 1036, 1073 OLUFSEN 1116 ١E 1006, 1080 С 1064 1007, 1017, 1114, 1115 1102 1011 OWFIL 1009, 1050 1017 E 1079 1080 ١R 1090 EC 1086 1079 1090 1095 RD 1064 1046, 1069, 1070, 1072 А 1078 /00D 1011 NIC 1083, 1112 1080 1006, 1016, 1017, 1080, 1090, 1095, 1103, 1104 1013, 1026 LE 1013)UR 1016 1025, 1058 E 1006 1017 1075 ON 1017 γ 1001 1017 1034, 1036, 1038, 1086, 1097 1006

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CINERAL 1040.1110 FRONTECH CITIZEN 1013, 1019, 1026, 1027, 1040 FUJITSU **CLARIVOX** 1017 FUNAL CLATRONIC 1036, 1086, 1102 CMF 1007, 1015, 1114 **FUTURETECH** CONCERTO 1026 GE CONDOR 1098.1102 CONTEC 1006, 1016, 1064, 1078 GEC CONTINENTAL EDISON 1069, 1070, 1072 **GELOSO** CRAIG 1054 GENEXXA CROSLEY 1025, 1034, 1036, 1038, 1075 GIBRALTER CROWN 1006, 1017, 1019, 1036, 1064, GOODMANS 1102.1106 CRYSTAL 1109 GORENJE CS ELECTRONICS 1078 GPM CTC 1086 GRAETZ CURTIS MATHES GRANADA 1009, 1013, 1019, 1022, 1023, 1025, 1026, 1027, 1041, 1047, 1050, 1057, 1110, 1113, 1129, GRADIENTE 1131 GRANDIN 1080 CYBERTRON GRUNDIG GRUNPY CXC 1064 DAINICHI 1077.1080 HALL MARK DANSAL 1017 HANSEATIC DAYTRON 1006, 1011 DECCA HARVARD 1017, 1032 DF GRAAF 1074 DENON 1047 HCM HINARI DIXI 1006, 1017 HISAWA DUAL TEC 1079 DUMONT 1010, 1011, 1031 HITACHI DWIN 1125, 1127 ECE 1017 HUANYU FI BF 1088 **ELECTROBAND** 1001 **HYPSON** ICE ELIN 1017 **FIITE** 1080, 1098 **ICES** FITA IMPERIAL 1006 **EMERSON** 1011, 1018, 1019, 1050, 1061, 1062, 1063, 1064, 1075, 1083, INDIANA INFINITY 1090, 1112, 1118, 1119 **ENVISION** 1013 INGELEN ERRES INNO HIT 1008, 1017 ETRON 1006, 1120 INNOVA **EXPERT** 1073 INTEQ FIDELITY 1078 **INTERBUY** FINLANDIA 1074 **INTERFUNK FINLUX** 1017, 1031, 1032, 1044 **INTERVISION** FISHER 1050, 1074, 1079, 1096, 1102 FLINT **ISUKAI** 1111 ITS FORMENTI 1017, 1075, 1098 FORTRESS 1041 ITT

1055, 1086, 1089, 1109 1032, 1063, 1073 1059, 1063, 1064, 1089, 1095, 1096 1064 1012, 1022, 1023, 1041, 1062, 1090, 1110, 1129, 1131 1017. 1020. 1032. 1072. 1079 1006.1075 1055.1080 1010, 1011, 1013 1016, 1017, 1032, 1079, 1103, 1104 1102 1080 1055 1017, 1032, 1048, 1074, 1079, 1100 1024, 1026, 1058 1090 1031, 1066, 1068, 1072, 1115 1063, 1064 1062 1017, 1098 HARLEY DAVIDSON 1063 1029, 1064 HARMAN/KARDON 1025 1006, 1090, 1105 1006, 1016, 1017, 1080 1090, 1111 1014, 1016, 1018, 1020, 1021, 1026, 1044, 1046, 1047, 1055, 1069, 1070, 1079, 1081, 1097 1078, 1104 1017, 1089, 1090 1079, 1089, 1103 1080 1034, 1036, 1038, 1086, 1102, 1106 1017 1025 1055 1017 1010 1029 1017, 1055, 1086, 1114 1017, 1029, 1043 1079, 1089 1080 1103 1055

JBL JCB KAISUI KAMP KAPSCH KAWASHO KEC **KENDO KNEISSEL KENWOOD** KINGSLEY KONIG KORPEL KOYODA KTV LEYCO LG LIESENK&TTER LLOYTRON LOEWE LOGIK LUMA IUXMAN I XI M FI FCTRONIC MAGNAVOX MAGNADYNE MAGNAFON MAJESTIC MANESTH MARANTZ MARK MATSUI MATSUSHITA MCMICHAEL **MEDIATOR** MEGATRON MEMOREX METZ MGA MIDLAND MINERVA MINOKA MINUTZ MIVAR MOTION MOTOROLA MTC

MULTITECH

1025 1001 1006, 1078, 1079, 1080, 1090, 1078 1055. 1073 1078 1064 1017 1088 1011.1013 1078 1114 1017 1006 1013, 1019, 1064 1017, 1032, 1089, 1095 1026 1017 1014 1035, 1114 1009 1073 1026 1022, 1025, 1050, 1051, 1062 1006, 1017, 1029, 1044, 1046, 1055, 1079, 1091, 1104 1013, 1016, 1025, 1063 1043, 1086 1036, 1043, 1075 1079, 1089, 1098 1013, 1017, 1025 1017 1006, 1015, 1016, 1017, 1032, 1074, 1079, 1095, 1103 1087 1020 1008, 1017 1047, 1062 1006, 1009, 1026, 1049, 1050, 1062, 1087, 1112 1075 1011, 1013, 1049, 1062 1010, 1019, 1022, 1023 1031, 1115 1105 1012 1078, 1092, 1093, 1094 1036 1041 1011, 1013, 1026, 1027, 1078, 1114 1006, 1036, 1043, 1064, 1078

NAD NFC NECKERMANN NFI NETSAT NICAMAGIC NIKKAI NIKKO NOBLIKO NORDMENDE NTC **OCEANIC** ONWA **OPTIMUS OPTONICA** OSAKI OSO OSUME OTTO OTTO VERSAND PALLADIUM PANAMA PATHE MARCONI PATHE CINEMA PAUSA PENNEY PFRDIO PHAPSODY PHASE PHILCO PHONOLA PII OT PORTLAND PRISM PROFFX **PROLINE** PROSOCAN PROTECH PROTON PULSAR PYE OUASAR QUELLE QUESTA **R-LINE**

1051, 1057, 1062 1011, 1013, 1016, 1026, 1058 1017, 1066, 1075, 1115 1017, 1109 1017 1078 1014, 1015, 1017, 1032, 1078, 1080.1089 1013, 1040, 1062 1036, 1043 1046, 1069, 1070, 1075, 1091 1040 1055, 1077 1064 1050, 1057, 1087 1041.1056 1014, 1032, 1079, 1080, 1089, 1105 1080 1014, 1032, 1052 1007.1114 1007, 1016, 1017, 1066, 1075, 1079. 1098. 1115 1102.1106 1079. 1089 1069, 1070, 1072 1075, 1078, 1084, 1098 1006 1003. 1011. 1012. 1013. 1019. 1022, 1023, 1026, 1027, 1051, 1062.1131 1098 1014 1011, 1013, 1025, 1034, 1036, 1038, 1047, 1075, 1086, 1112 1008, 1017 1011, 1013, 1019 1011, 1019, 1040 1023 1006, 1037 1099 1006, 1017, 1043, 1079, 1086, 1089, 1106, 1109 1062, 1113 1010, 1011 1008 1023, 1056, 1087 1007, 1017, 1031, 1034, 1038, 1071, 1075, 1097, 1114, 1115 1016 1017

09

RANK ARENA	1016	SOUNDWAVE	1017, 1106
RBM	1031	SQUAREVIEW	1059
RCA		STANDARD	
RCA	1011, 1018, 1022, 1023, 1039,		1006, 1079, 1080
	1041, 1128, 1129, 1130, 1131,	STARLITE	1064
	1132	STERN	1055, 1073, 1088
REALISTIC	1011, 1013, 1019, 1026, 1050,	SUNKAI	1095, 1099
	1056, 1062, 1064	SUPERTECH	1078
REX	1055, 1073, 1088, 1089	SUPREME	1001
REVOX	1017	SUSUMU	1080
ROADSTAR	1006, 1080, 1089, 1106	Sylvania	1013, 1025
RUNCO	1010, 1013, 1117	SYMPHONIC	1059
SABA	1035, 1046, 1055, 1069, 1070,	SYSLINE	1017
	1072, 1075, 1091	TANDY	1032, 1041, 1055, 1079, 1080
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SAISHO	1006, 1089, 1109	TEC	1079, 1086
SALORA	1055	TECHNEMA	1098
SAMBERS	1036, 1043, 1075	TECHNICS	1023, 1087, 1121
SAMPO	1013, 1019	TECHNOL ACE	1063
SAMSUX	1019	TECHWOOD	1023, 1026
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SANSUI	1112	TELEAVIA	1072
SANYO	1016, 1032, 1048, 1050, 1052,	TELEMEISTER	1098
	1074, 1075, 1100	TELETECH	1006
SBR	1008, 1017, 1020	TELETON	1016, 1073, 1079
SCHNEIDER	1017, 1080, 1086, 1096, 1103	TENSAI	1080, 1095, 1098
SCIMITSU	1011	TEXET	1078, 1080
SCOTCH	1062	THOMSON	1046, 1069, 1070, 1072, 1091
SCOTT		THORN	
	1011, 1062, 1063, 1064, 1083	THORN	1015, 1017, 1032, 1034, 1038,
SEARS	1022, 1025, 1026, 1050, 1051,		1065, 1067, 1114
	1059, 1062, 1063	TMK	1026, 1061, 1062
SEG	1016, 1036, 1079, 1089	TOMASHI	1090
SEI	1043, 1075, 1095	TOTEVISION	1019
SEI-SINUDYNE	1007	TRIUMPH	1085
SELECO	1055, 1073, 1088	TUTUNG	1017, 1032, 1079
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SEMP	1051	ULTRA	1067
SENTRA	1015	ULTRAVOX	1043
SHOGUN	1011	UNIVERSUM	1017, 1044, 1089, 1102
SHORAI	1095	VECTOR RESEARCH	1013
SSS	1011, 1064	VESTEL	1017
SIAREM	1043, 1075	VICTOR	1016, 1024, 1053, 1087
SINDYNE	1043, 1075, 1095	VIDEOSAT	1086
SIGNATURE	1009	VIDEOTECHNIC	1079
SILVER	1016	VIDIKRON	1025
SKY	1017	VIDTECH	1011, 1016, 1062
SKY-WORTH	1017	VISION	1098
SOLAVOX	1014, 1055	VOXSON	1055
SONITRON	1074	WALTHAM	1079
SONOKO	1006, 1017	WATSON	1017, 1098
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SONOLOR	1055, 1074, 1077	WATT RADIO	1043
SONTEC	1017	WARDS	1009, 1011, 1012, 1013, 1025,
SOUNDESIGN	1062, 1063, 1064	Mercula Oscard A	1026, 1056, 1062, 1063
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58 En (

(CD

(CD-R)

WHITE WESTINGHO	JUSE 1017, 1078, 1098, 1112,
	1118, 1119
YAMAHA	1011, 1013
YOKO	1017, 1079, 1101, 1109
ZANUSSI	1073
ZENITH	1009, 1010, 1040, 1112
PIONEER	1018, 1046, 1055, 1057, 1060,
	1091, 1107, 1123, 1124

MD PLAYER



CD PLAYER

Manufacturer

Manufacturer
SONY
KENWOOD
SHARP
ONKYO
ORION
DENON
PIONEER

5401 5402,5407 5403 5404 5406 5405 5405 5408

Code

5222

5224

5207

5202

5201

5217

5201

5213 5219

5215

5202

5202

5210

5207

5212

5203

5201

5221

5211

5220

5215

5202

5223

5203, 5205

5203, 5207, 5209

5204, 5206, 5216 5218

5201,5202, 5208 5214

Code

LD PLAYER

Manufacturer AKAI BBK **CYRUS** DENON **DISCO VISION** FUNAL HITACHI HONG DENG IDALL **KEBAO** MARANTZ MITSUBISHI NAD PANASONIC PHILIPS RADIOLA ROWA SALORA SEGA SHARP SHINCO SMC SONY SUPER **TELEFUNKEN** TOSHIBA PIONEER

(DVD)

AIWA	5016, 5021
AKAI	5014, 5020, 5032
ANAM	5041
ARCAM	5021
AUDIOLAB	5021
AUDIOMECA	5021
AUDIO TON	5021
BESTAR	5022
BURMESTER	5045
CALIFORNIA AUDIO	
CARVER	5021, 5025, 5046
CONDOR	5018, 5022
CURTIS MATHES	5004
CYRUS	5021
DENON	5002, 5006, 5040, 5060
DKK	
DUAL	5001
DUAL DYNAMIC BASS	5031
EMERSON	5025
	5038
EROICA	5053, 5054
FANTASIA	5051
FISHER	5024, 5025
GARRARD	5044, 5045
GENEXXA	5005, 5038
GOLDSTAR	5043, 5051
GRUNDIG	5021
HARMAN/KARDON	
HITACHI	5005
INKEL	5015, 5026, 5046
JVC	
KENWOOD	5003, 5008, 5029, 5056, 5057,
	5062
KRELL	5021
LINN	5021
LUXMAN	5036
LXI	5038
MAGNAVOX	5021, 5038
MARANTZ	5004, 5009, 5017, 5021, 5026
MATSUI	5021
MCS	5004
MEMOREX	5022
MERIDIAN	5021
MICROMEGA	5021
MISSION	5021
MITSUBISHI	5014, 5020
MTC	5045
NAD	5001
NAIM	5021
NIKKO	5024, 5041, 5051
NSM	5021

Code

ONKYO **OPTIMUS** ORION PANASONIC PARASOUND PHILIPS PMG POPPY PROTON QED QUAD **OUASAR** RCA REALISTIC REVOX ROTEL SAE SANSUI SANYO SCHNEIDER SCOTT SFARS SHARP SHERWOOD SONY SOUDESIGN TASCAM TEAC TECHNICS THORFNS TOSHIBA UNIVERSUM YAMAHA YORX VICTOR WARDS PIONFFR

5012, 5013, 5042, 5059 5001, 5005, 5008, 5019, 5025, 5038, 5045, 5046, 5048 5061 5004. 5037 5045 5021, 5055 5022 5021 5004. 5010, 5025, 5038 5025, 5026, 5045 5021.5045 5021, 5033, 5038 5025.5039 5018 5038 5038 5008, 5026, 5058 5015, 5026, 5031 5001, 5027, 5050 5019 5045 5024, 5026, 5044, 5045 5004, 5034, 5037 5021 5049 5021 5007, 5028 5047 5011 5010, 5021 5005, 5030, 5035, 5038, 5048, 5052, 5063

DYNAMIC BASS **EROICA** 6041 FISHER 6028 GARRARD 6036 GOI DSTAR 6036 GRUNDIG 6002 HARMON/KARDON 6002, 6014 INKEL 6003 JVC 6027, 6030, 6031 **KENWOOD** 6003, 6004, 6019, 6024, 6025 **KYOCERA** 6013 6034 LOTTE LUXMAN 6029 MAGNAVOX 6002 MARANTZ 6002 MEMOREX 6008.6009 MITSUBISHI 6016 NAKAMICHI 6020 NIKKO 6035 **OLYMPUS** 6029 ONKYO 6010, 6011, 6032 **OPTIMUS** 6001, 6021 PANASONIC 6023 PHILIPS 6002 RCA 6028 RENAISSANCE 6040 REVOX 6002 SAMSUNG 6038 SANSUI 6002 SANYO 6028 SHARP 6019 SONIC 6036 SONY 6012, 6026, 6033 TEAC 6038 **TECHNICS** 6023 THORENS 6002 VICTOR 6027,6030 WARDS 6001 YAMAHA 6006, 6007, 6019 PIONEER 6001, 6008, 6009 6021,

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TAPE DECK



Manufacturer Code Manufacturer Code ADC 6013 TOSHIBA 5302 AIWA 6002, 6022, 6017, 6018 SONY 5306 AKAI 6015,6016 PANASONIC 5301, 5322 ANAM 6035 **KENWOOD** 5307 ARCAM 6005 JVC 5311, 5318 CARVER 6002, 6028 SAMSUNG 5313 DENON 6005, 6039 AKAI 5316 DUAI 6037 HARMAN/KARDON 5314

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DVD PLAYER

5302

MAGNAVOX MITSUBISHI ONKYO PROSCAN RCA SHARP THETA DIGITAL TECHNICS THOMSON YAMAHA PHILIPS ZENITH PIONEER

5303 5302. 5317. 5319 5304 5304 5320 5312 5301 5301.5309 5302, 5308 5302.5315 5305, 5312, 5321

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AMPLIFIER

Manufacturer	C
AUDIOLAB	80
DENON	80
GRUNDIG	80
MARANTZ	80
MICROMEGA	80
PHILIPS	80
PIONEER	80
REVOX	80
TANDBERG	80
THORENS	80
YAMAHA	80

MISC AUDIO

Code Manufacturer **JERROLD** 8201.8203 STARCOM 8201 SCIENTIFIC ATLANTA 8202

RECEIVERS

Manufacturer	Code
ADC	7042
AIWA	7012, 7023, 7031, 7055, 7064
AKAI	7011, 7027
ANAM	7010, 7046
ARCAM	7018, 7048
AUDIOLAB	7059
CAPETRONIC	7042
CARVER	7055, 7059
CURTIS	7008
DAEWOO	7032
DENON	7001, 7056, 7058
DUAL	7040

EROICA 7005 FANTASIA 7037 FERGUSON 7042 FINE ARTS 7059 FISHER 7028 GARRARD 7032, 7034, 7035 GOLDSTAR 7010 GOODMANS 7027 **GP AUDIO** 7033 GRUNDIG 7018, 7059 HARMAN/KARDON 7009, 7051 INKEL 7038, 7040 JBL 7009 JVC 7007, 7036, 7042 7003, 7017, 7025, 7026, 7044. **KENWOOD** 7053, 7063, 7066 7037.7039 LOTTE LUXMAN 7021 MAGNAVOX 7030, 7042, 7055, 7059 MARANT7 7004, 7018, 7055, 7059 **MCINTOSH** 7020 MCS 7004 MCSII VFR 7037 MICROMEGE 7018, 7059 NIKKO 7032, 7037, 7046 **OPTIMUS** 7017, 7034, 7042, 7049, 7052 **ONKYO** 7013, 7029 PALLADIUM 7050 PANASONIC 7004, 7024, 7041 PHILIPS 7018, 7030, 7045, 7048, 7051, 7055, 7059 PHONOTREND 7038 QUASAR 7004 RCA 7006, 7042 RENAISSANCE 7043 REVOX 7018 ROADSTAR 7027 SABA 7042 SAISHO 7027 SAMSUNG 7010 SANSUI 7027,7055 SANYO 7028 SCHNEIDER 7042 SHARP 7017 SHERWOOD 7038 SOUNDESIGN 7049 SONY 7015, 7054, 7057, 7060 TAE KWANG 7034 TEAC 7010, 7035 **TECHNICS** 7004, 7062, 7065 TELEFUNKEN 7019, 7024, 7041, 7061, 7062, 7065 THORFNS 7018.7059 Download from Www.Somanuals.com. All Manuals Search And Download.

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UHER VICTOR WARDS YAMAHA PIONEER

7027.7042.7050 7007 7002, 7006, 7008 7016, 7017 7002, 7008, 7014, 7022, 7042, 7047, 7050, 7052

VCR

VCR

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Manufacturer	Code
PHILIPS	2015, 2035, 2074, 2075
	2015, 2035, 2074, 2075
PANASONIC	
THOMOON	2055, 2087
THOMSON	2021, 2064, 2074
SONY	2001, 2009, 2012, 2013, 2014,
	2015
JVC	2008, 2021, 2033, 2049, 2050,
	2074, 2080
GRUNDIG	2003, 2005, 2007, 2010, 2034,
	2035, 2048, 2050, 2054, 2069,
	2071, 2075
AKAI	2021, 2029, 2038, 2060, 2063
HITACHI	2001, 2004, 2021, 2022, 2043,
	2056, 2057
TOSHIBA	2021, 2023, 2024, 2035, 2074
MITSUBISHI	2023, 2027, 2033, 2035, 2045
SHARP	2027, 2073
ORION	2002, 2004, 2016, 2036, 2046,
UNION	2052, 2070, 2072, 2078
CANVO	2025, 2026, 2037, 2057
SANYO	
FERGUSON	2021, 2039, 2064, 2065
BLAUPUNKT	2003, 2005, 2010, 2014, 2041,
	2042, 2048, 2054, 2055, 2075
NOKIA	2025, 2037, 2038, 2057
ADMIRAL	2027, 2052
ADVENTURA	2001
AIKO	2059
AIWA	2001, 2017, 2062, 2070, 2072
AKIBA	2034
ALBA	2011, 2034, 2052, 2059, 2063,
	2072
AMBASSADOR	2011
AMERICA ACTION	2059
AMERICAN HIGH	2015
AMSTRAD	2001, 2059, 2067, 2068
ANAM	2017, 2042, 2054, 2057, 2059,
AINAIVI	2082, 2084
ANAM NATIONAL	2042, 2054, 2087
ANITECH	2034
ASA	2017, 2035
ASHA	2057
ASUKA	2017
AUDIOVOX _	2017

BAIRD 2001. 2021. 2037. 2039 BASIC LINE 2011, 2034, 2059 BEAUMARK 2057 **BELL & HOWELL** 2037 BRANDT 2047, 2064, 2065 BRANDT ELECTRONIC 2021 BROKSONIC 2002, 2040, 2046, 2052, 2078 BUSH 2034, 2052, 2059, 2072 CALIX 2017 CANON 2015 CAPEHART 2011 CARVER 2035 CATRON 2011 CCE 2034, 2059 CGE 2001 CIMLINE 2034 CINERAL 2059 CITIZEN 2017.2059 CLATRONIC 2011 COLT 2034 COMBITECH 2072 CONDOR 2011 CRAIG 2017, 2026, 2034, 2057, 2058 CROWN 2011, 2034, 2059 CURTIS MATHES 2015, 2021, 2032, 2042 **CYBERNEX** 2057 **CYRUS** 2035 DAEWOO 2011, 2024, 2025, 2059, 2083 DANSAI 2034 DAYTRON 2011 2001, 2035 DFCCA DE GRAAF 2022, 2043 DENON 2022 DUAL 2021 DUMONT 2001, 2035, 2037 DYNATECH 2001 ELBE 2018 ELCATECH 2034 **ELECTROHOME** 2017 **ELECTROPHONIC** 2017 EMEREX 2012 **EMERSON** 2001, 2002, 2017, 2023, 2040, 2046, 2051, 2052, 2059, 2078, 2083 ESC 2057, 2059 FIDELITY 2001 **FINLANDIA** 2035, 2037 FINLUX 2001, 2022, 2035, 2037 FIRSTLINE 2017, 2023, 2024, 2034, 2052 FISHER 2025, 2026, 2030, 2037 FRONTECH 2011 FUJI 2015

FUNAL GARRARD 2001 GE 2015, 2027, 2032, 2057 GEC GENERAL 2011.2028 GOLDHAND 2034 GOLDSTAR 2017, 2018, 2053, 2079 GOODMANS 2001, 2017, 2034, 2059, 2075 GO VIDEO 2077.2081 GRAETZ 2005, 2021, 2037, 2057 GRANADA 2025, 2035, 2037 GRADIENTE 2001.2008 GRANDIN 2001, 2017, 2034 HANSEATIC 2017 HARMAN/KARDON 2018, 2035 HARLEY DAVIDSON 2001 HARWOOD 2034 HCM 2034 HEADQUARTER HINARI 2004, 2034, 2057, 2072 2026 HI-Q HUGHES NETWORK SYSTEMS 2022 **HYPSON** 2034 IMPERIAL 2001 INGERSOL 2004 **INTERFUNK** 2035 ITT 2005, 2021, 2025, 2037, 2038, 2057, 2074 ITV 2017, 2059 **JENSEN** KAISUL 2034 KFC 2017, 2059 **KENDO** 2038, 2052 2018, 2021, 2033 **KENWOOD** KIH 2034 KODAK 2015, 2017 KORPEL 2034 I AYCO 2034 LENCO 2059 ١G 2079 LLOYD'S 2001, 2051 LOEWE 2004, 2005, 2017, 2035 LOGIK 2004, 2034, 2057 LUXOR 2023, 2025, 2027, 2037, 2038 I XI 2017 **M ELECTRONIC** 2001 MAGNASONIC 2059 MAGNAVOX 2001, 2015, 2019, 2035 MAGNIN 2057 MANESTH 2024, 2034 MARANTZ 2003, 2005, 2015, 2035 MARTA 2017

MATSUL 2004, 2016, 2036, 2052, 2070, 2072 MATSUSHITA 2015. 2042. 2055 MEL 2015 **MELECTRONIC** 2018 MEMOREX 2001, 2015, 2017, 2019, 2025, 2026, 2027, 2037, 2052, 2057, 2062, 2085, 2087, 2088 **MEMPHIS** 2034 METZ 2003, 2005, 2017, 2042, 2048, 2055, 2069 MGA 2023. 2057 MGN TECHNOLOGY 2057 MINCRVA 2048 **MINERVA** 2005, 2010, 2048 MINOLTA 2022 MOTOROLA 2015. 2027 MTC 2001.2057 MULTITECH 2001.2034 MURPHY 2001 2031 NAD NATIONAL 2054 NFC 2018, 2020, 2021, 2033, 2037 NECKERMANN 2035 NESCO 2034 NIKKO 2017 NIKON 2014 NOBLEX 2057 NOKIA 2021, 2025, 2037, 2038, 2057 NORDMENDE 2021, 2061, 2064, 2065, 2074 **OCFANIC** 2001, 2021 OKANO 2063, 2070 **OLYMPUS** 2015, 2054 2017, 2027, 2031, 2037, 2042, **OPTIMUS** 2077, 2086, 2087, 2088 **OSAKI** 2001, 2017, 2034 OTTO VERSAND **PALLADIUM** 2005, 2017, 2021, 2034 PATHE MARCONI 2021 PATHE CINEMA 2016 PENTAX 2022 PENNY 2015, 2017, 2018, 2020, 2022, 2057 PERDIO PHILCO 2015, 2018, 2052, 2078 PHONOLA 2035 PILOT 2017 PORTLAND 2011 PROFEX 2066 PROFITRONIC 2057 PROLINE PROSCAN 2032

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PROTEC	2034	SUNSTAR	2001
PULSAR	2019	SUNTRONIC	2001
PYE	2035	SYLVANIA	2001, 2015, 2023, 2035
	2025		
QUARTER		SYMHONIC	2001
QUARTZ	2025	TASHIKO	2001
QUASAR	2015, 2042, 2087	TATUNG	2001, 2021, 2035
QUELLE	2035	TEAC	2001, 2021
RADIO SHACK	2001, 2085	TEC	2011
RADIOLA	2035	TECHNICS	2015, 2042, 2054
RADIX	2017	TEKNIKA	2001, 2015, 2007, 2017, 2028
RANDEX	2017	TELEAVIA	2021
RCA	2015, 2022, 2027, 2032, 2038,	TELEFUNKEN	2021, 2047, 2058, 2064, 2074
	2057	TENOSAL	2034
REALISTIC	2001, 2015, 2017, 2025, 2026,	TENSAI	2001, 2066
	2027, 2037	THOMAS	2001
REX	2021, 2074	THORN	2016, 2021, 2037
RFT	2075	TMK	2051, 2057
RICOH	2014	TOTEVISION	2017, 2057
ROADSTAR	2017, 2034, 2057, 2059	TOWADA	2066
RUNCO	2019	UHER	2057
SABA	2021, 2049, 2050, 2061, 2064,	UNITECH	2057
	2065, 2074	UNIVERSUM	2001, 2006, 2010, 2017, 2035,
SAISHO	2004, 2016, 2036, 2052	ONNERGON	2038, 2048, 2057, 2067
SALORA	2023, 2025, 2038	VECTOR	2024
SANKY	2019, 2027	VECTOR RESEARCH	
SANSUI	2001, 2021, 2033, 2052, 2058,	VICTOR	2008, 2021, 2033
	2078	VIDEO CONCEPTS	2020, 2024
SAMSUNG	2024, 2057, 2076, 2077	VIDEOSONIC	2057
SAVILLE	2072	WARDS	2001, 2015, 2022, 2026, 2027,
SBR	2035	W/ III DO	2032, 2034, 2035, 2057
SCHAUB LORENZ	2001, 2005, 2021, 2037	WHITE WESTINGHO	
SCHNEIDER	2001, 2034, 2035	XR-1000	2001
SCOTT	2023, 2024, 2040, 2046	XR-1001	2015
SEARS	2001, 2015, 2017, 2022, 2025,	XR-1002	2034
	2026, 2037	YAMAHA	2018
SEG	2057, 2066	YAMISHI	2034
SEI	2004, 2035	YOKAN	2034
SELECO	2004, 2005	YOKO	
			2011, 2057
SEMP	2024	ZENITH	2001, 2014, 2019, 2052, 2078
SENTRA	2011	PIONEER	2031, 2033, 2035, 2044, 2056
SHINTOM	2034, 2037		
SHOGUN	2057		\sim
SHORAI	2004	SATELLITE TUN	ER (TV) (TVC)
SIEMENS			
			$\bigcirc \bigcirc$
	2003, 2005, 2010	Manufacturer	Code
2017, 2030, 2035	2003, 2005, 2010 2037, 2048	Manufacturer	Code
SILVA	2003, 2005, 2010 2037, 2048 2017	ABSAT	4006
SILVA SINGER	2003, 2005, 2010 2037, 2048 2017 2024, 2034	ABSAT AST	4006 4027
SILVA SINGER SINUDYNE	2003, 2005, 2010 2037, 2048 2017 2024, 2034 2004, 2035	ABSAT AST ALBA	4006 4027 4029, 4034, 4037, 4052
SILVA SINGER	2003, 2005, 2010 2037, 2048 2017 2024, 2034	ABSAT AST	4006 4027 4029, 4034, 4037, 4052 4019
SILVA SINGER SINUDYNE SOLAVOX	2003, 2005, 2010 2037, 2048 2017 2024, 2034 2004, 2035	ABSAT AST ALBA	4006 4027 4029, 4034, 4037, 4052
SILVA SINGER SINUDYNE SOLAVOX SONOLOR	2003, 2005, 2010 2037, 2048 2017 2024, 2034 2004, 2035 2011 2025	ABSAT AST ALBA ALDES	4006 4027 4029, 4034, 4037, 4052 4019
SILVA SINGER SINUDYNE SOLAVOX SONOLOR SONTEC	2003, 2005, 2010 2037, 2048 2017 2024, 2034 2004, 2035 2011 2025 2017	ABSAT AST ALBA ALDES AMSTRAD	4006 4027 4029, 4034, 4037, 4052 4019 4003, 4016, 4025, 4038, 4039, 4042
SILVA SINGER SINUDYNE SOLAVOX SONOLOR SONTEC STS	2003, 2005, 2010 2037, 2048 2017 2024, 2034 2004, 2035 2011 2025 2017 2022	ABSAT AST ALBA ALDES AMSTRAD ANKARO	4006 4027 4029, 4034, 4037, 4052 4019 4003, 4016, 4025, 4038, 4039, 4042 4013, 4019, 4030, 4044
SILVA SINGER SINUDYNE SOLAVOX SONOLOR SONTEC STS SUNKAI	2003, 2005, 2010 2037, 2048 2017 2024, 2034 2004, 2035 2011 2025 2017	ABSAT AST ALBA ALDES AMSTRAD ANKARO ANTTRON	4006 4027 4029, 4034, 4037, 4052 4019 4003, 4016, 4025, 4038, 4039, 4042 4013, 4019, 4030, 4044 4009, 4034

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64 En ARMSTRONG 4015 ASTRA 4005 ASTRO 4008, 4039. 4045 **AVALON** 4031 AXIS 4030, 4046 ΒT 4053 **BFKO** 4010 BEST 4030 **BLAUPUNKT** 4008 BOCA 4015.4043 **BRAIN WAVE** 4022 BRITISH SKY BROADCASTING 4058 BUSH 4002 CNT 4045 CAMBRIDGE 4024 CANAL SATELLITE 4059 CANAL+ 4059 CHANNEL MASTER 4029 COMLINK 4019 CONNEXIONS 4031 CROWN 4015 **CYRUS** 4011 D-BOX 4054 DDC 4029 DNT 4011, 4031 **ECHOSTAR** 4031, 4036, 4061 **FMANON** 4034 FTE HUMAX 4060 **FERGUSON** 4002, 4009, 4010, 4023 FIDFI ITY 4016 **FINIUX** 4005, 4024, 4032, 4037 FRACARRO 4061 FREECOM 4034 4030, 4031, 4034 FUBE G-SAT 4009 GALAXIS 4019, 4057, 4060 GENERAL INSTRUMENT 4012 GOLD BOX 4059 GOODING 4048 GOODMANS 4010 4008, 4010, 4048 GRUNDIG HINARI 4009 HIRSCHMANN 4008, 4032, 4039, 4040, 4049 HITACHI 4037 4053 HOUSTON HUTH 4013, 4015, 4019, 4026 ITT 4005 **INVIDEO** 4061 INTERVISION 4050 JVC 4048 JOHANSSON 4022 **KATHRFIN** 4004, 4006, 4008, 4011, 4035, 4041

KREISELMEYER 4008 **KYOSTAR** 4034 LA SAT 4043, 4045 LENCO 4034 **LENNOX** 4050 LUPUS 4030 **IUXOR** 4005, 4049 4037, 4045, 4050 MANHATTAN MARANTZ 4011 MASPRO 4004, 4023 MATSUI 4024, 4048 MEDIASAT 4059 MEDIAMARKT 4015 **MINERVA** 4048 MORGAN'S 4015, 4043 NAVEX 4022 NEUHAUS 4039 NEUSAT 4057 NEWHAUS 4013 NIKKO 4028 4005, 4032, 4037, 4049, 4054, NOKIA 4063 NORDMENDE 4029 ORBITECH 4039 **OXFORD** 4024 PACE 4002, 4009, 4014, 4023, 4037, 4055, 4058 PALLADIUM 4048 PAI SAT 4039 PANDA 4037 PHILIPS 4007, 4011, 4020, 4037, 4048, 4059 PHONOTREND 4019, 4050 PIONEER 4021, 4059 PLANET 4061 PROMAX 4037 PROSAT 4019 OUADRAL 4029, 4044 RADIOLA 4011 RADIX 4031, 4064 RFT 4011, 4013, 4019 SAT 4027, 4038 SABA 4023, 4045 SABRE 4037 SAGEM 4056 SALORA 4005 SATCOM 4026, 4051 SATEC 4009 SATMASTER 4026 SATPARTNER 4022, 4034, 4040, 4045 SCHWAIGER 4009, 4041 SEEMANN 4031, 4046

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TRIASAT	4040
UNITOR	4022
UNIVERSUM	4008, 4049
VENTANA	4011
VORTEC	4034
VTECH	4027
WINERSAT	4022
WISI	4008, 4027, 4031, 4037
XSAT	4006, 4065
XCOM MULTIMEDIA	
ZEHNDER	4033, 4045, 4047

CABLE TV

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Manufacturer	Code
ABC	3002, 3003, 3004, 3006, 3008
ANDOVER	3037
BELL & HOWELL	3006
BIRGMINGHAM CAE	BLE
COMMUNICATION	3020
BRITISH TELECOM	3002, 3012
CABLETIME	3016, 3019, 3025, 3029
CONTEC	3009
CLYDE	3011
CRYPTOVISION	3038
DAEHAN	3043
DAERYUNG	3003
DECSAT	3027
EVERQUESST	3007
FILMNET	3028
FRANCE TELECOM	3030
GEC	3011
GEMINI	3007
	ENT 3004, 3020, 3031, 3046
GOLDSTAR	3014, 3047
GRUNDIG	3035
HITACHI	3004

JASCO 3007 JERROLD 3002, 3004, 3005, 3006, 3007, 3020, 3031, 3046 LG ALPS 3044 MEMOREX 3001 **MNET** 3009, 3028 NOW 3041 OAK 3009 PACIFIC 3039 PANASONIC 3001.3013 PARAGON 3001 PULSAR 3001 **PVP STEREO VISUAL** MATRIX 3002 PIONEER 3010, 3014, 3018, 3036 QUASAR 3001 RADIO SHACK 3007 REMBRANDT 3004 RUNCO 3001 SAMSUNG 3014, 3040 SATBOX 3024 SIGNAL 3007 SIGNATURF 3004 STS 3015 SALORA 3026 SCIENTIFIC 3003, 3032, 3049 SCIENTIFIC ATLANTA 3003, 3008, 3021 SEAWOO 3045 STARCOM 3002, 3007 STARGATE 3007 STARQUEST 3007 TAIHAN 3043 3022 **TELESERVICE** TELE+1 3028 TUDI 3023 TUSA 3007 TOCOM 3005 TONGKOOK 3042, 3048 TOSHIBA 3001 UNITED CABLE 3002 VIDEOWAY 3017 VISICABLE+ 3033 WESTMINSTER 3012 WOLSEY GENE 3037 ZENITH 3001, 3034

Troubleshooting

Incorrect operations are often mistaken for trouble and malfunctions. If you think that there is something wrong with this component, check the points below. Sometimes the trouble may lie in another component. Investigate the other components and electrical appliances being used. If the trouble cannot be rectified even after exercising the checks listed below, ask your nearest Pioneer authorized service center or your dealer to carry out repair work.

Problem	Remedy
The power does not turn on.	 Connect the power plug to the wall outlet. Disconnect the power plug from the outlet, and insert again. Make sure there are no loose strands of speaker wire touching the rear panel. This could cause the receiver to shut off automatically.
No sound is output when a function is selected.	 Make sure the component is connected correctly (refer to pages 13–18). Press MUTE on the remote control to turn muting off. Adjust the MASTER VOLUME. Press the MONITOR button to turn monitoring off.
No image is output when a function is selected.	 Make sure the component is connected correctly (refer to pages 13–18). Select the correct component (use the MULTI JOG/INPUT SELECTOR dial or the MULTI CONTROL buttons on the remote).
Considerable noise in radio broadcasts.	 Tune in the correct frequency. Connect the antenna (refer to page 18). Route all cables away from the antenna terminals and wires. Fully extend the FM wire antenna, position for best reception, and secure to a wall. Connect an outdoor FM antenna (refer to page 18). Adjust the direction and position for best reception. Connect an additional internal or external AM antenna (refer to page 19). Turn off the equipment causing the noise or move it away from the receiver. Place the antenna farther away from the equipment causing the noise.
Broadcast stations cannot be selected automatically.	Connect an outdoor antenna (refer to page 18).

Problem	Remedy
No sound from surround or center speakers.	 Refer to Speaker setting on page 37 to check the speaker settings. Refer to Setting the relative volume level of each channel on page 42to check the speaker levels. Connect the speakers properly (refer to page 19–21).
No sound from surround back speakers.	 Refer to <i>Surround back speaker setting</i> on page 40 to check the surround back speaker settings. Refer to the table on page 31 to make sure the 6.1 channel setting and the sound mode are set for surround back sound.
Noise during playback of a cassette deck.	• Move the cassette deck further from your receiver, until the noise disappears.
Sound is produced from other components, but not from LD or DVD player.	 Set the SIGNAL SELECT to AUTO, DIGITAL or ANALOG according to the type of connections made. (refer to page 32). Set the digital input settings correctly (refer to page 41). Make digital connections (refer to page 14) and set the SIGNAL SELECT to DIGITAL (refer to page 32). Refer to the instruction manual supplied with the DVD player.
No sound is output or a noise is output when software with DTS is played back.	• Set the digital volume level of the player to full, or to the neutral position.
When a search is performed by a DTS compatible CD player during playback, noise is output.	• This is not a malfunction, but be sure to turn the volume down to prevent the output of loud noise from your speakers.
Can't operate the remote control.	 Replace the batteries (refer to page 6). Operate within 23 feet (7 m), 30° of the remote sensor on the front panel (refer to page 6). Remove the obstacle or operate from another position. Avoid exposing the remote sensor on the front panel to direct light.
The display is dark or off.	• Press FL DIMMER on the remote control repeatedly to return to the default.

🖉 Note

If the unit does not operate normally due to external effects such as static electricity disconnect the power plug from the outlet and insert again to return to normal operating conditions.

Additional information

Specifications

Amplifier Section

Continuous average power output of 110 watts* per channel, min., at 8 ohms, from 20 Hz to 20,000 Hz with no more than 0.2 %** total harmonic distortion (front).

Continuous Power Output

Front	110 W per channel
	(1kHz, 1.0 %, 8 Ω)
Center	110 W (1kHz, 1.0 %, 8 Ω)
Surround	110 W per channel
	(1kHz, 1.0 %, 8 Ω)

Input (Sensitivity/Impedance)

Frequency Response

CD, VCR/DVR, CD-R/TAPE/MD, DVD/LD, TV/SAT5 Hz to 100,000 Hz dB

Output (Level/Impedance)

VCR/DVR REC, CD-R/TAPE/			
MD REC	200	mV/2.2	kΩ

Tone Control

BASS \pm 6 dB (100 Hz)
TREBLE \pm 6 dB (10 kHz)
LOUDNESS +9 dB/+9 dB
(100 Hz/10 kHz)

Signal-to-Noise Ratio (IHF, short circuited, A network)

Signal-to Noise Ratio [EIA, at 1 W (1 kHz)]

Video Section

Input (Sensitivity/Impedance)

VCR/DVR,	DVD/LD,	TV/SAT		1 Vp-p/75 Ω
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Output (Level/Impedance)

VCR/DVR	1	Vp-p/75 Ω
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Frequency Response

VCR/DVR, DVD/LD,
TV/SAT
Signal-to-Noise Ratio 55 dB
Cross Talk 55 dB

FM Tuner Section

AM Tuner Section

Frequency Range 530 kHz to 1,700 kHz
Sensitivity (IHF, Loop antenna)
Selectivity 25 dB
Signal-to-Noise Ratio 50 dB
Antenna Loop antenna

Miscellaneous

Power Requirements	AC 120 V, 60Hz
Power Consumption	300W, 420 VA
In Standby	1 W
AC Outlet 100	W MAX. (SWITCHED)
Dimensions 420 (W) x	158 (H) x 401 (D) mm
	(16-9/16 (W) x 6-4/16
	(H) x 15-6/16 (D) in.)
Weight (without package)	10.5 kg
	(23.1 lb)

Furnished Parts

AM loop antenna	. 1
FM wire antenna	. 1
Dry cell batteries (AA size IEC LR6)	2
Remote control	. 1
Operating instructions	. 1

🖉 Note

Specifications and the design are subject to possible modifications without notice, due to improvements.

* Measured pursuant to the Federal Trade Commission's Trade Regulation rule on Power Output Claims for Amplifiers.

** Measured by Audio Spectrum Analyzer.

Cleaning the unit

• Use a polishing cloth or dry cloth to wipe off dust and dirt.

• When the surfaces are dirty, wipe with a soft cloth dipped in some neutral cleanser diluted five or six times with water, and wrung out well, and then wipe again with a dry cloth. Do not use furniture wax or cleansers.

• Never use thinners, benzine, insecticide sprays or other chemicals on or near this unit, since these will corrode the surfaces.

Additional information

Should this product require service in the U.S.A. and you wish to locate the nearest Pioneer Authorized Independent Service Company, or if you wish to purchase replacement parts, operating instructions, service manuals, or accessories, please call the number shown below. 800-421-1404 Please do not ship your product to Pioneer without first calling the Customer Service Department at the above listed number for assistance. PIONEER ELECTRONICS SERVICE, INC. CUSTOMER SERVICE DEPARTMENT P.O. BOX 1760, LONG BEACH, CA 90801-1760, U.S.A. For warranty information please see the Limited Warranty sheet included with your product. Should this product require service in Canada, please contact a Pioneer Canadian Authorized Dealer to locate the nearest Pioneer Authorized Service Company in Canada. Alternatively, please contact the Customer Service Department at the following address: PIONEER ELECTRONICS (USA) INC. Customer Service Department 300 Allstate Parkway, Markham, Ontario L3R OP2 (905) 479-4411 1-877-283-5901 For warranty information please see the Limited Warranty sheet included with your product. Si ce produit doit être réparé au Canada, veuillez vous adresser à un distributeur autorisée Pioneer au Canada pour obtenir le nom de la Société de Service Autorisée Pioneer le plus près de chez vous. Ou encore, veuillez vous communiquer avec le Service de Clientèle de Pioneer: Pioneer électroniques du Canada, Inc. Département de service au consommateurs 300 Allstate Parkway, Markham, Ontario L3R OP2 (905) 479-4411 1-877-283-5901 Pour obtenir des renseignements sur la garantie, veuillez vous reporter au feuillet sur la Garantie Limitée gui accompagne le produit. Published by Pioneer Corporation. Copyright © 2002 Pioneer Corporation. All rights reserved.

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