

C A

RX-V595

Natural Sound AV Receiver Récepteur audiovisuel



MODE D'EMPLOI

OWNER'S MANUAL

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SAFETY INSTRUCTIONS



CAUTION

RISK OF ELECTRIC SHOCK DO NOT OPEN



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

· Explanation of Graphical Symbols



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert you 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.



The exclamation point within an equilateral triangle is intended to alert you to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE.

- 1 Read Instructions All the safety and operating instructions should be read before the unit is operated.
- 2 Retain Instructions The safety and operating instructions should be retained for future reference.
- 3 Heed Warnings All warnings on the unit and in the operating instructions should be adhered to.
- 4 Follow Instructions All operating and other instructions should be followed.
- Water and Moisture The unit should not be used near water – for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, etc.
- 6 Carts and Stands The unit should be used only with a cart or stand that is recommended by the manufacturer.
- 6A A unit and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the unit and cart combination to overturn.

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7 Wall or Ceiling Mounting – The unit should be mounted to a wall or ceiling only as recommended by the manufacturer.

- Ventilation The unit should be situated so that its location or position does not interfere with its proper ventilation. For example, the unit should not be situated on a bed, sofa, rug, or similar surface, that may block the ventilation openings; or placed in a built-in installation, such as a bookcase or cabinet that may impede the flow of air through the ventilation openings.
- 9 Heat The unit should be situated away from heat sources such as radiators, stoves, or other appliances that produce heat.
- 10 Power Sources The unit should be connected to a power supply only of the type described in the operating instructions or as marked on the unit.
- 11 Power-Cord Protection Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the unit.
- **12** Cleaning The unit should be cleaned only as recommended by the manufacturer.
- 13 Nonuse Periods The power cord of the unit should be unplugged from the outlet when left unused for a long period of time.
- 14 Object and Liquid Entry Care should be taken so that objects do not fall into and liquids are not spilled into the inside of the unit.
- **15** Damage Requiring Service The unit should be serviced by qualified service personnel when:
 - **A.** The power-supply cord or the plug has been damaged; or
 - **B.** Objects have fallen, or liquid has been spilled into the unit; or
 - C. The unit has been exposed to rain; or
 - **D.** The unit does not appear to operate normally or exhibits a marked change in performance; or
 - **E.** The unit has been dropped, or the cabinet damaged.
- 16 Servicing The user should not attempt to service the unit beyond those means described in the operating instructions. All other servicing should be referred to qualified service personnel.
- **17** Power Lines An outdoor antenna should be located away from power lines.
- **18** Grounding or Polarization Precautions should be taken so that the grounding or polarization is not defeated.

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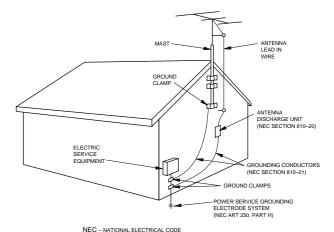
19 For US customers only:

Outdoor Antenna Grounding – If an outside antenna is connected to this unit, be sure the antenna 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/NFPA 70, provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

Note to CATV system installer:

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

EXAMPLE OF ANTENNA GROUNDING



FCC INFORMATION (for US customers only)

1. IMPORTANT NOTICE : DO NOT MODIFY THIS UNIT!

This product, when installed as indicated in the instructions contained in this manual, meets FCC requirements. Modifications not expressly approved by Yamaha may void your authority, granted by the FCC, to use the product.

- IMPORTANT: When connecting this product to accessories and/or another product use only high quality shielded cables. Cable/s supplied with this product MUST be used. Follow all installation instructions. Failure to follow instructions could void your FCC authorization to use this product in the USA.
- 3. NOTE: This product has been tested and found to comply with the requirements listed in FCC Regulations, Part 15 for Class "B" digital devices. Compliance with these requirements provides a reasonable level of assurance that your use of this product in a residential environment will not result in harmful interference with other electronic devices.

This equipment generates/uses radio frequencies and, if not installed and used according to the instructions found in the users manual, may cause interference harmful to the operation of other electronic devices.

Compliance with FCC regulations does not guarantee that interference will not occur in all installations. If this product is found to be the source of interference, which can be determined by turning the unit "OFF" and "ON", please try to eliminate the problem by using one of the following measures:

Relocate either this product or the device that is being affected by the interference.

Utilize power outlets that are on different branch (circuit breaker or fuse) circuits or install AC line filter/s.

In the case of radio or TV interference, relocate/reorient the antenna. If the antenna lead-in is 300 ohm ribbon lead, change the lead-in to coaxial type cable.

If these corrective measures do not produce satisfactory results, please contact the local retailer authorized to distribute this type of product. If you can not locate the appropriate retailer, please contact Yamaha Electronics Corp., U.S.A. 6660 Orangethorpe Ave, Buena Park, CA 90620.

The above statements apply ONLY to those products distributed by Yamaha Corporation of America or its subsidiaries.

We Want You Listening For A Lifetime

YAMAHA and the Electronic Industries Association's Consumer Electronics Group want you to get the most out of your equipment by playing it at a safe level. One that lets the sound come through loud and clear without annoying blaring or distortion – and, most importantly, without affecting your sensitive hearing.

Since hearing damage from loud sounds is often undetectable until it is too late, YAMAHA and the Electronic Industries Association's Consumer Electronics Group recommend you to avoid prolonged exposure from excessive volume levels.

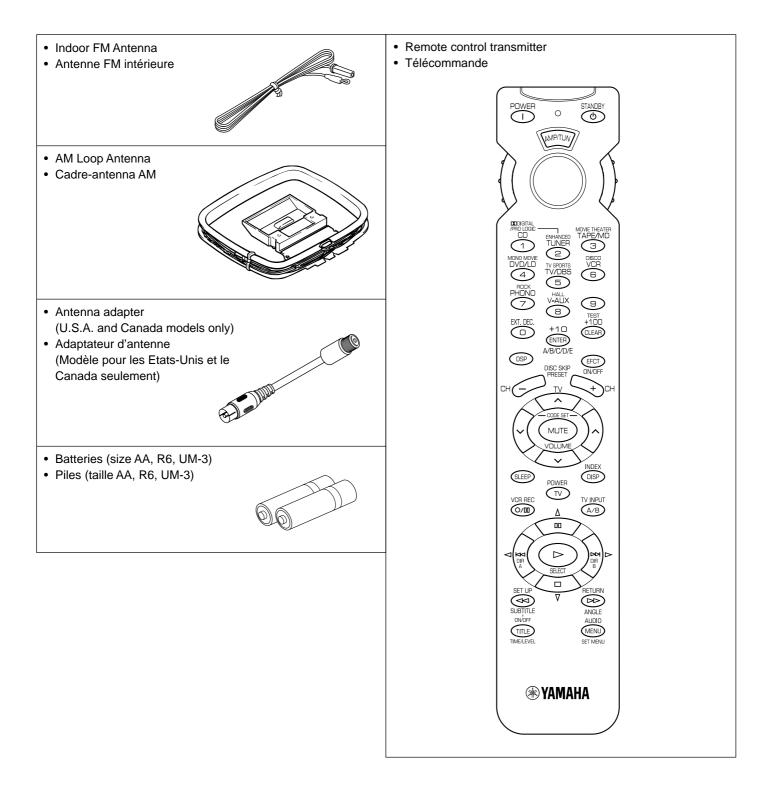


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SUPPLIED ACCESSORIES ACCESSOIRES FOURNIS

- After unpacking, check that the following parts are included.
- Après le déballage, vérifier que les pièces suivantes sont incluses.



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FEATURES

- 5 Speaker ConfigurationCanada model>
 - Main: $70 \text{ W} + 70 \text{ W} (8\Omega) \text{ RMS Output}$

Power, 0.04% THD, 20 Hz - 20 kHz

Center: 70 W (8 Ω) RMS Output

Power, 0.04% THD, 20 Hz – 20 kHz

Rear: $70 \text{ W} + 70 \text{ W} (8\Omega) \text{ RMS Output}$

Power, 0.04% THD, 20 Hz - 20 kHz

<Australia and China models>

Main: $65 \text{ W} + 65 \text{ W} (8\Omega) \text{ RMS Output}$

Power, 0.04% THD, 20 Hz – 20 kHz

Center: $65 \text{ W} (8\Omega) \text{ RMS Output}$

Power, 0.04% THD, 20 Hz – 20 kHz

Rear: $65 \text{ W} + 65 \text{ W} (8\Omega) \text{ RMS Output}$

Power, 0.04% THD, 20 Hz - 20 kHz

- Digital Sound Field Processor
- Dolby Digital Decoder
- Dolby Pro Logic Surround Decoder
- CINEMA DSP: Theater-like Sound Experience by the Combination of Dolby Surround and YAMAHA DSP Technology

- 6-Channel External Decoder Input for DTS and other future formats
- Automatic Input Balance Control for Dolby Pro Logic Surround
- Test Tone Generator for Easier Speaker Balance Adjustment
- Speaker Output Mode Changing Capability
- 40-Station Random Access Preset Tuning
- Automatic Preset Tuning
- Preset Station Shifting Capability (Preset Editing)
- Video Signal Input/Output Capability
- SLEEP Timer
- Universal Remote Control
 Transmitter with Preset Manufacturer
 Codes

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SUPPLIED ACCESSORIES	● Information about DSP USING DIGITAL SOUND FIELD PROCESSOR (DSP)
● Introduction FEATURES ON SOUND EFFECT	● Advanced Information ADJUSTMENTS IN THE "SET MENU" MODE
● Preparation SPEAKER SETUP	● Remote Control Transmitter REMOTE CONTROL TRANSMITTER
● Basic Oparation BASIC OPERATIONS	TROUBLESHOOTING

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CAUTION: READ THIS BEFORE OPERATING YOUR UNIT.

- 1. To assure the finest performance, please read this manual carefully. Keep it in a safe place for future reference.
- Install this unit in a cool, dry, clean place away from windows, heat sources, sources of excessive vibration, dust, moisture and cold. Avoid sources of humming (transformers, motors). To prevent fire or electrical shock, do not expose the unit to rain or water.
- 3. Never open the cabinet. If something drops into the set, contact your dealer.
- Do not use force on switches, controls or connection wires.
 When moving the unit, first disconnect the power plug and the wires connected to other equipment. Never pull the wires themselves.
- 5. The openings on the unit cover assure proper ventilation of the unit. If these openings are obstructed, the temperature inside the unit will rise rapidly. Therefore, avoid placing objects against these openings, and install the unit in a well-ventilated area to prevent fire and damage.

<Singapore model only>

Be sure to allow a space of at least 20 cm behind, 20 cm on the both sides and 30 cm above the top panel of the unit to prevent fire and damage.

- 6. The voltage used must be the same as that specified on this unit. Using this unit with a higher voltage than specified is dangerous and may result in fire or other accidents. YAMAHA will not be held responsible for any damage resulting from use of this unit with a voltage other than specified.
- Digital signals generated by this unit may interfere with other equipment such as tuners, receivers or TVs. Move this unit farther away from such equipment if interference is observed.
- Always set the VOLUME control to "">
 ["] before starting the audio source play. Increase the volume gradually to an appropriate level after playback has been started.
- 9. Do not attempt to clean the unit with chemical solvents; this might damage the finish. Use a clean, dry cloth.
- Be sure to read the "TROUBLESHOOTING" section regarding common operating errors before concluding that the unit is faulty.
- When not planning to use this unit for long periods of time (ie., vacation, etc.), disconnect the AC power plug from the wall outlet.
- 12. To prevent lightning damage, disconnect the AC power plug and disconnect the antenna cable when there is an electrical storm.
- Grounding or polarization Precautions should be taken so that the grounding or polarization of an appliance is not defeated.
- 14. AC outlet

Do not connect audio equipment to the AC outlet on the rear panel if that equipment requires more power than the outlet is rated to provide.

15. Voltage Selector (China and General Models only) The voltage selector on the rear panel of this unit must be set for your local main voltage BEFORE plugging into the AC main supply. Voltages are 110/120/220/240 V AC, 50/60 Hz. This unit is not disconnected from the AC power source as long as it is connected to the wall outlet, even if this unit itself is turned off. This state is called the standby mode. In this state, this unit is designed to consume a very small quantity of power.

FREQUENCY STEP switch

(China and General Models only)

Because the interstation frequency spacing differs in different areas, set the FREQUENCY STEP switch (located at the rear) according to the frequency spacing in your area. Before setting this switch, disconnect the AC power plug of this unit from the AC outlet.

IMPORTANT

Please record the serial number of this unit in the space below.

Serial No.:

The serial number is located on the rear of the unit. Retain this Owner's Manual in a safe place for future reference.

WARNING

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE.

FOR CANADIAN CUSTOMERS

TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT AND FULLY INSERT.

THIS CLASS B DIGITAL APPARATUS COMPLIES WITH CANADIAN ICES-003.

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FEATURES ON SOUND EFFECT

This unit incorporates a sophisticated, multi-program digital sound field processor. The processor allows you to electronically expand and change the shape of the audio sound field from both audio and video sources, creating a theater-like experience in your listening room. This unit has a total of 8 digital sound field processor (DSP) modes. You can create an excellent audio sound field by selecting a suitable sound field (this will, of course, depend on what you will be listening to), and adding desired adjustments.

In addition, this unit incorporates a Dolby Pro Logic Surround decoder and Dolby Digital decoder for multi-channel sound reproduction of Dolby Surround encoded video sources. The operation of the Dolby Pro Logic Surround or Dolby Digital decoder can be controlled by selecting a corresponding DSP program including combined operations of the YAMAHA DSP and the Dolby Pro Logic Surround or Dolby Digital decoder.

Digital Sound Field Processing

What is it that makes live music so good? Today's advanced sound reproduction technology lets you get extremely close to the sound of a live performance, but chances are you'll still notice something missing, the acoustic environment of the live concert hall. Extensive research into the exact nature of the sonic reflections that create the ambience of a large hall has made it possible for YAMAHA engineers to bring you this same sound in your listening room, so you'll feel all the sound of a live concert.

Furthermore, our technicians, armed with sophisticated measuring equipment, have even made it possible to capture the acoustics of a variety of actual concert halls, theaters, etc. from around the world, to allow you to accurately re-create any one of these live performance environments, all in your home.

Dolby Pro Logic Surround

This unit employs a Dolby Pro Logic Surround decoder similar to professional Dolby Stereo decoders used in many movie theaters. By using the Dolby Pro Logic Surround decoder, you can experience the dramatic realism and impact of Dolby Surround movie theater sound in your own home. Dolby Pro Logic employs a four channel five speaker system. The Pro Logic Surround system divides the input signal into four levels: the left and right main channels, the center channel (used for dialog), and the rear surround sound channels (used for sound effects, background noise, and other ambient noises). The center channel allows listeners seated in even less-than-ideal positions to hear the dialog originating from the action on the screen while experiencing good stereo imaging.

Dolby Surround is encoded on the sound track of pre-recorded video tapes, laser discs, and some TV/cable broadcasts. When you play a source encoded with Dolby Surround on this unit, the Dolby Pro Logic Surround decoder decodes the signal and distributes the surround-sound effects.

This Dolby Pro Logic Surround decoder employs a digital signal processing system. This system improves the stability of sound at each channel and crosstalk between channels, so that positioning of sounds around the room is more accurate compared with conventional analog signal processing systems.

In addition, this unit features a built-in automatic input balance control. This always assures you the best performance without manual adjustment.

Dolby Digital

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The built-in Dolby Digital decoder leads you into a totally new sound experiences.

Dolby Digital is a new generation of multi-channel digital audio technology, or the newest spatial sound processing format developed for 35 mm film-movies by employing a new kind of low bit-rate audio coding.

Dolby Digital is a digital surround sound system that provides completely independent multi-channel audio to consumers. In multi-channel form, Dolby Digital provides five full range channels in what is sometimes referred to as a "3/2" configuration: three front channels (left, center and right), plus two surround channels. A sixth bass-only effect channel is also provided for output of LFE (low frequency effect), or low bass effects that are independent of other channels. This channel is counted as 0.1, thus giving rise to the term 5.1 channels in total.

Compared to Dolby Pro Logic that is referred to a "3/1" system (left front, center, right front and just one surround channel), Dolby Digital features two surround channels, called stereo or split surrounds, each offering the same full range fidelity as the three front channels.

Sound of wide dynamic range reproduced by the five full range channels presents listeners much excitement that has never been experienced before. Precise sound orientation by the discrete digital sound processing expands realism that the original movie possesses.

LD and DVD are home audio formats that could benefit from Dolby Digital. In the near future, Dolby Digital will also be applied to DBS, CATV and HDTV. The ongoing release of Dolby Stereo Digital theatrical films now underway will provide an immediate source of Dolby Digital encoded video software.

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Manufactured under license from Dolby Laboratories Licensing Corporation. "Dolby", "Pro Logic", and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation. Copyright 1992 Dolby Laboratories, Inc. All rights reserved.

The following original functions make the surround-sound effect of Dolby Digital become the most suitable for your audio system and the listening conditions.

- Dynamic range (sound scale) of source can be changed so that it will be suitable for the listening conditions.
- Output of low bass from any channel can be assigned to either the MAIN SPEAKERS terminals or SUBWOOFER terminal to maximize system performance.
- Output of LFE can be assigned to either the MAIN SPEAKERS terminals or SUBWOOFER terminal to maximize system performance.

Dolby Surround + DSP (CINEMA DSP)

Dolby Surround sound system shows its full ability in a large movie theater, because movie sounds are originally designed to be reproduced in a large movie theater using many speakers. It is difficult to create a sound environment similar to that of a movie theater in your listening room, because the room size, materials of inside walls, the number of speakers, etc. of your listening room is much different from those of a movie theater.

YAMAHA DSP technology made it possible to present you with nearly the same sound experience as that of a large movie theater in your listening room by compensating for lack of presence and dynamics in your listening room with its original digital sound fields combined with Dolby Surround sound field.

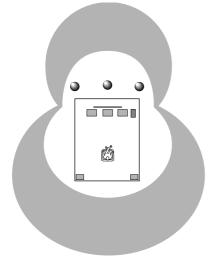
CINEMA DSP

The YAMAHA "CINEMA DSP" logo indicates those programs are created by the combination of Dolby Surround and YAMAHA DSP technology.

Dolby Pro Logic + 2 Digital Sound Fields

Digital sound fields are created on the presence side and the rear surround side of the Dolby Pro Logic Surround-decoded sound field respectively. They create a wide acoustic environment and emphasize surround-effect in the room, letting you feel much presence as if you are watching a movie in a popular Dolby Stereo theater.

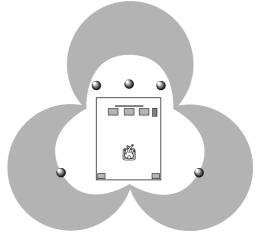
This combination is available when the sound field program DOLBY PRO LOGIC ENHANCED/DOLBY DIGITAL ENHANCED, 70 mm MOVIE THEATER/DIGITAL MOVIE THEATER or TV SPORTS is selected, and the input signal of source is analog, PCM audio or encoded with the Dolby Digital in 2-channel.



Dolby Digital + 3 Digital Sound Fields

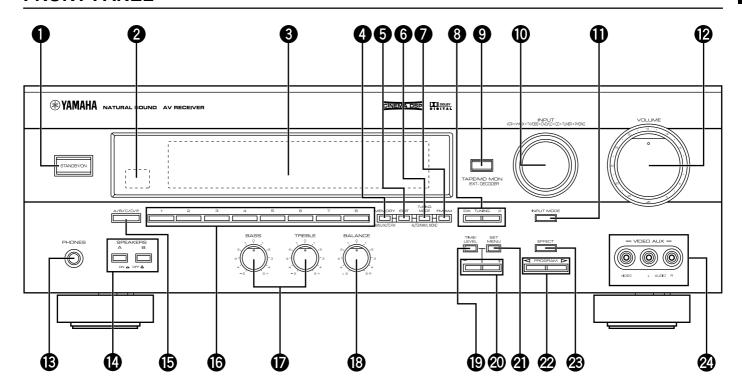
Digital sound fields are created on the presence side and the independent left and right surround sides of the Dolby Digital-decoded sound field respectively. They create a wide acoustic environment and much surround effect in the room without losing high channel separation. With wide dynamic range of Dolby Digital sound, this sound field combination lets you feel as if you are watching a movie in the newest Dolby Stereo Digital theater. This will be the most ideal home theater sound at the present time.

This combination is available when the sound field program DOLBY PRO LOGIC ENHANCED/DOLBY DIGITAL ENHANCED, 70 mm MOVIE THEATER/DIGITAL MOVIE THEATER or TV SPORTS is selected, and the input signal of source is encoded with the Dolby Digital (except in 2-channel).



CONTROLS AND THEIR FUNCTIONS

FRONT PANEL



1 STANDBY/ON

Press this switch to turn the power of this unit on. Press it again to turn this unit into the standby mode.

Standby mode

In this state, this unit consumes a very small quantity of power to receive infrared-signals from the remote control transmitter.

2 Remote control sensor

Receives signals from the remote control transmitter.

3 Display

Shows various information. (For details, refer to page 11.)

4 MEMORY (MAN'L/AUTO FM)

Press this button to store the broadcasting stations. When this button is pressed and held for more than three seconds, the automatic preset tuning begins.

5 EDIT

This button is used to exchange the places of two preset stations with each other.

6 TUNING MODE (AUTO/MAN'L MONO)

Press this button to switch the tuning mode to automatic or manual. To select the automatic tuning mode, press this button so that the "AUTO TUNING" indicator lights up on the display. To select the manual tuning mode, press this button so that the "AUTO TUNING" indicator goes off.

7 FM/AN

Press this button to switch the reception band to FM or AM.

8 TUNING UP/DOWN

This button is used for tuning. Press the UP side to tune in to higher frequencies, and press the DOWN side to tune in to lower frequencies.

9 TAPE/MD MON / EXT. DECODER

Press this button to play a tape or an MD. The "TAPE/MD MON" indicator lights up on the display.

When you press the button next, the "TAPE/MD MON" indicator goes off and "EXT. DECDR" appears on the display and you can play the signal connected to the **EXTERNAL DECODER INPUT** terminals.

1 INPUT

Turn this selector to select the program source (VCR, VIDEO AUX, TV/DBS, DVD/LD, CD, TUNER, PHONO) to listen to or watch.

The name of the selected program source appears on the display.

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1 INPUT MODE

Switches the DVD/LD and TV/DBS input signal mode (AUTO/ANALOG).

12 VOLUME

This control is used to raise or lower the volume level.

B PHONES jack

When you use headphones, connect the headphones to the **PHONES** jack. You can listen to the sound to be output from the main speakers through headphones.

When using headphones only, set both **SPEAKERS A** and **B** to the OFF position and switch off the digital sound field processor (so that no DSP program name appears on the display) by pressing **EFFECT**.



1 SPEAKERS

Set **A** or **B** (or both **A** and **B**) to the ON position for the main speaker system (connected to this unit) you will use. Set it (or them) for the main speaker system you will not use to the OFF position.

1 A/B/C/D/E

Press this button to select a group (A to E) of preset stations.

Preset station number selector

Select a preset station number (1 to 8).

Tone controls

These controls are effective only for the sound from the main speakers.

BASS

Used to increase or decrease the low frequency response. The "0" position produces flat response.

TREBLE

Used to increase or decrease the high frequency response. The "0" position produces flat response.

B BALANCE

This control is effective only for the sound from the main speakers.

Adjusts the balance of the output volume to the left and right speakers to compensate for sound imbalance caused by speaker location or listening room conditions.

19 TIME/LEVEL

Press this button to select the setting of delay time or speaker output levels in the TIME/LEVEL mode.

20 +/-

These buttons are used to adjust settings of the SET MENU mode and the TIME/LEVEL mode. In the TIME LEVEL mode, press + to increase delay time or speaker output levels. Press - to decrease delay time or speaker output levels.

3 SET MENU

Press this button to select functions in the SET MENU mode.

PROGRAM selector

Press \lhd or \triangleright to select the DSP program. The name of the selected program appears on the display.

2 EFFECT

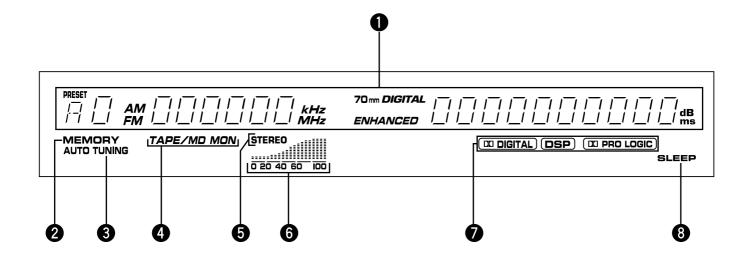
Switches on and off the output from the center and rear speakers so that the sound becomes normal 2-channel.

* Even if the output from the center and rear speakers is off, when the Dolby Digital is decoded, the signals at all channels are distributed to the main channels and output from the main speakers.

2 VIDEO AUX terminals

Connect an auxiliary video or audio input source unit such as a camcorder to these terminals. The source connected to these terminals can be selected by **INPUT**.

10



Multi-information display

Displays various information, for example station frequency, preset station number and name of selected input source.

2 MEMORY indicator

When **MEMORY** is pressed, this indicator flashes for about five seconds. During this period, the displayed station can be stored to the memory.

3 AUTO TUNING indicator

Lights up when this unit is in the automatic tuning mode.

4 TAPE/MD MON indicator

Lights up when the tape deck (or MD recorder etc.) is selected as the input source by pressing **TAPE/MD MON / EXT. DECODER** on the front panel or **TAPE/MD** on the remote control transmitter.

5 STEREO indicator

Lights up when an FM stereo broadcast with sufficient signal strength is received.

6 Signal-level meter

Indicates the signal level of the received station.

If multipath interference is detected, the indication decreases.

"IDIGITAL" lights up when the built-in Dolby Digital decoder is on and the signals of selected source encoded with the Dolby Digital is not in 2-channel. "IDSP" lights up when the built-in digital sound field processor is on, and "IDI PRO LOGIC" lights up when the built-in Dolby Pro Logic Surround decoder is on. Depending on the selected DSP program, both "IDIGITAL" and "IDSP", or both "IDSP" and "IDIGITAL" will light up.

8 SLEEP indicator

Lights up while the built-in SLEEP timer is functioning.

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SPEAKER SETUP

SPEAKERS TO BE USED

This unit is designed to provide the best sound-field quality with a 5-speaker configuration, using main speakers, rear speakers and a center speaker.

The main speakers are used for the main source sound plus the effect sounds. They will probably be the speakers from your present stereo system. The rear speakers are used for the effect and surround sounds, and the center speaker is for the center sounds (dialog, vocals, etc.). If for some reason it is not practical to use a center speaker, you can do without it. Best results, however, are obtained with the full system.

The main speakers should be high performance models and have enough power handling capacity to accept the maximum output of your audio system.

Other speakers do not have to be equal to the main speakers. For precise sound localization, however, it is ideal to use high performance models that can reproduce sounds in the full range for the center speaker and the rear speakers.

Use of a subwoofer expands your sound field

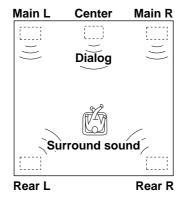
It is also possible to further expand your system with the addition of a subwoofer and amplifier. The use of a subwoofer is effective not only for reinforcing bass frequencies from any or all channels, but also for reproducing the LFE (low frequency effect) sound with high fidelity when playing back a source with the Dolby Digital decoded. You may wish to choose the convenience of a YAMAHA Active Servo Processing Subwoofer System, which has its own built-in power amplifier.

SPEAKER CONFIGURATION

5-Speaker Configuration

This configuration is the most effective and recommended one. When playing back a source using the DSP program, DOLBY PRO LOGIC/DOLBY DIGITAL, DOLBY PRO LOGIC ENHANCED/DOLBY DIGITAL ENHANCED, 70 mm MOVIE THEATER/DIGITAL MOVIE THEATER, MONO MOVIE or TV SPORTS, or when playing back a source which contains center-channel signals (dialog, vocals, etc.) using any DSP program with the Dolby Digital decoded, conversations will be output from the center speaker and the ambience will be excellent.

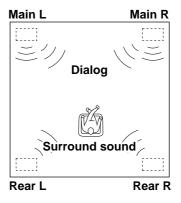
Note: Set the CNTR (CENTER SPEAKER) mode to the "LARGE" or "SMALL" position. (For details, see page 22.)



4-Speaker Configuration

The center speaker is not used in this configuration. When playing back a source using the DSP program, DOLBY PRO LOGIC/DOLBY DIGITAL, DOLBY PRO LOGIC ENHANCED/ DOLBY DIGITAL ENHANCED, 70 mm MOVIE THEATER/ DIGITAL MOVIE THEATER, MONO MOVIE or TV SPORTS, or when playing back a source which contains center-channel signals (dialog, vocals, etc.) using any DSP program with the Dolby Digital decoded, the center sound is output from the left and the right main speakers. However, the sound effect of other programs will be the same as that of the 5-speaker configuration.

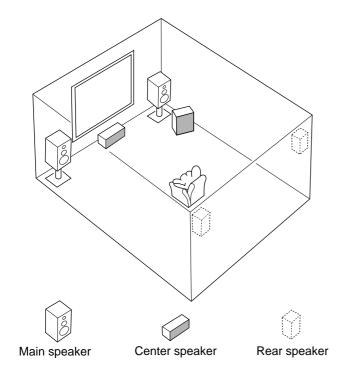
Note: Be sure to set the CNTR (CENTER SPEAKER) mode to the "**NONE**" position. (For details, see page 22.)



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SPEAKER PLACEMENT

When you place the speakers, refer to the following diagram:



The position of your present stereo speaker Main:

system.

Behind your listening position, facing slightly Rear:

inward. Nearly 1.8 m (approx. 6 feet) up from the

floor.

Center: Precisely between the main speakers. (To avoid

interference with TV sets, use a magnetically

shielded speaker.)

Subwoofer: The position of the subwoofer is not so critical

because low bass tones are not highly directional.

Subwoofer

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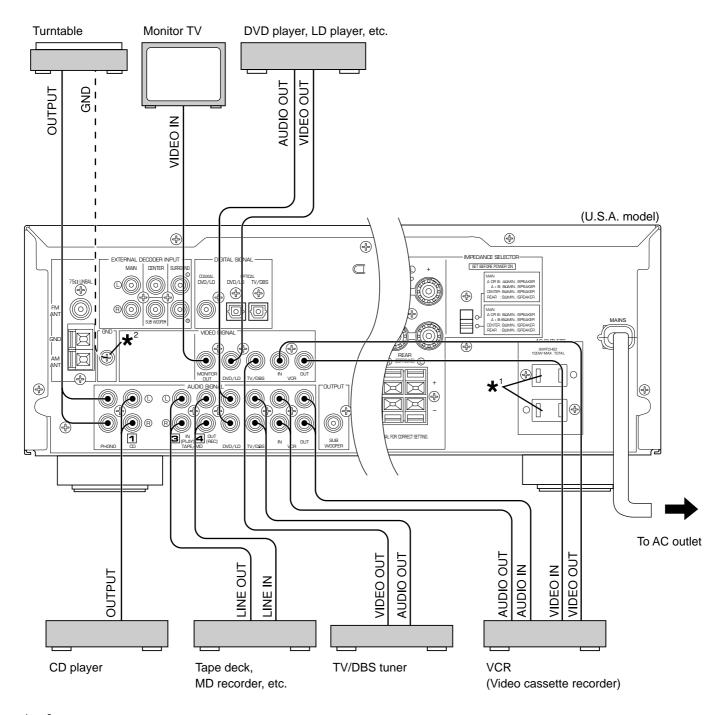
CONNECTIONS

Never plug in this unit and other components until all connections are completed.

CONNECTIONS WITH OTHER COMPONENTS

When making connections between this unit and other components, be sure all connections are made correctly, that is to say L (left) to L, R (right) to R, "+" to "+" and "-" to "-". Also, refer to the owner's manual for each component to be connected to this unit.

* If you have YAMAHA components numbered as 1, 3, 4, etc. on the rear panel, connections can be made easily by making sure to connect the output (or input) terminals of each component to the same-numbered terminals of this unit.



 \bigstar^1 , \bigstar^2 : See the next page.

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★¹ SWITCHED AC OUTLET(S)

Use these to connect the power cords from your components to this unit.

The power to the **SWITCHED** outlets is controlled by this unit's **STANDBY/ON** or the provided remote control transmitter's **POWER** and **STANDBY**. These outlets will supply power to any component whenever this unit is turned on.

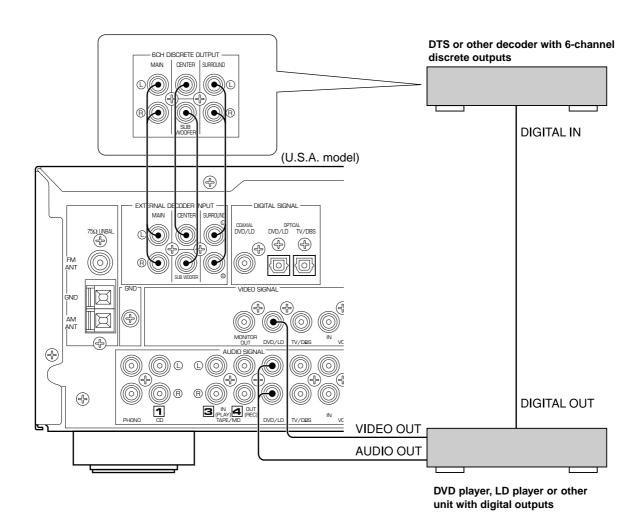
The maximum power (total power consumption of components) that can be connected to the **SWITCHED AC OUTLET(S)** is 100 watts.

★² GND terminal (For turntable use)

Connecting the ground wire of the turntable to the **GND** terminal will normally minimize hum, but in some cases better results may be obtained with the ground wire disconnected.

CONNECTING TO AN EXTERNAL DECODER

When using the DTS or other decoder with 6-channel discrete outputs, connect the **6CH DISCRETE OUTPUT** terminals of the decoder to the **EXTERNAL DECODER INPUT** terminals of this unit.



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CONNECTING TO DIGITAL (COAXIAL AND/OR OPTICAL) TERMINALS

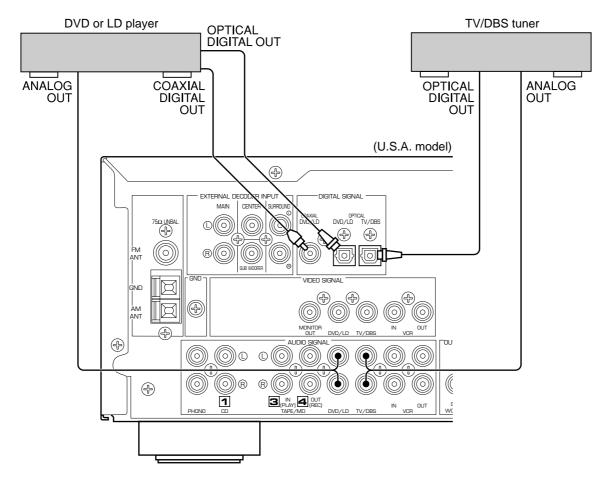
If your DVD (LD) player, TV/DBS tuner, etc. are equipped with coaxial or optical digital audio signal output terminals, they can be connected to this unit's **COAXIAL** and/or **OPTICAL** digital signal input terminals.

To make a connection between optical digital audio signal terminals, remove the cover from each terminal, and then connect them by using a commercially available optical fiber cable that conforms to EIAJ standards. Other cables might not function correctly.

Even if you connect an audio/video unit to the **COAXIAL** (or **OPTICAL**) terminal of this unit, you must keep the unit connected with the same named analog audio signal terminals of this unit, because digital signal cannot be recorded by a tape deck or VCR connected to this unit. You can switch the selection of input signals between "digital" and "analog" easily. (See page 29 for details.)

Notes

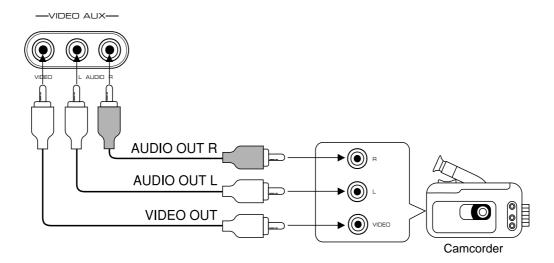
- When connecting an audio/video unit to both of the digital and analog terminals of this unit, make sure to connect to both terminals of the same name.
- Be sure to attach the covers when the OPTICAL terminals are not being used, in order to protect the terminals from dust
- The input signal from the DVD/LD input terminals is selected in the following order of priority. (input mode: AUTO position)
 - 1 COAXIAL terminal
 - 2 OPTICAL terminal
 - 3 ANALOG terminal
- All digital audio signal input terminals are applicable to the sampling frequency of 32 kHz, 44.1 kHz and 48 kHz.



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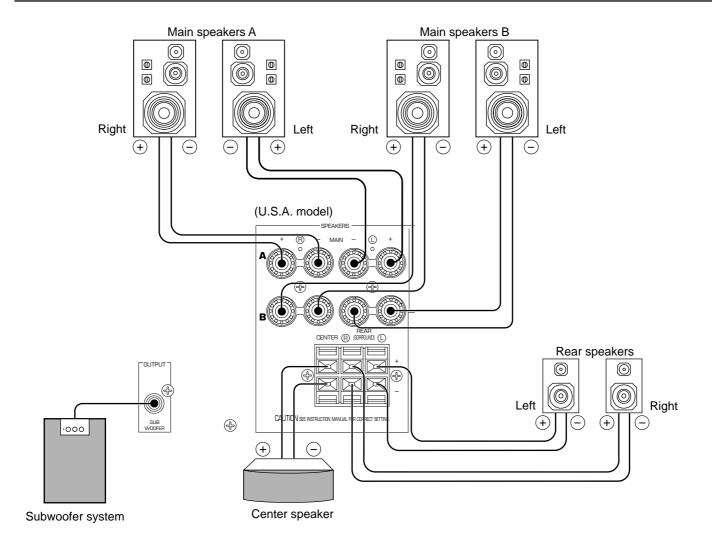
CONNECTING TO VIDEO AUX TERMINALS (ON THE FRONT PANEL)

These terminals are used to connect any video input source, such as a camcorder, to this unit.



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CONNECTING SPEAKERS



Note

Use speakers with the specified impedance shown on the rear panel of this unit.

Note on main speaker connections:

One or two speaker systems can be connected to this unit. If you use only one speaker system, connect it to either the **SPEAKERS A** or **B** terminals.

Note on a subwoofer connection:

You may wish to add a subwoofer to reinforce low frequencies or to output low bass sound from the subwoofer channel. If you have a subwoofer with built-in amplifier, including the YAMAHA Active Servo Processing Subwoofer System, connect the **SUBWOOFER OUTPUT** terminal of this unit to the input terminal of the subwoofer system.

If you have an amplifier and a subwoofer, connect the **SUBWOOFER OUTPUT** terminal of this unit to the input terminal of the subwoofer amplifier, and then connect the speaker terminals of the subwoofer amplifier to the subwoofer. When the input signals to this unit are in normal 2-channel stereo, this terminal outputs only frequencies below 90 Hz from the main and center channels. When discrete signals are input to this unit and are selected as the input source, this terminal outputs signals from the subwoofer channel.

Note on center speaker connection:

Center speaker can be connected to this unit. Place it on or under the TV.

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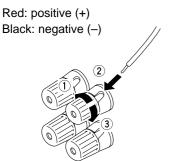
How to connect

Connect the **SPEAKERS** terminals to your speakers with wire of the proper gauge, cut as short as possible. If the connections are faulty, no sound will be heard from the speakers. Make sure that the polarity of the speaker wires is correct, that is the + and – markings are observed. If these wires are reversed, the sound will be unnatural and lack bass.

Caution

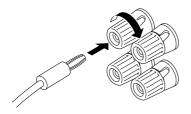
Do not let the bare speaker wires touch each other and do not let them touch any metal part of this unit. This could damage this unit and/or speakers.

For connecting to the MAIN SPEAKERS terminals

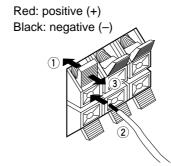


- 1 Unscrew the knob.
- ② Insert the bare wire. [Remove approx. 5 mm (1/4") insulation from the speaker wires.]
- 3 Tighten the knob and secure the wire.

Banana plug connections are also possible (except for Singapore model). Simply insert the banana plug connector into the corresponding terminal.



For connecting to the REAR and CENTER SPEAKERS terminals



- ① Press the tab.
- ② Insert the bare wire. [Remove approx. 5 mm (1/4") insulation from the speaker wires.]
- 3 Release the tab and secure the wire.

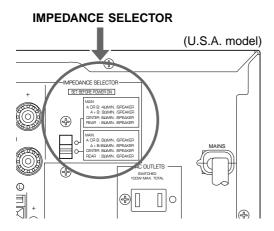
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IMPEDANCE SELECTOR SWITCH

WARNING

Do not change the **IMPEDANCE SELECTOR** switch setting while the power of this unit is on, otherwise this unit may be damaged.

IF THIS UNIT FAILS TO TURN ON WHEN THE STANDBY/ ON SWITCH IS PRESSED, the **IMPEDANCE SELECTOR** switch may not be fully set to either end. If so, set the switch to either end fully.



Select the position whose requirements your speaker system meets.

(Upper position)

Main: If you use one pair of main speakers, the impedance of each speaker must be 4Ω or higher.

If you use two pairs of main speakers, the impedance of each speaker must be 8Ω or higher.

Center: The impedance of the speaker must be 6Ω or higher.

Rear: The impedance of each speaker must be 6Ω or higher.

(Lower position)

Main: If you use one pair of main speakers, the impedance of

each speaker must be 8Ω or higher.

If you use two pairs of main speakers, the impedance of each speaker must be 16Ω or higher.

Center: The impedance of the speaker must be 8Ω or higher.

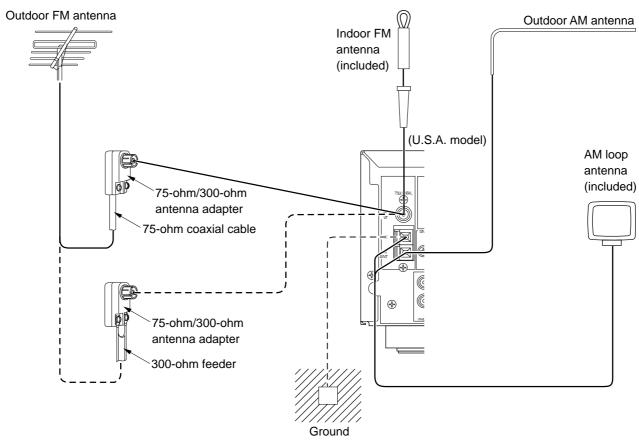
Rear: The impedance of each speaker must be 8Ω or higher.

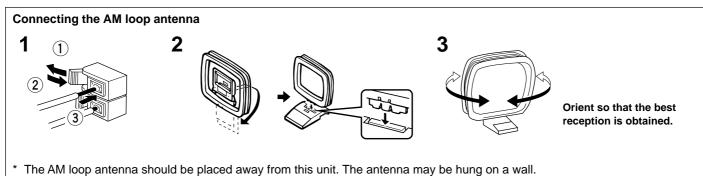
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ANTENNA CONNECTIONS

Each antenna should be correctly connected to the designated terminals, referring to the following diagram.

Both AM and FM indoor antennas are included with this unit. In general, these antennas will probably provide sufficient signal strength. Nevertheless, a properly installed outdoor antenna will give clearer reception than an indoor one. If you experience poor reception quality, an outdoor antenna may result in improvement.





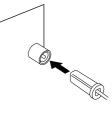
The AM loop antenna always should be connected, even if an outdoor AM antenna is connected to this unit.

GND TERMINAL

For maximum safety and minimum interference, connect the **GND** terminal to a good earth ground. A good earth ground is a metal stake driven into moist earth.

Notes

- When connecting the indoor FM antenna, insert its connector into the FM ANT terminal firmly.
- If you need an outdoor FM antenna to improve FM reception quality, either 300-ohm feeder or coaxial cable may be used. In locations troubled by electrical interference, coaxial cable is preferable.



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ADJUSTMENTS BEFORE USING THIS UNIT

SELECTING THE OUTPUT MODES

This unit provides you the following five functions to determine the method of distributing output signals to speakers suitable for your audio system. When speaker connections are all completed, select a proper position on each function to make the best use of your speaker system. (See "ADJUSTMENTS IN THE 'SET MENU' MODE" on page 43.)

1. CNTR (CENTER SPEAKER)

2. REAR (REAR SPEAKER)

3. MAIN (MAIN SPEAKER)

4. BASS (LFE/BASS OUT)

5. M.LVL (MAIN LEVEL)

DESCRIPTION OF EACH FUNCTION

1. CNTR (CENTER SPEAKER)

Choices: LARGE/SMALL/NONE **Preset position: LARGE**

LARGE: Select this position when your center speaker is approximately the same size as the main speakers.

SMALL: Select this position when you use a center speaker

that is smaller than the main speakers.

In this position, low bass signals (below 90 Hz) at the center channel are output from the main speakers (or the SUBWOOFER OUTPUT terminal if the SMALL position is selected on "3. MAIN" and the SW position

is selected on "4. BASS").

NONE: Select this position when you do not have a center

speaker. The center channel sound will be output

from the left and right main speakers.

2. REAR (REAR SPEAKER)

Choices: LARGE/SMALL **Preset position: LARGE**

LARGE: Select this position if your rear speakers have a high

ability for bass reproduction, or a subwoofer is connected to the rear speaker in parallel. In this position, full range signals are output from the

rear speakers.

SMALL: Select this position if your rear speakers do not have

a high ability for bass reproduction.

In this position, low bass signals (below 90 Hz) at the rear channels are output from the SUBWOOFER **OUTPUT** terminal (or the main speakers if the MAIN

position is selected on "4. BASS").

3. MAIN (MAIN SPEAKER)

Choices: LARGE/SMALL **Preset position: LARGE**

LARGE: Select this position if your main speakers have a

high ability for bass reproduction.

In this position, full range signals present at the main channels are output from the main speakers.

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SMALL: Select this position if your main speakers do not have a high ability for bass reproduction. However, if your system does not include a subwoofer, do not select this position.

> In this position, low bass signals (below 90 Hz) at the main channels are output from the SUBWOOFER **OUTPUT** terminal if the SW or BOTH position is

selected on "4. BASS".

4. BASS (LFE/BASS OUT)

Choices: SW/MAIN/BOTH Preset position: SW

MAIN: Select this position if your system does not include a

In this position, full range signals present at the main channels, signals from the LFE channel and other low bass signals that are selected on "1. CNTR" to "3. MAIN" to be distributed from other channels are

output from the main speakers.

SW/BOTH:

Select either the SW or BOTH position if your system includes a subwoofer.

In either position, signals at LFE channel and other low bass signals that are selected on "1. CNTR" to "3. MAIN" to be distributed from other channels are output from the SUBWOOFER OUTPUT terminal. When the LARGE position is selected on "3, MAIN". in the SW position, no signal is distributed from the main channels to the SUBWOOFER OUTPUT terminal, however in the BOTH position, low bass signals from the main channels are output to both of the main speakers and the SUBWOOFER OUTPUT terminal

5. M.LVL (MAIN LEVEL)

Choices: NORMAL (NRML)/-10 dB Preset position: NORMAL (NRML)

NORMAL (NRML):

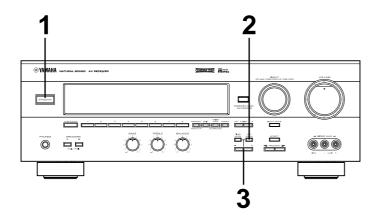
Normally select this position.

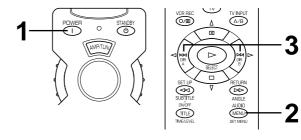
Select this position if the sound output from the main speakers is too loud and cannot be balanced with the sound output from the center and rear speakers. In this position, the sound output from the main speakers is attenuated.

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ADJUSTING METHOD

Operations should be made while watching the information on this unit's display.





If you are using the remote control transmitter, set the **SELECTOR DIAL** to the AMP/TUN or DSP position on the remote control transmitter.



or



1 Turn the power on.







or



Press **SET MENU** once or more to select the title "1. CNTR" (so that "CNTR" appears on the display).

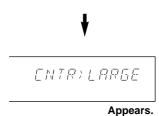
Front panel



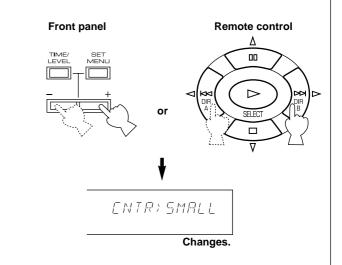




* After pressing **SET MENU** once on the remote control transmitter, you can also select the title by pressing *∇*. (Pressing ∆ goes back one selection.)



Press + or – once or more to select the position you want.



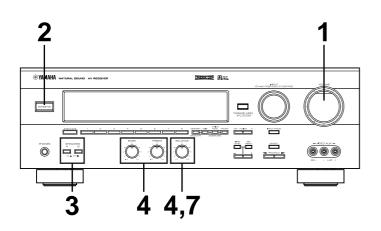
4 Repeat steps 2 and 3 to change selections on "2. REAR", "3. MAIN", "4. BASS" and/or "5. M.LVL" in the same way.

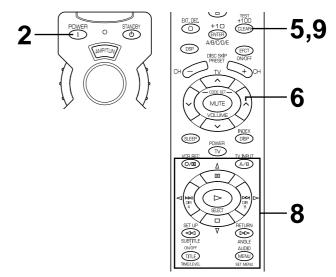
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SPEAKER BALANCE ADJUSTMENT

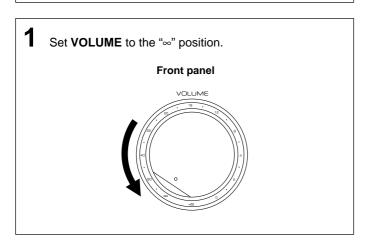
This procedure lets you adjust the sound output level balance between the main, center and rear speakers using the built-in test tone generator. When this adjustment is performed, the sound output level heard at the listening position will be the same from each speaker. This is important for the best performance of the digital sound field processor, the Dolby Digital decoder and the Dolby Pro Logic Surround decoder.

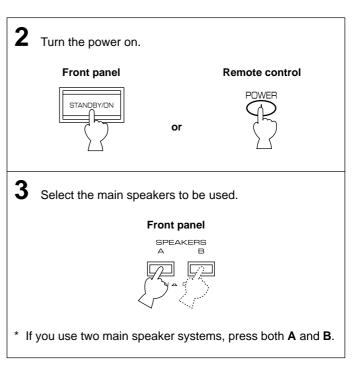
The adjustment of each speaker output level should be done at your listening position with the remote control transmitter. After completing the adjustment of the output level for each speaker, use VOLUME ($\land \lor$) on the remote control transmitter at your listening position to check if the adjustments are satisfactory.



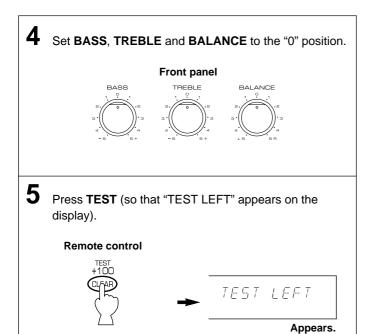


Set the **SELECTOR DIAL** to the AMP/TUN or DSP position on the remote control transmitter.



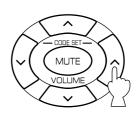


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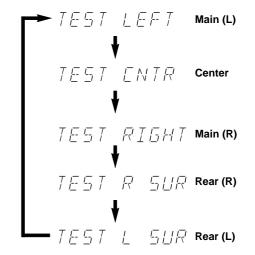


6 Turn up the volume.

Remote control



You will hear a test tone (like pink noise) from the left main speaker, then the center speaker, then the right main speaker, then the right rear speaker, and then the left rear speaker, for about two seconds each. The display changes as shown below.

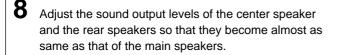


- * If the function "1. CNTR" in the SET MENU mode is set to the NONE position, you will hear the center channel test tone from the left and right main speakers.
- Adjust **BALANCE** so that the sound output level of the left main speaker and the right main speaker is the same.

Front panel



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Remote control



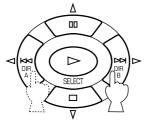
- a) Press Δ or ∇ once or more so that "CENTER", "R SUR." or "L SUR." appears on the display.
 - * Select "CENTER" to adjust the output level of the center speaker and select "R SUR." or "L SUR." to adjust the output level of the rear speakers.

Remote control



- b) Adjust the level.
 - * Pressing ⊳ raises and ⊲ lowers the level.
 - * While adjusting, the test tone is fixed on the selected speaker.

Remote control



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Press **TEST** once more to cancel the test tone.

Remote control



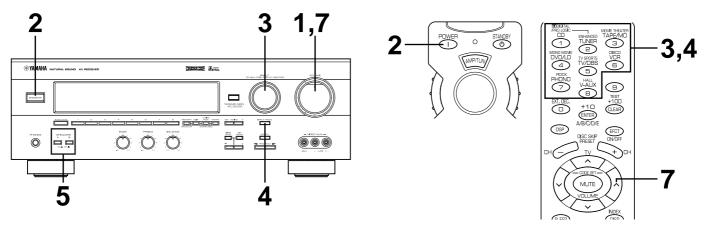
"TEST" disappears.

Notes

- · Once you have completed these adjustments, you can adjust the overall sound level on your audio system by using **VOLUME** (or **VOLUME** ($\land \lor$) on the remote control transmitter) only.
- If you use external power amplifiers, you may also use their volume controls to achieve the proper balance.
- If the function "1. CNTR" in the SET MENU mode is set to the NONE position, the sound output level of the center speaker cannot be adjusted in step 8. The center sound is automatically output from the left and right main speakers.
- If there is insufficient sound output from the center and rear speakers, you may decrease the main speaker output level by setting "5. M.LVL" to "-10 dB".

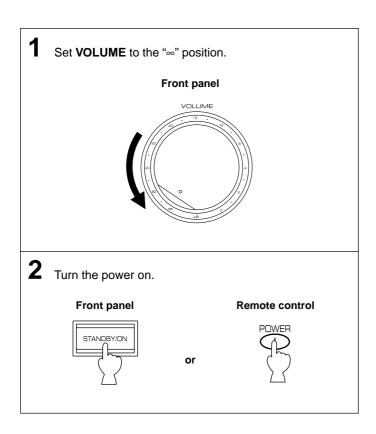
BASIC OPERATIONS

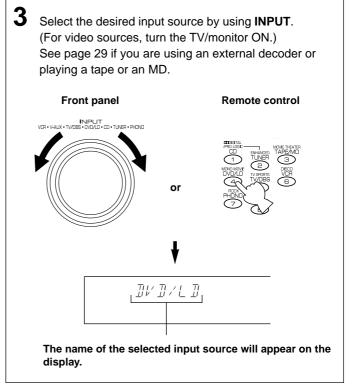
TO PLAY A SOURCE



Notes

- Set the **SELECTOR DIAL** to the AMP/TUN position on the remote control transmitter.
- To operate the CD player, DVD/LD player, tape deck, MD recorder, or other components using this remote control transmitter, set the **SELECTOR DIAL** to the component to be used. (See "SETUP CODES" on page 50.)

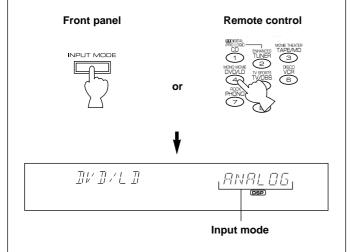




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4 For the DVD/LD or TV/DBS source, the current input mode is also shown.

* To change the input mode for the DVD/LD or TV/DBS source, press **INPUT MODE** (or the button that you have pressed to select the input source in step 3 on the remote control transmitter) once or more until the desired input mode (AUTO or ANALOG) is shown on the display. (See page 29 for details on switching the input mode.)



5 Select the main speakers to be used.

Front panel SPEAKERS A B

- * If you use two main speaker systems, press both A and B.
- 6 Play the source. (For detailed information on tuning, see page 31.)
- Adjust the volume to the desired output level.

 Front panel

 Remote control

 OF MUTE

 VOLUME

 OF WOLLIME

 OF WOLLIME

 VOLUME

 VOLUME

8 If desired, adjust BASS, TREBLE, BALANCE, etc. (see below) and use the digital sound field processor. (see page 37.)

Selecting the SPEAKER system

Because one or two speaker systems (as main speakers) can be connected to this unit, **SPEAKERS** allow you to select speaker system **A** or **B**, or both at once.



Adjusting the BALANCE control

Adjust the balance of the output volume from the left and right speakers to compensate for sound imbalances caused by speaker location or listening room conditions.



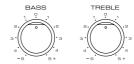
Note

This control is effective only for the sound from the main speakers.

Adjusting the BASS and TREBLE controls

BASS: Turn this clockwise to increase (or counter-clockwise to decrease) the low frequency response.

TREBLE: Turn this clockwise to increase (or counter-clockwise to decrease) the high frequency response.



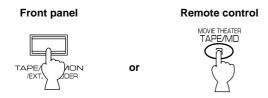
Note

These controls are effective only for the sound from the main speakers.

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To play a tape or an MD

Press **TAPE/MD MON / EXT. DECODER** so that the "TAPE/MD MON" indicator lights up on the display, then play the tape or MD.

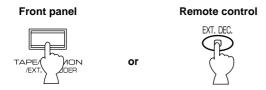


To stop playing the tape or MD, press **TAPE/MD MON / EXT. DECODER** twice so that the "TAPE/MD MON" indicator and "EXT. DECDR" disappear from the display and the play stops (or press **TAPE/MD** once on the remote control transmitter).

To use a decoder connected to the EXTERNAL DECODER INPUT terminals

Press **TAPE/MD MON / EXT. DECODER** once or more so that the "EXT. DECDR" appears on the display.

Start the play by operating the DTS or other external decoder, DVD player or LD player.



To stop playing, press **TAPE/MD MON / EXT. DECODER** once so that "EXT. DECDR" disappears from the display and the play stops (or press **EXT. DEC.** on the remote control transmitter).

When you finish using this unit

Press **STANDBY/ON** on the front panel again or **STANDBY** on the remote control transmitter to turn this unit into the standby mode.

Notes on using INPUT

- By using INPUT, you can select the program sources connected to the input terminals on the rear panel.
- To play a video source connected to the VIDEO AUX terminals on the front panel, set INPUT to the VIDEO AUX position.
- The audio source selected by INPUT will not be played if the "TAPE/MD MON" indicator lights up or if "EXT. DECDR" is displayed.
- If you select INPUT for a video source without canceling the selection of TAPE/MD MON / EXT. DECODER on the front panel (or, TAPE/MD or EXT. DEC. on the remote control transmitter), the playback result will be the video image from the video source and the sound from the input source selected by TAPE/MD MON / EXT. DECODER on the front panel (or, TAPE/MD or EXT. DEC. on the remote control transmitter).

- Once you play a video source, its video image will not be interrupted even if **INPUT** for an audio source is selected.
- When you select an input source by using INPUT, the DSP program (or no DSP program) that was used when the same input source was selected the last time, will be automatically recalled.

Switching the input mode (for DVD/LD and TV/DBS)

This unit allows you to switch the input mode only for sources connected to the DVD/LD and TV/DBS input terminals (on the rear panel of this unit) that input two or three types of signals.

The following two input modes are provided.

AUTO: For the source connected to the DVD/LD input terminals:

This mode is automatically selected when you turn the power of this unit on. In this mode, input signal is automatically selected in the following order of priority.

- 1. Digital input signal from the COAXIAL terminal
- 2. Digital input signal from the OPTICAL terminal
- 3. Analog input signal

For the source connected to the TV/DBS input terminals:

This mode is selected when you turn the power of this unit on if the AUTO position is selected on "10. INPUT" in the SET MENU mode. (For details, see page 44.) In this mode, input signal is automatically selected in the following order of priority.

- 1. Digital input signal from the **OPTICAL** terminal
- 2. Analog input signal

ANALOG:

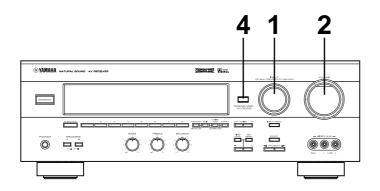
In this mode, only analog input signal is selected even if a digital signal is input at the same time. Select this mode when you want to use the analog input signal instead of the digital input signal.

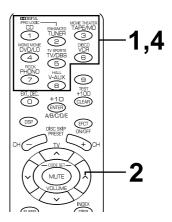
Notes on input mode selection

- To playback a source with the Dolby Digital-decoded, set the input mode to AUTO.
- For the TV/DBS source only, the input mode selected on the function "10. INPUT" in the SET MENU mode is effective when you turn the power of this unit on.
- When you want to enjoy a source which has normal 2-channel signals with a Dolby Pro Logic Surround program, select the ANALOG mode.
- In the AUTO mode, there may be a case depending on some LD players or DVD players that when you make a search on a source encoded with the Dolby Digital during the play and then the play is restored, sound output is interrupted for a moment because the digital input signal is selected again.

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TO RECORD A SOURCE TO TAPE OR MD





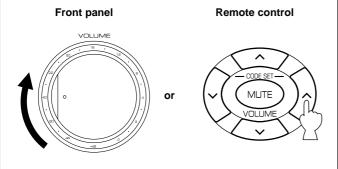
Select the source to be recorded.

Front panel

Remote control

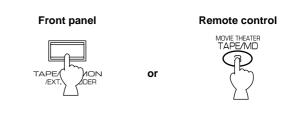
NOTE: NAME: TO A PROPER TO

Play the source and then turn VOLUME up to confirm the input source. (For detailed information on tuning, see page 31.)



3 Begin recording on the tape deck, MD recorder or VCR connected to this unit.

When the tape deck or MD recorder is used for recording, you can monitor the sounds being recorded by pressing TAPE/MD MON / EXT. DECODER so that the "TAPE/MD MON" indicator lights up on the display.



Notes

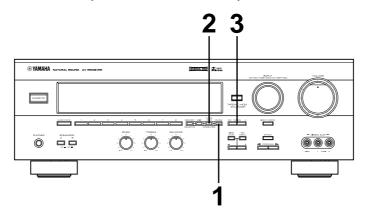
- The settings of DSP and VOLUME, BASS, TREBLE and BALANCE have no effect on the material being recorded.
- A source that is connected to this unit through digital terminals only cannot be recorded by a tape deck or VCR connected to this unit.
- Please check the copyright laws in your country to record from records, compact discs, radio, etc. Recording of copyright material may infringe copyright laws.

If you watch a video software that uses scrambled or encoded signals to prevent it from being dubbed, there may be a case that the picture itself will be affected by those signals.

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TUNING OPERATIONS

Set the **SELECTOR DIAL** to the AMP/TUN position on the remote control transmitter and select the tuner by using **INPUT**. Normally, if station signals are strong and there is no interference, quick automatic-search tuning (AUTOMATIC TUNING) is possible. However, if the signal from the station you want to select is weak, you must tune in to it manually (MANUAL TUNING).



AUTOMATIC TUNING

1 Select the reception band (FM or AM) confirming it on the display.

Front panel

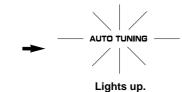




Press TUNING MODE (so that the "AUTO TUNING" indicator lights up on the display).

Front panel





To tune in to a higher frequency, press the UP side of **TUNING** once.

To tune in to a lower frequency, press the DOWN side of **TUNING** once.

Front panel



- * If the station where the tuning search stops is not the desired one, press once more.
- * If the tuning search does not stop at the desired station (because the signal from the station is weak), operate the manual tuning procedure.

MANUAL TUNING

Select the reception band (FM or AM) confirming it on the display.

Front panel

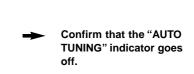




2 Press TUNING MODE.

Front panel





3 Tune in to the desired station manually.

Front panel



* To continue the tuning search, press and hold the button.

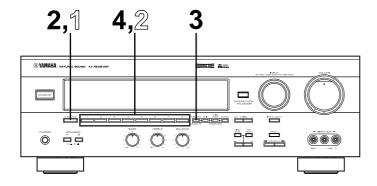
Note

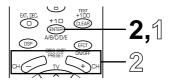
• If you tune in to an FM station manually, it is received in monaural mode automatically to increase the signal quality.

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MANUAL PRESETTUNING

This unit can store station frequencies selected by tuning. With this function, you can recall any desired station simply by selecting the preset station number with which it was stored. Up to 40 stations (8 stations x 5 groups) can be stored.





To store stations

- Tune in to the desired station.
 (See the previous page for tuning procedure.)
- Press A/B/C/D/E once or more to select the desired group (A to E) of preset stations confirming it on the display.

Front panel Remote control

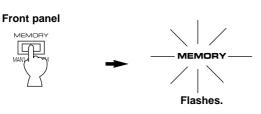
A/B/C/D/E

or

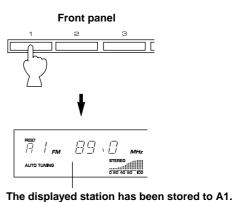
A/B/C/D/E

A

3 Press **MEMORY** (so that the "MEMORY" indicator flashes for about five seconds).



4 Select the preset station number with which you want to store the station before the "MEMORY" indicator goes off from the display.



- $^{\star}\,$ In the same way, store other stations to A2, A3 ... A8.
- * You can store more stations to preset station numbers in other groups in the same way by selecting other groups in step 2.

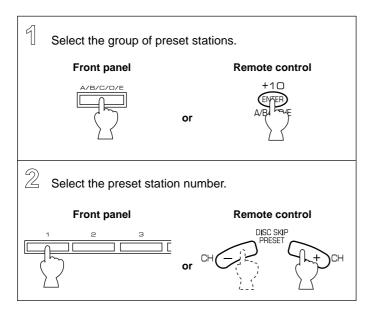
32

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33

To recall a preset station

(See the illustration on previous page.)



Notes

- A new setting can be stored in place of the former one.
- For presets, the setting of the reception mode (stereo or monaural) is stored along with the station frequency.

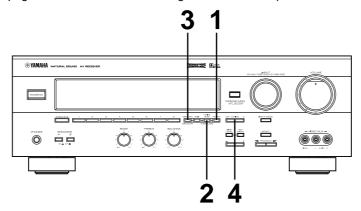
Memory back-up

The memory back-up circuit prevents the stored data from being lost even if this unit is turned into the standby mode, or the power plug is disconnected from the AC outlet, or the power is cut due to temporary power failure. If, however, the power is cut for more than one week, the memory may be erased. If so, it can be re-stored by simply following the preset tuning procedures.

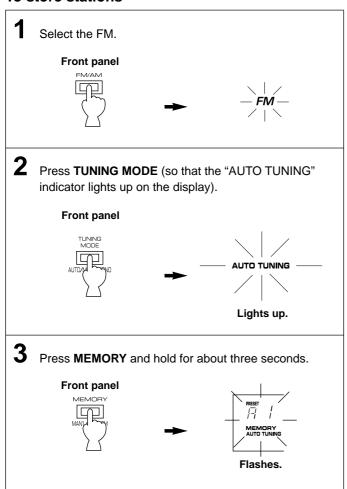
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AUTOMATIC PRESET TUNING (For FM stations only)

You can also make use of an automatic preset tuning function for FM stations only. Using this function, this unit performs automatic tuning and sequentially stores FM stations with strong signals. Up to 40 stations are stored automatically in the same way as in the manual preset tuning method on page 32. Note that a new setting can be stored in place of the former one.



To store stations



4 To tune in to higher frequencies, press the UP side of **TUNING** once.

To tune in to lower frequencies, press the DOWN side of **TUNING** once.



* If **TUNING** is not pressed, in a while, the automatic preset tuning begins automatically toward higher frequencies.

The automatic preset tuning begins from the frequency currently displayed. Received stations are stored to A1, A2 ... A8 sequentially.

* If more than 8 stations are received, they are also stored to the preset station numbers in other groups (B, C, D and E) in that order.

If you want to store the first station received by the automatic preset tuning to a desired preset station number.

For example, if you want to store the first received station to C5, select "C5" while "A1", the "MEMORY" indicator and the "AUTO TUNING" indicator flash after pressing **MEMORY** in step 3. Then press **TUNING**. The first received station is stored to C5, and next stations to C6, C7 ... sequentially.

If stations are stored up to E8, automatic preset tuning stops automatically.

When automatic preset tuning is finished

The display shows the frequency of the last preset station. Check the contents and the number of preset stations by following the procedures in the section "To recall a preset station" on page 33.

34

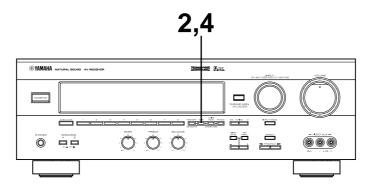
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Notes

- You can replace a preset station with another FM or AM station manually by simply following the procedures in the section "To store stations" on page 32.
- Even if the number of received stations is not enough to be stored up to E8, the search is finished automatically after searching all frequencies.
- With this function, only FM stations with sufficient signal strength are stored automatically. If the station you want to store is weak in signal strength, tune in to it in monaural manually and store it by following the procedures in the section "To store stations" on page 32.

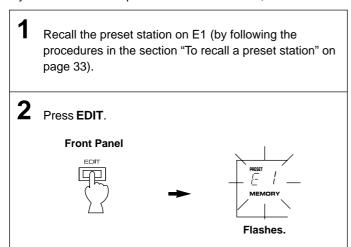
EXCHANGING PRESET STATIONS

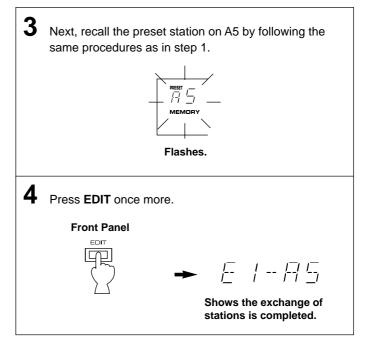
You can exchange the places of two preset stations with each other as shown below.



Example

If you want to shift the preset station on E1 to A5, and vice versa.





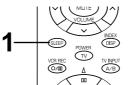
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SETTING THE SLEEP TIMER

If you use the SLEEP timer of this unit, you can make this unit automatically switch to the standby mode. When you are going to sleep while enjoying a broadcast or other desired input source, this timer function is useful. The SLEEP timer can be controlled only with the remote control transmitter.

Notes

- To set the SLEEP timer for this unit, set the **SELECTOR DIAL** to a position other than the TV position. To set the SLEEP timer for your TV, set the **SELECTOR DIAL** to the TV position.
- The components on which the SLEEP timer is effective are the sources connected to the **SWITCHED AC OUTLET(S)** on the rear panel of this unit.

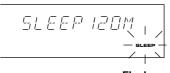


To set the SLEEP time

1 Press **SLEEP** once or more to select the desired SLEEP time.

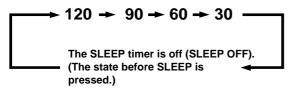






Whenever **SLEEP** is pressed, the SLEEP time will change as follows.

(Minutes)



After a while, the "SLEEP" indicator lights up and the display returns to the indication before the SLEEP timer was set.

2

The unit will be switched to the standby mode automatically at the selected SLEEP time.

To cancel the selected SLEEP time

Remote control



Press **SLEEP** once or more so that "SLEEP OFF" appears on the display. (It will soon disappear and the "SLEEP" indicator will go off from the display.)

Note

The SLEEP timer setting can also be canceled by tuning this unit into the standby mode with **STANDBY/ON** on the front panel (or **STANDBY** on the remote control transmitter) or disconnecting the power plug of this unit from the AC outlet.

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USING DIGITAL SOUND FIELD PROCESSOR (DSP)

This unit incorporates a sophisticated, multi-program digital sound field processor. The processor allows you to electronically expand and change the shape of the audio sound field from both audio and video sources, creating a theater-like experience in your listening room. You can create an excellent audio sound field by selecting a suitable sound field program (this will, of course, depend on what you are listening to), and adding any desired adjustments.

The following list gives you a brief description of the sound fields produced by each of the DSP programs. Keep in mind that most of these are precise digital recreations of actual acoustic environments. The data for these sound fields was recorded at actual locations using sophisticated sound field measurement equipment.

Note

The channel level balance between the left and right rear speakers may vary depending on the sound field you are listening to. This is due to the fact that most of these sound field are re-creation of actual acoustic environments.

BRIEF OVERVIEW OF DIGITAL SOUND FIELD PROGRAMS

No.	PROGRAM	FEATURE				
1	DOLBY PRO LOGIC (PRO LOGIC) Functions when the input signal is analog or PCM audio, or encoded with the Dolby Digital in 2-channel. Speaker output: main, center, rear DOLBY DIGITAL (DIGITAL) Functions when the input signal is encoded with the Dolby Digital (not in 2-channel). Speaker output: main, center, rear	Reproduces video discs, video tapes and similar sources whare Dolby Surround encoded and bear the "DOLBY SUR-ROUND" logo. The built-in Dolby Pro Logic Surround decoder or Dolby Digit decoder precisely reproduces sounds and sound effects of a source encoded with Dolby Surround. The realization of a highly efficient decoding process improves crosstalk and channel separation and makes sound positioning smoother and more precise.				
2	DOLBY PRO LOGIC ENHANCED (DSP DI PRO LOGIC) Functions when the input signal is analog or PCM audio, or encoded with the Dolby Digital in 2-channel. Speaker output: main, center, rear DOLBY DIGITAL ENHANCED (DIGITAL DSP) Functions when the input signal is encoded with the Dolby Digital (not in 2-channel). Speaker output: main, center, rear	Reproduces video discs, video tapes and similar sources which are Dolby Surround encoded and bear the "DOLBY SURROUND" logo. This program ideally simulates the multi-surround speaker systems of the 35 mm film theater. The Dolby Surround decoding and the digital sound field processing is precisely performed without altering the original sound orientation. The surround effects produced by this sound field folds around the viewer naturally from the rear to the left and right and toward the screen. Note: If the main channel sound is considerably altered by overadjustment of BASS or TREBLE, the relationship with the rear channels may produce an unnatural effect.				
3	70 mm MOVIE THEATER (DSP DO PRO LOGIC) Functions when the input signal is analog or PCM audio, or encoded with the Dolby Digital in 2-channel. Speaker output: main, center, rear DIGITAL MOVIE THEATER (DIDIGITAL DSP) Functions when the input signal is encoded with the Dolby Digital (not in 2-channel). Speaker output: main, center, rear	Ideal for reproducing video discs, video tapes and similar sources which are Dolby Surround encoded and bear the "DOLBY SURROUND" logo. This program is ideal for precisely reproducing the sound design of the newest 70 mm/Dolby Digital multi-track films. The sound field is made to be similar to that of the newest movie theaters, so the reverberations of the sound field itself are restrained as much as possible. The three dimensional feeling of the sound field is emphasized, and dialog is precisely oriented on the screen. You can enjoy watching Sci-Fi, adventure movies, etc. with considerable presence.				

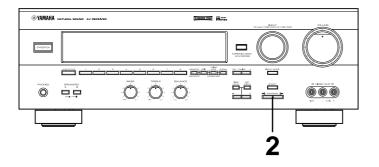
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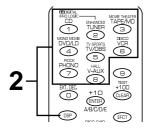
No.	PROGRAM	FEATURE
4	MONO MOVIE (DSP) Functions when the input signal is analog or PCM audio, or encoded with the Dolby Digital in 2-channel. Speaker output: main, center, rear (DIDIGITAL DSP) Functions when the input signal is encoded with the Dolby Digital (not in 2-channel). Speaker output: main, center, rear	This program is designed specifically to enhance mono source programs. Compared to a strictly mono setting, the sound image created in this mode is wider and slightly forward of the speaker pair, lending an immediacy to the overall sound. It is particularly effective when used with old mono movies, news broadcasting and dialog.
5	TV SPORTS (DSP) Functions when the input signal is analog or PCM audio, or encoded with the Dolby Digital in 2-channel. Speaker output: main, center, rear (DDIGITAL DSP) Functions when the input signal is encoded with the Dolby Digital (not in 2-channel). Speaker output: main, center, rear	This program is furnished with a tight sound field in which the sound will not spread excessively on the front side, but the rear surround side produces a dynamic sound expansion. This program is the most suitable for sports programs.
6	DISCO (DSP) Functions when the input signal is analog or PCM audio, or encoded with the Dolby Digital in 2-channel. Speaker output: main, rear (DIDIGITAL DSP) Functions when the input signal is encoded with the Dolby Digital (not in 2-channel). Speaker output: main, center, rear	This program recreates the acoustic environment of a lively disco in the heart of a very lively city. The sound is dense and highly concentrated. It is also characterized by a high-energy, "immediate" sound.
7	ROCK CONCERT (DSP) Functions when the input signal is analog or PCM audio, or encoded with the Dolby Digital in 2-channel. Speaker output: main, rear (DDIGITAL DSP) Functions when the input signal is encoded with the Dolby Digital (not in 2-channel). Speaker output: main, center, rear	This program is ideally suited for rock music. You will experience a very dynamic and lively sound field.
8	CONCERT HALL (DSP) Functions when the input signal is analog or PCM audio, or encoded with the Dolby Digital in 2-channel. Speaker output: main, rear (DODIGITAL DSP) Functions when the input signal is encoded with the Dolby Digital (not in 2-channel). Speaker output: main, center, rear	In this program, the center will appear to be deep behind the main speakers, creating an expansive, large hall ambience. Orchestra and opera music are suited to this sound field.

Note: When the NONE position is selected on "1. CNTR" in the SET MENU mode, no sound is output from the center speaker(s).

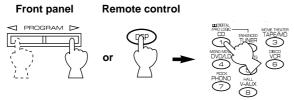
01RX-V595-e/f4 38 6/23/99, 4:11 PM

PLAYING A SOURCE WITH THE DIGITAL SOUND FIELD PROCESSOR (DSP) EFFECT



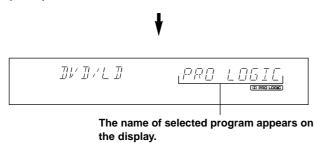


- 1 Follow steps 1 to 7 shown in "BASIC OPERATIONS" on pages 27 to 28.
- Select the desired DSP program that is suitable for the source.



Press DSP. While the indicator lights up for about three seconds, select a DSP program using the numeric buttons (1 to 8).

* If the **SELECTOR DIAL** is set to the DSP position, you can also select a DSP program using the numeric buttons (1 to 8).



3 If desired, adjust the delay time and the output level of each speaker. (For details, see pages 41 and 42.)

Notes

- You can select the program for each of the input sources.
 Once you select a program, it is linked with the input source selected at that time. So, when you select the input source next time, the same program is automatically called.
- If you prefer to cancel the DSP, press EFFECT or EFCT ON/ OFF. The sound will be the normal 2-channel stereo without surround sound effect.
- When a monaural sound source is played with DOLBY PRO LOGIC or DOLBY PRO LOGIC ENHANCED, no sound is heard from the main speakers and the rear speakers. Sound is heard only from the center speaker. However, if the NONE position is selected on "1. CNTR" in the SET MENU mode, the main speakers output the sound of the center channel.
- If the main-source sound is considerably altered by overadjustment of BASS or TREBLE when this unit's Dolby Pro Logic Surround decoder or Dolby Digital decoder is used, the relationship between the center and rear channels may produce an unnatural effect.

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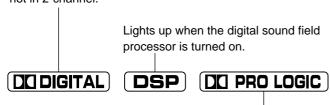
This unit incorporates a Dolby Digital decoder and a Dolby Pro Logic Surround decoder for multi-channel sound reproduction of sources encoded with Dolby Surround. The operation of these decoders can be controlled by selecting a corresponding DSP program including the combined operation of YAMAHA DSP and Dolby Digital or Dolby Pro Logic Surround.

To enjoy a video source with the Dolby Pro Logic Surround or Dolby Digital decoded

When you select the program DOLBY PRO LOGIC/DOLBY DIGITAL, DOLBY PRO LOGIC ENHANCED/DOLBY DIGITAL ENHANCED or 70 mm MOVIE THEATER/DIGITAL MOVIE THEATER, and the input signal of the source is 2-channel stereo, Dolby Pro Logic Surround is decoded. When some program is selected and the input signal of the source is encoded with Dolby Digital, Dolby Digital is automatically decoded.

* The following indicators on the display show you what sound processing is being made.

Lights up when the Dolby Digital is being decoded and the input signals of selected source encoded with Dolby Digital is not in 2-channel.



Lights up when the Dolby Pro Logic Surround is being decoded.

* In addition, for the program DOLBY PRO LOGIC/DOLBY DIGITAL, DOLBY PRO LOGIC ENHANCED/DOLBY DIGITAL ENHANCED or 70 mm MOVIE THEATER/DIGITAL MOVIE THEATER, the name of the program on the display will change according to the type of decoding. (For details, see page 37.)

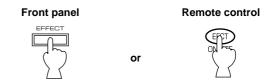
Note

If the input signals of the source are encoded with Dolby Digital in 2-channel only, the sound processing for them is similar to that for analog or PCM audio signals.

To cancel the effect sound

EFFECT on the front panel and **EFCT ON/OFF** on the remote control transmitter make it simple to compare the normal stereo sound with the fully processed effect sound.

To cancel the effect sound and monitor only the main sound, press **EFFECT** or **EFCT ON/OFF**. Press **EFFECT** or **EFCT ON/OFF** once more to turn effect sounds on.



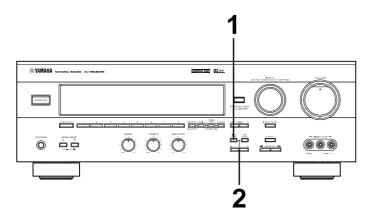
Notes

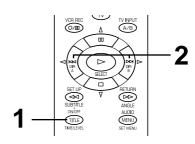
- If the effect sound is canceled when signals encoded with Dolby Digital are input to this unit, signals of all channels are mixed and are output from the main speakers.
- If EFFECT or EFCT ON/OFF is pressed to turn effect sounds off when the Dolby Digital is decoded, it may happen that the sound is output faintly or not output normally depending on the source. In that case, press EFFECT or EFCT ON/OFF to turn effect sounds on, or use input signals not encoded with Dolby Digital.

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ADJUSTING DELAY TIME AND SPEAKER OUTPUT LEVELS

When using the digital sound field processor including the Dolby Pro Logic Surround decoder or the Dolby Digital decoder, you can adjust the delay time between the main sound and effect sound, and each speaker's output level as you prefer.





Adjusting method

If you are using the remote control transmitter, set the **SELECTOR DIAL** to the AMP/TUN or DSP position on the remote control transmitter.



or



1 Press **TIME/LEVEL** once or more until the name of item which you want to adjust appears on the display.

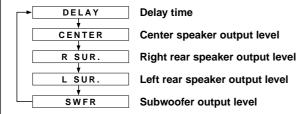
Front panel TIME/ SET LEVEL MENU



Remote control

* After pressing **TIME/LEVEL** once on the remote control transmitter, you can also select the name of item by pressing *∇*.

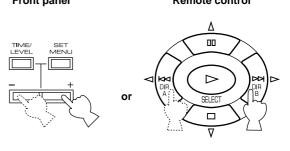
When pressed, the selection changes as follows:



- * Pressing Δ on the remote control transmitter changes the selection in the reverse order.
- * Depending on the mode of this unit, you cannot select all items.

Press + or – to adjust the settings for delay time or speaker output levels.

Front panel Remote control



Repeat steps 1 to 3 to adjust settings on any other item.

Adjusting delay time

You can adjust the time difference between the beginning of the sound from the main speakers and the beginning of the effect sound from the rear speakers.

The larger the value, the later the effect sound is generated. This adjustment can be made to all programs individually.

Notes

- Adding too much delay will cause an unnatural effect with some sources.
- When + or is pressed, the sound is momentarily interrupted.

Pro	ogram	Control range (ms)	Preset value
1.	DOLBY PRO LOGIC	15 to 30	20
	DOLBY DIGITAL	0 to 15	5
2.	DOLBY PRO LOGIC ENHANCED	15 to 30	20
	DOLBY DIGITAL ENHANCED	0 to 15	5
3.	70 mm MOVIE THEATER	15 to 30	20
	DIGITAL MOVIE THEATER	1 to 99	16
4.	MONO MOVIE	1 to 99	49
5.	TV SPORTS	1 to 99	9
6.	DISCO	1 to 99	40
7.	ROCK CONCERT	1 to 99	16
8.	CONCERT HALL	1 to 99	44

Adjusting output level of the center, right rear and left rear speakers, and subwoofer

If desired, you can adjust the sound output level of each speaker even if the output level is already set in "SPEAKER BALANCE ADJUSTMENT" on pages 24 to 26.

Notes

- Output level of the center speaker cannot be adjusted when the program DISCO, ROCK CONCERT or CONCERT HALL is selected, and the input signal is analog, PCM audio, or encoded with Dolby Digital in 2-channel.
- If the function "1. CNTR" in the SET MENU mode is set to the NONE position, the sound output level of the center speaker cannot be adjusted. This is because, in this mode, the center sound is automatically output from the left and right main speakers.
- Once the output level is adjusted, the level will be the same for all digital sound field programs.

Speakers	Control range (dB)	Preset value
CENTER	MIN, -20 to +10	0
RIGHT SURROUND (Rear)	MIN, -20 to +10	0
LEFT SURROUND (Rear)	MIN, -20 to +10	0
SUBWOOFER	MIN, -20 to 0	0

Note

The values of the delay time, center/rear/subwoofer output level you set the last time will remain memorized even when this unit is in the standby mode. However, if the power cord is kept disconnected for more than one week, these values will automatically change back to the original factory settings.

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ADJUSTMENTS IN THE "SET MENU" MODE

The following ten types of functions maximize the performance of your system and expand your enjoyment for audio listening and video watching.

- 1. CNTR (CENTER SPEAKER)
- 2. REAR (REAR SPEAKER)
- 3. MAIN (MAIN SPEAKER)
- 4. BASS (LFE/BASS OUT)
- 5. M.LVL (MAIN LEVEL)

For details on "1. CNTR", "2. REAR", "3. MAIN", "4. BASS" and "5. M.LVL", see page 22. (Once you have selected the appropriate modes, you do not have to change settings unless any alteration is made in your speaker system.)

6. LFE [Adjusting the output level of the LFE (low frequency effect) channel]

Control range: -20 dB to 0 dB (in 1 dB step)
Preset value: 0 dB

* This adjustment is effective only when the Dolby Digital is decoded and the signals of selected source encoded with the Dolby Digital contain LFE signals.

Adjusts the output level of the LFE (low frequency effect) channel. If the LFE signals are mixed with signals of other channels to output them from the same speakers, the ratio of LFE signal level to the level of other signals are adjusted. (See page 7 for details about the LFE channel.)

- 6. LFE (LFE LEVEL)
- 7. D.RNG (DYNAMIC RANGE)
- 8. C.DELAY (CENTER DELAY)
- 9. GUARD (MEMORY GUARD)
- 10. INPUT (INPUT MODE)

7. D.RNG (Adjusting dynamic range)

Choices: MAX/STD/MIN Preset position: MAX

 * This adjustment is effective only when the Dolby Digital is decoded.

MAX:

"Dynamic range" is the difference between the maximum level and the minimum level of sounds. Sounds on a movie originally designed for movie theaters feature very wide dynamic range. Dolby Digital technology can bring the original sound track into a home audio format with this wide dynamic range unchanged.

In this position, a source encoded with the Dolby Digital is reproduced in the original sound track's wide dynamic range providing you with powerful sounds just like in a movie theater.

Selecting this position will be even better if you can listen to a source in a high output level in a room specially soundproofed for audio/video enjoyment.

STD (Standard):

Powerful sounds of extremely wide dynamic range are not always suitable for home use. Depending upon the condition of your listening environment, it may not be possible to increase the sound output level as high as a movie theater. However, in a level suitable for listening to in your room, the low level parts of source sound often cannot be heard so well because they will be lost among noises in your environment.

Dolby Digital technology also made it possible to reduce an original sound track's dynamic range for a home audio format by "compressing" the data of sound.

In this position, a source encoded with the Dolby Digital is reproduced in the "compressed" dynamic range of the source suitable for low level listening.

MIN:

In this position, dynamic range is more reduced than in the STD position.

Selecting this position will be effective when you must listen to a source at lower level.

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8. C.DELAY [Adjusting the delay of center sounds (dialog etc.)]

Control range: 0 ms to 5 ms (in 1 ms step)

Preset value: 0 ms

* This adjustment is effective only when the Dolby Digital is decoded and the signals of selected source encoded with the Dolby Digital contain center-channel signals.

Adjusts the delay between the main sounds (at the main channels) and dialog etc. (at the center channel). The larger the value, the later the dialog etc. is generated.

This is for making sounds from the left main, center and right main speakers reach your listening position at the same time. This is achieved by delaying the sound from the center speaker if the distance from the center speaker to your listening position is shorter than the distance from the left or right main speaker to your listening position.

9. GUARD

Choices: ON/OFF Preset position: OFF

If you wish to prevent accidental alteration to SET MENU and other adjustments on this unit, select ON. The following functions on this unit can be locked by this operation.

- Functions in the SET MENU mode
- Functions in the TIME/LEVEL mode
- Functions when using TEST

10. INPUT (Selecting the initial input mode of the sources connected to the TV/DBS input terminals)

For the sources connected to the TV/DBS input terminals of this unit only, you can designate the input mode that is automatically selected when the power of this unit is switched on.

AUTO: In this position, the AUTO input mode is always selected when the power of this unit is switched on.

LAST: In this position, the input mode you selected last time is memorized and will not be changed even if the

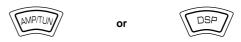
power of this unit is switched on.

* See page 29 for details on switching the input mode.

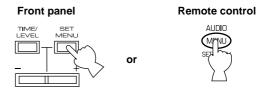
Adjusting method

Operations should be made while watching the information on this unit's display.

If you are using the remote control transmitter, set the **SELECTOR DIAL** to the AMP/TUN or DSP position on the remote control transmitter.

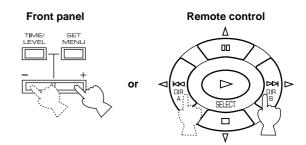


Press **SET MENU** once or more so that the title of function which you want to change appears on the display.



* After pressing **SET MENU** once on the remote control transmitter, you can also select the title by pressing *∇*. (Pressing ∆ goes back one selection.)

Press + or – to select any desired position or edit parameters on the function.



Repeat these steps to change and adjust settings on any other function.

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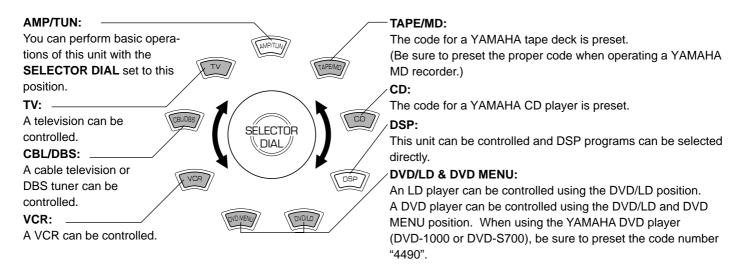
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REMOTE CONTROL TRANSMITTER

You can use this remote control transmitter to control not only this unit but also other components connected to it. This is factory set to control this unit and most YAMAHA audio components. To control other brands of components, you must preset the remote control transmitter with the manufacturer's codes listed from page 108.

Components which can be controlled

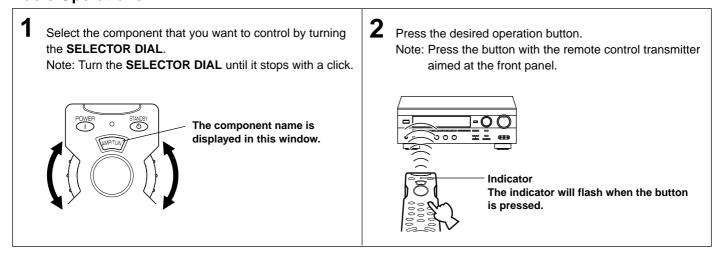
There are nine positions that you can select to control connected components with this remote control transmitter. When turning the **SELECTOR DIAL**, the position changes as follows:



Notes

- The shaded positions in the diagram above indicate that you can preset the code for the manufacturer of your component.
 Note that you can preset only one code for one position. For details, see "SETUP CODES" on page 50.
- 2. The DVD/LD and DVD MENU positions
 - Be sure that the **SELECTOR DIAL** is set to the DVD/LD position when presetting the code for a DVD or an LD player. The code that you preset to the DVD/LD position is also preset to the DVD MENU position simultaneously. You cannot preset the code for a DVD player when the **SELECTOR DIAL** is set to the DVD MENU position.
 - DVD MENU operations cannot be performed for some DVD players.
- 3. When using a second (and third) VCR (For details, see "To use a second (and third) VCR" on page 50.)
 - If you are not using a CBL/DBS (cable TV or DBS tuner), the second (or third) VCR can be preset using the CBL/DBS position.
 - If you are not using a DVD player, the second (or third) VCR can be preset using the DVD MENU position. Note that in this case you must preset a code for an LD player to the DVD/LD position even if an LD player is not used.

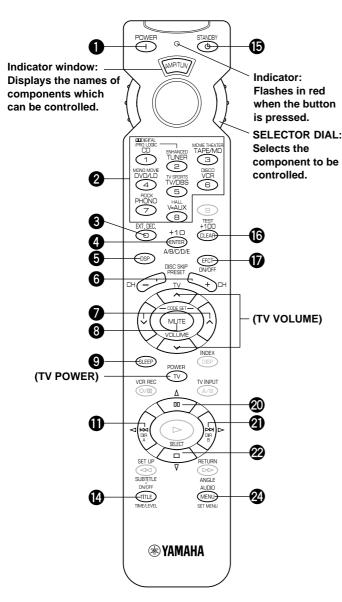
Basic Operations



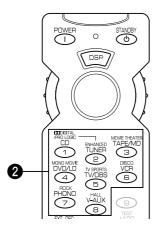
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AMP/TUN

Note: TV POWER and TV VOLUME function if you have preset the code for your TV.



■ DSP



1 POWER

This button turns this unit on.

2 INPUT

Press these buttons to select the program source.

3 EXT. DEC.

Press this button when using a external decoder.

4 A/B/C/D/E

Press this button to select a group of preset stations.

5 DSP selector

Press this button. While the indicator lights up for about three seconds, select a DSP program using the number buttons (1 to 8). No DSP program can be selected after the indicator goes off.

6 PRESET (+/-)

Press these buttons to select the preset station number.

7 VOLUME $(\land \lor)$

Press these buttons to adjust the volume level.

8 MUTE

Press this button to mute the sound. To cancel mute, press this button once more, or press the operation buttons of this unit.

9 SLEEF

Press this button to set the SLEEP timer.

① ⊲ (LEFT

This button is used to adjust the settings of the SET MENU mode and the TIME/LEVEL mode.

TIME/LEVEL

Press this button to select the item in the TIME/LEVEL mode.

(b) STANDBY

Press this button to turn this unit into Standby mode.

TEST

Press this button to output a test tone for adjusting the output level of the speakers.

EFCT (EFFECT) ON/OFF

Press this button to switch the DSP program on or off.

② △ (BACK)

Press this button to go back one selection in the SET MENU mode and TIME/LEVEL mode.

② ⊳ (RIGHT)

This button is used to adjust the settings of the SET MENU mode and the TIME/LEVEL mode.

② ∇ (NEXT)

Press this button to advance one selection in the SET MENU mode and TIME/LEVEL mode.

2 SET MENU

Press this button to select functions in the SET MENU mode.

2 DSP program

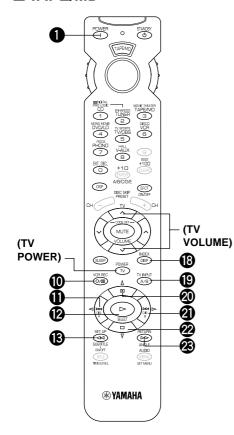
Press these buttons to select the DSP program (1 to 8). When you select the input source, set the **SELECTOR DIAL** to the AMP/TUN position.

Note: The function of all buttons other than **DSP program** is the same as with the AMP/TUN position.

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Faintly colored buttons do not function. For the buttons which are not described here, see "AMP/TUN" on page 46. For details, please refer to the owner's manual for each component.

■ TAPE/MD



Notes: • TV POWER and TV VOLUME function if you have preset the code for your TV.

• Be sure to preset the proper code for your MD recorder.

TAPE

1 POWER

This button turns this unit on under the default settings. (The code for a YAMAHA tape deck is preset as the default code.) If other codes are preset, only those preset tape decks having a remote controller with a POWER button will be turned on.

(REC/PAUSE)

Press this button to pause recording on a tape deck.

① ⊲ DIR A

Press this button to select the playing direction of deck A.

Press this button to play a tape.

(REWIND)

Press this button to rewind a tape.

1 DECK A/B

Press this button to select double cassette tape deck A or B.

② ⊳ DIR B

Press this button to select the playing direction of deck B.

② □ (STOP)

Press this button to stop operation of a tape.

② ⇒ (FAST FORWARD)

Press this button to fast forward a tape.

MD

1 POWER

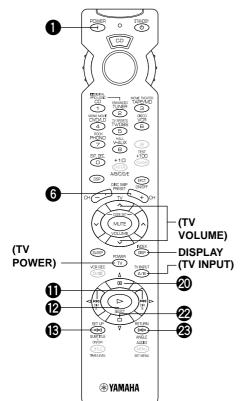
This button turns this unit on if you have preset the code for the YAMAHA MD recorder. If other codes are preset, only those preset MD recorders having a remote controller with a POWER button will be turned on

(REC/PAUSE)

② ⊳ (FAST FORWARD)

■CD

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Note: TV POWER, **TV VOLUME** and **TV INPUT** function if you have preset the code for your TV.

1 POWER

This button turns this unit on under the default settings. (The code for a YAMAHA CD player is preset as the default code.) If other codes are preset, only those preset CD players having a remote controller with a POWER button will be turned on.

6 DISC SKIP (+/-)

Press this button to skip to the next or previous CD.

U ⋈, ⋈ (SKIP)

Press ⋈ to skip to the next track. Press ⋈ to skip to the previous track.

② ⊳ (PLAY)

Press this button to play a CD.

(BACKWARD)

Press this button to backward the track that is playing.

(PAUSE)

Press this button to pause operation. This button functions as **PAUSE/STOP** for operating YAMAHA CD players under default settings.

② □ (STOP)

Press this button to stop operation. This button functions as **PAUSE/STOP** for operating YAMAHA CD players under default settings.

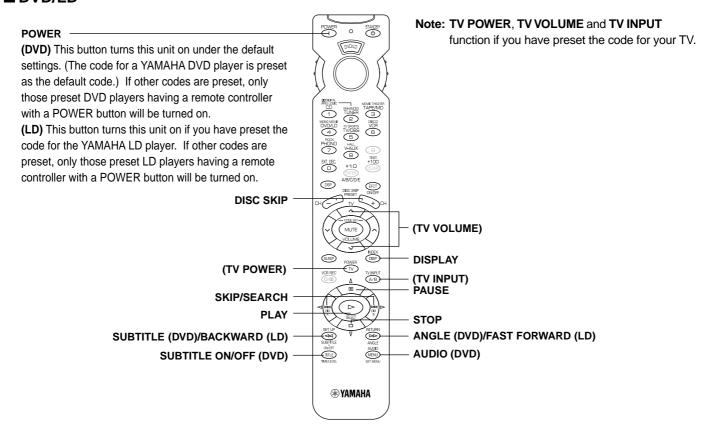
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② ⊳⊳ (FAST FORWARD)

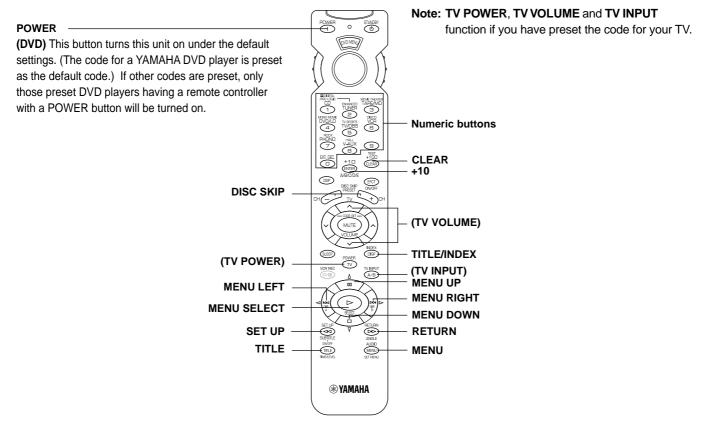
Press this button to fast forward the track that is playing.

Faintly colored buttons do not function. For the buttons which are not described here, see "AMP/TUN" on page 46. For details, please refer to the owner's manual for each component.

■ DVD/LD



■ DVD MENU

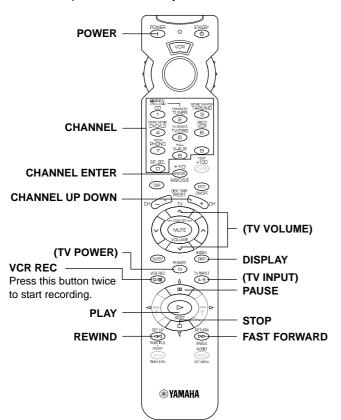


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Faintly colored buttons do not function. For the buttons which are not described here, see "AMP/TUN" on page 46. For details, please refer to the owner's manual for each component.

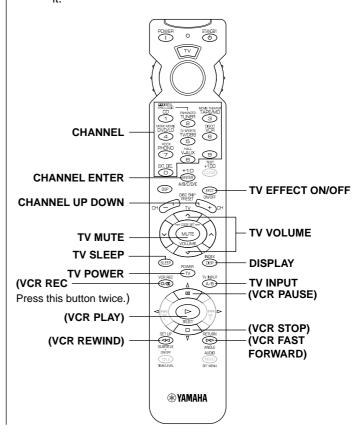
■ VCR

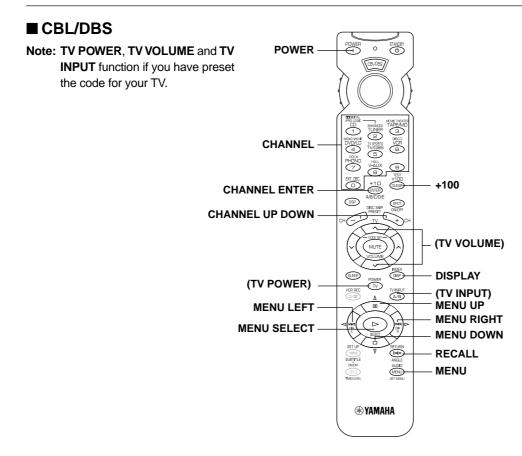
Note: TV POWER, TV VOLUME and **TV INPUT** function if you have preset the code for your TV.



■ TV

Note: You can control your VCR if you have preset the code for it





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SETUP CODES

Presetting the remote control transmitter

Perform the presetting procedure for each component you want to control with this remote control transmitter.

Note: If your component does not respond to any of the codes listed for the manufacturer, use the original remote control that came with the component.

To control your components (MD recorder, DVD player, TV etc.)

- 1. Turn on the component to be used.
- Set the SELECTOR DIAL to the desired component (TAPE/MD, DVD/LD, TV etc.).



Press both **VOLUME** buttons (\(\simeq \)) at the same time until the indicator flashes twice.





4. Use the numeric buttons to enter the four-digit manufacturer's code for the component to be used. Make sure that the indicator flashes twice. If the indicator does not flash, repeat step 3 and re-enter the code.



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Press POWER (or any other button)
 on the remote control transmitter to
 check if you have preset the code
 correctly. If the component cannot
 be controlled using the remote
 control transmitter, try entering
 another code for the same manufacturer.

To use a second (and third) VCR

You can use the CBL/DBS and/or DVD MENU positions to control a second VCR (and/or third) if a CBL (or DBS) or DVD player is not used.

If you are using the DVD MENU position for a second (or third) VCR, you must preset a code for an LD player to the DVD/LD position.

- 1. Turn on the VCR to be used.
- 2. Set the **SELECTOR DIAL** to the CBL/DBS or DVD MENU position.



Press both VOLUME buttons (\(\simeq \)) at the same time until the indicator flashes twice.





4. Press MUTE



 Use the numeric buttons to enter the four-digit code for a second (or third) VCR. Make sure that the indicator flashes twice. If the indicator does not flash, repeat step 3 and 4, and re-enter the code.





Press POWER (or any other button)
 on the remote control transmitter to
 check if you have preset the code
 correctly. If the VCR cannot be
 controlled using the remote control
 transmitter, try entering another
 code for the same manufacturer.

Returning to the default code

To return all components to the default code, follow these steps.

- Press both **VOLUME** buttons (\(\simeq \)) at the same time until the indicator flashes twice.
- 2. Enter the code number "9987".
- Make sure that the indicator flashes twice.

To return each component to the default code, follow these steps.

- Set the SELECTOR DIAL to the component to be return to the default code.
- Press both VOLUME buttons (\(\simeq \)) at the same time until the indicator flashes twice.
- 3. Enter the code number "9999".
- Make sure that the indicator flashes twice.

The following codes are preset as the default code.

Default codes

POSITION	Component	Code*1	Code*2	
TV	TV	0047	0037	
CBL/DBS	DBS tuner	2566	2455	
VCR	VCR	3060	3072	
DVD/LD	DVD player	4545 YAMAHA		
CD	CD player	6187 YAMAHA		
TAPE/MD	Tape deck	8524 Y	AMAHA	

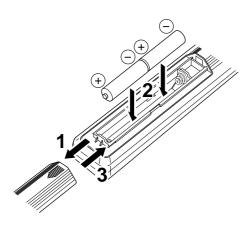
- *1: Canada and China models
- *2: Australia model

We recommend that you write all code numbers you have preset on the "Quick Reference Card".

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NOTES ABOUT THE REMOTE CONTROL TRANSMITTER

Battery installation



Battery replacement

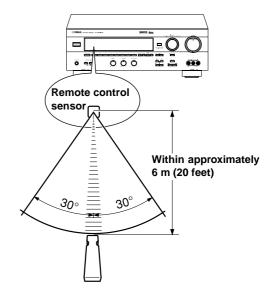
If the remote control transmitter operates only when it is closed to this unit, the batteries are weak. Replace both batteries with new ones.

Be sure to replace batteries within about two minutes. If it takes longer than two minutes, the codes preset for the remote control transmitter will return to the default codes.

Notes

- Use only AA, R6, UM-3 batteries for replacement.
- Be sure the polarities are correct. (See the illustration inside the battery compartment.)
- Remove the batteries if the remote control transmitter will not be used for an extended period of time.
- If batteries leak, dispose of them immediately. Avoid touching the leaked material or letting it come in contact with clothing, etc. Clean the battery compartment thoroughly before installing new batteries.

Remote control transmitter operation range



Notes

- There should be no large obstacles between the remote control transmitter and this unit.
- If the remote control sensor is directly illuminated by strong lighting (especially an inverter type of fluorescent lamp etc.), it might cause the remote control transmitter not to work correctly. In this case, reposition this unit to avoid direct lighting.

TROUBLESHOOTING

If the unit fails to operate normally, check the following points to determine whether the fault can be corrected by the simple measures suggested. If it cannot be corrected, or if the fault is not listed in the SYMPTOM column, disconnect the power cord and contact your authorized YAMAHA dealer or service center for help.

	SYMPTOM	CAUSE	REMEDY	
	The unit fails to turn on when STANDBY/ON is pressed, or turns	Power cord is not plugged in or is not completely inserted.	Firmly plug in the power cord.	
	into the standby mode suddenly soon after the power is turned on.	The IMPEDANCE SELECTOR switch on the rear panel is not fully set to the upper or lower end.	Set the switch fully to the upper or lower end.	
	The unit does not work normally.	There is an influence of strong external noise (lightning, excessive static electricity, etc.) or a misoperation while using this unit.	Turn this unit into the standby mode and disconnect the AC power cord from the AC outlet. After about 30 seconds have passed, connect the power and operate this unit again.	
	No sound or no picture.	Incorrect output cord connections.	Connect the cords properly. If the problem persists, the cords may be defective.	
		Appropriate input source is not selected.	Select an appropriate input source with INPUT.	
		SPEAKERS are not set properly.	Set SPEAKERS corresponding to the speakers in use to the ON position.	
		Speaker connections are not secure.	Secure the connections.	
	The sound suddenly goes off.	The protection circuit has been activated because of short circuit etc.	Turning the unit into the standby mode and then on again will reset the protection circuit.	
		The SLEEP timer has functioned.	Cancel the SLEEP timer function.	
	Only one side speaker outputs	Incorrect setting of BALANCE.	Adjust it to the appropriate position.	
Amplifier	sound.	Incorrect cord connections.	Connect the cords properly. If the problem persists, the cords may be defective.	
4	A "humming" sound can be heard.	Incorrect cord connections.	Firmly connect the audio plugs. If the problem persists, the cords may be defective.	
		No connection from the turntable to the GND terminal.	Make the GND connection between the turntable and this unit.	
	The volume level is low while playing a record.	The record is being played on a turntable with an MC cartridge.	The turntable should be connected to the unit through the MC head amplifier.	
	The volume level cannot be increased, or the sound is distorted.	The component connected to the REC OUT terminals of this unit is in the standby mode.	Turn the power to the component on.	
	No sound from the rear speakers.	The sound output level of the rear speakers is set to minimum.	Raise the sound output level of the rear speakers.	
		A monaural sound source is being played in DOLBY PRO LOGIC or DOLBY PRO LOGIC ENHANCED mode.	Select another sound field program suitable for the monaural sound source.	
	No sound from the center speaker.	The sound output level of the center speaker is set to minimum.	Raise the sound output level of the center speaker.	
		The center channel mode is in NONE mode.	Select LARGE or SMALL.	
		Incorrect sound field program selection.	Select the appropriate program.	

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	SYMPTOM	CAUSE	REMEDY	
FM	FM stereo reception is noisy.	Because of the characteristics of FM stereo broadcasts, this is limited to cases where the transmitter is too far away or the antenna input is poor.		
	There is distortion and clear reception cannot be obtained even with a good FM antenna.	There is multipath interference.	Adjust antenna placement to eliminate multipath interference.	
	The desired station cannot be tuned in with the automatic tuning method.	The station is too weak.	Use the manual tuning method. Use a high quality directional FM antenna.	
•	Previously preset stations can no longer be tuned in.	This unit has been unplugged for a long period.	Repeat the presetting procedure.	
	The desired station cannot be tuned in with the automatic tuning method.	Weak signal or loose antenna connections.	Tighten the AM loop antenna connections and rotate it for best reception.	
_			Use the manual tuning method.	
AM	There are continuous crackling and hissing noises.	Noises will result from ligtning, fluorescent lamps, motors, thermostats and other electrical equipment.	Use an outdoor antenna and a ground wire. This will help somewhat but it is difficult to eliminate all noise.	
	There are buzzing and whining noises (especially in the evening).	A television set is being used nearby.	Relocate this unit away from the TV.	
Remote control transmitter	The remote control transmitter does not work.	Direct sunlight or lighting (of an inverter type of fluorescent lamp etc.) is striking the remote control sensor of the main unit.	Change the position of the main unit.	
ntrol tı		The manufacturer's code is not set properly.	Set the code again.	
te co		The proper manufacturer's code for the component to be controlled is not set.	Try entering another code for the same manufacturer.	
Remo		The component to be controlled is not selected.	Set the SELECTOR DIAL to the proper position.	
Others	The sound is degraded when listening with headphones to a CD player or tape deck that is connected to this unit.	This unit is in the standby mode.	Turn the power of the unit on.	

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SPECIFICATIONS

AUDIO SECTION	Input Sensitivity/Impedance	Channel Separation
Minimum RMS Output Power	PHONO MM 2.5 mV/47 k-ohms	(Vol30 dB, EFFECT OFF)
8 ohms, 20 Hz to 20 kHz, 0.04% THD	CD/TAPE·MD/DVD·LD/TV·DBS/VCR/	PHONO MM
[U.S.A. and Canada models]	VIDEO AUX 150 mV/47 k-ohms	(Input Shorted, 1 kHz/10 kHz)
MAIN L/R 70 W + 70 W	EXT. DECODER	60 dB or more/55 dB or more
CENTER 70 W	MAIN L/R 150 mV/47 k-ohms	CD/TAPE·MD/DVD·LD/TV·DBS/VCR/
REAR L/R 70 W + 70 W	CENTER/SURROUND L/R/SUBWOOFER	VIDEO AUX
[Australia, China, Singapore and General	150 mV/40 k-ohms	(Input 5.1 k-ohms Terminated, 1 kHz/10 kHz)
models]		60 dB or more/45 dB or more
MAIN L/R 65 W + 65 W	Maximum Input Signal	
CENTER 65 W	PHONO MM	Tone Control Characteristics
REAR L/R 65 W + 65 W	1 kHz, 0.1% THD100 mV or more	BASS: Boost/cut ±10 dB (50 Hz)
8 ohms, 1 kHz, 0.07% THD	CD/TAPE·MD/DVD·LD/TV·DBS/VCR/	Turnover Frequency 350 Hz
[U.S.A. and Canada models]	VIDEO AUX (EFFECT ON)	TREBLE: Boost/cut ±10 dB (20 kHz)
MAIN L/R 85 W + 85 W	1 kHz, 0.5% THD2.2V or more	Turnover Frequency 3.5 kHz
CENTER	,	
REAR L/R 85 W + 85 W	Output Level/Impedance	Filter Characteristics
[Australia, China, Singapore and General	REC OUT 150 mV/1.2 k-ohms	MAIN L/R, REAR L/R (SPEAKER: SMALL)
models]	SUBWOOFER	(H.P.F.) fc = 90 Hz, 12 dB/oct.
MAIN L/R 80 W + 80 W	(MAIN SP: SMALL) 4.0 V/1.2 k-ohms	SUBWOOFER
CENTER 80 W	((L.P.F.) fc = 90 Hz, 18 dB/oct.
REAR L/R 80 W + 80 W	Headphones Jack Rated Output/Impedance	(E.1 .1.)
REAR L/R 60 W + 60 W	CD/TAPE·MD/DVD·LD/TV·DBS/VCR/	
Maximum Daylar	VIDEO AUX input,	VIDEO SECTION
Maximum Power	1 kHz, 150mV, 8 ohms 0.5 V/390 ohms	
[China and General models only]	1 K12, 100111, 0 011110 0.0 1/000 011110	Video Signal Type
8 ohms, 1 kHz, 10% THD MAIN L/R 105 W + 105 W	Frequency Response (20 Hz to 20 kHz)	[U.S.A. and Canada models]NTSC
	CD/TAPE·MD/DVD·LD/TV·DBS/VCR/	[Australia and Singapore models] PAL
CENTER 105 W	VIDEO AUX to MAIN L/R SP OUT	[China and General models] NTSC/PAL
REAR L/R 105 W + 105 W	0±0.5 dB	Video Cincoll and
Davide Barrer of Observat		Video Signal Level 1 Vp-p/75 ohms
Dynamic Power per Channel	RIAA Equalization Deviation	Mariana land land
(by IHF Dynamic Headroom measuring method)	PHONO MM	Maximum Input Level 1.5 Vp-p or more
[U.S.A. and Canada models]	FIIONO IVIIVI 0±0.5 dB	0: 1: 1: 5: 5: 5: 5: 15
8/6/4/2 ohms 100/120/145/170 W	Total Harmonia Distortion (20 Hz to 20 kHz)	Signal-to-Noise Ratio50 dB or more
[Australia, China, Singapore and General	Total Harmonic Distortion (20 Hz to 20 kHz) PHONO MM to REC OUT	
models]		Monitor Out Frequency Response
8/6/4/2 ohms 90/110/135/160 W	1 V	5 Hz to 10 MHz, –3 dB
Dynamic Headroom (8 ohms)	Signal-to-Noise Ratio (IHF-A Network)	
[U.S.A. and Canada models only] 1.55 dB	PHONO MM to REC OUT	FM SECTION
	[U.S.A., Canada, China and General	Tuning Range
Power Band Width	models]	[U.S.A. and Canada models]
8 ohms, 35 W, 0.1% THD 10 Hz to 50 kHz	(5 mV, Input Shorted) 86 dB or more	
	[Australia and Singapore models]	[Australia and Singapore models]
Damping Factor (SPEAKERS A)	(5mV, Input Shorted)81 dB or more	87.5 to 108.0 MHz
8 ohms, 20 Hz to 20 kHz 60 or more	CD/TAPE·MD/DVD·LD/TV·DBS/VCR/	[China and General models]
	VIDEO AUX to SP OUT (EFFECT OFF)	100 kHz step 87.5 to 108.0 MHz
	(150 mV, Input Shorted) 96 dB or more	50 kHz step 87.50 to 108.00 MHz
	Residual Noise (IHF-A Network)	FO dP Quieting Conditivity (UJF)
	MAIN L/R SP OUT150 μV or less	50 dB Quieting Sensitivity (IHF)
	·	(100% mod., 1 kHz) Mono1.6 μV (15.3 dBf)
		• • •
		Stereo 23 µV (38.5 dBf)

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Usable Sensitivity (DIN)	GENERAL
[Australia and Singapore models]	Power Supply
Mono (S/N 26 dB) 0.9 μ V	[U.S.A. and Canada models]
Stereo (S/N 46 dB)28 μV	AC 120 V, 60 Hz
	[Australia model] AC 240 V, 50 Hz
Alternate Channel Selectivity (±400 kHz)	[General model]
[U.S.A., Canada, China and General models	AC 110/120/220/240 V, 50/60 Hz
only] 75 dB	[China model] AC 220 V, 50 Hz
Colortisits (true circula 40 ld la Dec. 200 ld la)	[Singapore model] AC 230 V, 50 Hz
Selectivity (two signals, 40 kHz Dev. ±300 kHz) [Australia and Singapore models only]	
55 dB	Power Consumption
35 db	[U.S.A. model]
Signal-to-Noise Ratio	[Canada model]
(IHF) Mono/Stereo	[Australia and Singapore models] 300 W
[U.S.A., Canada, China and General	[China and General models]310 W
models]81 dB/75 dB	Maximum Power Consumption
(DIN-Weighted, 40 kHz Dev.) Mono/Stereo	5 ch, 10% THD
[Australia and Singapore models]	[General model only]650 W
75 dB/69 dB	[Serioral model emy]
	AC Outlets
Harmonic Distortion (1 kHz)	2 SWITCHED OUTLETS
Mono/Stereo 0.1/0.2%	[U.S.A., Canada, Singapore, China and
	General models] 100 W max. total
Stereo Separation (1 kHz) 48 dB	1 SWITCHED OUTLET
	[Australia model] 100 W max. total
Frequency Response	
20 Hz to 15 kHz 0±1 dB	Dimensions (W x H x D)
Antonno Innut 75 ohmo I Inholonood	
Antenna Input 75 ohms, Unbalanced	(17-1/8" x 5-15/16" x 15-3/8")
Output Level	Weight 12.5 kg (27 lbs. 8 oz.)
[U.S.A., Canada, China and General	,
models]	Accessories AM loop antenna
(100% mod., 1 kHz)550 mV	Indoor FM antenna
[Australia and Singapore models]	Remote control transmitter
(40 kHz Dev., 1 kHz) 550 mV	Batteries
	Antenna adapter
	(U.S.A. and Canada models only)
AM SECTION	
Tuning Range	Considerations are subject to about a vista and
[U.S.A. and Canada models]	Specifications are subject to change without notice.
530 to 1,710 kHz	nouce.
[Australia and Singapore models]531 to 1,611 kHz	
[China and General models]	
10 kHz step 530 to 1,710 kHz	
9 kHz step 531 to 1,611 kHz	
,	
Usable Sensitivity 300 μV/m	
Signal-to-Noise Ratio 52 dB	
Antenna Loop antenna	
Output Level (30% mod., 1 kHz) 150 mV	

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LIST OF MANUFACTURER'S CODES (Canada and China models) LISTE DES CODES FABRICANTS (Modèles pour le Canada et la Chine)

TV			Concerto			0056	Hisawa			0282
			Contec	0180, 0009			Hitachi		0145, 0056	
Manufacturer		Code	Craig		0180,				0109, 0151	
			Crosley	0000 0000	0007	0054	Huanyu		0000 000	0216
A-Mark		0003		, 0039, 0009			Hypson		0282, 0037	
	, 0019, 0003, 0052,		Curtis Mathes	0047, 0054,			ICE			0264
Abex	, 0010, 0000, 0002,	0032	04.45	0451, 0093,			ITT			0283
Acura		0009		, 0056, 0016			Imperial			0418
Admiral		0093	Daewoo	0451, 0019,			Indiana			0037
Adventura		0046		0037	, 0066,		Infinity			0054
Adyson		0032	Dansai			0037	Inteq			0017
Aiko		0092	Dayton			0009	Interbuy			0068
Akai	0030,		Daytron			0019	Interfunk			7, 0512
Akura	0030,	0264	De Graaf			0208	Intervision		0037, 0068	
Alaron	0179,		Decca			0037	JBL			0054
Alba	0009,		Denon			0145	JCB			0000
Ambassador	0003,	0177	Dixi	0004	, 0009,		JEC			0502
Amstrad	0009, 0171,		Dumont		0017,	0019	JVC		0053, 0069	
Anam	0180, 0004, 0009,		Ectec			0391	Janeil			0046
Anam National	0100, 0004, 0009,	0161	Electroband		0000,		KEC			0180
Anitech	0009,		Elin			0037		0180, 0030	, 0039, 0185	
	0009,	0216	Elta			0009	Kaisui		0282, 0009	
Arcam Archer		0003	Emerson	0154, 0236,			Kamp			0216
				0282, 0178,	0019,	0179,	Kawasho			0216
Audinac	0027	0391		0039, 0177	, 0185,	0280	Kaypani			0052
Audiosonic	0037,		Envision			0030	Kendo			0037
Audiovox	0451, 0180, 0003,		Erres			0037	Kenwood		0030	0, 0019
BPL Basis Line		0282	Ferguson	0037, 0109	, 0287,	0560	Kingsley			0216
Basic Line	0007 0540 0505	0009	Fidelity			0216	Kloss			0046
Baur	0037, 0512, 0535,		Finlandia			0208	Korpel			0037
Baysonic		0180	Finlux		0179,	0037	Koyoda			0009
Belcor	0454	0019	Firstline		0009,	0216	LG			0056
Bell & Howell	0154,		Fisher	0154	, 0159,	0208	LXI	0047, 0054	, 0154, 0156	6, 0178
Beon	0505	0037	Formenti			0037	Leyco		0037	7, 0264
Blaupunkt	0535,		Frontech			0264	Liesenk &	Tter		0037
Blue Star		0282	Fujitsu			0179	Lloytron			0032
Bradford		0180	Funai	0180, 0179	, 0171,	0264	Loewe			0512
Brandt		0109	Futuretech			0180	Logik		0016	6, 0001
Britannia		0216	GE	0047, 0051,			Luxman			0056
Brockwood	0000 0400 0000	0019		0282, 0178	, 0021,	0135	M Electron	ic	0009, 0037	, 0068,
Broksonic	0236, 0463, 0003,		GEC			0037			0109	9, 0287
Bush	0282, 0009,		Geloso			0009	MEI			0185
CCE		0037	Gibralter		, 0030,		MGA		, 0030, 0178	
CS Electronics		0216	GoldStar	0030, 0178,	0019,	0056,	MTC	0060,	0030, 0019	, 0056,
CXC	0000 00=0 00:0	0180	0001	, 0002, 0032					0185, 0216	
Candle	0030, 0056, 0046,		Goodmans		0179,	0037	Magnavox		0054, 0030	, 0179,
Carnivale	20-1	0030	Gradiente	0053	, 0056,	0170				6, 0187
Carver	0054,		Granada	0037, 0208	, 0339,	0502	Majestic			0016
Cascade		0009	Grandin			0282	Manesth			0264
Cathay		0037	Grundig	0037	, 0535,		Marantz		0054, 0030	
Celebrity		0000	Grunpy		0180,		Mark			0037
Centurion		0037	HCM		0282,			0009, 0035	, 0037, 0177	7, 0208
Cimline		0009	Hallmark		•	0178	Matsushita		•	0250
Cineral	0451,		Hanseatic			0037	Mediator			0037
Citizen	0060, 0030, 0056,		Harley Davidso	n		0179	Megatron		0178, 0145	
	0046, 0092, 0186,		Harvard		0180,		Memorex	0154.	0250, 0150	
Clairtone		0185	Hinari	0179, 0009				,	0056, 0016	
Clarivox		0037		-,	, ,	- -			,	,

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Metz	0535	Rex	0264	Teletech 0009
Midland	0047, 0017, 0051,	Rhapsody	0185, 0216	Teleton 0186
	0039, 0032, 0135	Roadstar	0009, 0264, 0418	Texet 0216
Minerva	0535, 0554	Runco	0017, 0030	Thomson 0109, 0287
Minutz	0021	SBR	0037	Thorn 0035, 0037, 0512, 0535
Mitsubishi	0093, 0150, 0178,	SEG	0264	Tomashi 0282
	0019, 0512, 0535	SEI	0177	Toshiba 0154, 0156, 0060,
Mivar	0216	SSS	0180, 0019	0035, 0149, 0502
Motorola	0093	Saba	0109, 0287	Tosonic 0185
Multitech	0180, 0009, 0216	Saisho	0009, 0177, 0264	Totevision 0039
NAD	0156, 0178, 0166	Sampo	0030, 0039, 0032, 0052	Triumph 0177
NEC	0030, 0019, 0056, 0170	Samsung	0060, 0030, 0178, 0019,	Ultra 0391
NEI	0037		0056, 0039, 0009, 0032,	Universum 0037, 0264, 0535
NTC	0092		0037, 0090, 0264, 0427	Vector Research 0030
Neckermann	0037, 0554	Samsux	0039	Vestel 0037
Nesco	0179	Sandra	0216	Victor 0053
Nikkai 003	2, 0035, 0037, 0216, 0264	Sansei	0451	Vidikron 0054
Nikko	0030, 0178, 0092	Sansui	0463	Vidtech 0178, 0019
Nisato	0391	Sanyo	0154, 0159, 0208, 0339	Viking 0046
Nordmende	0109, 0287, 0560	Schneider	0037	Wards 0054, 0165, 0030, 0178, 0021,
Noshi	0018	Scimitsu	0019	0019, 0179, 0056, 0016, 0080
Onwa	0180	Scotch	0178	Watson 0037
Optimus	0154, 0250, 0166		36, 0180, 0178, 0019, 0179	White Westinghouse 0037, 0216
Optonica	0093, 0165		7, 0054, 0154, 0156, 0178,	Yamaha 0030, 0019
Orion 023	6, 0463, 0179, 0037, 0177		79, 0056, 0149, 0159, 0171	Yoko 0037, 0264
Osaki	0032, 0264	Semivox	0180	Zenith 0017, 0016, 0092
Osume	0032	Semp	0156	Zonda 0003
Otto Versand	0037, 0512, 0535, 0554	Sentra	0035, 0283	
Palladium	0418	Sharp	0093, 0165, 0039	CABLE
Panama	0264	Shogun	0019	<u> </u>
Panasonic	0051, 0250, 0226	Siemens	0037, 0535, 0554	
				Manufacturer Code
Pathe Cinema	0216	Signature	0016	Manufacturer Code
Pathe Cinema Pausa	0216 0009	Signature Simpson	0016 0186, 0187	
Pathe Cinema Pausa Penney 0047	0216 0009 7, 0156, 0051, 0060, 0030,	Signature Simpson Sinudyne	0016 0186, 0187 0177	ABC 1003, 1008, 1014, 1011
Pathe Cinema Pausa Penney 0047	0216 0009 7, 0156, 0051, 0060, 0030, 8, 0021, 0019, 0018, 0056,	Signature Simpson Sinudyne Solavox	0016 0186, 0187 0177 0032	ABC 1003, 1008, 1014, 1011 Allegro 1315
Pathe Cinema Pausa Penney 0047	0216 0009 7, 0156, 0051, 0060, 0030, 8, 0021, 0019, 0018, 0056, 0039, 0002, 0003,	Signature Simpson Sinudyne Solavox Sonitron	0016 0186, 0187 0177 0032 0208	ABC 1003, 1008, 1014, 1011 Allegro 1315 Archer 1797
Pathe Cinema Pausa Penney 0047 0178	0216 0009 7, 0156, 0051, 0060, 0030, 8, 0021, 0019, 0018, 0056, 0039, 0002, 0003, 0032, 0135, 0149	Signature Simpson Sinudyne Solavox Sonitron Sonoko	0016 0186, 0187 0177 0032 0208 0009, 0037	ABC 1003, 1008, 1014, 1011 Allegro 1315 Archer 1797 BBT 1267
Pathe Cinema Pausa Penney 0047 0178 Phase	0216 0009 7, 0156, 0051, 0060, 0030, 8, 0021, 0019, 0018, 0056, 0039, 0002, 0003, 0032, 0135, 0149 0032	Signature Simpson Sinudyne Solavox Sonitron Sonoko Sonolor	0016 0186, 0187 0177 0032 0208 0009, 0037 0208	ABC 1003, 1008, 1014, 1011 Allegro 1315 Archer 1797 BBT 1267 Belcor 1056
Pathe Cinema Pausa Penney 0047 0178 Phase Philco 0056	0216 0009 7, 0156, 0051, 0060, 0030, 8, 0021, 0019, 0018, 0056, 0039, 0002, 0003, 0032, 0135, 0149 0032 4, 0463, 0030, 0145, 0019	Signature Simpson Sinudyne Solavox Sonitron Sonoko Sonolor Sontec	0016 0186, 0187 0177 0032 0208 0009, 0037 0208 0037	ABC 1003, 1008, 1014, 1011 Allegro 1315 Archer 1797 BBT 1267 Belcor 1056 British Telecom 1003
Pathe Cinema Pausa Penney 0047 0178 Phase Philco 0056 Philips	0216 0009 7, 0156, 0051, 0060, 0030, 8, 0021, 0019, 0018, 0056, 0039, 0002, 0003, 0032, 0135, 0149 0032 4, 0463, 0030, 0145, 0019 0054, 0037, 0554	Signature Simpson Sinudyne Solavox Sonitron Sonoko Sonolor Sontec Sony	0016 0186, 0187 0177 0032 0208 0009, 0037 0208 0037 0000, 0080	ABC 1003, 1008, 1014, 1011 Allegro 1315 Archer 1797 BBT 1267 Belcor 1056 British Telecom 1003 Cable Star 1003, 1008, 1014, 1011
Pathe Cinema Pausa Penney 0047 0178 Phase Philco 0056 Philips Phonola	0216 0009 7, 0156, 0051, 0060, 0030, 8, 0021, 0019, 0018, 0056, 0039, 0002, 0003, 0032, 0135, 0149 0032 4, 0463, 0030, 0145, 0019 0054, 0037, 0554	Signature Simpson Sinudyne Solavox Sonitron Sonoko Sonolor Sontec Sony Soundesign	0016 0186, 0187 0177 0032 0208 0009, 0037 0208 0037 0000, 0080 0180, 0178, 0179, 0186	ABC 1003, 1008, 1014, 1011 Allegro 1315 Archer 1797 BBT 1267 Belcor 1056 British Telecom 1003 Cable Star 1056 Citizen 1315
Pathe Cinema Pausa Penney 0047 0178 Phase Philco 0056 Philips Phonola Pilot	0216 0009 7, 0156, 0051, 0060, 0030, 8, 0021, 0019, 0018, 0056, 0039, 0002, 0003, 0032, 0135, 0149 0032 4, 0463, 0030, 0145, 0019 0054, 0037, 0554 0037	Signature Simpson Sinudyne Solavox Sonitron Sonoko Sonolor Sontec Sony Soundesign Soundwave	0016 0186, 0187 0177 0032 0208 0009, 0037 0208 0037 0000, 0080 0180, 0178, 0179, 0186 0037, 0418	ABC 1003, 1008, 1014, 1011 Allegro 1315 Archer 1797 BBT 1267 Belcor 1056 British Telecom 1003 Cable Star 1056 Citizen 1315 Colour Voice 1031
Pathe Cinema Pausa Penney 0047 0178 Phase Philco 0056 Philips Phonola Pilot Pioneer	0216 0009 7, 0156, 0051, 0060, 0030, 8, 0021, 0019, 0018, 0056, 0039, 0002, 0003, 0032, 0135, 0149 0032 4, 0463, 0030, 0145, 0019 0054, 0037, 0554 0037 0030, 0019, 0039 0109, 0166, 0287	Signature Simpson Sinudyne Solavox Sonitron Sonoko Sonolor Sontec Sony Soundesign Soundwave Spectricon	0016 0186, 0187 0177 0032 0208 0009, 0037 0208 0037 0000, 0080 0180, 0178, 0179, 0186 0037, 0418	ABC 1003, 1008, 1014, 1011 Allegro 1315 Archer 1797 BBT 1267 Belcor 1056 British Telecom 1003 Cable Star 1056 Citizen 1315 Colour Voice 1031 Comtronics 1040
Pathe Cinema Pausa Penney 0047 0178 Phase Philco 0056 Philips Phonola Pilot Pioneer Portland	0216 0009 7, 0156, 0051, 0060, 0030, 8, 0021, 0019, 0018, 0056, 0039, 0002, 0003, 0032, 0135, 0149 0032 4, 0463, 0030, 0145, 0019 0054, 0037, 0554 0037 0030, 0019, 0039 0109, 0166, 0287 0019, 0039, 0092	Signature Simpson Sinudyne Solavox Sonitron Sonoko Sonolor Sontec Sony Soundesign Soundwave Spectricon Squareview	0016 0186, 0187 0177 0032 0208 0009, 0037 0208 0037 0000, 0080 0180, 0178, 0179, 0186 0037, 0418 0003 0171	ABC 1003, 1008, 1014, 1011 Allegro 1315 Archer 1797 BBT 1267 Belcor 1056 British Telecom 1003 Cable Star 1056 Citizen 1315 Colour Voice 1031 Comtronics 1040 Contec 1019
Pathe Cinema Pausa Penney 0047 0178 Phase Philco 0056 Philips Phonola Pilot Pioneer Portland Prism	0216 0009 7, 0156, 0051, 0060, 0030, 8, 0021, 0019, 0018, 0056, 0039, 0002, 0003, 0032, 0135, 0149 0032 4, 0463, 0030, 0145, 0019 0054, 0037, 0554 0037 0030, 0019, 0039 0109, 0166, 0287 0019, 0039, 0092	Signature Simpson Sinudyne Solavox Sonitron Sonoko Sonolor Sontec Sony Soundesign Soundwave Spectricon Squareview Standard	0016 0186, 0187 0177 0032 0208 0009, 0037 0208 0037 0000, 0080 0180, 0178, 0179, 0186 0037, 0418 0003 0171 0009	ABC 1003, 1008, 1014, 1011 Allegro 1315 Archer 1797 BBT 1267 Belcor 1056 British Telecom 1003 Cable Star 1056 Citizen 1315 Colour Voice 1031 Comtronics 1040 Contec 1019 Emerson 1797
Pathe Cinema Pausa Penney 0047 0178 Phase Philco 0054 Philips Phonola Pilot Pioneer Portland Prism Profex	0216 0009 7, 0156, 0051, 0060, 0030, 8, 0021, 0019, 0018, 0056, 0039, 0002, 0003, 0032, 0135, 0149 0032 4, 0463, 0030, 0145, 0019 0054, 0037, 0554 0037 0030, 0019, 0039 0109, 0166, 0287 0019, 0039, 0092 0051 0009	Signature Simpson Sinudyne Solavox Sonitron Sonoko Sonolor Sontec Sony Soundesign Soundwave Spectricon Squareview Standard Starlite	0016 0186, 0187 0177 0032 0208 0009, 0037 0208 0037 0000, 0080 0180, 0178, 0179, 0186 0037, 0418 0003 0171 0009 0180	ABC 1003, 1008, 1014, 1011 Allegro 1315 Archer 1797 BBT 1267 Belcor 1056 British Telecom 1003 Cable Star 1056 Citizen 1315 Colour Voice 1031 Comtronics 1040 Contec 1019 Emerson 1797 Everquest 1015, 1040
Pathe Cinema Pausa Penney 0047 0178 Phase Philco 0054 Philips Phonola Pilot Pioneer Portland Prism Profex Proscan	0216 0009 7, 0156, 0051, 0060, 0030, 8, 0021, 0019, 0018, 0056, 0039, 0002, 0003, 0032, 0135, 0149 0032 4, 0463, 0030, 0145, 0019 0054, 0037, 0554 0037 0030, 0019, 0039 0109, 0166, 0287 0019, 0039, 0092 0051 0009 0047	Signature Simpson Sinudyne Solavox Sonitron Sonoko Sonolor Sontec Sony Soundesign Soundwave Spectricon Squareview Standard Starlite Supra	0016 0186, 0187 0177 0032 0208 0009, 0037 0208 0037 0000, 0080 0180, 0178, 0179, 0186 0037, 0418 0003 0171 0009 0180	ABC 1003, 1008, 1014, 1011 Allegro 1315 Archer 1797 BBT 1267 Belcor 1056 British Telecom 1003 Cable Star 1056 Citizen 1315 Colour Voice 1031 Comtronics 1040 Contec 1019 Emerson 1797 Everquest 1015, 1040 Focus 1400
Pathe Cinema Pausa Penney 0047 0178 Phase Philco 0054 Philips Phonola Pilot Pioneer Portland Prism Profex Proscan Protech	0216 0009 7, 0156, 0051, 0060, 0030, 8, 0021, 0019, 0018, 0056, 0039, 0002, 0003, 0032, 0135, 0149 0032 4, 0463, 0030, 0145, 0019 0054, 0037, 0554 0037 0030, 0019, 0039 0109, 0166, 0287 0019, 0039, 0092 0051 0009 0047 0009, 0037, 0264, 0418	Signature Simpson Sinudyne Solavox Sonitron Sonoko Sonolor Sontec Sony Soundesign Soundwave Spectricon Squareview Standard Starlite Supra Supre-Macy	0016 0186, 0187 0177 0032 0208 0009, 0037 0208 0037 0000, 0080 0180, 0178, 0179, 0186 0037, 0418 0003 0171 0009 0180 0056 0046	ABC 1003, 1008, 1014, 1011 Allegro 1315 Archer 1797 BBT 1267 Belcor 1056 British Telecom 1003 Cable Star 1056 Citizen 1315 Colour Voice 1031 Comtronics 1040 Contec 1019 Emerson 1797 Everquest 1015, 1040 Focus 1400 GC Electronics 1056
Pathe Cinema Pausa Penney 0047 0178 Phase Philco 0056 Philips Phonola Pilot Pioneer Portland Prism Profex Proscan Protech Proton	0216 0009 7, 0156, 0051, 0060, 0030, 8, 0021, 0019, 0018, 0056, 0039, 0002, 0003, 0032, 0135, 0149 0032 4, 0463, 0030, 0145, 0019 0054, 0037, 0554 0037 0030, 0019, 0039 0109, 0166, 0287 0019, 0039, 0092 0051 0009 0047 0009, 0037, 0264, 0418 0178, 0003, 0052	Signature Simpson Sinudyne Solavox Sonitron Sonoko Sonolor Sontec Sony Soundesign Soundwave Spectricon Squareview Standard Starlite Supra Supre-Macy Supreme	0016 0186, 0187 0177 0032 0208 0009, 0037 0208 0037 0000, 0080 0180, 0178, 0179, 0186 0037, 0418 0003 0171 0009 0180 0056 0046	ABC 1003, 1008, 1014, 1011 Allegro 1315 Archer 1797 BBT 1267 Belcor 1056 British Telecom 1003 Cable Star 1056 Citizen 1315 Colour Voice 1031 Comtronics 1040 Contec 1019 Emerson 1797 Everquest 1015, 1040 Focus 1400 GC Electronics 1056 Gemini 1015
Pathe Cinema Pausa Penney 0047 0178 Phase Philco 0056 Philips Phonola Pilot Pioneer Portland Prism Profex Proscan Protech Proton Pulsar	0216 0009 7, 0156, 0051, 0060, 0030, 8, 0021, 0019, 0018, 0056, 0039, 0002, 0003, 0032, 0135, 0149 0032 4, 0463, 0030, 0145, 0019 0054, 0037, 0554 0037 0030, 0019, 0039 0109, 0166, 0287 0019, 0039, 0092 0051 0009 0047 0009, 0037, 0264, 0418 0178, 0003, 0052 0017, 0019	Signature Simpson Sinudyne Solavox Sonitron Sonoko Sonolor Sontec Sony Soundesign Soundwave Spectricon Squareview Standard Starlite Supra Supre-Macy Supreme Sylvania	0016 0186, 0187 0177 0032 0208 0009, 0037 0208 0037 0000, 0080 0180, 0178, 0179, 0186 0037, 0418 0003 0171 0009 0180 0056 0046 0000	ABC 1003, 1008, 1014, 1011 Allegro 1315 Archer 1797 BBT 1267 Belcor 1056 British Telecom 1003 Cable Star 1056 Citizen 1315 Colour Voice 1031 Comtronics 1040 Contec 1019 Emerson 1797 Everquest 1015, 1040 Focus 1400 GC Electronics 1056 Gemini 1015 General Instrument 1476, 1011
Pathe Cinema Pausa Penney 0047 0178 Phase Philco 0056 Philips Phonola Pilot Pioneer Portland Prism Profex Proscan Protech Proton Pulsar Quasar	0216 0009 7, 0156, 0051, 0060, 0030, 8, 0021, 0019, 0018, 0056, 0039, 0002, 0003, 0032, 0135, 0149 0032 4, 0463, 0030, 0145, 0019 0054, 0037, 0554 0037 0030, 0019, 0039 0109, 0166, 0287 0019, 0039, 0092 0051 0009 0047 0009, 0037, 0264, 0418 0178, 0003, 0052 0017, 0019 0051, 0250, 0165	Signature Simpson Sinudyne Solavox Sonitron Sonoko Sonolor Sontec Sony Soundesign Soundwave Spectricon Squareview Standard Starlite Supra Supre-Macy Supreme Sylvania Symphonic	0016 0186, 0187 0177 0032 0208 0009, 0037 0208 0037 0000, 0080 0180, 0178, 0179, 0186 0037, 0418 0003 0171 0009 0180 0056 0046 0000 0054, 0030 0171	ABC 1003, 1008, 1014, 1011 Allegro 1315 Archer 1797 BBT 1267 Belcor 1056 British Telecom 1003 Cable Star 1056 Citizen 1315 Colour Voice 1031 Comtronics 1040 Contec 1019 Emerson 1797 Everquest 1015, 1040 Focus 1400 GC Electronics 1056 Gemini 1015 General Instrument 1476, 1011 GoldStar 1144, 1040
Pathe Cinema Pausa Penney 0047 0178 Phase Philco 0056 Philips Phonola Pilot Pioneer Portland Prism Profex Proscan Protech Proton Pulsar Quasar Quelle 0037	0216 0009 7, 0156, 0051, 0060, 0030, 8, 0021, 0019, 0018, 0056, 0039, 0002, 0003, 0032, 0135, 0149 0032 4, 0463, 0030, 0145, 0019 0054, 0037, 0554 0037 0030, 0019, 0039 0109, 0166, 0287 0019, 0039, 0092 0051 0009 0047 0009, 0037, 0264, 0418 0178, 0003, 0052 0017, 0019 0051, 0250, 0165 7, 0252, 0512, 0535, 0554	Signature Simpson Sinudyne Solavox Sonitron Sonoko Sonolor Sontec Sony Soundesign Soundwave Spectricon Squareview Standard Starlite Supra Supre-Macy Supreme Sylvania Symphonic Sysline	0016 0186, 0187 0177 0032 0208 0009, 0037 0208 0037 0000, 0080 0180, 0178, 0179, 0186 0037, 0418 0003 0171 0009 0180 0056 0046 0000 0054, 0030 0171 0037	ABC 1003, 1008, 1014, 1011 Allegro 1315 Archer 1797 BBT 1267 Belcor 1056 British Telecom 1003 Cable Star 1056 Citizen 1315 Colour Voice 1031 Comtronics 1040 Contec 1019 Emerson 1797 Everquest 1015, 1040 Focus 1400 GC Electronics 1056 Gemini 1015 General Instrument 1476, 1011
Pathe Cinema Pausa Penney 0047 0178 Phase Philco 0056 Philips Phonola Pilot Pioneer Portland Prism Profex Proscan Protech Proton Pulsar Quasar Quelle 0036 R-Line	0216 0009 7, 0156, 0051, 0060, 0030, 8, 0021, 0019, 0018, 0056, 0039, 0002, 0003, 0032, 0135, 0149 0032 4, 0463, 0030, 0145, 0019 0054, 0037, 0554 0037 0030, 0019, 0039 0109, 0166, 0287 0019, 0039, 0092 0051 0009 0047 0009, 0037, 0264, 0418 0178, 0003, 0052 0017, 0019 0051, 0250, 0165 7, 0252, 0512, 0535, 0554	Signature Simpson Sinudyne Solavox Sonitron Sonoko Sonolor Sontec Sony Soundesign Soundwave Spectricon Squareview Standard Starlite Supra Supre-Macy Supreme Sylvania Symphonic Sysline TMK	0016 0186, 0187 0177 0032 0208 0009, 0037 0208 0037 0000, 0080 0180, 0178, 0179, 0186 0037, 0418 0003 0171 0009 0180 0056 0046 0000 0054, 0030 0171 0037 0178, 0056, 0177	ABC 1003, 1008, 1014, 1011 Allegro 1315 Archer 1797 BBT 1267 Belcor 1056 British Telecom 1003 Cable Star 1056 Citizen 1315 Colour Voice 1031 Comtronics 1040 Contec 1019 Emerson 1797 Everquest 1015, 1040 Focus 1400 GC Electronics 1056 Gemini 1015 General Instrument 1476, 1011 GoldStar 1144, 1040
Pathe Cinema Pausa Penney 0047 0178 Phase Philco 0056 Philips Phonola Pilot Pioneer Portland Prism Profex Proscan Protech Proton Pulsar Quasar Quelle 0037	0216 0009 7, 0156, 0051, 0060, 0030, 8, 0021, 0019, 0018, 0056, 0039, 0002, 0003, 0032, 0135, 0149 0032 4, 0463, 0030, 0145, 0019 0054, 0037, 0554 0037 0030, 0019, 0039 0109, 0166, 0287 0019, 0039, 0092 0051 0009 0047 0009, 0037, 0264, 0418 0178, 0003, 0052 0017, 0019 0051, 0250, 0165 7, 0252, 0512, 0535, 0554 0037 0047, 0051, 0093, 0019,	Signature Simpson Sinudyne Solavox Sonitron Sonoko Sonolor Sontec Sony Soundesign Soundwave Spectricon Squareview Standard Starlite Supra Supre-Macy Supreme Sylvania Symphonic Sysline TMK Tandy	0016 0186, 0187 0177 0032 0208 0009, 0037 0208 0037 0000, 0080 0180, 0178, 0179, 0186 0037, 0418 0003 0171 0009 0180 0056 0046 0000 0054, 0030 0171 0037 0178, 0056, 0177 0093	ABC 1003, 1008, 1014, 1011 Allegro 1315 Archer 1797 BBT 1267 Belcor 1056 British Telecom 1003 Cable Star 1056 Citizen 1315 Colour Voice 1031 Comtronics 1040 Contec 1019 Emerson 1797 Everquest 1015, 1040 Focus 1400 GC Electronics 1056 Gemini 1015 General Instrument 1476, 1011 GoldStar 1144, 1040 Goodmind 1797
Pathe Cinema Pausa Penney 0047 0178 Phase Philco 0054 Philips Phonola Pilot Pioneer Portland Prism Profex Proscan Protech Proton Pulsar Quasar Quelle 0037 R-Line RCA	0216 0009 7, 0156, 0051, 0060, 0030, 8, 0021, 0019, 0018, 0056, 0039, 0002, 0003, 0032, 0135, 0149 0032 4, 0463, 0030, 0145, 0019 0054, 0037, 0554 0037 0030, 0019, 0039 0109, 0166, 0287 0019, 0039, 0092 0051 0009 0047 0009, 0037, 0264, 0418 0178, 0003, 0052 0017, 0019 0051, 0250, 0165 7, 0252, 0512, 0535, 0554 0037 0047, 0051, 0093, 0019, 0018, 0090, 0135	Signature Simpson Sinudyne Solavox Sonitron Sonoko Sonolor Sontec Sony Soundesign Soundwave Spectricon Squareview Standard Starlite Supra Supre-Macy Supreme Sylvania Symphonic Sysline TMK Tandy Tatung	0016 0186, 0187 0177 0032 0208 0009, 0037 0208 0037 0000, 0080 0180, 0178, 0179, 0186 0037, 0418 0003 0171 0009 0180 0056 0046 0000 0054, 0030 0171 0037 0178, 0056, 0177 0093 0003, 0037	ABC 1003, 1008, 1014, 1011 Allegro 1315 Archer 1797 BBT 1267 Belcor 1056 British Telecom 1003 Cable Star 1056 Citizen 1315 Colour Voice 1031 Comtronics 1040 Contec 1019 Emerson 1797 Everquest 1015, 1040 Focus 1400 GC Electronics 1056 Gemini 1015 General Instrument 1476, 1011 GoldStar 1144, 1040 Goodmind 1797 Hamlin 1020, 1259, 1009, 1034
Pathe Cinema Pausa Penney 0047 0178 Phase Philco 0056 Philips Phonola Pilot Pioneer Portland Prism Profex Proscan Protech Proton Pulsar Quasar Quelle 0036 R-Line	0216 0009 7, 0156, 0051, 0060, 0030, 8, 0021, 0019, 0018, 0056, 0039, 0002, 0003, 0032, 0135, 0149 0032 4, 0463, 0030, 0145, 0019 0054, 0037, 0554 0037 0030, 0019, 0039 0109, 0166, 0287 0019, 0039, 0092 0051 0009 0047 0009, 0037, 0264, 0418 0178, 0003, 0052 0017, 0019 0051, 0250, 0165 7, 0252, 0512, 0535, 0554 0037 0047, 0051, 0093, 0019, 0018, 0090, 0135 0047, 0154, 0165, 0180,	Signature Simpson Sinudyne Solavox Sonitron Sonoko Sonolor Sontec Sony Soundesign Soundwave Spectricon Squareview Standard Starlite Supra Supre-Macy Supreme Sylvania Symphonic Sysline TMK Tandy Tatung Technics	0016 0186, 0187 0177 0032 0208 0009, 0037 0208 0037 0000, 0080 0180, 0178, 0179, 0186 0037, 0418 0003 0171 0009 0180 0056 0046 0000 0054, 0030 0171 0037 0178, 0056, 0177 0093 0003, 0037 0051, 0250	ABC 1003, 1008, 1014, 1011 Allegro 1315 Archer 1797 BBT 1267 Belcor 1056 British Telecom 1003 Cable Star 1056 Citizen 1315 Colour Voice 1031 Comtronics 1040 Contec 1019 Emerson 1797 Everquest 1015, 1040 Focus 1400 GC Electronics 1056 Gemini 1015 General Instrument 1476, 1011 GoldStar 1144, 1040 Goodmind 1797 Hamlin 1020, 1259, 1009, 1034 Hitachi 1011
Pathe Cinema Pausa Penney 0047 0178 Phase Philco 0054 Philips Phonola Pilot Pioneer Portland Prism Profex Proscan Protech Proton Pulsar Quasar Quelle 0037 R-Line RCA	0216 0009 7, 0156, 0051, 0060, 0030, 8, 0021, 0019, 0018, 0056, 0039, 0002, 0003, 0032, 0135, 0149 0032 4, 0463, 0030, 0145, 0019 0054, 0037, 0554 0037 0030, 0019, 0039 0109, 0166, 0287 0019, 0039, 0092 0051 0009 0047 0009, 0037, 0264, 0418 0178, 0003, 0052 0017, 0019 0051, 0250, 0165 7, 0252, 0512, 0535, 0554 0037 0047, 0051, 0093, 0019, 0018, 0090, 0135 0047, 0154, 0165, 0180, 0030, 0178, 0019, 0056,	Signature Simpson Sinudyne Solavox Sonitron Sonoko Sonolor Sontec Sony Soundesign Soundwave Spectricon Squareview Standard Starlite Supra Supre-Macy Supreme Sylvania Symphonic Sysline TMK Tandy Tatung Technics Technol Ace	0016 0186, 0187 0177 0032 0208 0009, 0037 0208 0037 0000, 0080 0180, 0178, 0179, 0186 0037, 0418 0003 0171 0009 0180 0056 0046 0000 0054, 0030 0171 0037 0178, 0056, 0177 0093 0003, 0037 0051, 0250 0179	ABC 1003, 1008, 1014, 1011 Allegro 1315 Archer 1797 BBT 1267 Belcor 1056 British Telecom 1003 Cable Star 1056 Citizen 1315 Colour Voice 1031 Comtronics 1040 Contec 1019 Emerson 1797 Everquest 1015, 1040 Focus 1400 GC Electronics 1056 Gemini 1015 General Instrument 1476, 1011 GoldStar 1144, 1040 Goodmind 1797 Hamlin 1020, 1259, 1009, 1034 Hitachi 1011 Jasco 1315
Pathe Cinema Pausa Penney 0047 0178 Phase Philco 0054 Philips Phonola Pilot Pioneer Portland Prism Profex Proscan Protech Proton Pulsar Quasar Quelle 003 R-Line RCA Radio Shack	0216 0009 7, 0156, 0051, 0060, 0030, 8, 0021, 0019, 0018, 0056, 0039, 0002, 0003, 0032, 0135, 0149 0032 4, 0463, 0030, 0145, 0019 0054, 0037, 0554 0037 0030, 0019, 0039 0109, 0166, 0287 0019, 0039, 0092 0051 0009 0047 0009, 0037, 0264, 0418 0178, 0003, 0052 0017, 0019 0051, 0250, 0165 7, 0252, 0512, 0535, 0554 0037 0047, 0051, 0093, 0019, 0018, 0090, 0135 0047, 0154, 0165, 0180, 0030, 0178, 0019, 0056, 0039, 0032	Signature Simpson Sinudyne Solavox Sonitron Sonoko Sonolor Sontec Sony Soundesign Soundwave Spectricon Squareview Standard Starlite Supra Supre-Macy Supreme Sylvania Symphonic Sysline TMK Tandy Tatung Technics Technol Ace Techwood	0016 0186, 0187 0177 0032 0208 0208 0009, 0037 0208 0037 0000, 0080 0180, 0178, 0179, 0186 0037, 0418 0003 0171 0009 0180 0056 0046 0000 0054, 0030 0171 0037 0178, 0056, 0177 0093 0003, 0037 0051, 0250 0179 0051, 0056, 0003	ABC 1003, 1008, 1014, 1011 Allegro 1315 Archer 1797 BBT 1267 Belcor 1056 British Telecom 1003 Cable Star 1056 Citizen 1315 Colour Voice 1031 Comtronics 1040 Contec 1019 Emerson 1797 Everquest 1015, 1040 Focus 1400 GC Electronics 1056 Gemini 1015 General Instrument 1476, 1011 GoldStar 1144, 1040 Goodmind 1797 Hamlin 1020, 1259, 1009, 1034 Hitachi 1011 Jasco 1315 Jerrold 1003, 1012, 1476, 1014,
Pathe Cinema Pausa Penney 0047 0178 Phase Philco 005 Philips Phonola Pilot Pioneer Portland Prism Profex Proscan Protech Proton Pulsar Quasar Quelle 003 R-Line RCA Radio Shack	0216 0009 7, 0156, 0051, 0060, 0030, 8, 0021, 0019, 0018, 0056, 0039, 0002, 0003, 0032, 0135, 0149 0032 4, 0463, 0030, 0145, 0019 0054, 0037, 0554 0037 0030, 0019, 0039 0109, 0166, 0287 0019, 0039, 0092 0051 0009 0047 0009, 0037, 0264, 0418 0178, 0003, 0052 0017, 0019 0051, 0250, 0165 7, 0252, 0512, 0535, 0554 0037 0047, 0051, 0093, 0019, 0018, 0090, 0135 0047, 0154, 0165, 0180, 0039, 0032 0037	Signature Simpson Sinudyne Solavox Sonitron Sonoko Sonolor Sontec Sony Soundesign Soundwave Spectricon Squareview Standard Starlite Supra Supre-Macy Supreme Sylvania Symphonic Sysline TMK Tandy Tatung Technics Technol Ace	0016 0186, 0187 0177 0032 0208 0208 0009, 0037 0208 0037 0000, 0080 0180, 0178, 0179, 0186 0037, 0418 0003 0171 0009 0180 0056 0046 0000 0054, 0030 0171 0037 0178, 0056, 0177 0093 0003, 0037 0051, 0056, 0003 0054, 0180, 0150, 0060,	ABC 1003, 1008, 1014, 1011 Allegro 1315 Archer 1797 BBT 1267 Belcor 1056 British Telecom 1003 Cable Star 1056 Citizen 1315 Colour Voice 1031 Comtronics 1040 Contec 1019 Emerson 1797 Everquest 1015, 1040 Focus 1400 GC Electronics 1056 Gemini 1015 General Instrument 1476, 1011 GoldStar 1144, 1040 Goodmind 1797 Hamlin 1020, 1259, 1009, 1034 Hitachi 1011 Jasco 1315 Jerrold 1003, 1012, 1476, 1014,
Pathe Cinema Pausa Penney 0047 0178 Phase Philco 0056 Philips Phonola Pilot Pioneer Portland Prism Profex Proscan Protech Proton Pulsar Quasar Quelle 003 R-Line RCA Radio Shack Radiola Realistic	0216 0009 7, 0156, 0051, 0060, 0030, 8, 0021, 0019, 0018, 0056, 0039, 0002, 0003, 0032, 0135, 0149 0032 4, 0463, 0030, 0145, 0019 0054, 0037, 0554 0037 0030, 0019, 0039 0109, 0166, 0287 0019, 0039, 0092 0051 0009 0047 0009, 0037, 0264, 0418 0178, 0003, 0052 0017, 0019 0051, 0250, 0165 7, 0252, 0512, 0535, 0554 0037 0047, 0051, 0093, 0019, 0018, 0090, 0135 0047, 0154, 0165, 0180, 0039, 0032 0037 0154, 0165, 0180, 0030,	Signature Simpson Sinudyne Solavox Sonitron Sonoko Sonolor Sontec Sony Soundesign Soundwave Spectricon Squareview Standard Starlite Supra Supre-Macy Supreme Sylvania Symphonic Sysline TMK Tandy Tatung Technics Technol Ace Techwood	0016 0186, 0187 0177 0032 0208 0208 0009, 0037 0208 0037 0000, 0080 0180, 0178, 0179, 0186 0037, 0418 0003 0171 0009 0180 0056 0046 0000 0054, 0030 0171 0037 0178, 0056, 0177 0093 0003, 0037 0051, 0250 0179 0051, 0056, 0003	ABC 1003, 1008, 1014, 1011 Allegro 1315 Archer 1797 BBT 1267 Belcor 1056 British Telecom 1003 Cable Star 1056 Citizen 1315 Colour Voice 1031 Comtronics 1040 Contec 1019 Emerson 1797 Everquest 1015, 1040 Focus 1400 GC Electronics 1056 Gemini 1015 General Instrument 1476, 1011 GoldStar 1144, 1040 Goodmind 1797 Hamlin 1020, 1259, 1009, 1034 Hitachi 1011 Jasco 1315 Jerrold 1003, 1012, 1476, 1014, 1015, 1011, 1024 MNet 1019
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Kaisui			3072	Philco	3035, 3209, 3038, 3479	TMK	3240, 3036, 3208
Kendo			3209	Philips	3035, 3081, 3062, 3384	Tashiko	3000
Kenwood	3067 30	41, 3038		Phonola	3081	Tatung	3081, 3000, 3041
Kodak	3007, 30		3037	Pilot	3037	Teac	3000, 3041
		3033	3072	Pioneer	3081, 3067, 3162, 3235	Tec	3020
Korpel				Portland	3020	Technics	3035, 3162, 3226
LXI			3037			Teknika	
Lenco			3278	Profitronic	3240		3035, 3037, 3000
Leyco			3072	Proline	3000	Teleavia	3041
Lloyd's			3208	Proscan	3060, 3202)41, 3187, 3320, 3384
Loewe			3081	Protec	3072	Tenosal	3072
Logik			3072	Pulsar	3039	Tensai	3000
Luxor 3048							
Luxui 3040	3, 3104, 30	43, 3062	3046	Pye	3081	Thomas	3000
M Electronic	3, 3104, 30	43, 3062,	3046	Pye Quarter	3046	Thomas Thomson	3000 3041, 3320, 3384
	3, 3104, 30	43, 3062,		-		Thomson Thorn	3041, 3320, 3384 3104, 3041, 3036
M Electronic		43, 3062, 40, 3043,	3000 3035	Quarter	3046	Thomson Thorn Toshiba 30	3041, 3320, 3384 3104, 3041, 3036 81, 3045, 3043, 3041,
M Electronic MEI MGA	32		3000 3035	Quarter Quartz	3046 3046	Thomson Thorn Toshiba 30	3041, 3320, 3384 3104, 3041, 3036
M Electronic MEI	32	40, 3043	3000 3035 3061 3240	Quarter Quartz Quasar	3046 3046 3035, 3162	Thomson Thorn Toshiba 30	3041, 3320, 3384 3104, 3041, 3036 81, 3045, 3043, 3041,
M Electronic MEI MGA MGN Technolo MTC	32	40, 3043	3000 3035 3061 3240 3000	Quarter Quartz Quasar Quelle	3046 3046 3035, 3162 3081 3060, 3035, 3048,	Thomson Thorn Toshiba 300	3041, 3320, 3384 3104, 3041, 3036 81, 3045, 3043, 3041, 066, 3212, 3366, 3384
M Electronic MEI MGA MGN Technolo MTC Magnasonic	32 gy	40, 3043 3240	3000 3035 3061 3240 3000 3278	Quarter Quartz Quasar Quelle RCA	3046 3046 3035, 3162 3081 3060, 3035, 3048, 3240, 3042, 3202	Thomson Thorn Toshiba 306 30 Totevision	3041, 3320, 3384 3104, 3041, 3036 81, 3045, 3043, 3041, 066, 3212, 3366, 3384 3037, 3240 3208
M Electronic MEI MGA MGN Technolo MTC Magnasonic Magnavox	32 gy	40, 3043	3000 3035 3061 3240 3000 3278 3000	Quarter Quartz Quasar Quelle RCA	3046 3046 3035, 3162 3081 3060, 3035, 3048, 3240, 3042, 3202 3037, 3000	Thomson Thorn Toshiba 306 30 Totevision Triumph Uher	3041, 3320, 3384 3104, 3041, 3036 81, 3045, 3043, 3041, 066, 3212, 3366, 3384 3037, 3240
M Electronic MEI MGA MGN Technolo MTC Magnasonic Magnavox Magnin	32 gy	3240, 3081,	3000 3035 3061 3240 3000 3278 3000 3240	Quarter Quartz Quasar Quelle RCA Radio Shack Radiola	3046 3046 3035, 3162 3081 3060, 3035, 3048, 3240, 3042, 3202 3037, 3000 3081	Thomson Thorn Toshiba 300 Totevision Triumph Uher Unitech	3041, 3320, 3384 3104, 3041, 3036 81, 3045, 3043, 3041, 966, 3212, 3366, 3384 3037, 3240 3208 3240 3240
M Electronic MEI MGA MGN Technolo MTC Magnasonic Magnavox Magnin Manesth	32 gy 3035, 30	3240, 3240, 39, 3081, 3045,	3000 3035 3061 3240 3000 3278 3000 3240 3072	Quarter Quartz Quasar Quelle RCA Radio Shack Radiola Radix	3046 3046 3035, 3162 3081 3060, 3035, 3048, 3240, 3042, 3202 3037, 3000 3081 3037	Thomson Thorn Toshiba 306 30 Totevision Triumph Uher	3041, 3320, 3384 3104, 3041, 3036 81, 3045, 3043, 3041, 066, 3212, 3366, 3384 3037, 3240 3240 3240 3037, 3081, 3240,
M Electronic MEI MGA MGN Technolo MTC Magnasonic Magnavox Magnin Manesth Marantz	32 gy 3035, 30	3240, 3081,	3000 3035 3061 3240 3000 3278 3000 3240 3072 3295	Quarter Quartz Quasar Quelle RCA Radio Shack Radiola Radix Randex	3046 3046 3035, 3162 3081 3060, 3035, 3048, 3240, 3042, 3202 3037, 3000 3081 3037 3037	Thomson Thorn Toshiba 300 300 Totevision Triumph Uher Unitech Universum	3041, 3320, 3384 3104, 3041, 3036 81, 3045, 3043, 3041, 966, 3212, 3366, 3384 3037, 3240 3208 3240 3240 3037, 3081, 3240, 3000, 3195
M Electronic MEI MGA MGN Technolo MTC Magnasonic Magnavox Magnin Manesth Marantz Marta	32 gy 3035, 30 3035, 30	3240 3240 39, 3081 3045 81, 3062	3000 3035 3061 3240 3000 3278 3000 3240 3072 3295 3037	Quarter Quartz Quasar Quelle RCA Radio Shack Radiola Radix Randex Realistic	3046 3046 3035, 3162 3081 3060, 3035, 3048, 3240, 3042, 3202 3037, 3000 3081 3037 3037 3037, 3048, 3047,	Thomson Thorn Toshiba 300 300 Totevision Triumph Uher Unitech Universum Vector	3041, 3320, 3384 3104, 3041, 3036 81, 3045, 3043, 3041, 066, 3212, 3366, 3384 3037, 3240 3208 3240 3240 3037, 3081, 3240, 3000, 3195 3045
M Electronic MEI MGA MGN Technolo MTC Magnasonic Magnavox Magnin Manesth Marantz Marta Matsui	32 gy 3035, 30 3035, 30	3045 3045 3062 36, 3208	3000 3035 3061 3240 3000 3278 3000 3240 3072 3295 3037 3295	Quarter Quartz Quasar Quelle RCA Radio Shack Radiola Radix Randex Realistic	3046 3046 3035, 3162 3081 3060, 3035, 3048, 3240, 3042, 3202 3037, 3000 3081 3037 3037 3035, 3037, 3048, 3047, 0, 3104, 3062, 3046, 3066	Thomson Thorn Toshiba 300 300 Totevision Triumph Uher Unitech Universum Vector Vector Research	3041, 3320, 3384 3104, 3041, 3036 81, 3045, 3043, 3041, 966, 3212, 3366, 3384 3037, 3240 3208 3240 3240 3037, 3081, 3240, 3000, 3195 3045 3038, 3040
M Electronic MEI MGA MGN Technolo MTC Magnasonic Magnavox Magnin Manesth Marantz Marta Matsui Matsushita	32 gy 3035, 30 3035, 30 3209, 30	3045 3045 3045 3045 3045 3045 3035	3000 3035 3061 3240 3000 3278 3000 3240 3072 3295 3037 3295 3162	Quarter Quartz Quasar Quelle RCA Radio Shack Radiola Radix Randex Realistic 3000 Rex	3046 3046 3035, 3162 3081 3060, 3035, 3048, 3240, 3042, 3202 3037, 3000 3081 3037 3037 3035, 3037, 3048, 3047, 0, 3104, 3062, 3046, 3066 3041, 3384	Thomson Thorn Toshiba 300 300 Totevision Triumph Uher Unitech Universum Vector Vector Research Video Concepts	3041, 3320, 3384 3104, 3041, 3036 81, 3045, 3043, 3041, 966, 3212, 3366, 3384 3037, 3240 3208 3240 3240 3037, 3081, 3240, 3000, 3195 3045 3038, 3040 3045, 3040, 3061
M Electronic MEI MGA MGN Technolo MTC Magnasonic Magnavox Magnin Manesth Marantz Marta Matsui	32 gy 3035, 30 3035, 30 3209, 30 3035, 30	3240, 3240, 39, 3081, 3045, 81, 3062, 36, 3208, 3035, 37, 3048,	3000 3035 3061 3240 3000 3278 3000 3240 3072 3295 3037 3295 3162 3039,	Quarter Quartz Quasar Quelle RCA Radio Shack Radiola Radix Randex Realistic 3000 Rex Ricoh	3046 3046 3035, 3162 3081 3060, 3035, 3048, 3240, 3042, 3202 3037, 3000 3081 3037 3037 3035, 3037, 3048, 3047, 0, 3104, 3062, 3046, 3066 3041, 3384 3034	Thomson Thorn Toshiba 300 300 Totevision Triumph Uher Unitech Universum Vector Vector Research Video Concepts Videosonic	3041, 3320, 3384 3104, 3041, 3036 81, 3045, 3043, 3041, 966, 3212, 3366, 3384 3037, 3240 3208 3240 3240 3037, 3081, 3240, 3000, 3195 3045 3038, 3040 3045, 3040, 3061 3240
M Electronic MEI MGA MGN Technolo MTC Magnasonic Magnavox Magnin Manesth Marantz Marta Matsui Matsushita	32 gy 3035, 30 3035, 30 3209, 30	3240, 3240, 39, 3081, 3045, 81, 3062, 36, 3208, 3035, 37, 3048, 10, 3000,	3000 3035 3061 3240 3000 3278 3000 3240 3072 3295 3037 3295 3162 3039, 3104,	Quarter Quartz Quasar Quelle RCA Radio Shack Radiola Radix Randex Realistic 3000 Rex Ricoh Roadstar	3046 3046 3035, 3162 3081 3060, 3035, 3048, 3240, 3042, 3202 3037, 3000 3081 3037 3035, 3037, 3048, 3047, 0, 3104, 3062, 3046, 3066 3041, 3384 3034 3037, 3240, 3072, 3278	Thomson Thorn Toshiba 300 300 Totevision Triumph Uher Unitech Universum Vector Vector Research Video Concepts Videosonic Wards 300	3041, 3320, 3384 3104, 3041, 3036 81, 3045, 3043, 3041, 966, 3212, 3366, 3384 3037, 3240 3208 3240 3240 3037, 3081, 3240, 3000, 3195 3045 3038, 3040 3045, 3040, 3061 3240 60, 3035, 3048, 3047,
M Electronic MEI MGA MGN Technolo MTC Magnasonic Magnavox Magnin Manesth Marantz Marta Matsui Matsushita Memorex	32 gy 3035, 30 3035, 30 3209, 30 3035, 30	3240, 3240, 39, 3081, 3045, 81, 3062, 36, 3208, 3035, 37, 3048, 10, 3000,	3000 3035 3061 3240 3000 3278 3000 3240 3072 3295 3037 3295 3162 3039, 3104, 3046	Quarter Quartz Quasar Quelle RCA Radio Shack Radiola Radix Randex Realistic 3000 Rex Ricoh Roadstar Runco	3046 3046 3035, 3162 3081 3060, 3035, 3048, 3240, 3042, 3202 3037, 3000 3081 3037 3037 3035, 3037, 3048, 3047, 0, 3104, 3062, 3046, 3066 3041, 3384 3034 3037, 3240, 3072, 3278 3039	Thomson Thorn Toshiba 300 300 Totevision Triumph Uher Unitech Universum Vector Vector Research Video Concepts Videosonic Wards 300	3041, 3320, 3384 3104, 3041, 3036 81, 3045, 3043, 3041, 966, 3212, 3366, 3384 3037, 3240 3240 3240 3037, 3081, 3240, 3000, 3195 3045 3045, 3040, 3061 3240 60, 3035, 3048, 3047, 81, 3240, 3000, 3042,
M Electronic MEI MGA MGN Technolo MTC Magnasonic Magnavox Magnin Manesth Marantz Marta Matsui Matsushita Memorex Memphis	32 gy 3035, 30 3035, 30 3209, 30 3035, 30 3047, 324	3240, 3240, 39, 3081, 3045, 81, 3062, 36, 3208, 3035, 37, 3048, 10, 3000, 3162,	3000 3035 3061 3240 3000 3278 3000 3240 3072 3295 3037 3295 3162 3039, 3104, 3046 3072	Quarter Quartz Quasar Quelle RCA Radio Shack Radiola Radix Randex Realistic 3000 Rex Ricoh Roadstar Runco SBR	3046 3046 3035, 3162 3081 3060, 3035, 3048, 3240, 3042, 3202 3037, 3000 3081 3037 3037 3035, 3037, 3048, 3047, 0, 3104, 3062, 3046, 3066 3041, 3384 3034 3037, 3240, 3072, 3278 3039 3081	Thomson Thorn Toshiba 30i 30 Totevision Triumph Uher Unitech Universum Vector Vector Research Video Concepts Videosonic Wards 30i 30i	3041, 3320, 3384 3104, 3041, 3036 81, 3045, 3043, 3041, 966, 3212, 3366, 3384 3037, 3240 3240 3240 3037, 3081, 3240, 3000, 3195 3045 3045, 3040, 3061 3240 60, 3035, 3048, 3047, 81, 3240, 3000, 3042, 3072, 3062, 3212
M Electronic MEI MGA MGN Technolo MTC Magnasonic Magnavox Magnin Manesth Marantz Marta Matsui Matsushita Memorex Memphis Metz	32 gy 3035, 30 3035, 30 3209, 30 3035, 30 3047, 324	3240, 3240, 39, 3081, 3045, 81, 3062, 36, 3208, 3035, 37, 3048, 10, 3000,	3000 3035 3061 3240 3000 3278 3000 3240 3072 3295 3037 3295 3162 3039, 3104, 3046 3072 3227	Quarter Quartz Quasar Quelle RCA Radio Shack Radiola Radix Randex Realistic 3000 Rex Ricoh Roadstar Runco SBR SEG	3046 3046 3035, 3162 3081 3060, 3035, 3048, 3240, 3042, 3202 3037, 3000 3081 3037 3037 3035, 3037, 3048, 3047, 0, 3104, 3062, 3046, 3066 3041, 3384 3034 3037, 3240, 3072, 3278 3039 3081 3240	Thomson Thorn Toshiba 300 300 Totevision Triumph Uher Unitech Universum Vector Vector Research Video Concepts Videosonic Wards 300 300 White Westinghous	3041, 3320, 3384 3104, 3041, 3036 81, 3045, 3043, 3041, 966, 3212, 3366, 3384 3037, 3240 3240 3240 3037, 3081, 3240, 3000, 3195 3045 3045, 3040, 3061 3240 60, 3035, 3048, 3047, 81, 3240, 3000, 3042, 3072, 3062, 3212 se 3278
M Electronic MEI MGA MGN Technolo MTC Magnasonic Magnavox Magnin Manesth Marantz Marta Matsui Matsushita Memorex Memphis	32 gy 3035, 30 3035, 30 3209, 30 3035, 30 3047, 324	3240, 3240, 39, 3081, 3045, 81, 3062, 36, 3208, 3035, 37, 3048, 10, 3000, 3162,	3000 3035 3061 3240 3000 3278 3000 3240 3072 3295 3037 3295 3162 3039, 3104, 3046 3072 3227 3195	Quarter Quartz Quasar Quelle RCA Radio Shack Radiola Radix Randex Realistic 3000 Rex Ricoh Roadstar Runco SBR SEG SEI	3046 3046 3035, 3162 3081 3060, 3035, 3048, 3240, 3042, 3202 3037, 3000 3081 3037 3037 3035, 3037, 3048, 3047, 0, 3104, 3062, 3046, 3066 3041, 3384 3034 3037, 3240, 3072, 3278 3039 3081 3240 3081	Thomson Thorn Toshiba 300 300 Totevision Triumph Uher Unitech Universum Vector Vector Research Video Concepts Videosonic Wards 300 White Westinghous XR-1000	3041, 3320, 3384 3104, 3041, 3036 81, 3045, 3043, 3041, 966, 3212, 3366, 3384 3037, 3240 3240 3037, 3081, 3240, 3000, 3195 3045 3038, 3040 3045, 3040, 3061 3240 60, 3035, 3048, 3047, 81, 3240, 3000, 3042, 3072, 3062, 3212 se 3278 3035, 3000, 3072
M Electronic MEI MGA MGN Technolo MTC Magnasonic Magnavox Magnin Manesth Marantz Marta Matsui Matsushita Memorex Memphis Metz	32 gy 3035, 30 3035, 30 3209, 30 3035, 30 3047, 324	3045, 3045, 3045, 3045, 3045, 3045, 3035, 3035, 3035, 3036, 3036, 3036, 3036, 3036, 3036, 3036, 3036, 3036, 3036, 3036,	3000 3035 3061 3240 3000 3278 3000 3240 3072 3295 3037 3295 3162 3039, 3104, 3046 3072 3227 3195 3042	Quarter Quartz Quasar Quelle RCA Radio Shack Radiola Radix Randex Realistic 3000 Rex Ricoh Roadstar Runco SBR SEG SEI STS	3046 3046 3035, 3162 3081 3060, 3035, 3048, 3240, 3042, 3202 3037, 3000 3081 3037 3035, 3037, 3048, 3047, 0, 3104, 3062, 3046, 3066 3041, 3384 3034 3037, 3240, 3072, 3278 3039 3081 3240 3081 3042	Thomson Thorn Toshiba 300 300 Totevision Triumph Uher Unitech Universum Vector Vector Research Video Concepts Videosonic Wards 300 White Westinghous XR-1000 Yamaha	3041, 3320, 3384 3104, 3041, 3036 81, 3045, 3043, 3041, 966, 3212, 3366, 3384 3037, 3240 3240 3037, 3081, 3240, 3000, 3195 3045 3038, 3040 3045, 3040, 3061 3240 60, 3035, 3048, 3047, 81, 3240, 3000, 3042, 3072, 3062, 3212 se 3278 3035, 3000, 3072 3038
M Electronic MEI MGA MGN Technolo MTC Magnasonic Magnavox Magnin Manesth Marantz Marta Matsui Matsushita Memorex Memphis Metz Minerva	32 gy 3035, 30 3035, 30 3209, 30 3035, 30 3047, 324	3045, 3045, 3045, 3045, 3045, 3045, 3035, 3035, 3035, 3036, 3036, 3036, 3036, 3036, 3036, 3036, 3036, 3036, 3036, 3036,	3000 3035 3061 3240 3000 3278 3000 3240 3072 3295 3037 3295 3162 3039, 3104, 3046 3072 3227 3195 3042	Quarter Quartz Quasar Quelle RCA Radio Shack Radiola Radix Randex Realistic 3000 Rex Ricoh Roadstar Runco SBR SEG SEI	3046 3046 3035, 3162 3081 3060, 3035, 3048, 3240, 3042, 3202 3037, 3000 3081 3037 3035, 3037, 3048, 3047, 0, 3104, 3062, 3046, 3066 3041, 3384 3034 3037, 3240, 3072, 3278 3039 3081 3240 3081 3042 3041, 3320, 3384	Thomson Thorn Toshiba 300 300 Totevision Triumph Uher Unitech Universum Vector Vector Research Video Concepts Videosonic Wards 300 300 White Westinghous XR-1000 Yamaha Yamishi	3041, 3320, 3384 3104, 3041, 3036 81, 3045, 3043, 3041, 966, 3212, 3366, 3384 3037, 3240 3240 3240 3037, 3081, 3240, 3000, 3195 3045 3038, 3040 3045, 3040, 3061 3240 60, 3035, 3048, 3047, 81, 3240, 3000, 3042, 3072, 3062, 3212 se 3278 3035, 3000, 3072 3038 3072
M Electronic MEI MGA MGN Technolo MTC Magnasonic Magnavox Magnin Manesth Marantz Marta Matsui Matsushita Memorex Memphis Metz Minerva Minolta	32 gy 3035, 30 3035, 30 3209, 30 3035, 30 3047, 324 31	3045, 3045, 3045, 3045, 3045, 3045, 3035, 3035, 3035, 3036, 3036, 3036, 3036, 3036, 3036, 3036, 3036, 3036, 3036, 3036,	3000 3035 3061 3240 3000 3278 3000 3240 3072 3295 3037 3295 3162 3039, 3104, 3046 3072 3227 3195 3042 3043,	Quarter Quartz Quasar Quelle RCA Radio Shack Radiola Radix Randex Realistic 3000 Rex Ricoh Roadstar Runco SBR SEG SEI STS Saba Saisho	3046 3046 3035, 3162 3081 3060, 3035, 3048, 3240, 3042, 3202 3037, 3000 3081 3037 3035, 3037, 3048, 3047, 0, 3104, 3062, 3046, 3066 3041, 3384 3034 3037, 3240, 3072, 3278 3039 3081 3240 3081 3042	Thomson Thorn Toshiba 300 300 Totevision Triumph Uher Unitech Universum Vector Vector Research Video Concepts Videosonic Wards 300 300 White Westinghous XR-1000 Yamaha Yamishi Yokan	3041, 3320, 3384 3104, 3041, 3036 81, 3045, 3043, 3041, 966, 3212, 3366, 3384 3037, 3240 3240 3240 3037, 3081, 3240, 3000, 3195 3045 3038, 3040 3045, 3040, 3061 3240 60, 3035, 3048, 3047, 81, 3240, 3000, 3042, 3072, 3062, 3212 se 3278 3035, 3000, 3072 3038 3072 3072
M Electronic MEI MGA MGN Technolo MTC Magnasonic Magnavox Magnin Manesth Marantz Marta Matsui Matsushita Memorex Memphis Metz Minerva Minolta	32 gy 3035, 30 3035, 30 3209, 30 3035, 30 3047, 324 31	3240, 3240, 39, 3081, 3045, 81, 3062, 36, 3208, 3035, 37, 3048, 10, 3000, 3162, 62, 3195, 61, 3067, 61, 3173,	3000 3035 3061 3240 3000 3278 3000 3240 3072 3295 3037 3295 3162 3039, 3104, 3046 3072 3227 3195 3042 3043,	Quarter Quartz Quasar Quelle RCA Radio Shack Radiola Radix Randex Realistic 3000 Rex Ricoh Roadstar Runco SBR SEG SEI STS Saba	3046 3046 3035, 3162 3081 3060, 3035, 3048, 3240, 3042, 3202 3037, 3000 3081 3037 3035, 3037, 3048, 3047, 0, 3104, 3062, 3046, 3066 3041, 3384 3034 3037, 3240, 3072, 3278 3039 3081 3240 3081 3042 3041, 3320, 3384	Thomson Thorn Toshiba 300 300 Totevision Triumph Uher Unitech Universum Vector Vector Research Video Concepts Videosonic Wards 300 300 White Westinghous XR-1000 Yamaha Yamishi	3041, 3320, 3384 3104, 3041, 3036 81, 3045, 3043, 3041, 966, 3212, 3366, 3384 3037, 3240 3240 3240 3037, 3081, 3240, 3000, 3195 3045 3038, 3040 3045, 3040, 3061 3240 60, 3035, 3048, 3047, 81, 3240, 3000, 3042, 3072, 3062, 3212 se 3278 3035, 3000, 3072 3038 3072
M Electronic MEI MGA MGN Technolo MTC Magnasonic Magnavox Magnin Manesth Marantz Marta Matsui Matsushita Memorex Memphis Metz Minerva Minolta Mitsubishi	32 gy 3035, 30 3035, 30 3209, 30 3035, 30 3047, 324 31	3240, 3240, 39, 3081, 3045, 81, 3062, 36, 3208, 3035, 37, 3048, 40, 3000, 3162, 31, 3067, 61, 3173, 3035,	3000 3035 3061 3240 3000 3278 3000 3240 3072 3295 3037 3295 3162 3039, 3104, 3046 3072 3227 3195 3042 3043, 3196	Quarter Quartz Quasar Quelle RCA Radio Shack Radiola Radix Randex Realistic 3000 Rex Ricoh Roadstar Runco SBR SEG SEI STS Saba Saisho	3046 3046 3035, 3162 3081 3060, 3035, 3048, 3240, 3042, 3202 3037, 3000 3081 3037 3035, 3037, 3048, 3047, 0, 3104, 3062, 3046, 3066 3041, 3384 3034 3037, 3240, 3072, 3278 3039 3081 3240 3081 3042 3041, 3320, 3384 3029, 3036, 3208	Thomson Thorn Toshiba 300 300 Totevision Triumph Uher Unitech Universum Vector Vector Research Video Concepts Videosonic Wards 300 300 White Westinghous XR-1000 Yamaha Yamishi Yokan Yoko	3041, 3320, 3384 3104, 3041, 3036 81, 3045, 3043, 3041, 966, 3212, 3366, 3384 3037, 3240 3240 3240 3037, 3081, 3240, 3000, 3195 3045 3038, 3040 3045, 3040, 3061 3240 60, 3035, 3048, 3047, 81, 3240, 3000, 3042, 3072, 3062, 3212 se 3278 3035, 3000, 3072 3038 3072 3072
M Electronic MEI MGA MGN Technolo MTC Magnasonic Magnavox Magnin Manesth Marantz Marta Matsui Matsushita Memorex Memphis Metz Minerva Minolta Mitsubishi Motorola Multitech	32 gy 3035, 30 3035, 30 3209, 30 3035, 30 3047, 324 31	3240, 3240, 39, 3081, 3045, 81, 3062, 36, 3208, 3035, 37, 3048, 40, 3000, 3162, 31, 3067, 61, 3173, 3035,	3000 3035 3061 3240 3000 3278 3000 3240 3072 3295 3037 3295 3162 3039, 3104, 3046 3072 3227 3195 3042 3043, 3196 3048	Quarter Quartz Quasar Quelle RCA Radio Shack Radiola Radix Randex Realistic 3000 Rex Ricoh Roadstar Runco SBR SEG SEI STS Saba Saisho Salora	3046 3046 3035, 3162 3081 3060, 3035, 3048, 3240, 3042, 3202 3037, 3000 3081 3037 3037 3035, 3037, 3048, 3047, 0, 3104, 3062, 3046, 3066 3041, 3384 3034 3037, 3240, 3072, 3278 3039 3081 3240 3081 3042 3041, 3320, 3384 3029, 3036, 3208 3043, 3046	Thomson Thorn Toshiba 300 300 Totevision Triumph Uher Unitech Universum Vector Vector Research Video Concepts Videosonic Wards 300 300 White Westinghous XR-1000 Yamaha Yamishi Yokan Yoko	3041, 3320, 3384 3104, 3041, 3036 81, 3045, 3043, 3041, 966, 3212, 3366, 3384 3037, 3240 3240 3240 3037, 3081, 3240, 3000, 3195 3045 3038, 3040 3045, 3040, 3061 3240 60, 3035, 3048, 3047, 81, 3240, 3000, 3042, 3072, 3062, 3212 36 3038, 3072 3038 3072 3072 3240, 3020
M Electronic MEI MGA MGN Technolo MTC Magnasonic Magnavox Magnin Manesth Marantz Marta Matsui Matsushita Memorex Memphis Metz Minerva Minolta Mitsubishi Motorola Multitech Murphy	32 gy 3035, 30 3035, 30 3209, 30 3035, 30 3047, 324 31	3045, 3043, 3045, 3045, 3035, 3048, 40, 3000, 3162, 3195, 30000, 30000, 30000, 30000, 30000, 30000, 30000, 30000, 30000, 3000000, 300000000	3000 3035 3061 3240 3000 3278 3000 3240 3072 3295 3037 3295 3162 3039, 3104, 3046 3072 3227 3195 3042 3043, 3196 3048 3072 3000	Quarter Quartz Quasar Quelle RCA Radio Shack Radiola Radix Randex Realistic 3000 Rex Ricoh Roadstar Runco SBR SEG SEI STS Saba Saisho Salora Samsung Sanky	3046 3046 3035, 3162 3081 3060, 3035, 3048, 3240, 3042, 3202 3037, 3000 3081 3037 3037 3037 3037, 3048, 3047, 0, 3104, 3062, 3046, 3066 3041, 3384 3034 3037, 3240, 3072, 3278 3039 3081 3240 3081 3042 3041, 3320, 3384 3042 3041, 3320, 3384 3042 3043, 3046 3240, 3045 3048, 3039	Thomson Thorn Toshiba 300 300 Totevision Triumph Uher Unitech Universum Vector Vector Research Video Concepts Videosonic Wards 300 300 White Westinghous XR-1000 Yamaha Yamishi Yokan Yoko	3041, 3320, 3384 3104, 3041, 3036 81, 3045, 3043, 3041, 966, 3212, 3366, 3384 3037, 3240 3240 3240 3037, 3081, 3240, 3000, 3195 3045 3038, 3040 3045, 3040, 3061 3240 60, 3035, 3048, 3047, 81, 3240, 3000, 3042, 3072, 3062, 3212 36 3038, 3072 3038 3072 3072 3240, 3020
M Electronic MEI MGA MGN Technolo MTC Magnasonic Magnavox Magnin Manesth Marantz Marta Matsui Matsushita Memorex Memphis Metz Minerva Minolta Mitsubishi Motorola Multitech Murphy	32 gy 3035, 30 3035, 30 3209, 30 3035, 30 3047, 324 31	3045, 3043, 3045, 3045, 3035, 3048, 40, 3000, 3162, 3195, 30000, 30000, 30000, 30000, 30000, 30000, 30000, 30000, 30000, 3000000, 300000000	3000 3035 3061 3240 3000 3278 3000 3240 3072 3295 3037 3295 3162 3039, 3104, 3046 3072 3227 3195 3042 3043, 3196 3048 3072 3000	Quarter Quartz Quasar Quelle RCA Radio Shack Radiola Radix Randex Realistic 3000 Rex Ricoh Roadstar Runco SBR SEG SEI STS Saba Saisho Salora Samsung Sanky	3046 3046 3035, 3162 3081 3060, 3035, 3048, 3240, 3042, 3202 3037, 3000 3081 3037 3037 3037 3037, 3048, 3047, 0, 3104, 3062, 3046, 3066 3041, 3384 3034 3037, 3240, 3072, 3278 3039 3081 3240 3081 3042 3041, 3320, 3384 3042 3041, 3320, 3384 3042, 3046 3240, 3045	Thomson Thorn Toshiba 300 300 Totevision Triumph Uher Unitech Universum Vector Vector Research Video Concepts Videosonic Wards 300 300 White Westinghous XR-1000 Yamaha Yamishi Yokan Yoko	3041, 3320, 3384 3104, 3041, 3036 81, 3045, 3043, 3041, 966, 3212, 3366, 3384 3037, 3240 3240 3240 3037, 3081, 3240, 3000, 3195 3045 3038, 3040 3045, 3040, 3061 3240 60, 3035, 3048, 3047, 81, 3240, 3000, 3042, 3072, 3062, 3212 36 3038, 3072 3038 3072 3072 3240, 3020

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DVD	PLAYER	

Manufacturer		Code
JVC		4558
Kenwood		4534
Magnavox		4503
Mitsubishi		4521
Onkyo		4503
Panasonic		4490
Philips	4503,	4539
Pioneer		4525
Proscan		4522
RCA		4522
Sony		4533
Technics		4490
Toshiba		4503
Yamaha	4490,	4545
Zenith		4503

LD PLAYER

Manufacturer	Code
Aiwa	5203
Carver	5064, 5194, 5323
Denon	5059, 5172
Disco Vision	5023
Funai	5203
Hitachi	5023
Magnavox	5194, 5217
Marantz	5064, 5194
Mitsubishi	5059
NAD	5059
Panasonic	5204
Philips	5064, 5194
Pioneer	5059, 5023
Quasar	5204
Realistic	5203
Salora	5064
Samsung	5323
Sega	5023
Sony	5193, 5201
Technics	5204
Telefunken	5059
Theta Digital	5194
Yamaha	5217

CD PLAYER

Code

Manufacturer

ADC		6018
Acoustic Research	1	6420
Adcom		6155
Aiwa	6157, 6012,	6124
Akai		6156
Arcam		6157
Audio Pro		6437
Audio Research		6157
Audio-Technica		6170
Audio Ton		6157
Audiolab		6157
Audiomeca		6157
BSR		6245
Bestar		6164
Burmester		6420
Bush		6245
California Audio La		6029
Carver	6157, 6179,	
Condor		6164
Crown		6122
Cyrus		6157
DAK		6245
DKK	0000	6000
Denon	6003,	
Elektra	6393,	
Emerson 61	6305, 6155, 179, 6048, 6088,	
	393, 6245, 6280,	
)32, 6305, 6164,	
Goodmans	6305, 6245,	
Grundig	0303, 0243,	6157
Harman/Kardon		6426
Hitachi	6032,	-
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-	028, 6037, 6190,	
Kodak	,20, 0007, 0100,	6287
Krell		6157
Kyocera		6018
LXI		6305
Linn		6157
Luxman		6093
MCS	6029,	
MTC		6420
Magnavox	6157,	6305
Marantz	6029, 6157,	
Matsui	, ,	6157
McIntosh		6287
Memorex	6032, 6305, 6	6155,
	6164,	
Meridian		6157
Micromega		6157
Mission		6157

Mitsubishi				6156
NAD				6000
NEC				6043
NSM				6157
Nagaoka				6018
Naim				6157
Nakamichi				6147
Nikko			6164,	_
			0104,	
Onkyo				6101
Optimus	6000,	6032,	6179,	6305,
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	6468,	6087,	6280,	6342,
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Parasound				6420
Philips			6157,	6287
Pioneer	6032,	6305,	6468,	6244
Рорру				6164
Proton				6157
QED				6157
Quad				6157
Quasar				6029
RCA	6179,	6305,	6053,	6155
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Revox				6157
Roadstar				6461
Rotel			6157	
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Royal				6420
SAE				6157
STS				6018
Sansui		6157,	6305,	6202
Sanyo	6179.	6048.	6087,	6342
Scott	,		6155,	
Sears		0000,	0100,	6305
		0007	0400	
Sharp			6180,	
Sherwood		6114,	6180,	6426
Shure				6043
Sony			6000,	6185
Soundesign			6145,	
Tascam			,	6420
		6420	6202	
Teac		6420,	6393,	
Technics			6029,	
Jniversum			6157,	6437
√ictor				6072
Wards			6157,	6053
Yamaha 6036	6187	6261		
Yorx	, ,	J_01,	5502,	6461
1017				0401

MD RECORDER

Code
7826
7490
7888, 7490

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Manufacturer				Code
ADC				8171
Aiwa			8029,	8197
Akai				8283
Arcam				8076
Carver				8029
Denon				8076
Fisher				8074
Garrard		8308,	8309,	8375
GoldStar				8375
Grundig			,	8375
	, 8274,			
Kenwood	8071,	8092,	8233,	8234
Kyocera				8171
Magnavox				8029
Marantz			8029,	8009
Memorex				8099
Mitsubishi				8283
Onkyo				8282
Optimus		8027,	8220,	
Panasonic				8229
Philips				8029
Phonotrend				8337
Pioneer		8027,	8220,	
Revox				8190
Sansui			8029,	8009
Sanyo				8074
Sharp				8231
Sherwood				8337
Sonic		00.40	0.470	8375
Sony	0000		8170,	
Teac	8280,	8289,	8308,	
Technics				8229
Universum				8375
Victor				8274
Wards	0007	0004	0.470	8027
Yamaha	8097,	8094,	04/8,	o5∠4

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LIST OF MANUFACTURER'S CODES (Australia model) LISTE DES CODES FABRICANTS (Modèle pour l'Australie)

		Condor	0370, 0320	Hanseatic	0037, 0320, 0361
TV		Contec	0216, 0009, 0036, 0157	Harley Davids	
		Continental E		Harvard	0068
Manufacture	r Code		0205, 0333	Hinari	0037, 0218, 0009, 0036
		Crosley	0074, 0076, 0084, 0213	Hisawa	0282, 0455
Abex	0032	•	37, 0370, 0418, 0009, 0076	Hitachi 0217	7, 0036, 0109, 0032, 0043,
Acura	0009	Crystal	0431		0044, 0105, 0163, 0196,
Admiral	0093, 0163, 0213	Curtis Mathes	0093		0198, 0225, 0306, 0349
Adyson	0217, 0032	Cybertron	0218	Huanyu	0216, 0374
Akai	0208, 0361	Daewoo	0037, 0374, 0009	Hypson	0037, 0282, 0264
Akura	0218, 0264, 0369	Dainichi	0218, 0215	ICE	0217, 0371, 0264
Alaron	0216	Dansai	0037	ICeS	0218
Alba	0037, 0218, 0371, 0009,	Dayton	0009	ITS	0371
	0036, 0235	De Graaf	0208	ITT	0163, 0361
Allorgan	0294	Decca	0037, 0072	Imperial	0370, 0418, 0074, 0076,
Amplivision	0217	Dixi	0037, 0009	1	0084, 0247
Amstrad	0371, 0009, 0362, 0369	Dual	0336, 0352	Indiana	0037
Anam	0009, 0068	Dual Tec	0217	Ingelen	0163
Anitech	0009, 0068, 0076	Dumont	0070	Inno Hit	0072
Arcam	0216, 0217	Elbe	0259	Interbuy	0068
Asberg	0076	Elin	0037	Interfunk	0037, 0163, 0247, 0361
Asuka	0218	Elite	0218, 0320	Intervision	0037, 0217, 0264,
Atlantic	0206	Elta	0009	1111011101011	0102, 0068
Audiosonic	0037, 0109	Emerson	0282, 0213, 0361	Isukai	0218
Autovox	0206, 0076, 0336	Erres	0037, 0012		1, 0036, 0053, 0190, 0192
BPL	0282	Expert	0206	KTV	0217
BSR	0294	Ferguson	0037, 0109, 0005, 0073,		6, 0217, 0218, 0009, 0282
BTC	0218	· ·	90, 0238, 0287, 0335, 0343	Kamp	0216
Baird	0343	Fidelity	0216, 0361	Kapsch	0206, 0163
Basic Line	0218, 0009	Finlandia	0208, 0346, 0359	Kawasho	0216
Baur 003	37, 0010, 0554, 0349, 0361		37, 0072, 0070, 0105, 0346	Kendo	0037, 0235, 0362
Beko	0370	Firstline	0216, 0217, 0294, 0009,	Kingsley	0216
Beon	0037		0321, 0247	Kneissel	0259
Binatone	0217	Fisher	0370, 0217, 0208, 0303	Korpel	0037
Blaupunkt	0554, 0191, 0195, 0200,	Flint	0455	Koyoda	0009
	0213, 0327, 0328	Formenti	0037, 0320, 0213	Leyco	0037, 0294, 0072, 0264
Blue Sky	0218	Frontech	0264, 0431, 0163, 0247	Liesenk & Tte	·
Blue Star	0282	Fujitsu	0072, 0206	Lloytron	0032
Bondstec	0247	Funai	0294, 0264, 0303	Loewe	0075
Boots	0217	GE	0282, 0093	Luma	0206
Brandt	0109, 0196, 0198,		37, 0217, 0072, 0043, 0205	Luxor	0349, 0361
	0205, 0333, 0335	GPM	0218	M Electronic	0037, 0217, 0374, 0009,
Brionvega	0362	Geloso	0009, 0213	III Elootioillo	0109, 0068, 0105, 0163,
Britannia	0216	Genexxa	0218, 0163		0287, 0346
Bush 003	7, 0218, 0374, 0371, 0294,	GoldStar	0037, 0217, 0109,	MGA	0150
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CCE	0037, 0217	Goodmans	0037, 0217, 0374, 0371,	Magnadyne	0102, 0247
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CTC	0247	Gradiente	0053	Manesth	0217, 0320, 0264, 0235
Carrefour	0036	Graetz	0163, 0361	Marantz	0037
Cascade	0009	Granada	0037, 0217, 0072, 0146,	Mark	0037
Cathay	0037	J. d. lada	0208, 0339, 0359	Matsui	0037, 0217, 0371, 0294,
Centurion	0037	Grandin	0282	Matour	0009, 0072, 0036, 0035,
Century	0213	Grundig	0037, 0554, 0070, 0191,		0011, 0208, 0235
Cimline	0009	Crandig	0195, 0205	Matsushita	0250
Clarivox	0037	НСМ	0009, 0282	McMichael	0043
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Mediator 0037, 0012	Radio Shack 003	
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Memphis 0337	Rank Arena 003	
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Motorola 0093	SEG 0217, 0264, 0036, 007	
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Neckermann 0037, 0554, 0191,		
0213, 0349	Saisho 0009, 0264, 0431, 0011, 023	
Nikkai 0037, 0216, 0218, 0072,	Salora 0163, 0349, 0359, 036	
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Nobliko 0102, 0076	Samsung 0037, 0370, 0217, 0009	, Victor 0053
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Otto Versand 0037, 0217, 0320, 0036,	Sharp 0036, 0093, 015	
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Sanyo	6048, 6179, 6342
Schneider	6134
Scott	6164
Sharp	6037, 6262, 6265
Sherwood	6114, 6196
Siemens	6516
Signature	6108
Sony	6000, 6490
Teac	6378
Technics	6207, 6303, 6029
Toshiba	6481
Universum	6157
Victor	6072
Wards	6157, 6108
Yamaha	
	6036, 6082, 6187, 6712 6461
Yorx	6461

MD RECORDER

Manufacturer	Code
Kenwood	7826
Sony	7490
Yamaha	7888, 7490

TAPE DECK

Manufacturer	Code
Aiwa	8029, 8197, 8200
Akai	8188, 8189
Arcam	8076
Carver	8029
Denon	8076, 8412
Fisher	8074
Grundig	8029
Harman/Kardon	8182
JVC	8244, 8273, 8274
Kenwood	8070, 8071, 8092,
	8205, 8233, 8234
Magnavox	8029
Marantz	8029, 8009
Memorex	8099, 8101
Mitsubishi	8189
Onkyo	8136, 8135
Optimus	8027, 8220
Panasonic	8229
Philips	8029
Pioneer	8027, 8099, 8101, 8220
Revox	8029
Sansui	8029, 8009 8074
Sanyo	8205
Sharp Sony	8170, 8243
Technics	8229
Victor	8273, 8274
Wards	8027
	8097, 8205, 8478, 8524
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