RX-V459

AV Receiver

IMPORTANT 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 OUALIFIED 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.

- 1 Read Instructions All the safety and operating instructions should be read before the product is operated.
- 2 Retain Instructions The safety and operating instructions should be retained for future reference.
- **3** Heed Warnings All warnings on the product and in the operating instructions should be adhered to.
- Follow Instructions All operating and use instructions should be followed.
- 5 Cleaning Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners.
- **6** Attachments Do not use attachments not recommended by the product manufacturer as they may cause hazards.
- Water and Moisture Do not use this product near water for example, near a bath tub, wash bowl, kitchen sink, or laundry tub; in a wet basement; or near a swimming pool; and the like.
- 8 Accessories Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the product. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.
- **9** A product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn.

- 10 Ventilation Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.
- 11 Power Sources This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instructions.
- 12 Grounding or Polarization This product may be equipped with a polarized alternating current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.
- 13 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 product.
- 14 Lightning For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges.
- 15 Power Lines An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.
- 16 Overloading Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.
- 17 Object and Liquid Entry Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.
- 18 Servicing Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
- 19 Damage Requiring Service Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:
 - a) When the power-supply cord or plug is damaged,
 - If liquid has been spilled, or objects have fallen into the product,
 - c) If the product has been exposed to rain or water,

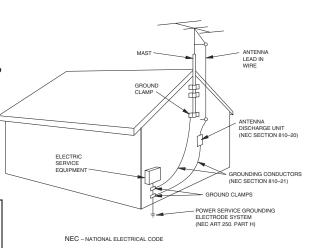
- d) If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation,
- e) If the product has been dropped or damaged in any way, and
- f) When the product exhibits a distinct change in performance this indicates a need for service.
- 20 Replacement Parts When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.
- 21 Safety Check Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.
- 22 Wall or Ceiling Mounting This unit should be mounted to a wall or ceiling only as recommended by the manufacturer.
- 23 Heat The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

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.

24 Outdoor Antenna Grounding – If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/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.

EXAMPLE OF ANTENNA GROUNDING



FCC INFORMATION (for US customers)

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.

- 2 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 this 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.

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 sound system in a well ventilated, cool, dry, clean place away from direct sunlight, heat sources, vibration, dust, moisture, and/or cold. Allow ventilation space of at least 30 cm on the top, 20 cm on the left and right, and 20 cm on the back of this unit.
- 3 Locate this unit away from other electrical appliances, motors, or transformers to avoid humming sounds.
- 4 Do not expose this unit to sudden temperature changes from cold to hot, and do not locate this unit in a environment with high humidity (i.e. a room with a humidifier) to prevent condensation inside this unit, which may cause an electrical shock, fire, damage to this unit, and/or personal injury.
- 5 Avoid installing this unit where foreign object may fall onto this unit and/or this unit may be exposed to liquid dripping or splashing. On the top of this unit, do not place:
 - Other components, as they may cause damage and/or discoloration on the surface of this unit.
 - Burning objects (i.e. candles), as they may cause fire, damage to this unit, and/or personal injury.
 - Containers with liquid in them, as they may fall and liquid may cause electrical shock to the user and/or damage to this unit.
- 6 Do not cover this unit with a newspaper, tablecloth, curtain, etc. in order not to obstruct heat radiation. If the temperature inside this unit rises, it may cause fire, damage to this unit, and/or personal injury.
- 7 Do not plug in this unit to a wall outlet until all connections are complete.
- 8 Do not operate this unit upside-down. It may overheat, possibly causing damage.
- **9** Do not use force on switches, knobs and/or cords.
- 10 When disconnecting the power cable from the wall outlet, grasp the plug; do not pull the cord.
- 11 Do not clean this unit with chemical solvents; this might damage the finish. Use a clean, dry cloth.
- 12 Only voltage specified on this unit must be used. Using this unit with a higher voltage than specified is dangerous and may cause fire, damage to this unit, and/or personal injury. YAMAHA will not be held responsible for any damage resulting from use of this unit with a voltage other than specified.
- 13 To prevent damage by lightning, keep the power cable and outdoor antennas disconnected from a wall outlet or this unit during a lightning storm.

- 14 Do not attempt to modify or fix this unit. Contact qualified YAMAHA service personnel when any service is needed. The cabinet should never be opened for any reasons.
- 15 When not planning to use this unit for long periods of time (i.e. vacation), disconnect the AC power plug from the wall outlet
- 16 Install this unit near the AC wall outlet where the power cable plug can be reached easily.
- 17 Be sure to read the "TROUBLESHOOTING" section on common operating errors before concluding that this unit is faulty.
- 18 Before moving this unit, press STANDBY/ON to set this unit in the standby mode, and then disconnect the power cable from the AC wall outlet.
- 19 VOLTAGE SELECTOR (Asia 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 wall outlet. Voltages are:

WARNING

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

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. In this state, this unit is designed to consume a very small quantity of power.

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.

IMPORTANT

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

MODEL:

Serial No.:

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

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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FEATURES

Built-in 6-channel power amplifier

Minimum RMS output power
 (0.06% THD, 20 Hz to 20 kHz, 8 Ω)

Front: 90 W + 90 W Center: 90 W

Surround: 90 W + 90 W Surround back: 90 W

Sound field features

- Proprietary YAMAHA technology for the creation of sound fields
- ◆ Dolby Digital/Dolby Digital EX decoder
- DTS/DTS-ES Matrix 6.1, Discrete 6.1, DTS Neo:6, DTS 96/24 decoder
- Dolby Pro Logic/Dolby Pro Logic II/ Dolby Pro Logic IIx decoder
- Neural Surround decoder (U.S.A. and Canada models only)
- ◆ Virtual CINEMA DSP
- ◆ SILENT CINEMA™

Sophisticated AM/FM tuner

- ◆ 40-station random and direct preset tuning
- ◆ Automatic preset tuning
- ◆ Preset station shifting capability (preset editing)

XM Satellite Radio (U.S.A. model only)

- ◆ XM Satellite Radio tuning capability (using the "XM Connect-and-Play digital antenna accessory" sold separately)
- Neural Surround decoder to play back the surround sound content of the XM Satellite Radio broadcasts in multi-channels, resulting in a full surround sound experience

Other features

- ◆ 192-kHz/24-bit D/A converter
- 6 additional input jacks for discrete multi-channel input
- ◆ S-video signal input/output capability
- Component video input/output capability (3 COMPONENT VIDEO INs and 1 MONITOR OUT)
- Optical and coaxial digital audio signal jacks
- Sleep timer
- ◆ Cinema and music night listening modes
- Remote control with preset remote control codes, backlighting input selector buttons
- PORTABLE mini analog input jack on the front panel for a portable audio player
- Compressed Music Enhancer mode to improve the sound quality of compression artifacts (such as the MP3 format) to that of a high-quality stereo

Notes

- 🕍 indicates a tip for your operation.
- Some operations can be performed by using either the buttons on the front panel or the ones on the remote control. In case the button names differ between the front panel and the remote control, the button name on the remote control is given in parentheses.
- This manual is printed prior to production. Design and specifications are subject to change in part as a result of improvements, etc. In case of differences between the manual and product, the product has priority.



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SILENT ™ CINEMA

"SILENT CINEMA" is a trademark of YAMAHA CORPORATION.



READ

The XM name and related logos are registered trademarks of XM Satellite Radio Inc.



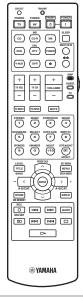
Neural Surround $^{\!\scriptscriptstyle{TM}}$ name and related logos are trademarks owned by Neural Audio Corporation.

GETTING STARTED

Supplied accessories

Check that you received all of the following parts.

Remote control



Batteries (2) (AA, R6, UM-3)



AM loop antenna



75-ohm/300-ohm antenna adapter (U.K. model only)



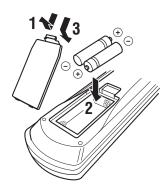
Indoor FM antenna (U.S.A., Canada, China, Asia and General models)



Indoor FM antenna (U.K., Europe, Australia and Korea models)



Installing batteries in the remote control



- 1 Take off the battery compartment cover.
- Insert the two supplied batteries (AA, R6, UM-3) according to the polarity markings (+ and –) on the inside of the battery compartment.
- 3 Snap the battery compartment cover back into place.

Notes

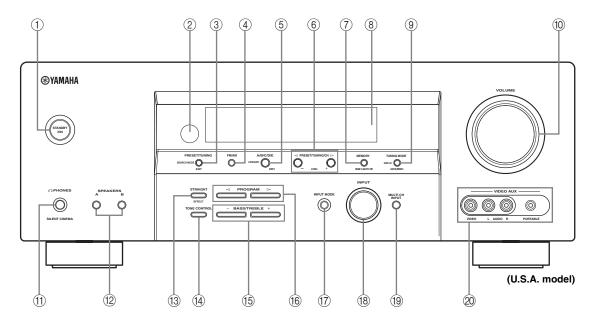
- Change all of the batteries if you notice the following conditions:
 - The operation range of the remote control decreases.
- The TRANSMIT indicator does not flash or its light becomes dim.
- Do not use an old battery together with a new one.
- Do not use different types of batteries (such as alkaline and manganese batteries) together. Read the packaging carefully as these different types of batteries may have the same shape and color.
- If the batteries have leaked, dispose of them immediately. Avoid touching the leaked material or letting it come into contact with clothing, etc. Clean the battery compartment thoroughly before installing new batteries.
- Do not throw away batteries with general house waste; dispose of them correctly in accordance with your local regulations.
- If the remote control is without batteries for more than 2 minutes, or if exhausted batteries remain in the remote control, the contents of the memory may be cleared. When the memory is cleared, insert new batteries, set up the remote control code and program any acquired functions that may have been cleared.

CONTROLS AND FUNCTIONS

Front panel

Note

The XM Satellite Radio controlling functions in the following buttons (SEARCH MODE, CATEGORY, PRESET/TUNING/CH </ri>
MEMORY, and DISPLAY) are only applicable to the U.S.A. model and are operational only when "XM" is selected as the input source.
For details, see "XM Satellite Radio controls and functions" on page 52.



1 STANDBY/ON

Turns on this unit or set it to the standby mode (see page 26).

Notes

- In the standby mode, this unit consumes a small amount of power in order to receive infrared signals from the remote control.
- When you turn on this unit, there will be a 4 to 5-second delay before this unit can reproduce sound.

2 Remote control sensor

Receives signals from the remote control (see page 8).

③ PRESET/TUNING, EDIT

- Switches the function of PRESET/TUNING/CH
 between selecting preset station numbers and selecting the tuning frequency.
- Edits the assignments of preset stations (see page 49).

(4) FM/AM

Switches the reception band between FM and AM when "TUNER" is selected as the input source (see page 44).

5 A/B/C/D/E, NEXT

- Selects one of the 5 preset station groups (A to E) when "TUNER" is selected as the input source (see page 44).
- Selects the speaker channel whose output level you want to adjust when "TUNER" is not selected as the input source (see page 35).

⑥ PRESET/TUNING/CH / ▷, LEVEL +/-buttons

- Selects one of the 8 preset station numbers (1 to 8) when "TUNER" is selected as the input source. The colon (:) is displayed in the front panel display (see page 48).
- Selects the tuning frequency when "TUNER" is selected as the input source. The colon (:) is not displayed in the front panel display (see page 45).
- Adjusts the level of the speaker channel selected using NEXT when "TUNER" is not selected as the input source (see page 35).

MEMORY (MAN'L/AUTO FM)

Stores a preset station in the memory. Hold down this button for more than 3 seconds to start automatic preset tuning (see page 46).

(8) Front panel display

Shows information about the operational status of this unit (see page 9).

9 TUNING MODE (AUTO/MAN'L)

Switches between automatic tuning (the AUTO indicator is turned on) and manual tuning (the AUTO indicator is turned off) (see page 44).

10 VOLUME

Controls the output level of all audio channels.

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This does not affect the AUDIO OUT (REC) level.

(f) PHONES (SILENT CINEMA) jack

Outputs audio signals for private listening with headphones (see page 32).

Notes

- When you connect headphones, no signals are output at the SUBWOOFER OUTPUT jack or the speaker terminals.
- All Dolby Digital and DTS audio signals are mixed down to the left and right headphone channels.

12 SPEAKERS A/B buttons

Turns on or off the set of front speakers connected to the A and/or B terminals on the rear panel each time the corresponding button is pressed.

(3) STRAIGHT (EFFECT)

Turns the sound field programs off or on. When "STRAIGHT" is selected, 2-channel or multi-channel input signals are output directly from their respective speakers without effect processing (see page 37).

(14) TONE CONTROL

Selects "BASS" or "TREBLE" to adjust the total balance of the front left and right speakers in conjunction with the BASS/TREBLE +/- buttons (see page 31).

15 BASS/TREBLE +/- buttons

Adjust the bass/treble balance of the front left and right speakers in conjunction with TONE CONTROL (see page 31).

Selects sound field programs (see page 62).

17 INPUT MODE

Selects either digital or analog input signals exclusively or sets this unit to automatically detect the type of input signals and select the corresponding input signals when one component is connected via both digital and analog connections (see page 33).

(18) INPUT selector

Selects the desired input source.

19 MULTI CH INPUT

Selects the input source connected to the MULTI CH INPUT jacks (see page 37).

Note

The input source connected to the MULTI CH INPUT jacks takes priority over the source selected with the INPUT selector on the front panel (or the input selector buttons on the remote control).

20 VIDEO AUX jacks

Input audio and video signals from a portable external source such as a game console, a video camera or a portable audio player (see page 22).

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To reproduce the source signals input at these jacks, select "V-AUX" as the input source.

Note

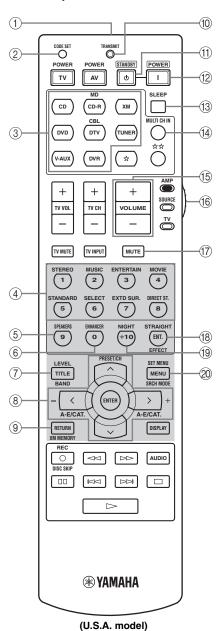
The audio signals input at the PORTABLE mini jack take priority over the ones input at the AUDIO L/R jacks.

Remote control

This section describes the function of each control on the remote control used to control this unit. To operate other components, see "REMOTE CONTROL FEATURES" on page 86.

Notes

- The XM Satellite Radio controlling functions in the following buttons (XM, XM MEMORY, SRCH MODE, DISPLAY, cursor buttons $\land / \lor / < / >$, numeric buttons and ENT.) are only applicable to the U.S.A. model and are operational only when "XM" is selected as the input source. For details, see "XM Satellite Radio controls and functions" on page 52.
- The operation mode of the remote control buttons in the shaded area below depends on the component selector switch position. Set the
 component selector switch to AMP to control this unit. To control the TUNER functions, set the component selector switch to
 SOURCE and then press TUNER to select the "TUNER" as the input source.



Controlling this unit

Set the component selector switch to AMP to control this unit.

1 Infrared window

Outputs infrared control signals. Aim this window at the component you want to operate (see page 8).

② CODE SET

Use to set up remote control codes (see page 88).

(3) Input selector buttons

Select the input source.

Note

The corresponding input selector button for the currently selected input source lights up for approximately 5 seconds after you press any buttons on the remote control, showing which source component is currently being operated.

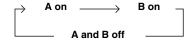
4 Sound field program selector buttons

Select sound field programs (see page 62).

- Use SELECT to play back 2-channel sources in surround (see page 41).
- Use EXTD SUR. to switch between 5.1 and 6.1channel playback of multi-channel sources (see page 40).
- Use DIRECT ST. to play back 2-channel sources in hi-fi stereo sound (see page 38).

5 SPEAKERS

Turns on or off the set of front speakers connected to the FRONT A and/or B terminals on the rear panel. Press this button repeatedly to toggle as follows:



6 ENHANCER

Turns on or off the Compressed Music Enhancer mode (see page 36).

⑦ LEVEL

Selects the speaker channel to be adjusted (see page 35).

8 Cursor buttons $\wedge / \vee / \langle / \rangle$, ENTER

Select and adjust the sound field program parameters or the "SET MENU" parameters.

9 RETURN

Returns to the previous menu level when adjusting the "SET MENU" parameters.

(10) TRANSMIT indicator

Flashes while the remote control is sending infrared signals.

(f) STANDBY

Sets this unit to the standby mode (see page 26).

12 POWER

Turns on this unit (see page 26).

(13) SLEEP

Sets the sleep timer (see page 34).

(14) MULTI CH IN

Selects the component connected to the MULTI CH INPUT jacks as the input source when using an external decoder, etc. (see page 37).

15 VOLUME +/-

Increases or decreases the volume level.

16 Component selector switch

Selects the operation mode of the remote control buttons in the shaded area.

AMP

Operates this unit.

SOURCE

Operates the component selected with an input selector button (see page 87).

ΓV

Operates the TV assigned to either DTV/CBL or \Leftrightarrow \$ (see page 86).

Notes

- To set the remote control codes for other components, see page 88.
- When you set the remote control codes for both DTV/CBL and ☆☆ (see page 87), priority is given to the one set for DTV/CBL.

(7) MUTE

Mutes the audio output. Press again to restore the audio output to the previous volume level (see page 32).

(8) STRAIGHT (EFFECT)

Turns the sound field programs off or on. When "STRAIGHT" is selected, 2-channel or multi-channel input signals are output directly from their respective speakers without effect processing (see page 37).

19 NIGHT

Turns on or off the night listening modes (see page 32).

20 SET MENU

Enters "SET MENU" (see page 76).

Controlling the TUNER functions

Set the component selector switch to SOURCE and then press TUNER to select "TUNER" as the input source.

(4) Numeric buttons

Use numbers 1 through 8 to select preset stations.

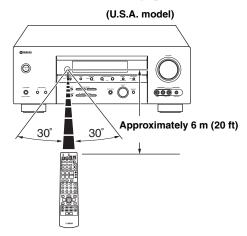
(7) BAND

Switches the reception band between FM and AM (see page 44).

Press A–ECAT. \langle / \rangle to select a preset station group (A to E) and PRESET/CH \wedge / \vee to select a preset station number (1 to 8) (see page 48).

Using the remote control

The remote control transmits a directional infrared ray. Be sure to aim the remote control directly at the remote control sensor on the main unit during operation.



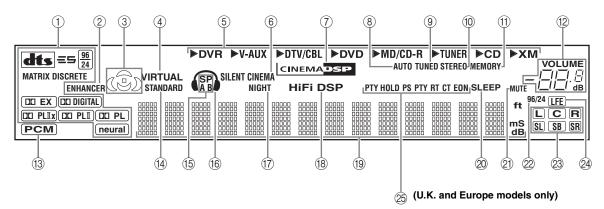
Notes

- Do not spill water or other liquids on the remote control.
- Do not drop the remote control.
- Do not leave or store the remote control in the following types of conditions:
- places of high humidity, such as near a bath
- places of high temperatures, such as near a heater or stove
- places of extremely low temperatures
- dusty places

Front panel display

Note

The XM is only applicable to the U.S.A. model and the cursor on the left of the XM indicator lights up only when "XM" is selected as the input source. For details, see "Basic XM Satellite Radio operations" on page 54.



Decoder indicators

The respective indicator lights up when any of the decoders of this unit function.

Note

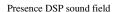
The neural indicator is only applicable to the U.S.A. and Canada models and lights up only when the Neural Surround decoder is selected (see pages 41).

② ENHANCER indicator

Lights up when the Compressed Music Enhancer mode is turned on (see page 36).

③ Sound field indicators

Light up to indicate the active DSP sound fields.





(4) VIRTUAL indicator

Lights up when Virtual CINEMA DSP is active (see page 42).

(5) Input source indicators

The corresponding cursor lights up to show the currently selected input source.

6 SILENT CINEMA indicator

Lights up when headphones are connected and a sound field program is selected (see page 32).

(7) CINEMA DSP indicator

Lights up when you select a CINEMA DSP sound field program (see page 63).

8 AUTO indicator

Lights up when this unit is in the automatic tuning mode (see page 44).

9 TUNED indicator

Lights up when this unit is tuned into a station (see page 44).

(1) STEREO indicator

Lights up when this unit is receiving a strong signal for an FM stereo broadcast while the AUTO indicator is lit (see page 44).

MEMORY indicator

Flashes to show that a station can be stored (see page 46).

12 VOLUME level indicator

Indicates the current volume level.

(3) PCM indicator

Lights up when this unit is reproducing PCM (Pulse Code Modulation) digital audio signals.

(4) STANDARD indicator

Lights up when the "SUR. STANDARD" or "SUR. ENHANCED" programs are selected (see page 41).

(5) SP A B indicators

Light up according to the set of front speakers selected.

CONTROLS AND FUNCTIONS

16 Headphones indicator

Lights up when headphones are connected (see page 32).

(7) NIGHT indicator

Lights up when you select a night listening mode (see page 32).

(8) HiFi DSP indicator

Lights up when you select a HiFi DSP sound field program (see page 63).

Multi-information display

Shows the name of the current sound field program and other information when adjusting or changing settings.

20 SLEEP indicator

Lights up while the sleep timer is on (see page 34).

21 MUTE indicator

Flashes while the MUTE function is on (see page 32).

22 96/24 indicator

Lights up when a DTS 96/24 signal is input to this unit.

② Input channel indicators

Indicate the channel components of the current digital input signal (see page 28).

24 LFE indicator

Lights up when the input signal contains the LFE signal.

Radio Data System indicators (U.K. and Europe models only)

Lights up when the Radio Data System data is being received.

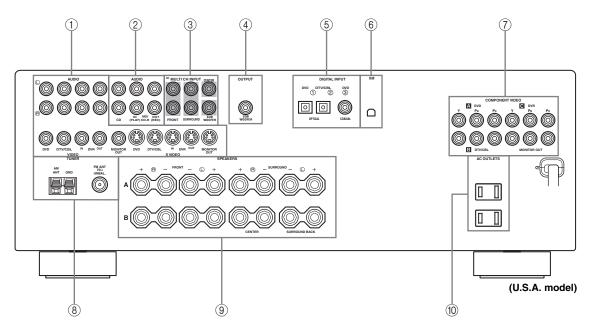
EON

Lights up when the EON data service is being received.

PTY HOLD

Lights up while searching for the Radio Data System stations in the PTY SEEK mode.

Rear panel



① Video component jacks

See pages 18 and 19 for connection information.

2 Audio component jacks

See page 21 for connection information.

③ MULTI CH INPUT jacks

See page 22 for connection information.

(4) SUBWOOFER OUTPUT jack

See page 14 for connection information.

5 DIGITAL INPUT jacks

See page 19 for connection information.

6 XM jack (U.S.A. model only)

See page 51 for connection information.

⑦ COMPONENT VIDEO jacks

See pages 18 and 19 for connection information.

(8) Antenna terminals

See page 23 for connection information.

9 Speaker terminals

See page 13 for connection information.

① AC OUTLET(S)

Use to supply power to your other audiovisual components.

See page 24 for details.

■ VOLTAGE SELECTOR (Asia and General models only)

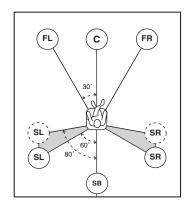
See page 24 for details.

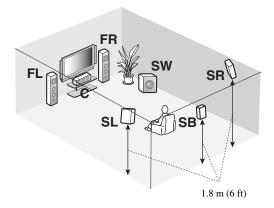
CONNECTIONS

Placing speakers

The speaker layout below shows the standard ITU-R* speaker setting. You can use it to enjoy CINEMA DSP and multi-channel audio sources.

* ITU-R is the radio communication sector of the ITU (International Telecommunication Union).





Front speakers (FL and FR)

The front speakers are used for the main source sound plus effect sounds. Place these speakers at an equal distance from the ideal listening position. The distance of each speaker from each side of the video monitor should be the same.

Center speaker (C)

The center speaker is for the center channel 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. Place the center speaker centrally between the front speakers and as close to the monitor as possible, such as directly over or under it.

Surround speakers (SL and SR)

The surround speakers are used for effect and surround sounds. Place these speakers behind your listening position, facing slightly inwards, about 1.8 m (6 ft) above the floor.

Surround back speaker (SB)

The surround back speaker supplements the surround speakers and provides more realistic front-to-back transitions. Place this speaker directly behind the listening position and at the same height as the surround speakers.

Subwoofer (SW)

The use of a subwoofer with a built-in amplifier, such as the YAMAHA Active Servo Processing Subwoofer System, is effective not only for reinforcing bass frequencies from any or all channels, but also for hi-fi stereo reproduction of the LFE (low-frequency effect) channel included in Dolby Digital and DTS sources. The position of the subwoofer is not so critical, because low bass sounds are not highly directional. But it is better to place the subwoofer near the front speakers. Turn it slightly toward the center of the room to reduce wall reflections.

Connecting speakers

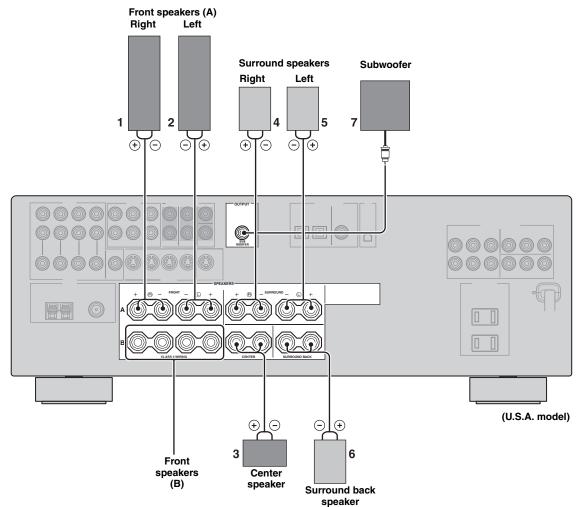
Be sure to connect the left channel (L), right channel (R), "+" (red) and "-" (black) properly. If the connections are faulty, no sound will be heard from the speakers, and if the polarity of the speaker connections is incorrect, the sound will be unnatural and lack bass.

CAUTION

- Before connecting the speakers, make sure that this unit is in the standby mode (see page 26).
- Do not let the bare speaker wires touch each other or do not let them touch any metal part of this unit. This could damage this unit and/or speakers.
- Use magnetically shielded speakers. If this type of speakers still creates the interference with the monitor, place the speakers away from the monitor.
- If you are to use 4 or 6 ohm speakers, be sure to set "SP IMP." to " 6Ω MIN" before using this unit (see page 25).

Notes

- A speaker cord is actually a pair of insulated cables running side by side. Cables are colored or shaped differently, perhaps with a stripe, groove or ridge. Connect the striped (grooved, etc.) cable to the "+" (red) terminals of this unit and your speaker. Connect the plain cable to the "-" (black) terminals.
- The low-frequency signals of other speakers set to "SML" (or "SMALL") or to "NONE" in "SPEAKER SET" (see pages 78 and 79) are directed to the speakers selected in "BASS OUT" (see page 79).



FRONT terminals

Connect one or two front speaker systems (1, 2) to these terminals. If you use only one front speaker system, connect it to the FRONT A or B terminal.

CENTER terminals

Connect a center speaker (3) to these terminals.

SURROUND terminals

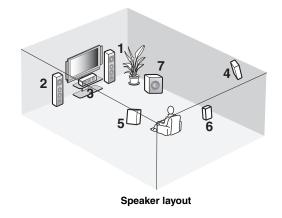
Connect surround speakers (4, 5) to these terminals.

SURROUND BACK terminals

Connect a surround back speaker (6) to these terminals.

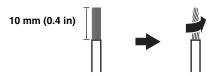
SUBWOOFER jack

Connect a subwoofer with a built-in amplifier (7) (such as the YAMAHA Active Servo Processing Subwoofer System) to this jack.

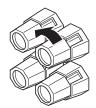


■ Connecting the speaker cable

1 Remove approximately 10 mm (0.4 in) of insulation from the end of each speaker cable and then twist the exposed wires of the cable together to prevent short circuits.

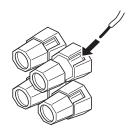


2 Loosen the knob.



Red: positive (+) Black: negative (-)

3 Insert one bare wire into the hole on the side of each terminal.



Red: positive (+) Black: negative (-)

4 Tighten the knob to secure the wire.



Red: positive (+) Black: negative (-)

■ Connecting the banana plug (except U.K., Europe and Asia models)

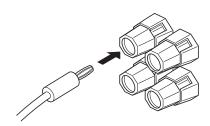
The banana plug is a single-pole electrical connector widely used to terminate speaker cables.



1 Tighten the knob.

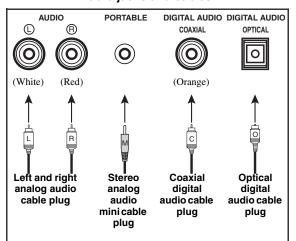


2 Insert the banana plug connector into the end of the corresponding terminal.



Information on jacks and cable plugs

Audio jacks and cables



Video jacks

VIDEO

(Yellow)

Composite

video cable

This unit has three types of video jacks. Connection depends on the availability of input jacks on your video monitor.

Video jacks and cables

(Green)

SVIDEO

S-video

cable plug

COMPONENT VIDEO

(Blue)

Component

video cable

(Red)

VIDEO jacks

For conventional composite video signals transmitted via composite video cables.

S VIDEO jacks

For S-video signals, separated into the luminance (Y) and chrominance (C) video signals transmitted on separate wires of S-video cables.

COMPONENT VIDEO jacks

For component video signals, separated into the luminance (Y) and chrominance (PB, PR) video signals transmitted on separate wires of component video cables.

■ Audio jacks

This unit has four types of audio jacks. Connection depends on the availability of audio jacks on your other components.

AUDIO jacks

For conventional analog audio signals transmitted via left and right analog audio cables. Connect red plugs to the right jacks and white plugs to the left jacks.

PORTABLE jack

For analog audio signals transmitted via stereo analog audio mini cables.

DIGITAL AUDIO COAXIAL jacks

For digital audio signals transmitted via coaxial digital audio cables.

DIGITAL AUDIO OPTICAL jacks

For digital audio signals transmitted via optical digital audio cables.

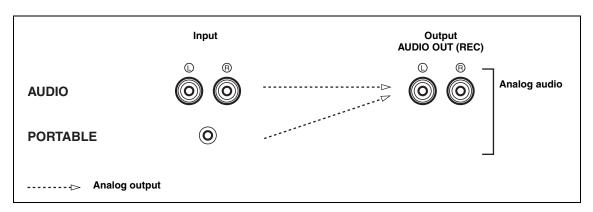
Notes

- You can use the digital jacks to input PCM, Dolby Digital and DTS bitstreams. When you connect components to both the COAXIAL and OPTICAL jacks, priority is given to the signals input at the COAXIAL jack. All digital input jacks are compatible with 96-kHz sampling digital signals.
- Pull out the cap from the optical jack before you connect the fiber optic cable. Do not discard the cap. When you are not using the optical jack, be sure to put the cap back in place. This cap protects the jack from dust.



Audio and video signal flow

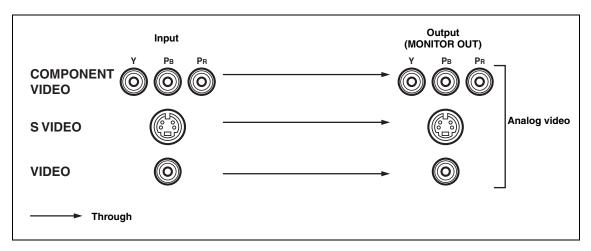
■ Audio signal flow for AUDIO OUT (REC)



Note

This unit handles digital and analog signals independently. Thus, audio signals input at the analog jacks are output only at the analog AUDIO OUT (REC) jacks.

■ Video signal flow for MONITOR OUT

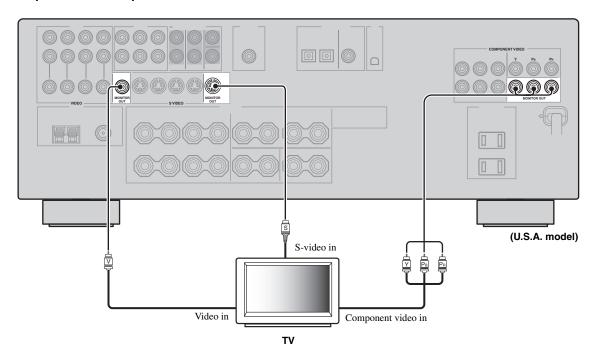


Connecting a TV

Connect your TV to the VIDEO MONITOR OUT jack, the S VIDEO MONITOR OUT jack or the COMPONENT VIDEO MONITOR OUT jacks of this unit.

CAUTION

Do not connect this unit or other components to the AC power supply until all connections between components are complete.



Connecting a DVD player, a DVD recorder, a VCR or an STB

Connect your DVD player, DVD player, VCR or STB (set-top box) using the same type of video connections as those made for your TV (see page 18). The cable TV receiver and the satellite receiver are examples of the STB.

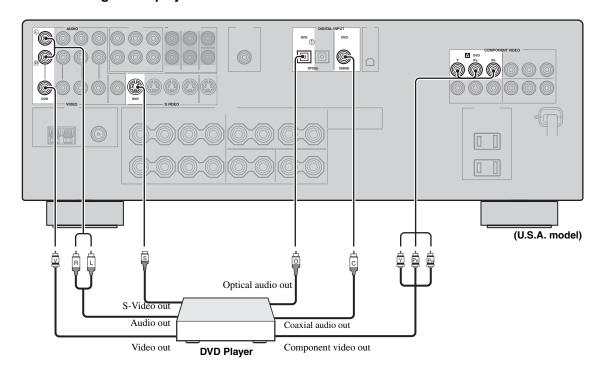
CAUTION

Do not connect this unit or other components to the AC power supply until all connections between components are complete.

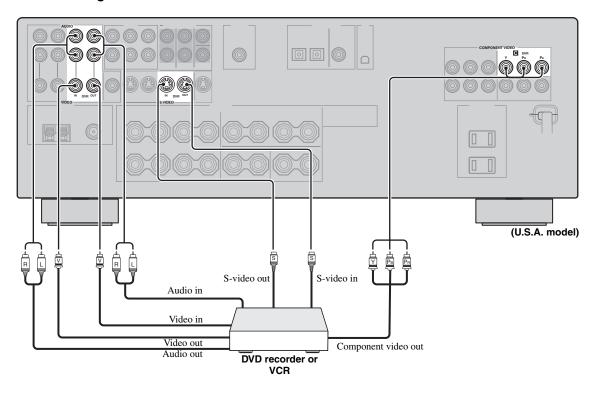
Notes

- Be sure to make the same type of video connections as those made for your TV (see page 18). For example, if you connected your TV to the VIDEO MONITOR OUT jack of this unit, connect your other components to the VIDEO jacks.
- To make a digital connection to a component other than the default component assigned to each DIGITAL INPUT jack, select the corresponding setting for "OPTICAL IN", or "COAXIAL IN" in "INPUT ASSIGN" (see page 81).
- If you connect your DVD player to both the DIGITAL INPUT (OPTICAL) and the DIGITAL INPUT (COAXIAL) jacks, priority is given to the signals input at the DIGITAL INPUT (COAXIAL) jack

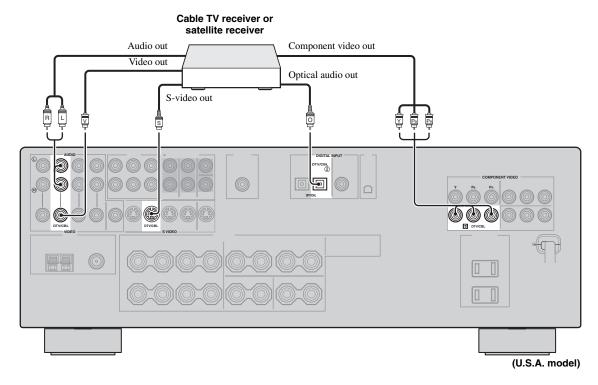
Connecting a DVD player



■ Connecting a DVD recorder or a VCR



■ Connecting an STB



Connecting a CD player, an MD player or a tape deck

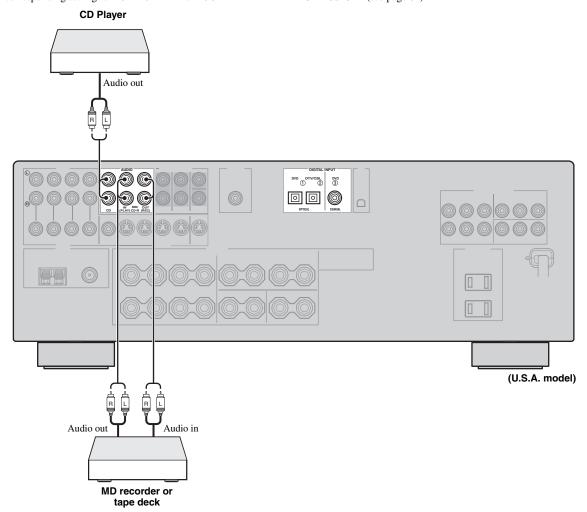
Connect your CD player, MD player or tape deck via analog connection.

CAUTION

Do not connect this unit or other components to the AC power supply until all connections between components are complete.

Note

To make a digital connection to a component other than the default component assigned to each DIGITAL INPUT jack, select the corresponding setting for "OPTICAL IN" or "COAXIAL IN" in "INPUT ASSIGN" (see page 81).



Connecting a multi-format player or an external decoder

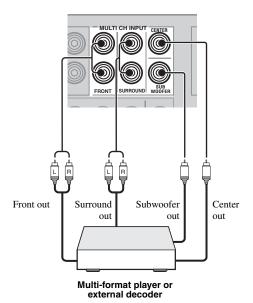
This unit is equipped with 6 additional input jacks (FRONT L/R, CENTER, SURROUND L/R and SUBWOOFER) for discrete multi-channel input from a multi-format player, external decoder, sound processor or pre-amplifier. Connect the output jacks on your multi-format player or external decoder to the MULTI CH INPUT jacks. Be sure to match the left and right output jacks to the left and right input jacks for the front and surround channels.

CAUTION

Do not connect this unit or other components to the AC power supply until all connections between components are complete.

Notes

- When you select the component connected to the MULTI CH INPUT jacks as the input source (see page 37), this unit automatically turns off the digital sound field processor, and you cannot select sound field programs.
- This unit does not redirect signals input at the MULTI CH INPUT jacks to accommodate for missing speakers. We recommend that you connect at least a 5.1-channel speaker system before using this feature.
- When headphones are used, signals are output only from the front left and right channels.



Connecting a game console, a video camera or a portable audio player

Use the VIDEO AUX jacks on the front panel to connect a game console, a video camera or a portable audio player to this unit

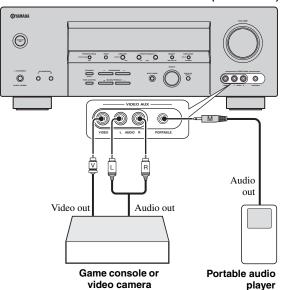
CAUTION

Be sure to turn off the volume of this unit and other components before making connections.

Note

The audio signals input at the PORTABLE mini jack take priority over the ones input at the AUDIO L/R jacks.

(U.S.A. model)



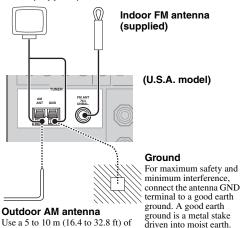
Connecting the FM and AM antennas

Both FM and AM indoor antennas are supplied with this unit. In general, these antennas should provide sufficient signal strength. Connect each antenna correctly to designated terminals.

Notes

- Be sure to set the tuner frequency step (Asia and General models only) according to the frequency spacing in your area (see page 85).
- The AM loop antenna should be placed away from this unit.
- The AM loop antenna should always be connected, even if an outdoor AM antenna is connected to this unit.
- · A properly installed outdoor antenna provides clearer reception than an indoor one. If you experience poor reception quality, install an outdoor antenna. Consult the nearest authorized YAMAHA dealer or service center about outdoor antennas.

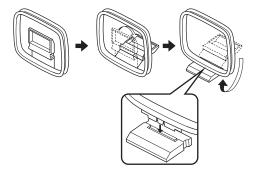
AM loop antenna (supplied)



Use a 5 to 10 m (16.4 to 32.8 ft) of vinyl-covered wire extended outdoors from a window.

Connecting the AM loop antenna

1 Set up the AM loop antenna.



2 Press and hold the tab of the AM ANT terminal.



Insert one of the AM loop antenna lead wires into the AM ANT terminal.



Release the tab of the AM ANT terminal back into place.



Repeat steps 2 through 4 to connect the other lead wire to the GND terminal.

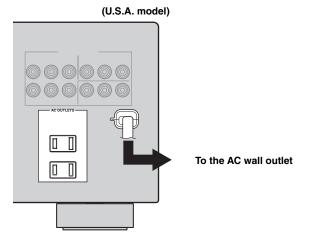


Once you have properly connected the AM loop antenna to this unit, orient the AM loop antenna for the best reception when you tune into AM stations (see page 44).



Connecting the power cable

Once all connections are complete, plug the power cable into the AC wall outlet.



CAUTION

VOLTAGE SELECTOR

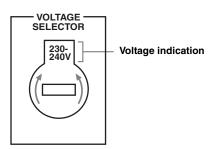
(Asia and General models only)

The VOLTAGE SELECTOR on the rear panel of this unit must be set for your local voltage BEFORE plugging the power cable into the AC wall outlet. Improper setting of the VOLTAGE SELECTOR may cause damage to this unit and create a potential fire hazard.

Rotate the VOLTAGE SELECTOR clockwise or counterclockwise to the correct position using a straight slot screwdriver.

Voltages are as follows:

Asia model220/230–240 V AC, 50/60 Hz General model110/120/220/230–240 V AC, 50/60 Hz



AC OUTLET(S) (SWITCHED)

U.K. and Australia models	1 outlet
Korea model	None
Other models	2 outlets

Use these outlet(s) to supply power to any connected components. Connect the power cable of your other components to these outlet(s). Power to these outlet(s) is supplied when this unit is turned on. However, power to these outlet(s) is cut off when this unit is in the standby mode or the power cable of this unit is disconnected from the AC wall outlet. For information on the maximum power or the total power consumption of the components that can be connected to these outlet(s), see "SPECIFICATIONS" on page 100.

Memory back-up

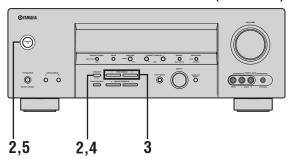
The memory back-up circuit prevents the stored data from being lost even if this unit is in the standby mode. However, the stored data will be lost in case the power cable is disconnected from the AC wall outlet or if the power supply is cut off for more than one week.

Setting the speaker impedance

CAUTION

If you are to use 4 or 6 ohm speakers, set "SP IMP." to " 6Ω MIN" as follows BEFORE using this unit.

(U.S.A. model)



Make sure this unit is set to the standby mode.

See page 26 for details about turning on this unit or standby mode.

2 Press and hold STRAIGHT (EFFECT) on the front panel and then press STANDBY/ON to turn on this unit.

This unit turns on, and the advanced setup menu appears in the front panel display.

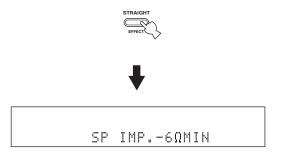


The following display appears in the front panel display.



4 Press STRAIGHT (EFFECT) on the front panel repeatedly to select "6ΩMIN".

The following display appears in the front panel display.



Press STANDBY/ON on the front panel to save the new setting and set this unit to the standby mode.

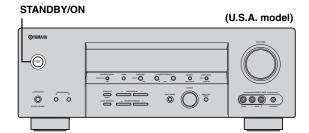


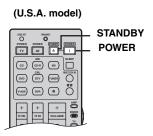
Note

The setting you made is reflected next time you turn on this unit.

Turning on this unit or setting it to the standby mode

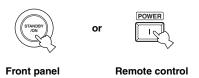
When all connections are complete, turn on this unit.





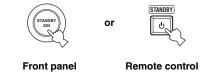
Turning on the power

Press STANDBY/ON on the front panel (or POWER on the remote control) to turn on this unit.



Setting this unit to the standby mode

Press STANDBY/ON on the front panel again (or STANDBY on the remote control) to set this unit to the standby mode.

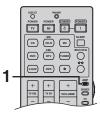


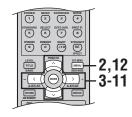
BASIC SETUP

The "BASIC SETUP" feature is a useful way to set up your system quickly and with minimal effort.

Notes

- · Make sure you disconnect your headphones from this unit.
- If you wish to configure this unit manually using more precise adjustments, use the detailed parameters in "SOUND MENU" (see page 78).
- Altering any parameters in "BASIC SETUP" resets all parameters manually adjusted in "SOUND MENU" (see page 78).
- Initial settings are indicated in bold under each parameter.
- Press RETURN on the remote control to return to the previous menu level.





(U.S.A. model)

1 Set the component selector switch to AMP.



2 Press SET MENU.

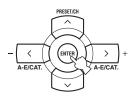
"BASIC SETUP" appears in the front panel display.





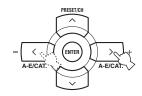
BASIC SETUP

3 Press ENTER to enter "BASIC SETUP".



The "ROOM" appears in the front panel display.

4 Press </> /> to select the desired setting.



ROOM: S >M L

Select the size of the room where you have installed your speakers. In general, the room sizes are defined as follows:

Choices: S. M. L

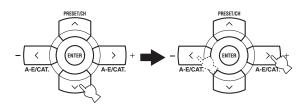
[U.S.A. and Canada models]

S (small) 16 x 13ft, 200ft² (4.8 x 4.0m, 20m²) M (medium) 20 x 16ft, 300ft² (6.3 x 5.0m, 30m²) L (large) 26 x 19ft, 450ft² (7.9 x 5.8m, 45m²)

[Other models]

S (small) 3.6 x 2.8m, 10m² M (medium) 4.8 x 4.0m, 20m² L (large) 6.3 x 5.0m, 30m²

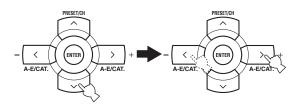
5 Press ∨ to select "SUBWOOFER" and then <//> </> ⟨/⟩ to select the desired setting.



SUBWOOFER · · YES

Choices: YES, NONE

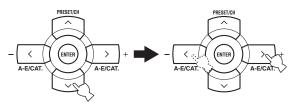
- Select "YES" if you have a subwoofer in your system.
- Select "NONE" if you do not have a subwoofer in your system.



SPEAKERS . . 6spk

Choice	Display	Speakers
2spk	L R	Front L/R
3spk	LCR	Front L/R, Center
4spk	L R SL SR	Front L/R, Surround L/R
5spk	L C R SL SR	Front L/R, Center, Surround L/R
6spk	L C R SL SB SR	Front L/R, Center, Surround L/R, Surround back

7 Press ∨ once and then ⟨/⟩ to select the desired setting.



>SET CANCEL

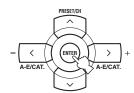
Choices: SET, CANCEL

- Select "SET" to apply the settings you made.
- Select "CANCEL" to cancel the setup procedure without making any changes.

`\oʻ:

You can also press SET MENU to cancel the setup procedure.

8 Press ENTER to confirm your selection.

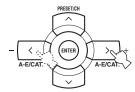


If you selected "SET" in step 7, each speaker outputs a test tone twice in turn. "CHECK:TestTone" appears in the front panel display for a few seconds and then "CHECK OK?" appears in the front panel display.

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Check the speaker connections (see page 13) and adjust the "SPEAKERS" settings back in step 6, if necessary.

9 Press \langle / \rangle to select the desired setting.

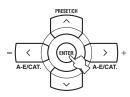


CHECK OK? . . YES

Choices: YES, NO

- Select "YES" to complete the setup procedure if the test tone levels from each speaker were satisfactory.
- Select "NO" to proceed to the speaker level adjustment menu to balance the output level of each speaker.

10 Press ENTER to confirm your selection.

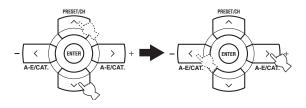


- If you selected "YES" in step 9, the setup procedure is completed and the display returns to the top "SET MENU" display.
- If you selected "NO" in step 9, the front speaker level adjustment display appears in the front panel display.

11 Press \checkmark / \land to select a speaker and then < / > to adjust the balance.

The selected speaker and the front left speaker or the surround left speaker output a test tone in turn.

- Press > to increase the value.
- Press < to decrease the value.



FR ----II----

- Select "FR" to adjust the balance between the front left and right speakers.
- Select "C" to adjust the balance between the front left and center speakers.
- Select "SL" to adjust the balance between the front left and surround left speakers.
- Select "SB" to adjust the balance between the surround left and surround back speakers.
- Select "SR" to adjust the balance between the surround left and surround right speakers.
- Select "SWFR" to adjust the balance between the front left speaker and the subwoofer.

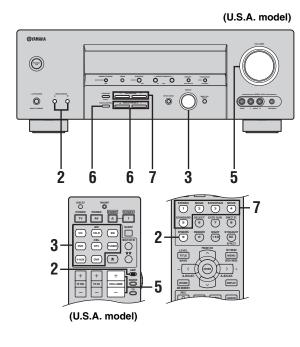
12 Press SET MENU to exit from "BASIC SETUP".



PLAYBACK

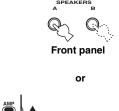
CAUTION

Extreme caution should be exercised when you play back CDs encoded in DTS. If you play back a CD encoded in DTS on a DTS-incompatible CD player, you will only hear some unwanted noise that may damage your speakers. Check whether your CD player supports CDs encoded in DTS. Also, check the sound output level of your CD player before you play back a CD encoded in DTS.



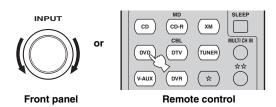
- 1 Turn on the video monitor connected to this unit.
- 2 Press SPEAKERS A or B on the front panel (or set the component selector switch to AMP and then press SPEAKERS on the remote control repeatedly).

Each time you press SPEAKERS A or B on the front panel, the respective speakers are turned on or off.

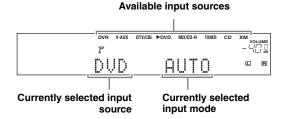




3 Rotate the INPUT selector on the front panel (or press one of the input selector buttons on the remote control) to select the desired input source.



The name of the currently selected input source appears in the front panel display for a few seconds.



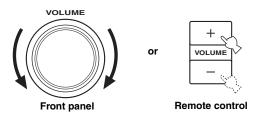
Notes

- If you are to select an input source connected via digital connections, set "INPUT MODE" to "AUTO" or "DTS" (see page 33).
- For details about controlling XM Satellite Radio when "XM" is selected as the input source, see page 54.
- 4 Start playback on the selected source component or select a broadcast station.

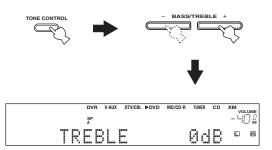
Refer to the operating instructions for the source component.

See page 44 for details about tuning instructions.

5 Rotate VOLUME on the front panel (or press VOLUME +/- on the remote control) to adjust the volume to the desired output level.



Press TONE CONTROL on the front panel repeatedly to select "TREBLE" or "BASS" and then press BASS/TREBLE +/- buttons to adjust the corresponding frequency response level.



- Select "TREBLE" to adjust the high-frequency response
- Select "BASS" to adjust the low-frequency response.

Notes

- Speaker and headphone adjustments are stored independently.
- When "TC.BYPASS" is set to "AUTO" (see page 81), and "BASS" and "TREBLE" are set to 0 dB, audio output automatically bypasses the tone control circuitry of this unit.
- If you increase or decrease the high-frequency or lowfrequency sound to an extreme level, the tonal quality of the surround speakers may not match that of the front left and right speakers.
- TONE CONTROL is not effective when the "DIRECT STEREO" mode (see page 38) is selected or when "MULTI CH INPUT" (see page 37) is selected as the input source.
- To enjoy multi-channel sources in surround, see page 40 for details.

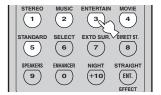
Press PROGRAM
/ > buttons on the front panel (or press one of the sound field program selector buttons on the remote control repeatedly) to select the desired sound field program.

The name of the selected sound field program appears in the front panel display.

See page 63 for details about sound field programs.



or



Remote control



Currently selected surround field program

Notes

- Choose a sound field program based on your listening preference, not merely on the name of the program.
- When you select an input source, this unit automatically selects the last sound field program used with the corresponding input source.
- Sound field programs cannot be selected when the component connected to the MULTI CH INPUT jacks is selected as the input source (see page 37).
- Sampling frequencies higher than 48 kHz (except for DTS 96/24 signals) are sampled down to 48 kHz and then sound field programs are applied.
- To display information about the currently selected input source in the front panel display, see page 38 for details.

USING OTHER FEATURES

Using SILENT CINEMA

SILENT CINEMA allows you to enjoy multi-channel music or movie sound, including Dolby Digital and DTS sources, through ordinary headphones. SILENT CINEMA activates automatically whenever you connect headphones to the PHONES jack while listening to CINEMA DSP or HiFi DSP sound field programs (see page 63). When activated, the SILENT CINEMA indicator lights up in the front panel display.

Notes

- SILENT CINEMA does not activate when "MULTI CH INPUT" is selected as the input source (see page 37).
- SILENT CINEMA is not effective when the "DIRECT STEREO" (see page 38) or "2ch Stereo" mode (see page 37) is selected, or when this unit is in the "STRAIGHT" mode (see page 37).

Muting the audio output

Press MUTE on the remote control to mute the audio output. Press MUTE again to resume the audio output.



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- You can also rotate VOLUME on the front panel or VOLUME +/- on the remote control to resume the audio output.
- You can adjust the muting level by using the "MUTING TYP." parameter in "SOUND MENU" (see page 81).
- The MUTE indicator flashes in the front panel display when the audio output is muted and disappears from the front panel display when the audio output is resumed.

Note

If you change the input source or the sound field program while the audio output is being muted, this unit resumes the audio output.

Selecting the night listening mode

The night listening modes are designed to improve listenability at lower volumes or at night. Choose either "NIGHT:CINEMA" or "NIGHT:MUSIC" depending on the type of material you are playing.

1 Set the component selector switch to AMP and then press NIGHT on the remote control repeatedly to select "NIGHT:CINEMA" or "NIGHT:MUSIC".



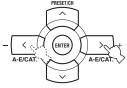
Choices: NIGHT:CINEMA, NIGHT:MUSIC, OFF

- Select "NIGHT:CINEMA" when watching films to reduce the dynamic range of film soundtracks and make dialog easier to hear at lower volumes.
- Select "NIGHT:MUSIC" when listening to music sources to preserve ease-of-listening for all sounds.
- Select "OFF" if you do not want to use this feature.

`\\

When a night listening mode is selected, the NIGHT indicator lights up in the front panel display.

Press </>
/> on the remote control to adjust the effect level while "NIGHT:CINEMA" or "NIGHT:MUSIC" is displayed in the front panel display.



Remote control



Choices: MIN, MID, MAX

- Select "MIN" for minimum compression.
- · Select "MID" for standard compression.
- · Select "MAX" for maximum compression.



"NIGHT:CINEMA" and "NIGHT:MUSIC" adjustments are stored independently.

Notes

- You cannot use the night listening modes when the "DIRECT STEREO" program (see page 38) is selected or when the component connected to the MULTI CH INPUT jacks is selected as the input source (see page 37) even though the NIGHT indicator lights up when "DIRECT STEREO" is selected.
- The night listening modes may vary in effectiveness depending on the input source and surround sound settings you use.

Selecting the input mode

This unit comes with a variety of input jacks. Do the following to select the type of input signals you want to use.

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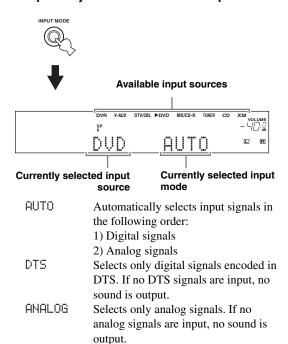
You can adjust the default input mode of this unit by using the "INPUT MODE" parameter in "INPUT MENU" (see page 82).

Notes

- To play DTS-encoded DVDs and CDs, (when using a digital audio connection, be sure to set "INPUT MODE" to "DTS".
- If the digital output data of the player has been processed in any way, you may not be able to perform DTS decoding depending on the player even if you make a digital connection between this unit and the player.
- 1 Rotate the INPUT selector on the front panel to select the desired input source.



2 Press INPUT MODE on the front panel repeatedly to select the desired input mode.



Notes

- When "INPUT MODE" is set to "AUTO", this unit automatically switches to the appropriate decoder if a Dolby Digital or DTS signal is detected.
- We recommend setting "INPUT MODE" to "AUTO" in most cases.

Using the sleep timer

Use this feature to automatically set this unit to the standby mode after a certain amount of time. The sleep timer is useful when you are going to sleep while this unit is playing or recording a source. The sleep timer also automatically turns off any external components connected to AC OUTLET(S) (see page 24).

1 Press one of the input selector buttons on the remote control to select the desired input source.



2 Start playback on the selected source component or select a broadcast station.

Refer to the operating instructions for the source component.

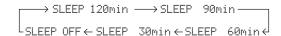
See page 44 for details about tuning instructions.

3 Press SLEEP on the remote control repeatedly to set the amount of time.

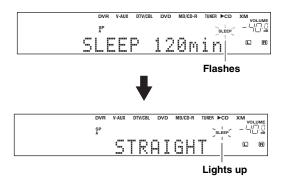
Each time you press SLEEP, the front panel display changes as shown below.







The SLEEP indicator flashes while you are switching the amount of time for the sleep timer. Once the sleep timer is set, the SLEEP indicator lights up in the front panel display, and the display returns to the selected sound field program.



4 To cancel the sleep timer, press SLEEP on the remote control repeatedly until "SLEEP OFF" appears in the front panel display.



The SLEEP indicator turns off, and "SLEEP OFF" disappears from the front panel display after a few seconds.

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The sleep timer setting can also be canceled by pressing STANDBY on the remote control (or STANDBY/ON on the front panel) to set this unit to the standby mode.

Adjusting the speaker level

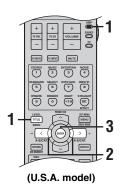
You can adjust the output level of each speaker while listening to a music source. This is also possible when playing sources input at the MULTI CH INPUT jacks.

Note

This operation will override the level adjustments made in "BASIC SETUP" (see page 27) and "SP LEVEL" (see page 79).

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This operation can also be performed using the control buttons on the front panel. Press NEXT on the front panel repeatedly to select the speaker channel whose output level you want to adjust and then press LEVEL +/- on the front panel to adjust the output level.



1 Set the component selector switch to AMP and then press LEVEL on the remote control repeatedly to select the speaker you want to adjust.



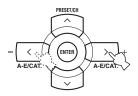
- Select "FRONT L" to adjust the front left speaker output level.
- Select "CENTER" to adjust the center speaker output level.
- Select "FRONT R" to adjust the front right speaker output level.
- Select "SUR. R" to adjust the surround right speaker output level.
- Select "SUR. B" to adjust the surround back speaker output level.
- Select "SUR. L" to adjust the surround left speaker output level.
- Select "SWFR" to adjust the subwoofer output level.

`\<u>\</u>'

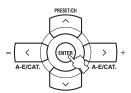
Once you press LEVEL on the remote control, you can also select the speaker by pressing \wedge / \vee .

- 2 Press </>
 /> on the remote control to adjust the speaker output level.
 - Press > to increase the value.
 - Press < to decrease the value.

Control range: -10 dB to +10 dB



3 Press ENTER on the remote control when you have completed your adjustment.



Selecting the Compressed Music Enhancer mode

Compression artifacts (such as the MP3 format) are created by a lossy compression scheme where the audio is resampled to lower the bitrate and to remove sounds that are indistinguishable to typical human hearing. The Compressed Music Enhancer feature of this unit enhances your listening experience by regenerating the missing harmonics in a compression artifact. As a result, flattened complexity due to the loss of high-frequency fidelity as well as lack of bass due to the loss of low-frequency bass is compensated, providing the improved performance of the overall sound system.

Notes

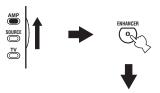
- The Compressed Music Enhancer mode is compatible with the PCM signals (32 kHz, 44.1 kHz and 48 kHz) and the analog 2-channel input sources.
- The Compressed Music Enhancer mode is not effective with any of the sound field programs.
- When the Compressed Music Enhancer mode is turned on while an incompatible input source is being played back, "Not Available" appears in the front panel display.
- When the input source is changed to an incompatible input source while the Compressed Music Enhancer mode is turned on, the Compressed Music Enhancer mode is automatically turned off and the incompatible input source is played back in 2-channel or 6-channel stereo.

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The ENHANCER indicator lights up in the front panel display when one of the Compressed Music Enhancer modes is selected.

1 Set the component selector switch and then press ENHANCER on the remote control repeatedly to select the desired Compressed Music Enhancer mode.

The following display is shown in the front panel display and the ENHANCER indicator lights up in the front panel display.



Lights up



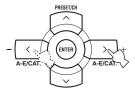
Choices: 2ch Stereo, 6ch Stereo, Off

- Select "2ch Stereo" to play back compression artifacts in 2-channel stereo.
- Select "6ch Stereo" to play back compression artifacts in 6-channel stereo.
- Select "Off" to turn off the Compressed Music Enhancer mode.

Note

When you select "Off", this unit returns to the previously selected sound field program.

2 Press </> /> on the remote control to select the desired effect level.



Choices: HIGH, LOW

- Select "HIGH" for a high effect level.
- Select "LOW" for a low effect level.

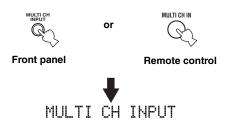
Note

Set the effect level to "HIGH" or "LOW" according to the characteristics of a source. The high-frequency signals of some sources may be emphasized too much. In this case, se the effect level to "LOW".

Selecting the MULTI CH INPUT component

Use this feature to select the component connected to the MULTI CH INPUT jacks (see page 22) as the input source.

Press MULTI CH INPUT on the front panel (or MULTI CH IN on the remote control) so that "MULTI CH INPUT" appears in the front panel display.



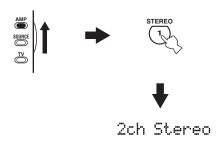
Note

When "MULTI CH INPUT" is shown in the front panel display, no other source can be played. To select another input source with the INPUT selector on the front panel (or one of the input selector buttons), press MULTI CH INPUT (or MULTI CH IN on the remote control) so that "MULTI CH INPUT" disappears from the front panel display.

Enjoying multi-channel sources in 2-channel stereo

You can mix down multi-channel sources to 2 channels and enjoy playback in 2-channel stereo.

Set the component selector switch to AMP and then press STEREO on the remote control repeatedly to select "2ch Stereo".



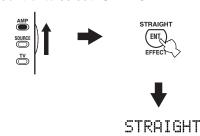
`\<u>\</u>':

- You can use a subwoofer with this program when "BASS OUT" is set to "SWFR" or "BOTH" (see page 79).

Enjoying unprocessed input sources

When this unit is in the "STRAIGHT" mode, 2-channel stereo sources are output from only the front left and right speakers. Multi-channel sources are decoded straight into the appropriate channels without any additional effect processing.

1 Set the component selector switch to AMP and then press STRAIGHT on the remote control to select "STRAIGHT".



To deactivate the "STRAIGHT" mode, press STRAIGHT on the remote control again so that "STRAIGHT" disappears from the front panel display.

The sound effect is turned back on.

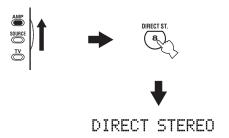
`\o':

You can also select "STRAIGHT" by pressing STRAIGHT (EFFECT) on the front panel.

Enjoying pure hi-fi stereo sound

The "DIRECT STEREO" mode allows sources to bypass the decoders and DSP processors of this unit so that you can enjoy pure hi-fi sound from 2-channel PCM and analog sources.

Set the component selector switch to AMP and then press DIRECT ST. on the remote control to select "DIRECT STEREO".



Notes

- To avoid unexpected noise, do not play CDs encoded in DTS when the "DIRECT STEREO" mode is selected.
- When multi-channel signals (Dolby Digital and DTS) are input, this unit automatically switches to the corresponding analog input. When "DTS" is selected as the input mode (see page 33), no sound will be output.
- No sound will be output from the subwoofer.
- "TONE CONTROL" (see page 31) and "SOUND MENU" (see page 78) settings (except for speaker level settings) are not effective.
- The front panel display automatically dims.

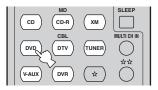
`\o':

You can also select the "DIRECT STEREO" mode by pressing the PROGRAM \triangleleft / \triangleright buttons on the front panel repeatedly.

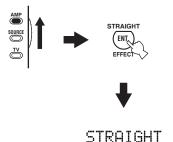
Displaying the input source information

You can display the format, sampling frequency, channel, bit rate, and flag data of the current input signal.

1 Press one of the input selector buttons to select the desired input source.



2 Set the component selector switch to AMP and then press STRAIGHT on the remote control to select "STRAIGHT".



Press \wedge / \vee to display the information about the input signal.



The following information appears in the front panel display for a few seconds.

Signal format

Signal format display. When this unit cannot detect a digital signal, it automatically switches to analog input.

Display status: Analog, Digital, Dolby Digital, DTS, PCM, Unknown Digital

Note

"Unknown Digital" appears when this unit detects any undecodable digital signals.

Channel in:

The number of source channels in the input signal (front/surround/LFE). For example, a multi-channel soundtrack with 3 front channels, 2 surround channels and LFE, is displayed as "3/2/LFE".

Sampling frequency fs:

The number of samples per second taken from a continuous signal to make a discrete signal. Display status: 32kHz, 44.1kHz, 48kHz, 64kHz, 88.2kHz, 96kHz

Bit rate nate:

The number of bits passing a given point per second.

Flag flg:

Flag data encoded in DTS, Dolby Digital, or PCM signals that cue this unit to automatically switch decoders.

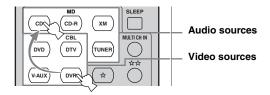


When you are displaying information about the input source, this unit is in the "STRAIGHT" mode (see page 37). To turn back the sound effect on, press "STRAIGHT" again.

Playing video sources in the background

You can combine a video image from a video source with sound from an audio source. For example, you can enjoy listening to classical music while viewing beautiful scenery from the video source on the video monitor.

Press the input selector buttons on the remote control to select a video source and then an audio source.



Note

If you want to enjoy an audio source input at the MULTI CH INPUT jacks together with a video source, first select the video source and then press MULTI CH INPUT on the front panel (or MULTI CH IN on the remote control) to select "MULTI CH INPUT" as the input source (see page 37).

ENJOYING SURROUND SOUND

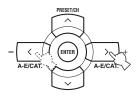
Enjoying multi-channel sources in surround

If you connected a surround back speaker, use this feature to enjoy 6.1-channel playback for multi-channel sources using the Dolby Pro Logic IIx, Dolby Digital EX or DTS-ES decoders.

1 Set the component selector switch to AMP and then press EXTD SUR. on the remote control repeatedly to switch between 5.1 and 6.1-channel playback.



Press
/> repeatedly to select a decoder while "PLIIxMusic" (etc.) is displayed.



Auto AUTO

When a signal flag that can be recognized by this unit is input, this unit selects the optimum decoder to play back the signal in 6.1 channels.

If this unit cannot recognize the flag or no flag is present in the input signal, it cannot automatically be played in 6.1 channels.

Decoders

You can select from the following decoders depending on the format of the source you are playing.

Decoder	Functions
PLIIxMusic	Plays back Dolby Digital or DTS signals in 6.1 channels using the Pro Logic IIx music decoder.
EX/ES	Plays back Dolby Digital or DTS signals in 6.1 channels using the Dolby Digital EX or DTS-ES decoder.
EX	Plays back Dolby Digital or DTS signals in 6.1 channels using the Dolby Digital EX decoder.

Off OFF

Decoders are not used to create 6.1 channels.

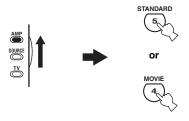
Notes

- Some 6.1-channel compatible discs do not have a signal flag that can be automatically detected by this unit. When playing these kinds of discs in 6.1 channels, select a decoder manually from "PLIIX Music", "EX/ES" or "EX".
- 6.1-channel playback is not possible even if you press EXTD SUR. in the following cases:
 - When "SUR. LR" (see page 78) or "SUR. B" (see page 78) is set to "NONE".
- When the source connected to the MULTI CH INPUT jacks is being played.
- When the source being played does not contain surround left and right channel signals.
- When a Dolby Digital KARAOKE source is being played.
- When "2ch Stereo" (see page 37) or "DIRECT STEREO" (see page 38) program is selected.
- When this unit is turned off, this setting will be reset to "AUTO".
- The Pro Logic IIx decoder is not available when "SUR. B" is set to "NONE" (see page 78).

Enjoying 2-channel sources in surround

Signals input from 2-channel sources can also be played back on multi-channels.

1 Set the component selector switch to AMP and then press STANDARD on the remote control repeatedly to switch between the "SUR. STANDARD" and "SUR. ENHANCED" programs or press MOVIE to select the "MOVIE THEATER" programs.



2 Press SELECT on the remote control repeatedly to select the desired decoder.



You can select from the following modes depending on the type of source you are playing and your personal preference.

`\<u>\</u>'

You can also select a decoder by pressing $\langle \cdot \rangle$ on the remote control while the decoder type is displayed in the front panel display.

SUR. STANDARD	Functions
PRO LOGIC	Dolby Pro Logic processing for any sources
PLII Movie	Dolby Pro Logic II processing for movie sources
PLII Music	Dolby Pro Logic II processing for music sources
PLII Game	Dolby Pro Logic II processing for game sources
PLIIx Movie	Dolby Pro Logic IIx processing for movie sources
PLII× Music	Dolby Pro Logic IIx processing for music sources
PLII× Game	Dolby Pro Logic IIx processing for game sources
Neo:6 Cinema	DTS processing for movie sources
Neo:6 Music	DTS processing for music sources
Neural Sur.	Neural Surround processing for any sources (U.S.A. and Canada models only)

SUR. ENHANCED or MOVIE THEATER	Functions
PRO LOGIC	Dolby Pro Logic processing for any sources
PLII Movie	Dolby Pro Logic II processing for movie sources
PLII× Movie	Dolby Pro Logic IIx processing for movie sources
Neo:6 Cinema	DTS processing for movie sources

Notes

- The Pro Logic IIx decoder is not available when "SUR. B" is set to "NONE" (see page 78).
- The Neural Surround decoder is compatible with the PCM signals (32 kHz, 44.1 kHz, and 48 kHz) and the analog 2-channel input sources.
- The Neural Surround decoder is not effective with any of the sound field programs.
- When Neural Surround-incompatible signals are being input
 while the Neural Surround decoder is selected, multi-channel
 sources are decoded straight into the appropriate channels
 without any additional effect processing and the Neural
 Surround-incompatible PCM signals are played back in stereo.

Using Virtual CINEMA DSP

Virtual CINEMA DSP allows you to enjoy the CINEMA DSP programs without surround speakers. It creates virtual speakers to reproduce the natural sound field. If you set "SUR. LR" to "NONE" (see page 78), Virtual CINEMA DSP activates automatically whenever you select a CINEMA DSP sound field program (see page 63).

Note

Virtual CINEMA DSP will not activate even when "SUR. LR" is set to "NONE" (see page 78) in the following cases:

- When the component connected to the MULTI CH INPUT jacks is selected as the input source (see page 37).
- When headphones are connected to the PHONES jack.
- When the "DIRECT STEREO" (see page 38) or "2ch Stereo" mode (see page 37) is selected, or when this unit is in the "STRAIGHT" mode (see page 37).

RECORDING

Recording adjustments and other operations are performed from the recording components. Refer to the operating instructions for those components.

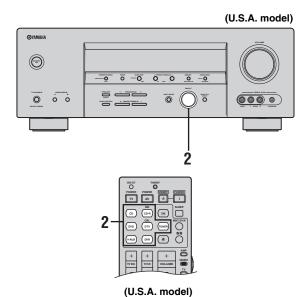
Notes

- · When this unit is set to the standby mode, you cannot record between other components connected to this unit.
- The setting of the TONE CONTROL (see page 31), VOLUME, the speaker level (see page 79) and the sound field programs (see page 62) do not affect recorded material.
- The source connected to the MULTI CH INPUT jacks of this unit cannot be recorded.
- S-video and composite video signals pass independently through the video circuits of this unit. Therefore, when recording or dubbing video signals input from a video source component that provides only an S-video or a composite video signal, you can record only an S-video or a composite video signal on your VCR.
- Digital signals input at the DIGITAL INPUT jacks are not output at the analog AUDIO OUT (REC) jacks for recording.
- A given input source is not output on the same OUT (REC) channel.
- Check the copyright laws in your country to record from CDs, radio, etc. Recording of copyrighted material may infringe copyright laws
- The XM Satellite Radio (U.S.A. model only) signals cannot be output at the AUDIO OUT (REC) jacks.

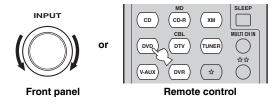
``⊚′≤

Do a test recording before you start an actual recording.

If you play back a video source that uses scrambled or encoded signals to prevent it from being dubbed, the picture itself may be disturbed due to those signals.



- 1 Turn on all the connected components.
- 2 Rotate the INPUT selector on the front panel (or press one of the input selector buttons on the remote control) to select the source component you want to record from.



- 3 Start playback on the selected source component or select a broadcast station.
- 4 Start recording on the recording component.

FM/AM TUNING

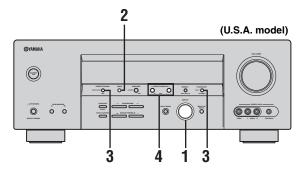
There are 2 tuning methods: automatic and manual. Automatic tuning is effective when station signals are strong and there is no interference. If the signal from the station you want to select is weak, tune into it manually. You can also use the automatic and manual preset tuning features to store up to 40 stations (A1 to E8: 8 preset station numbers in each of the 5 preset station groups). Furthermore, you can recall any preset stations and exchange the assignment of two preset stations with each other.

Note

Orient the connected FM and AM antenna for the best reception.

Automatic tuning

Automatic tuning is effective when station signals are strong and there is no interference.

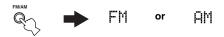


1 Rotate the INPUT selector to select "TUNER" as the input source.

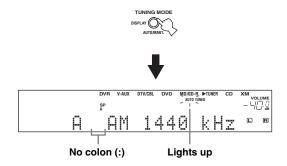


2 Press FM/AM to select the reception band.

"FM" or "AM" appears in the front panel display.



3 Press TUNING MODE (AUTO/MAN'L) so that the AUTO indicator lights up in the front panel display.



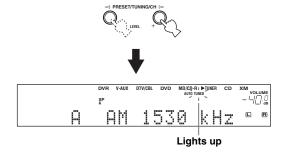
If a colon (:) appears in the front panel display, tuning is not possible. Press PRESET/TUNING to turn the colon (:) off.



4 Press PRESET/TUNING/CH <1 / > once to begin automatic tuning.

When this unit is tuned into a station, the TUNED indicator lights up and the frequency of the received station is shown in the front panel display.

- Press > to tune into a higher frequency.

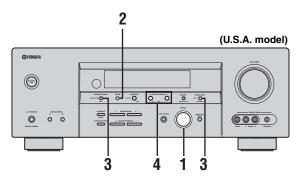


Manual tuning

If the signal received from the station you want to select is weak, tune into it manually.

Note

Manually tuning into an FM station automatically switches the tuner to monaural reception to increase the signal quality.



1 Rotate the INPUT selector to select "TUNER" as the input source.

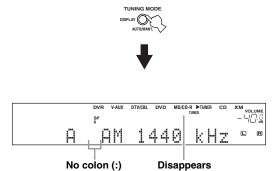


2 Press FM/AM to select the reception band.

"FM" or "AM" appears in the front panel display.



3 Press TUNING MODE (AUTO/MAN'L) so that the AUTO indicator disappears from the front panel display.



If a colon (:) appears in the front panel display, tuning is not possible. Press PRESET/TUNING (EDIT) to turn the colon (:) off.



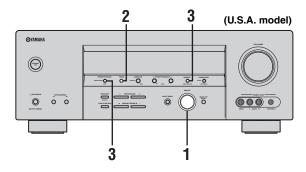
4 Press PRESET/TUNING/CH <1/>
✓ / > to tune into the desired station manually.

Hold down the button to continue searching.



Automatic preset tuning

You can use the automatic preset tuning feature to store FM stations with strong signals up to 40 (A1 to E8: 8 preset station numbers in each of the 5 preset station groups) of those stations in order. You can then recall any preset station easily by selecting the preset station number.



1 Rotate the INPUT selector to select "TUNER" as the input source.



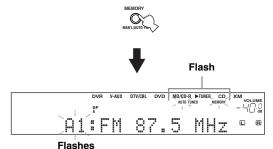
2 Press FM/AM to select "FM" as the reception band.

"FM" appears in the front panel display.



3 Press and hold MEMORY (MAN'L/AUTO FM) for more than 3 seconds.

The preset station number and the MEMORY and AUTO indicators flash. After approximately 5 seconds, automatic presetting starts from the current frequency and proceeds toward the higher frequencies.



When automatic preset tuning is completed, the front panel display shows the frequency of the last preset station.

`\o':

You can specify the preset number from which this unit stores FM stations and/or begins tuning toward lower frequencies. For details, see "Automatic preset tuning options" on page 47.

Notes

- Any stored station data existing under a preset station number is cleared when you store a new station under the same preset station number.
- If the number of received stations does not reach 40 (E8), automatic preset tuning automatically stops after searching for all the available stations.
- Only FM stations with sufficient signal strength are stored automatically by automatic preset tuning. If the station you want to store is weak in signal strength, tune into it manually and store it as described in "Manual preset tuning".

Automatic preset tuning options

You can specify the preset number from which this unit stores FM stations and/or begins tuning toward lower frequencies.

Note

First carry out steps 1 through 3 in "Automatic preset tuning" on page 46.

 Press A/B/C/D/E and then PRESET/TUNING/ CH
 ID to select the preset station number under which the first station will be stored.

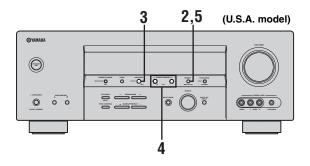
Automatic preset tuning stops when stations have all been stored up to E8.





Manual preset tuning

You can also store up to 40 stations (A1 to E8: 8 preset station numbers in each of the 5 preset station groups) manually.



Tune into a station automatically or manually. See pages 44 and 45 for tuning instructions.



When this unit is tuned into a station, the front panel display shows the frequency of the station received.

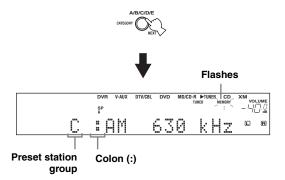
2 Press MEMORY (MAN'L/AUTO FM).

The MEMORY indicator flashes in the front panel display for approximately 5 seconds.



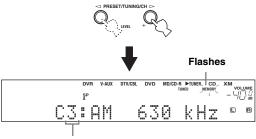
3 Press A/B/C/D/E repeatedly to select a preset station group (A to E) while the MEMORY indicator is flashing.

The selected preset station group letter appears. Check that the colon (:) appears in the front panel display.



Press PRESET/TUNING/CH / ▷ to select a preset station number (1 to 8) while the MEMORY indicator is flashing.

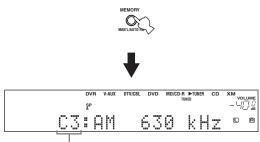
- Press ➤ to select a higher preset station number.



Preset station number

5 Press MEMORY (MAN'L/AUTO FM) while the MEMORY indicator is flashing.

The station band and frequency appear in the front panel display with the preset station group and number you have selected. The MEMORY indicator disappears from the front panel display.



The displayed station has been stored as C3.

6 Repeat steps 1 through 5 to store other stations.

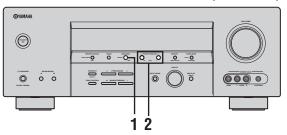
Notes

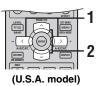
- Any stored station data existing under a preset station number is cleared when you store a new station under the same preset station number.
- The reception mode (stereo or monaural) is stored along with the station frequency.

Selecting preset stations

You can tune into any desired station simply by selecting the preset station group and number under which it was stored.

(U.S.A. model)



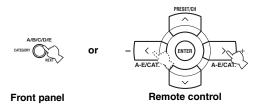


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When performing this operation with the remote control, set the component selector switch to SOURCE and then press TUNER to select "TUNER" as the input source.

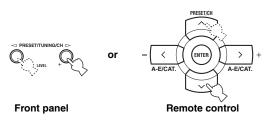
1 Press A/B/C/D/E on the front panel (or A-E/CAT. /> on the remote control) to select the desired preset station group (A to E).

The preset station group letter appears in the front panel display and changes each time you press the button.



2 Press PRESET/TUNING/CH < / > on the front panel (or PRESET/CH < / > on the remote control) to select the desired preset station number (1 to 8).

The preset station group and number appear in the front panel display along with the station band and frequency.



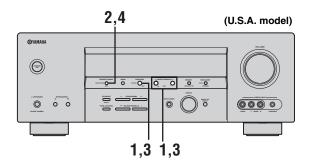


`\oʻ:

You can select the desired preset station number (1 to 8) directly by pressing the numeric buttons on the remote control.

Exchanging preset stations

You can exchange the assignments of two preset stations with each other. The example below describes the procedure to exchange preset station "E1" with "A5".

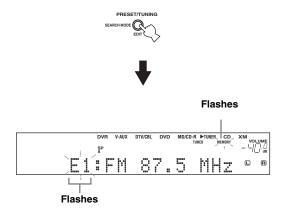


1 Select preset station "E1" using A/B/C/D/E and PRESET/TUNING/CH <1/>
✓/ >.

See "Selecting preset stations" on page 48.

Press and hold EDIT for more than 3 seconds.

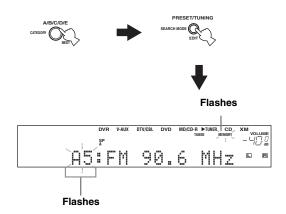
"E1" and the MEMORY indicator flash in the front panel display.



3 Select preset station "A5" using A/B/C/D/E and PRESET/TUNING/CH <1/> √>.

"A5" and the MEMORY indicator flash in the front panel display.

See "Selecting preset stations" on page 48.



4 Press EDIT again.

"EDIT E1–A5" appears in the front panel display and the assignments of the two preset stations are exchanged.



XM® SATELLITE RADIO TUNING

XM Satellite Radio is the satellite radio service with millions of listeners across the United States, broadcasting live daily. The XM Satellite Radio channel lineup includes more than 150 digital channels of choice from coast to coast: 67 commercial-free music channels, featuring hip hop to opera, classical to country, bluegrass to blues; 33 channels of premier sports, talk, comedy, children's and entertainment programming; and more than 20 channels of the traffic and weather information for major metropolitan areas nationwide.

Because XM Satellite Radio is a subscription service, you will need to set up an account and activate service with XM using your XM Satellite Radio ID number. To check your ID number, follow "Activating XM Satellite Radio" on page 53. For further information on XM Satellite Radio services, visit the XM Satellite Radio website at "http://www.xmradio.com/".

This unit is equipped with the Neural Surround decoder (U.S.A. and Canada models only) that plays back the surround sound content of the XM Satellite Radio broadcasts in multi-channels, resulting in a full surround sound experience.

Notes

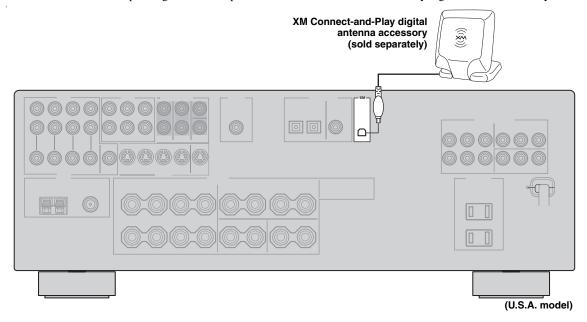
- The XM Satellite Radio service is only available in the 48 contiguous United States (not available in Alaska and Hawaii).
- XM Connect-and-Play digital antenna accessory and monthly subscription are sold separately. For details, visit the XM Satellite Radio website at "http://www.xmradio.com/".
- For information on obtaining the XM Connect-and-Play digital antenna accessory, visit the XM Satellite Radio website at "http://www.xmradio.com/" or consult your local retailer that sells XM Ready products.
- To ensure the optimal reception of the XM Satellite Radio signals, the XM Connect-and-Play digital antenna accessory must be placed at or near a southerly facing window with no obstacles in the path to the sky. You can mount it indoors or outdoors.

Information from XM Satellite Radio Inc.

Hardware and required basic monthly subscription sold separately. Premium Channel available at additional monthly cost. Installation costs and other fees and taxes, including a one-time activation fee may apply. Subscription fee is consumer only. All fees and programming subject to change. Channels with frequent explicit language are indicated with an "XL". Channel blocking is available for XM radio receivers by calling "1-800-XM-RADIO (1-800-967-2346)". Subscriptions subject to Customer Agreement available at xmradio.com. Only available in the 48 continuous United States. © 2005 XM Satellite Radio Inc. All rights reserved. All other trademarks are the property of their respective owners.

Connecting the XM Connect-and-Play digital antenna accessory

Connect the XM Connect-and-Play digital antenna accessory (sold separately) to the XM jack on the rear panel of this unit. For details, see the operating instructions provided with the XM Connect-and-Play digital antenna accessory.



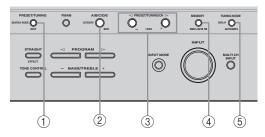
XM Satellite Radio controls and functions

Note

The following controls are available only when "XM" is selected as the input source. Rotate the INPUT selector on the front panel (or set the component selector switch to SOURCE and then press XM on the remote control) to select "XM" as the input source.

Front panel functions

(U.S.A. model)



1 SEARCH MODE

Changes the search mode between the All Channel Search, Category Search, and Preset Search modes (see page 55).

② CATEGORY

(All Channel Search mode)

Changes the channel category while staying in the All Channel Search mode.

(Category Search mode)

Changes the channel category.

(Preset Search mode)

Changes the preset channel group (A to E).

③ PRESET/TUNING/CH < 1/ >

(All Channel Search mode)

Searches for a channel within all channels. Press and hold for quick search.

(Category Search mode)

Searches for a channel within the selected category. Press and hold for quick search.

(Preset Search mode)

Changes the preset channel number (1 to 8).

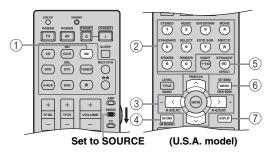
(4) MEMORY (MAN'L/AUTO FM)

Stores a preset channel in the memory (see page 59).

⑤ DISPLAY

Displays the XM Satellite Radio information such as channel number, channel name, category, artist name, or song title displayed in the front panel display (see page 60).

Remote control functions



① XM

Selects "XM" as the input source.

2 Numeric buttons

(All Channel Search or Category Search mode)

Use 1 to 9 and 0 to enter a channel number directly.

(Preset Search mode)

Use 1 to 8 to enter a preset channel number directly.

③ Cursor buttons $\land / \lor / < / >$

(All Channel Search mode)

Press A-E/CAT. \langle / \rangle to change the channel category. Press PRESET/CH \wedge / \vee to search for a channel within all channels. Press and hold for quick search.

(Category Search mode)

Press A-E/CAT. ⟨/⟩ to change the channel category. Press PRESET/CH ∧/∨ to search for a channel within the selected category. Press and hold for quick search.

(Preset Search mode)

Press A-E/CAT. $\langle \rangle$ to change the preset channel group (A to E).

Press PRESET/CH \wedge / \vee to change the preset channel number (1 to 8).

(4) XM MEMORY

Stores a preset channel in the memory (see page 59).

5 ENT.

Confirms an entered channel number in the Direct Number Access mode (see page 58).

6 SRCH MODE

Changes the search mode between the All Channel Search, Category Search, and Preset Search modes (see page 55).

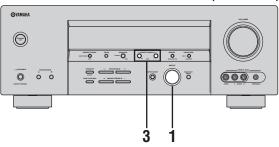
(7) DISPLAY

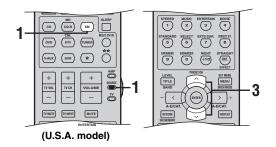
Displays the XM Satellite Radio information such as channel number, channel name, category, artist name, or song title displayed in the front panel display (see page 60).

Activating XM Satellite Radio

To sign up for an account with the XM Satellite Radio service, an XM Satellite Radio ID number is required. Follow the procedure below to check your ID number, and then visit the website at "http://activate.xmradio.com" or call "1-800-XM-RADIO (1-800-967-2346)" with a major credit card handy for signing up.

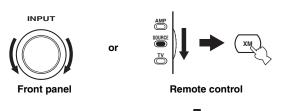
(U.S.A. model)





1 Rotate the INPUT selector on the front panel (or set the component selector switch to SOURCE and then press XM on the remote control) to select "XM" as the input source.

The cursor on the left of the XM indicator lights up in the front panel display.





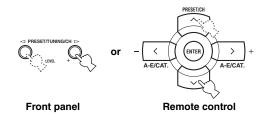
2 Check the XM Satellite Radio reception level and adjust the orientation of the XM Connectand-Play digital antenna accessory for a better percentage of the reception level.

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You can display the XM Satellite Radio reception level by using the "XM ANT." parameter in "OPTION MENU" (see page 83).

Notes

- If "CHECK ANTENNA" appears in the front panel display, the XM Connect-and-Play digital antenna accessory may not be connected to the XM jack on the rear panel of this unit properly. See "Connecting the XM Connect-and-Play digital antenna accessory" on page 51 and check the connection.
- The "XM ANT." parameter in "OPTION MENU" (see page 83) cannot be adjusted by using the remote control. Instead, you need to adjust the orientation of the XM Connect-and-Play digital antenna accessory connected to the XM jack of this unit for a better percentage of the reception level.
- 3 Press PRESET/TUNING/CH
 / > on the front panel (or PRESET/CH
 / ✓ on the remote control) to select channel "0".



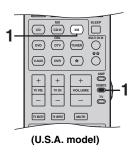
Note

You cannot select channel "0" if the All Channel Search mode (see page 55) is not selected.

4 Check the XM Satellite Radio ID number displayed in the front panel display and write it down.

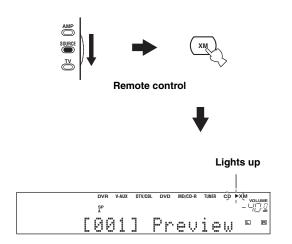
ID:			
11).			

Basic XM Satellite Radio operations



1 Set the component selector switch to SOURCE and then press XM on the remote control to select "XM" as the input source.

The cursor on the left of the XM indicator lights up in the front panel display and the XM Satellite Radio information (such as channel number, channel name, category, artist name, or song title) for the currently selected channel appears in the front panel display.



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When you select "XM" as the input source, this unit automatically recalls the previously selected channel.

Note

The XM Satellite Radio signals cannot be output at the AUDIO OUT (REC) jacks.

2 Search for a channel by using one of the XM Satellite Radio search modes.

See "Selecting the XM Satellite Radio search mode" on page 55 for details.

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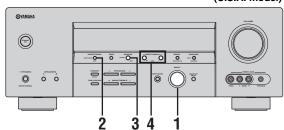
- You can use the Neural Surround decoder to enjoy the surround sound content of the XM Satellite Radio broadcasts in multi-channels (see page 41).
- You can set the XM Satellite Radio preset channels (see page 59).
- You can display the XM Satellite Radio information in the front panel display (see page 60).

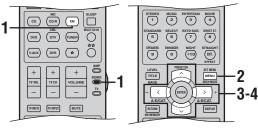
Selecting the XM Satellite Radio search mode

You can search for the desired channel using one of the three search modes (All Channel Search, Category Search, and Preset Search modes). You can also enter the channel number directly to select the desired channel by using the Direct Number Access mode (see page 58).

All Channel Search mode

(U.S.A. model)





(U.S.A. model)

1 Rotate the INPUT selector on the front panel (or set the component selector switch to SOURCE and then press XM on the remote control) to select "XM" as the input source.

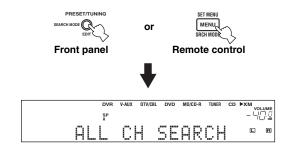




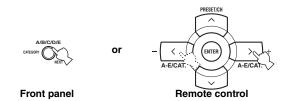
or

Remote control

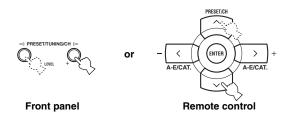
2 Press SEARCH MODE on the front panel (or SRCH MODE on the remote control) repeatedly to select "ALL CH SEARCH".



3 Press CATEGORY on the front panel (or A-E/CAT.
/> on the remote control)
repeatedly to change the channel category.



4 Press PRESET/TUNING/CH
/ /> on the front panel (or PRESET/CH
/ ✓ on the remote control) repeatedly to search for a channel within all channels.

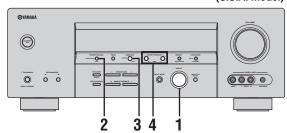


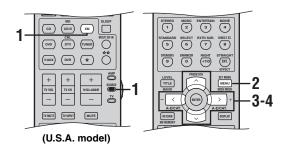


You can search for a channel quickly by pressing and holding PRESET/TUNING/CH \triangleleft / \triangleright on the front panel (or PRESET/CH \wedge / \vee on the remote control).

■ Category Search mode

(U.S.A. model)





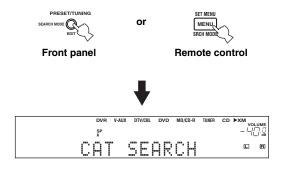
1 Rotate the INPUT selector on the front panel (or set the component selector switch to SOURCE and then press XM on the remote control) to select "XM" as the input source.



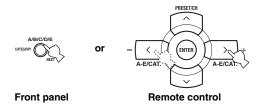
or



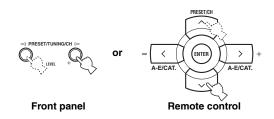
2 Press SEARCH MODE on the front panel (or SRCH MODE on the remote control) repeatedly to select "CAT SEARCH".



3 Press CATEGORY on the front panel (or A-E/CAT.
/> on the remote control)
repeatedly to change the channel category.



4 Press PRESET/TUNING/CH
/ ▷ on the front panel (or PRESET/CH
/ ▷ on the remote control) repeatedly to search for a channel within the selected channel category.



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You can search for a channel quickly by pressing and holding PRESET/TUNING/CH \triangleleft / \triangleright on the front panel (or PRESET/CH \wedge / \vee on the remote control).

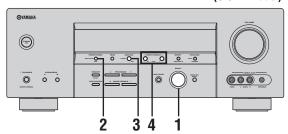
■ Preset Search mode

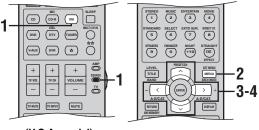
Prior to selecting a preset channel in the Preset Search mode, you must preset XM Satellite Radio channels. For details, see "Setting the XM Satellite Radio preset channels" on page 59.

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All preset channels (A1 to E8) recalls "001 Preview" by the initial factory setting.

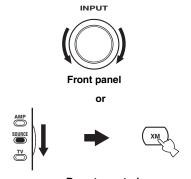
(U.S.A. model)





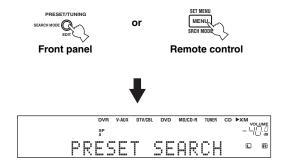
(U.S.A. model)

1 Rotate the INPUT selector on the front panel (or set the component selector switch to SOURCE and then press XM on the remote control) to select "XM" as the input source.

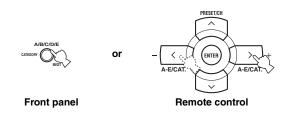


Remote control

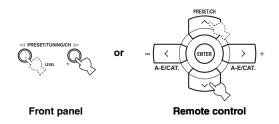
Press SEARCH MODE on the front panel (or SRCH MODE on the remote control) repeatedly to select "PRESET SEARCH".



3 Press CATEGORY on the front panel (or A-E/CAT. </> on the remote control) repeatedly to change the preset channel group (A to E).



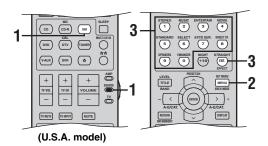
4 Press PRESET/TUNING/CH
/ > on the front panel (or PRESET/CH
/ > on the remote control) repeatedly to change the preset channel number (1 to 8).



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You can also select the preset channel number directly by pressing the numeric buttons (1 to 8) on the remote control.

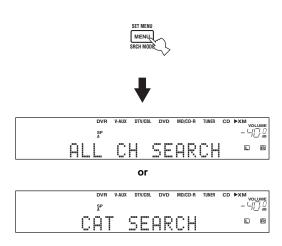
■ Direct Number Access mode



1 Set the component selector switch to SOURCE and then press XM on the remote control to select "XM" as the input source.



2 Press SRCH MODE on the remote control repeatedly to select "ALL CH SEARCH" or "CAT SEARCH".

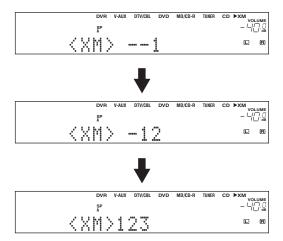


3 Press the numeric buttons on the remote control to enter the desired three-digit channel number.

For example, to enter the number 123, press the numeric buttons as shown below.



The display changes as follows.



Press the numeric buttons and ENT. on the remote control to enter the desired one-digit or two-digit channel number.

For example, to enter the number 12, press the numeric buttons as shown below.

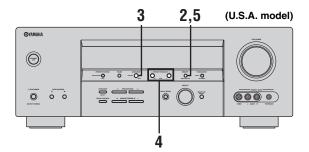


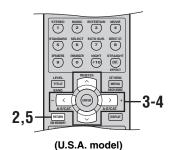
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- Instead of pressing ENT. to tune into the channel immediately, you can wait a few seconds until this unit confirms the entered channel number.
- If no button is pressed within a few seconds after you enter a one-digit or two-digit number, this unit automatically confirms the entered channel number.
- Pressing a button other than the numeric buttons or ENT.
 cancels the Direct Number Access mode procedure.

Setting the XM Satellite Radio preset channels

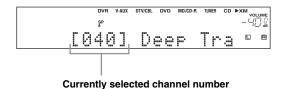
You can use this feature to store up to 40 XM Satellite Radio channels (A1 to E8: 8 preset channel numbers in each of the 5 preset channel groups). You can then recall any preset channel easily by selecting the preset channel group and number as described in "Preset Search mode" on page 57.





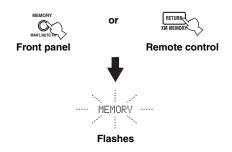
Search for a channel you want to set as a preset channel by using one of the XM Satellite Radio search modes.

See "Selecting the XM Satellite Radio search mode" on page 55 for details.



2 Press MEMORY on the front panel (or XM MEMORY on the remote control).

The MEMORY indicator flashes in the front panel display for approximately 5 seconds.

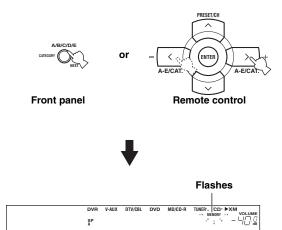


Note

You must proceed to and carry out steps 3 through 5 while the MEMORY indicator is flashing in the front panel display.

3 Press CATEGORY on the front panel (or A-E/CAT. </> on the remote control) repeatedly to select a preset channel group (A to E) while the MEMORY indicator is flashing.

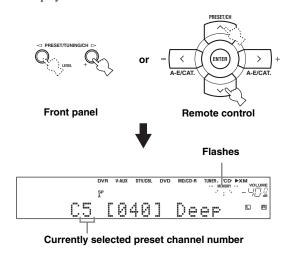
The preset channel group letter appears in the front panel display.



Currently selected preset channel group

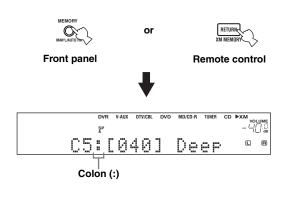
4 Press PRESET/TUNING/CH / > on the front panel (or PRESET/CH / ✓ on the remote control) repeatedly to select a preset channel number (1 to 8) while the MEMORY indicator is flashing.

The preset channel number appears in the front panel display.



Press MEMORY on the front panel (or XM MEMORY on the remote control) to set the selected XM Satellite Radio channel as a preset channel while the MEMORY indicator is flashing.

A colon (:) appears next to the preset channel number for confirmation, and the MEMORY indicator turns off in the front panel display.

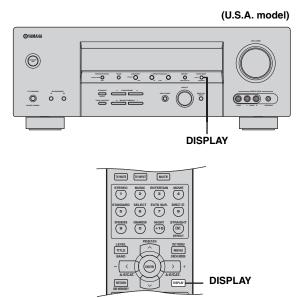


Note

Once you set a new preset channel, the one previously stored in the same preset channel group and number is cleared.

Displaying the XM Satellite Radio information

You can display the XM Satellite Radio information (such as channel number, channel name, category, artist name, or song title) for the currently selected channel in the front panel display.



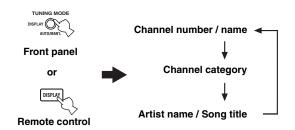
Note

If a status message or an error message appears in the front panel display, see the "XM Satellite Radio (U.S.A. model only)" section in "TROUBLESHOOTING" on page 95 for appropriate remedies.

(U.S.A. model)

Displaying the XM Satellite Radio information in the front panel display

Press DISPLAY on the front panel or on the remote control repeatedly to toggle between the following XM information display modes.



BASIC

When the channel number / name is displayed:



When the channel category is displayed:



When the artist name / song title is displayed:



`\o':

- The front panel display can indicate up to 14 alphanumeric characters at once. You can set whether to display the XM Satellite Radio information in the front panel display in a continuous manner or by 14 alphanumeric characters at once by using the "SCROLL" parameter in "OPTION MENU" (see page 83).
- If the XM Satellite Radio information contains a character that cannot be recognized by this unit, the character will be replaced with a space.

Note

If you press DISPLAY while the XM Satellite Radio information display is scrolling from right to left in the front panel display, the XM Satellite Radio information display mode toggles as described above.

SOUND FIELD PROGRAMS

What really creates the rich, full tones of a live instrument are the multiple reflections from the walls of the room. In addition to making the sound live, these reflections enable us to tell where the player is situated as well as the size and shape of the room in which we are sitting.

Elements of a sound field

There are two distinct types of sound reflections that combine to make up the sound field in addition to the direct sound coming straight to our ears from the player's instrument.

Early reflections

Reflected sounds reach our ears extremely rapidly (50 ms to 100 ms after the direct sound), after reflecting from one surface only (for example, from a wall or the ceiling). Early reflections actually add clarity to the direct sound.

Reverberations

These are caused by reflections from more than one surface (for example, from the walls, and the ceiling) so numerous that they merge together to form a continuous sonic afterglow. They are non-directional and lessen the clarity of the direct sound.

Direct sound, early reflections and subsequent reverberations taken together help us to determine the subjective size and shape of the room, and it is this information that the digital sound field processor reproduces in order to create sound fields.

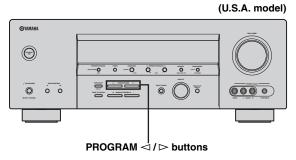
If you could create the appropriate early reflections and subsequent reverberations in your listening room, you would be able to create your own listening environment. The acoustics in your room could be changed to those of a concert hall, a dance floor, or a room with virtually any size at all. This ability to create sound fields at will is exactly what YAMAHA has done with the digital sound field processor.

Selecting sound field programs

Notes

- Choose a sound field program based on your listening preference, not merely on the name of the program.
- · When you select an input source, this unit automatically selects the last sound field program used with the corresponding input source.
- Sound field programs cannot be selected when the component connected to the MULTI CH INPUT jacks is selected as the input source (see page 37).
- Sampling frequencies higher than 48 kHz (except for DTS 96/24 signals) are sampled down to 48 kHz and then sound field programs are applied.

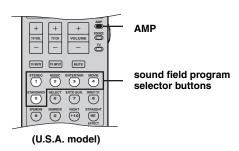
Front panel operations



Press the PROGRAM \lhd / \triangleright buttons on the front panel repeatedly.

The name of the selected sound field program appears in the front panel display.

Remote control operations



Set the component selector switch to AMP and then press one of the sound field program selector buttons on the remote control repeatedly.

The name of the selected sound field program appears in the front panel display.

Sound field program descriptions

This unit is equipped with a variety of precise digital decoders that allow you to enjoy multi-channel playback from almost any stereo or multi-channel sound source. This unit is also equipped with a YAMAHA digital sound field processing (DSP) chip containing several sound field programs which you can use to enhance your playback experience.

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The YAMAHA CINEMA DSP modes are compatible with all Dolby Digital, DTS, and Dolby Surround sources. Set "INPUT MODE" to "AUTO" (see page 33) to enable this unit to automatically switch to the appropriate digital decoder according to the input signal.

Notes

- The DSP sound field programs of this unit are recreations of real-world acoustic environments made from precise measurements taken
 in the actual concert hall, music venue, movie theater, etc. Thus, you may notice variations in the strength of the reflections coming
 from the front, back, left and right.
- · Choose a sound field program based on your listening preference, not merely on the name of the program itself.

For movie/video sources

You can select from the following sound fields when playing movie or video sources. The sound fields marked "MULTI" can be used with multi-channel sources, like DVD, digital TV, etc. Those marked "2-CH" can be used with 2-channel stereo sources like TV programs, video tapes, etc.

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Press the PROGRAM \triangleleft / \triangleright buttons on the front panel (or set the component selector switch to AMP and then press one of the sound field program selector buttons on the remote control) to select the desired sound field program (see page 62).

Remote control button	Sound Fleld Program	Features	Sources
1	STEREO 2ch Stereo	Downmixes multi-channel sources to 2 channels or plays back 2-channel sources as they are.	
2	MUSIC Pop/Rock	CINEMA DSP processing. Creates an enthusiastic atmosphere where you can feel as if you are in an actual jazz or rock concert.	
	ENTERTAINMENT TV Sports	CINEMA DSP processing. Reproduces the sound environment of a large concert hall using the surround sound field to enhance your experience of watching various TV programs such as news, variety shows, music programs or sports programs.	MULTI 2-CH
3	ENTERTAINMENT Mono Movie	CINEMA DSP processing. Reproduces monaural video sources (such as old movies) at the optimum reverberation level to create sound depth using only the presence sound field.	
	ENTERTAINMENT Game	CINEMA DSP processing. Adds a deep and spatial feeling to video game sounds.	

SOUND FIELD PROGRAMS

Remote control button	Sound Field Program	Features	Sources
	MOVIE THEATER Spectacle	CINEMA DSP processing. This program reproduces the extremely wide sound field of a 70-mm movie theater in detail, making both the video and the sound field incredibly real. This is ideal for any kind of video source encoded in Dolby Surround, Dolby Digital or DTS, especially large-scale movie productions.	
4	MOVIE THEATER Sci-Fi	CINEMA DSP processing. This program reproduces dialog and sound effects in the latest sound form for science fiction films, thus creating a broad and expansive cinematic space amid silence. You can enjoy science fiction films encoded in Dolby Surround, Dolby Digital or DTS in a virtual-space sound field employing the most advanced techniques.	MULTI
	MOVIE THEATER Adventure	CINEMA DSP processing. This program reproduces the sound design of the newest 70-mm and multi-channel soundtrack films similar to the sound field of the newest movie theaters, so the reverberations of the sound field itself are restrained as much as possible.	2-CH
	MOVIE THEATER General	CINEMA DSP processing. This program reproduces sounds from 70-mm and multi-channel soundtrack films characterized by soft and extensive sound field.	
5	SUR. STANDARD	Standard processing for the selected decoder.	•
5	SUR. ENHANCED	Enhanced processing for the selected decoder.	

■ For music sources

You can select from the following sound fields when playing music sources, like CD, FM/AM broadcasting, tapes, etc.

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Press the PROGRAM \triangleleft / \triangleright buttons on the front panel (or set the component selector switch to AMP and then press one of the sound field program selector buttons on the remote control) to select the desired sound field program (see page 62).

Remote control button	Sound Field Program	Features	Sources
1	STEREO 2ch Stereo	Plays back 2-channel sources.	2-CH
'	STEREO 6ch Stereo	Plays back 2-channel sources from all speakers in 6.1 channels, providing a larger sound field ideal for background music at parties, etc.	2-011
	MUSIC Hall in Vienna	HiFi DSP processing. The program reproduces a classic shoe-box type concert hall with approximately 1700 seats. Pillars and ornate carvings create extremely complex reflections which produce a very full, rich sound.	
2	MUSIC The Bttm Line	HiFi DSP processing. This program reproduces the stage front in "The Bottom Line", a famous New York jazz club where 300 people can be seated.	
	MUSIC The Roxy Thtr	HiFi DSP processing. This program reproduces the dynamic rock music environment of "The Roxy Theatre", one of the hottest rock clubs in L.A.The listener's imaginary seat is at the center-left of the hall.	MULTI 2-CH
3	ENTERTAINMENT Disco	HiFi DSP processing. This program reproduces the acoustic environment of a lively disco in the heart of a big city to create a highly concentrated and energetic sound.	
5	SUR. STANDARD	Standard processing for the selected decoder.	
	SUR. ENHANCED	Enhanced processing for the selected decoder.	

Changing sound field parameter settings

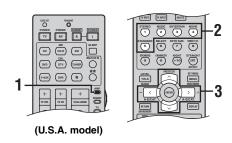
You can enjoy good quality sound with the initial factory settings. Although you do not have to change the initial factory settings, you can change some of the parameters to better suit the input source or your listening room.

Notes

- Use the "PARAM. INI" feature in "OPTION MENU" to initialize the parameters of each sound field program within a sound field program group (see page 83).
- You cannot change the sound field parameter values when "MEMORY GUARD" in "OPTION MENU" is set to "ON" (see page 83). If you want to change the sound field parameter values, set "MEMORY GUARD" to "OFF".

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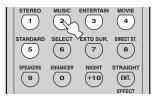
- For details about the function and control range of each sound field parameter, see page 66.
- Repeat steps 2 and 3 as necessary to change other sound field program parameter settings.
- If you press and hold
 /> to change the sound field parameter value, the initial factory settings are shown momentarily in the front panel display.



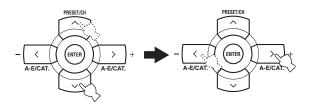
1 Set the component selector switch to AMP.



Press one of the sound field program selector buttons repeatedly to select the desired sound field program you want to adjust.



- Press ∧ / ∨ to select the desired sound field parameter and then < / > to change the selected sound field parameter value.
 - Press > to increase the value.
 - Press < to decrease the value.



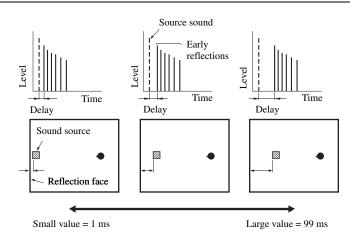
■ Sound field parameter descriptions

You can adjust the values of certain digital sound field parameters so that the sound fields are recreated accurately in your listening room. Not all of the following parameters are found in every program.

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To change sound field parameter settings to suit your listening environment, see page 65 for details.

Sound field parameter	Features
DSP LEVEL	DSP level. Adjusts the level of all the DSP effect sounds within a narrow range. Depending on the acoustics of your listening room, you may want to increase or decrease the DSP effect level relative to the level of the direct sound.
	Control range: -6 dB to +3 dB
INIT. DLY P.INIT.DLY S.INIT.DLY SB INI.DLY	Initial delay. Presence, surround, and surround back initial delay. Changes the apparent distance from the source sound by adjusting the delay between the direct sound and the first reflection heard by the listener. The smaller the value, the closer the sound source seems to the listener. The larger the value, the farther it seems. For a small room, set to a small value. For a large room, set to a large value.
	Control range: 1 to 99 ms (INIT. DLY and P. INT. DLY) 1 to 49 ms (S. INIT. DLY and SB INI. DLY)

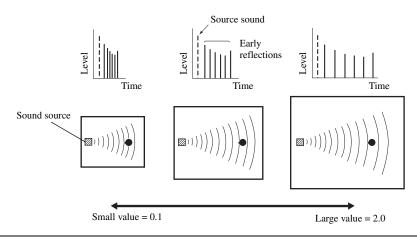


Sound field parameter

Features

ROOM SIZE P.ROOM SIZE S.ROOM SIZE SB RM SIZE Room size. Presence, surround and surround back room size. Adjusts the apparent size of the surround sound field. The larger the value, the larger the surround sound field becomes. As the sound is repeatedly reflected around a room, the larger the hall is, the longer the time between the original reflected sound and the subsequent reflections. By controlling the time between the reflected sounds, you can change the apparent size of the virtual venue. Changing this parameter from one to two doubles the apparent length of the room.

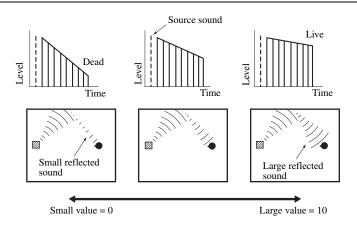
Control range: 0.1 to 2.0



LIVENESS
S. LIVENESS
SB LIVENESS

Liveness. Surround and surround back liveness. Adjusts the reflectivity of the virtual walls in the hall by changing the rate at which the early reflections decay. The early reflections of a sound source decay much faster in a room with acoustically absorbent wall surfaces than in one which has highly reflective surfaces. A room with acoustically absorbent surfaces is referred to as "dead", while a room with highly reflective surfaces is referred to as "live". This parameter lets you adjust the early reflection decay rate and thus the "liveness" of the room.

Control range: 0 to 10



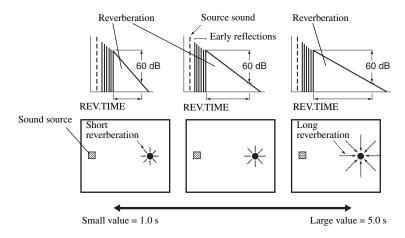
Sound field parameter

Features

REV.TIME

Reverberation time. Adjusts the amount of time taken for the dense, subsequent reverberation sound to decay by 60 dB at 1 kHz. This changes the apparent size of the acoustic environment over an extremely wide range. Set a longer reverberation time for "dead" sources and listening room environments, and a shorter time for "live" sources and listening room environments.

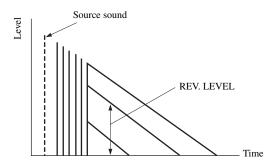
Control range: 1.0 to 5.0 s



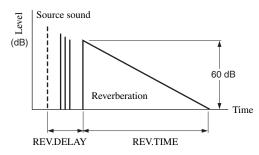
REV. DELAY

Reverberation delay. Adjusts the time difference between the beginning of the direct sound and the beginning of the reverberation sound. The larger the value, the later the reverberation sound begins. A later reverberation sound makes you feel as if you are in a larger acoustic environment.

Control range: 0 to 250 ms



Sound field parameter REV. LEVEL Reverberation level. Adjusts the volume of the reverberation sound. The larger the value, the stronger the reverberation becomes. Control range: 0 to 100%



2ch Stereo DIRECT

2-channel stereo direct. Bypasses the decoders and DSP processors of this unit for pure hi-fi stereo sound when playing 2-channel analog sources.

Choices: AUTO, OFF

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- The "AUTO" setting bypasses the decoders and DSP processors only when "BASS" and "TREBLE" are set to 0 dB (see page 31).
- When multi-channel signals (Dolby Digital and DTS) are input, they are downmixed to 2 channels and output from the front left and right speakers.
- The low-frequency signals input from the front left and right speakers are redirected to the subwoofer in the following cases:
- "BASS OUT" is set to "BOTH" (see page 79).
- "FRONT" is set to "SMALL" (see page 78) and "BASS OUT" is set to "SWFR" (see page 79).

6ch	Stereo
CT	LEVEL
SL	LEVEL
SR	LEVEL
SB	LEVEL

6-channel stereo center, surround left, surround right, and surround back levels. Adjusts the volume level of each channel in the 6-channel stereo mode.

Control range: 0 to 100%

SOUND FIELD PROGRAMS

Sound field parameter	Features
PRO LOGIC II× Music PRO LOGIC II Music	Pro Logic IIx Music and Pro Logic II Music panorama. Sends stereo signals to the surround speakers as well as the front speakers for a wraparound effect.
PANORAMA	Choices: OFF , ON
PRO LOGIC II× Music PRO LOGIC II Music	Pro Logic IIx Music and Pro Logic II Music dimension. Adjusts the sound field either towards the front or towards the rear.
DIMENSION	Control range: –3 (towards the rear) to +3 (towards the front)
	Initial setting: STD (standard)
PRO LOGIC IIx Music PRO LOGIC II Music CT WIDTH	Pro Logic IIx Music and Pro Logic II Music center width. Moves the center channel output completely towards the center speaker or towards the front left and right speakers. A larger value moves the center channel output towards the front left and right speakers.
	Control range: 0 (center channel sound is output only from the center speaker) to 7 (center channel sound is output only from the front left and right speakers)
	Initial setting: 3
DTS Neo:6 Music C. IMAGE	DTS Neo:6 Music center image. Adjusts the front left and right channel output relative to the center channel to make the center channel more or less dominant as necessary.
	Control range: 0.0 to 1.0
	Initial setting: 0.3

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The "Pro Logic IIx Music", "Pro Logic II Music", and DTS Neo:6 Music" parameters can be set only when "SUR. STANDARD" is selected. Set the component selector switch to AMP and then press STANDARD on the remote control repeatedly to select "SUR. STANDARD" (see page 41).

Sound field program speaker layouts

Sound output from each speaker depends on the type of audio signals being input. Refer to the diagrams in the table below to understand the speaker layout for each sound field program.

Note

Be advised that there may be no or not enough sound output from speakers depending on the type of input source being played back. Furthermore, there may be some channels that can only be used partially when they are adjusted to specific aspects of movies, such as special sound effects, etc.

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Except for "2ch Stereo", "6ch Stereo", and "STRAIGHT", you can select a decoder to output sound from the surround back speaker (see page 40).

The abbreviations and symbols used in each diagram are as follows:

L	Front left speaker	SL	Surround left speaker
С	Center speaker	SR	Surround right speaker
R	Front right speaker	SB	Surround back speaker
	Speaker from which sound is being out		Speaker from which no sound is being output

^{*} When the DO EX / DO PL IIx / ES indicators are turned off in the front panel display

Sound field program	2-channel audio (monaural)	2-channel audio (stereo)	5.1/6.1-channel audio *
STEREO 2ch Stereo	C R	C R	C R
STEREO 6ch Stereo	C (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	(6 SE	C (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)
MUSIC Hall in Vienna The Bttm Line The Roxy Thtr ENTERTAINMENT Disco	C R	C R	C R
MUSIC Pop/Rock ENTERTAINMENT TV Sports Mono Movie Game	C () (SR SB SB		C () (SR (SB

SOUND FIELD PROGRAMS 2-channel audio 2-channel audio 5.1/6.1-channel audio * Sound field program (monaural) (stereo) MOVIE THEATER Spectacle Sci-Fi R R L D R L Ž **ا** Adventure General SR SL SB SUR. STANDARD DOLBY DIGITAL PRO LOGIC R DTS SR SR SL SL SR SB Pro Logic Pro Logic SUR. STANDARD PLII Movie C Ĕ PLII Music R الح PLII Game PLIIx Movie SL SR PLIIx Music PLIIx Game Pro Logic II/Pro Logic IIx Pro Logic II SR Pro Logic IIx SUR. STANDARD Neo:6 Cinema Neo:6 Music R L R SR SL SR SB Cinema/Music Cinema

Sound field program SUR. ENHANCED DOLBY DIGITAL PRO LOGIC DTS	2-channel audio (monaural)	2-channel audio (stereo)	5.1/6.1-channel audio *
DOLBY DIGITAL PRO LOGIC	SL SR		C R
	Pro Logic	SB Pro Logic	SL SR
SUR. ENHANCED	110 Logic	110 Logic	
PLII Movie PLIIx Movie	C R ()) (() (SL SB		
		Pro Logic II	
		C R	
		Pro Logic IIx	
SUR. ENHANCED Neo:6 Cinema	L C R	C) (() (() (SR SB	
STRAIGHT			
	SL SB SR	C R	C
DIRECT STEREO	omana payoack		
DINEOT DIENEO	SI SB SR Monaural playback	C R	

SET MENU

You can use the following parameters in "SET MENU" to adjust a variety of system settings and customize the way this unit operates. Change the initial settings (indicated in bold under each parameter) to reflect the needs of your listening environment.

■ BASIC SETUP BASIC SETUP

Use this feature to set up your system quickly and with minimal effort (see page 27).

■ MANUAL SETUP MANUAL SETUP

Use this feature to manually adjust speaker and system parameters.

Sound menu 1 SOUND MENU

Use this menu to manually adjust any speaker settings, alter the quality and tone of the sound output by the system or compensate for video signal processing delays when using LCD monitors or projectors.

Parameter	Features	Page
A)SPEAKER SET	Selects the size of each speaker, the speakers for low-frequency signal output, and the crossover frequency.	78
B)SP LEVEL	Adjusts the output level of each speaker.	79
C)SP DISTANCE	Adjusts the delay time of each speaker.	80
D)CENTER GEQ	Adjusts the tonal quality of the center speaker.	80
E)LFE LEVEL	Adjusts the output level of the LFE channel for Dolby Digital or DTS signals.	80
F)D. RANGE	Adjusts the dynamic range of Dolby Digital or DTS signals.	81
G)AUDIO SET	Adjusts the muting level, audio delay and tone bypass settings.	81

Input menu 2 INPUT MENU

Use this menu to manually reassign the input jacks, select the input mode or rename the input source.

Parameter	Features	Page
A)INPUT ASSIGN	Assigns the input jacks of this unit according to the component to be used.	81
B)INPUT MODE	Selects the initial input mode of the source.	82
C)INPUT RENAME	Changes the name of the input source.	82
D)VOLUME TRIM	Adjusts the output volume of each jack.	82

Option menu 3 OPTION MENU

Use this menu to manually adjust the optional system parameters.

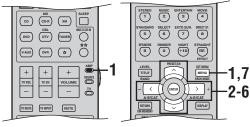
Parameter	Features	Page
A)DISPLAY SET	Adjusts the brightness of the display.	83
B)MEMORY GUARD	Locks sound field program parameters and other "SET MENU" settings.	83
C)PARAM. INI	Initializes the parameters of a group of sound field programs.	83
D)MULTI ZONE	Specifies the location of the speakers connected to the SPEAKERS B terminals.	83
E)XM RADIO SET	Displays the current reception level of the XM Connect-and-Play digital antenna accessory.	83

Note

The "XM RADIO SET" parameter is only applicable to the U.S.A. model.

Using SET MENU

Use the remote control to access and adjust each parameter.



(U.S.A. model)

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- You can change the "SET MENU" parameters while this unit is reproducing sound.
- If you press one of the sound field program selector buttons during the "SET MENU" operation, the "SET MENU" operation is canceled.
- Repeat the following procedure to select and adjust each parameter setting.
- To return to the previous menu level, press RETURN.

Note

You cannot change some "SET MENU" parameters when "NIGHT:CINEMA" or "NIGHT:MUSIC" is selected as the night listening mode (see page 32).

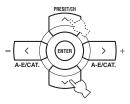
1 Set the component selector switch to AMP and then press SET MENU to enter "SET MENU".

"BASIC SETUP" appears in the front panel display.



*BASIC SETUP

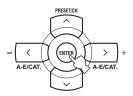
2 Press ∧ / ∨ to select "MANUAL SETUP" and then press ENTER.



MANUAL SETUP

3 Press ENTER to enter "MANUAL SETUP".

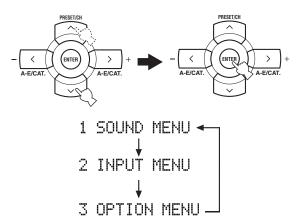
"1 SOUND MENU" appears in the front panel display.



1 SOUND MENU

4 Press ∧ / ∨ repeatedly and then press ENTER to select and enter the desired menu.

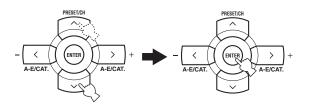
The following menus appear in the front panel display as you press \wedge / \vee repeatedly.



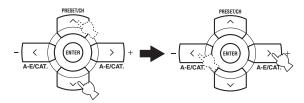
5 Press ∧ / ∨ repeatedly and then press ENTER to select and enter the desired submenu.

Repeat steps 5 and 6 to navigate to and enter the items you want to adjust.

To return to the previous menu level, press RETURN.



- 6 Press ∧ / ∨ to select the desired parameter and then < / > to change the parameter settings.
 - Press > to increase the value.
 - Press < to decrease the value.



7 Press SET MENU to exit from "SET MENU".



Memory back-up

The memory back-up circuit prevents the stored data from being lost even if this unit is in the standby mode. However, the stored data will be lost in case the power cable is disconnected from the AC wall outlet or if the power supply is cut off for more than one week.

1 SOUND MENU

Use this menu to manually adjust any speaker settings or compensate for video signal processing delays when using LCD monitors or projectors.

■ Speaker settings A)SPEAKER SET

Use this feature to manually adjust any speaker settings.

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If you are not satisfied with the bass sounds from your speakers, you can change these settings according to your preference.

Front speakers FRONT Choices: SMALL, LARGE

- Select "SMALL" (small) if you have small front speakers that do not reproduce low-frequency signals effectively. The low-frequency signals of the front left and right channels are directed to the speakers selected in BASS OUT.
- Select "LARGE" (large) if you have large front speakers that reproduce low-frequency signals effectively. All the front left and right channel signals are directed to the front left and right speakers.

Note

If "BASS OUT" is set to "FRNT" (see page 79), the LFE signals found in Dolby Digital or DTS sources, the low-frequency signals of the front left and right channels, and the low-frequency signals of other speakers set to "SML" or to "NONE" are all directed to the front left and right speakers regardless of the "FRONT" setting.

Center speaker CENTER Choices: NONE, SML, LRG

- Select "NONE" (none) if you did not connect a center speaker. The low-frequency signals of the center channel are directed to the speakers selected in "BASS OUT" (see page 79), and the rest of the center channel signals are directed to the front left and right speakers.
- Select "SML" (small) if you have a small center speaker that does not reproduce low-frequency signals effectively. The low-frequency signals of the center channel are directed to the speakers selected in "BASS OUT" (see page 79).
- Select "LRG" (large) if you have a large center speaker that reproduces low-frequency signals effectively. All the center channel signals are directed to the center speaker.

Surround left/right speakers SUR. LR

Choices: NONE, SML, LRG

- Select "NONE" (none) if you did not connect surround speakers. This unit is set to the Virtual CINEMA DSP mode (see page 42) and "SUR. B" is automatically set to "NONE" (see below). The low-frequency signals of the surround left and right channels are directed to the speakers selected in "BASS OUT" (see page 79).
- Select "SML" (small) if you have small surround left and right speakers that do not reproduce low-frequency signals effectively. The low-frequency signals of the surround left and right channels are directed to the speakers selected in "BASS OUT" (see page 79).
- Select "LRG" (large) if you have large surround left and right speakers that reproduce low-frequency signals effectively. All the surround channel signals are directed to the surround left and right speakers.

Surround back speakers SUR. B

Choices: NONE, SML, LRG

- Select "NONE" (none) if you did not connect a surround back speaker. The low-frequency signals of the surround back channel are directed to the speakers selected in "BASS OUT" (see page 79), and the rest of the surround back channel signals are directed to the surround left and right speakers.
- Select "SML" (small) if you have a small surround back speaker that does not reproduce low-frequency signals effectively. The low-frequency signals of the surround back channel are directed to the speakers selected in "BASS OUT" (see page 79).
- Select "LRG" (large) if you have a large surround back speaker that reproduces low-frequency signals effectively. All the surround back channel signals are directed to the surround back speaker.

LFE/Bass out BASS OUT

Use this feature to select the speakers that output the LFE (low-frequency effect) and the low-frequency signals. Choices: SWFR, FRNT, **BOTH**

- Select "SWFR" (subwoofer) if you connected a subwoofer. The LFE signals as well as the lowfrequency signals of other speakers set to "SML" (or "SMALL") or to "NONE" are directed to the subwoofer.
- Select "FRNT" (front) if you did not connect a subwoofer. The LFE signals, the low-frequency signals of the front left and right channels, and the low-frequency signals of other speakers set to "SML" or to "NONE" are all directed to the front left and right speakers regardless of the "FRONT" setting (see page 78).
- Select "BOTH" (both) if you connected a subwoofer.
 The low-frequency signals of any source are output from the subwoofer. The LFE signals as well as the low-frequency signals of other speakers set to "SML" or to "NONE" are directed to the subwoofer. The low-frequency signals of the front left and right channels are directed to the front left and right speakers regardless of the "FRONT" setting (see page 78).

Crossover CROSSOVER

Use this feature to select a crossover frequency of all the speakers set to "SML" (or "SMALL") or to "NONE" in "SPEAKER SET" (see page 78). All frequencies below the selected frequency will be sent to the subwoofer or to the speakers set to "LRG" (or "LARGE") in "SPEAKER SET" (see page 78).

Choices: 40Hz, 60Hz, **80Hz**, 90Hz, 100Hz, 110Hz, 120Hz, 160Hz, 200Hz

Subwoofer phase SWFR PHASE

Use this feature to switch the phase of your subwoofer if bass sounds are lacking or unclear.

Choices: NRM, REV

- Select "NRM" if you do not want to reverse the phase of your subwoofer.
- Select "REV" to reverse the phase of your subwoofer.

■ Speaker level B) SP LEVEL

Use this feature to manually balance the speaker levels between the front left or surround left speakers and each speaker selected in "SPEAKER SET" (see page 78). The selected speaker outputs test tone and the speaker indicator of the speaker flashes.

Control range: -10.0 to +10.0 dB

Control step: 1.0 dB Initial setting: 0 dB

The following is an example where "FL" is selected to adjust the balance of the front left speaker.



- Select "FL" to adjust the balance of the front left speaker.
- Select "FR" to adjust the balance of the front right speaker.
- Select "C" to adjust the balance of the center speaker.
- Select "SL" to adjust the balance of the surround left speaker.
- Select "SR" to adjust the balance of the surround right speaker.
- Select "SB" to adjust the balance of the surround back speaker.
- Select "SWFR" to adjust the balance of the subwoofer.

Note

"C", "SL", "SR", "SB" and "SWFR" cannot be adjusted if "CENTER" (see page 78), "SUR. LR" (see page 78), "SUR. B" (see page 78) and "BASS OUT" (see page 79) are set to "NONE" respectively.

■ Speaker distance COSP DISTANCE

Use this feature to manually adjust the distance of each speaker and the delay applied to the respective channel. Ideally, each speaker should be the same distance from the main listening position. However, this is not possible in most home situations. Thus, a certain amount of delay must be applied to the sound from each speaker so that all sounds will arrive at the listening position at the same time.

Unit UNIT

Choices: meters (m), feet (ft)

Initial setting:

[U.S.A. and Canada models]: feet (ft)

[Other models]: meters (m)

- Select "meters" to adjust speaker distances in meters.
- · Select "feet" to adjust speaker distances in feet.

Speaker distances

Control range: 0.30 to 24.00 m (1.0 to 80.0 ft)

Control step: 0.10 m (0.5 ft)

 Select "FRONT L" to adjust the distance of the front left speaker.

Initial setting: 3.00 m (10.0 ft)

• Select "FRONT R" to adjust the distance of the front right speaker.

Initial setting: 3.00 m (10.0 ft)

 Select "CENTER" to adjust the distance of the center speaker.

Initial setting: 3.00 m (10.0 ft)

 Select "SUR. L" to adjust the distance of the surround left speaker.

Initial setting: 3.00 m (10.0 ft)

 Select "SUR. R" to adjust the distance of the surround right speaker.

Initial setting: 3.00 m (10.0 ft)

 Select "SUR. B" to adjust the distance of the surround back speaker.

Initial setting: 2.10 m (7.0 ft)

• Select "SWFR" to adjust the distance of the subwoofer. Initial setting: 3.00 m (10.0 ft)

Note

"CENTER", "SUR. L", "SUR.R", "SUR. B" and "SWFR" cannot be adjusted if "CENTER" (see page 78), "SUR. LR" (see page 78), "SUR. B" (see page 78) and "BASS OUT" (see page 79) are set to "NONE" respectively.

■ Center graphic equalizer DOCENTER GEQ

Use this feature to adjust the built-in 5-frequency band (100Hz, 300Hz, 1kHz, 3kHz and 10kHz) graphic equalizer for the center channel so that the tonal quality of the center speaker matches that of the front speakers. You can make adjustments while listening to the currently selected source component or a test tone.

Control range: -6 to +6 dB Control step: 0.5 dB Initial setting: 0 dB

`\oʻ:

Press \wedge / \vee to select a frequency band and \langle / \rangle to adjust the selected frequency band.

Following is an example where "100 Hz" is selected as the frequency band.



Test tone TEST

Choices: OFF, ON

- Select "OFF" to stop test tones and output the currently selected source component.
- Select "ON" to output test tones from the front left and center speakers, and adjust the tonal quality of the center speaker.

Low-frequency effect level EDLFE LEVEL

Use this feature to adjust the output level of the LFE (low-frequency effect) channel according to the capacity of your subwoofer or headphones. The LFE channel carries low-frequency special effects which are only added to certain scenes. This setting is effective only when this unit decodes Dolby Digital or DTS signals.

Control range: -20 to **0** dB Control step: 1 dB

•

Speaker SP LFE

Adjusts the speaker LFE level.

Headphone HP LFE

Adjusts the headphone LFE level.

Note

Depending on the settings of "BASS OUT" (see page 79), some signals may not be output at the SUBWOOFER OUTPUT jack.

■ Dynamic range F)D. RANGE

Use this feature to select the amount of dynamic range compression to be applied to your speakers or headphones. This setting is effective only when this unit is decoding Dolby Digital and DTS signals.

Speaker SP D.R

Adjusts the speaker compression.

Headphone HP D.R

Adjusts the headphone compression.

Choices: MIN, STD, MAX

- Select "MIN" (minimum) if you regularly listen at low volume levels.
- Select "STD" (standard) for general use.
- Select "MAX" (maximum) to preserve the greatest amount of dynamic range.

■ Audio settings G)AUDIO SET

Use this feature to adjust the overall audio settings of this unit.

Muting type MUTE TYP.

Use this feature to adjust how much the mute function reduces the output volume (see page 32).

Choices: **FULL**, –20dB

- Select "FULL" to completely mute all the audio
- Select "-20dB" to reduce the current volume by 20 dB.

Audio delay A. DELAY

Use this feature to delay the sound output and synchronize it with the video image. This may be necessary when using certain LCD monitors or projectors.

Control range: 0 to 160 ms

Control step: 1 ms

Tone bypass TC.BYPASS

Use this feature to select whether audio output bypasses tone control circuitry when "TREBLE" and "BASS" are set to 0 dB (see page 31).

Choices: **AUTO**, OFF

- Select "AUTO" if you want signals to bypass tone control circuitry to provide the purest signal possible.
- Select "OFF" if you do not want signals to bypass tone control circuitry.

2 INPUT MENU

Use this menu to reassign the input jacks, select the input mode or rename the input source.

Input assignment

A) INPUT ASSIGN

Use this feature to assign the input jacks according to the component to be used if the initial settings of this unit do not correspond to your needs. Change the following parameters to reassign the respective jacks and effectively connect more components.

Once the input jacks are reassigned, you can select the corresponding component by using the INPUT selector on the front panel (or the input selector buttons on the remote control).

For COMPONENT VIDEO jacks A, B and C

C.V[A]

C.V[B]

C.V[C]

Choices: [A] **DVD**, DTV/CBL, V-AUX, DVR

[B] DVD, **DTV/CBL**, V-AUX, DVR

[C] DVD, DTV/CBL, V-AUX, DVR

For OPTICAL INPUT jacks 1 and 2

IN (1)

IN (2)

Choices: (1) CD, MD/CDR, **DVD**, DTV/CBL, V-AUX, DVR

(2) CD, MD/CD-R, DVD, **DTV/CBL**, V-AUX,

For COAXIAL INPUT jack 3 COAXIAL IN (3)

Choices: (3) CD, MD/CD-R, DVD, DTV/CBL, V-AUX, DVR

- You cannot select a specific item more than once for the same type of jack.
- When you connect a component to both the DIGITAL INPUT (COAXIAL) and DIGITAL INPUT (OPTICAL) jacks, priority is given to the signals input at the DIGITAL INPUT (COAXIAL) jack.

■ Input mode B) INPUT MODE

Use this feature to set this unit to reset "INPUT MODE" back to "AUTO" (see page 33) regardless of the previous setting or to recall the last input mode ("AUTO", "DTS", or "ANALOG") used for that source whenever you turn on this unit.

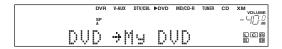
Choices: AUTO, LAST

- Select "AUTO" to reset "INPUT MODE" back to "AUTO" (see page 33) regardless of the previous setting whenever you turn on this unit. This unit automatically selects input signals in the following order:
 - (1) Digital signals
 - (2) Analog signals
- Select "LAST" to set this unit to automatically recall the last input mode ("AUTO", "DTS", or "ANALOG") used for that source whenever you turn on this unit.

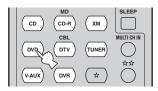
■ Input rename COINPUT RENAME

Use this feature to change the name of the input source that appears in the front panel display.

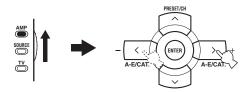
The following is an example where "DVD" is renamed "My DVD".



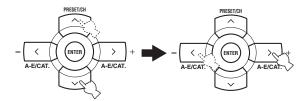
1 Press one of the input selector buttons on the remote control to select the input source you want to change the name of.



2 Set the component selector switch to AMP and then press </br>
//> on the remote control to place the "_" (underscore) under the space or the character you want to edit.



3 Press ∧ / ∨ to select the character you want to use and then press < / > to move to the next space.



Notes

- You can use up to 8 characters for each input.

A to Z, a space, 0 to 9, a space, a to z, a space, symbols (#, *, -, +, etc.)

- 4 Repeat steps 1 through 3 to rename each input source.
- 5 Press SET MENU on the remote control to exit from "INPUT RENAME".



■ Volume Trim DOVOLUME TRIM

Use this feature to adjust the level of the signal input at each jack. This is useful if you want to balance the level of each input source to avoid sudden changes in volume when switching between input sources.

Choices: CD, MD/CD-R, TUNER, DVD, DTV/CBL, V-AUX, DVR

Control range: -6.0 to 6.0 dB Control step: 1.0 dB

Initial setting: 0.0 dB

3 OPTION MENU

Use this menu to adjust the optional system parameters.

■ Display settings ADDISPLAY SET

Dimmer DIMMER

Use this feature to adjust the brightness of the front panel display.

Control range: -4 to 0

Control step: 1

- Press < to make the front panel display dimmer.
- Press > to make the front panel display brighter.

■ Memory guard B) MEMORY GUARD

Use this feature to prevent accidental changes to DSP program parameter values and other system settings. Choices: **OFF**, ON

- Select "OFF" to turn off the "MEMORY GUARD" feature.
- Select "ON" to protect:
 - DSP program parameters
 - All "SET MENU" items
 - All speaker levels

Note

When "MEMORY GUARD" is set to "ON", you cannot select and adjust any other "SET MENU" items.

■ Parameter initialization COPARAM. INI

Use this feature to initialize the parameters of each sound field program within a sound field program group. When you initialize a sound field program group, all of the parameter values within that group revert to their initial factory settings.

Press the corresponding sound field program selector buttons on the remote control to select the sound field program that you want to initialize.

Choices: STEREO, MUSIC, ENTERTAINMENT, MOVIE THEATER, STANDAND

Notes

- You cannot automatically revert to the previous parameter settings once you initialize a sound field program group.
- You cannot separately initialize individual sound field programs.
- You cannot initialize any sound field program groups when "MEMORY GUARD" is set to "ON".

■ Zone set D)MULTI ZONE

Use this feature to specify the location of speakers connected to the SPEAKERS B terminals of this unit.

Speaker B setting SP B

Use this feature to select the location of the front speakers connected to the SPEAKERS B terminals.

Choices: **FRONT**, ZONE B

- Select "FRONT" to turn on or off SPEAKERS A and B
 when the speakers connected to the SPEAKERS B
 terminals are set in the main zone.
- Select "ZONE B" if the speakers connected to the SPEAKERS B terminals are set in another zone. If SPEAKERS A is turned off and SPEAKERS B is turned on, all the speakers in the main zone are muted and this unit outputs sound at the SPEAKERS B terminals only.

Notes

- If you connect headphones to the PHONES jack of this unit, the sound is output from both headphones and the SPEAKERS B terminals when "SP B" is set to "ZONE B".
- If a DSP program is selected when "SP B" is set to "ZONE B", this unit automatically enters the Virtual CINEMA DSP mode (see page 42).

XM Radio setting EDXM RADIO SET (U.S.A model only)

XM Radio antenna XM ANT.

Use this feature to check the current reception level of the XM Connect-and-Play digital antenna accessory connected to the XM jack of this unit (see page 51). For the best reception, orient the XM Connect-and-Play digital antenna accessory so that a value of 60% or more is displayed here.

Display status: NONE, 0 to 100%

Notes

- "NONE" is displayed if the XM Connect-and-Play digital antenna accessory is not connected to this unit. In this case, check the antenna connections (see page 51).
- The "XM ANT." parameter cannot be adjusted by using the remote control. Instead, you need to adjust the orientation of the XM Connect-and-Play digital antenna accessory connected to the XM jack of this unit for a better percentage of the reception level.

XM Radio information display scroll SCROLL

Use this feature to set whether to display the XM Satellite Radio information in the front panel display in continuous manner pr by 14 alphanumeric characters at once (see page 60).

Choices: CONT, ONCE

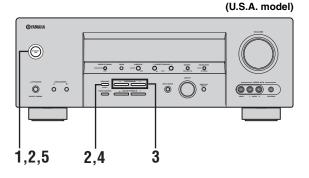
- Select "CONT" to display the XM Satellite Radio information in the front panel display in a continuous manner.
- Select "ONCE" to display the XM Satellite Radio information in the front panel display by 14 alphanumeric characters at once.

ADVANCED SETUP

This unit has additional menus that are displayed in the front panel display. The advanced setup menu offers additional operations to adjust and customize the way this unit operates. Change the initial settings (indicated in bold under each parameter) to reflect the needs of your listening environment.

Notes

- The settings you make are reflected next time you turn on this unit by pressing STANDBY/ON on the front panel (or POWER on the remote control) (see page 26).
- All the other operations cannot be made while you are using the advanced setup menu.
- The advanced setup menu is only available in the front panel display.



1 Press STANDBY/ON on the front panel to set this unit to the standby mode.



Press and hold STRAIGHT (EFFECT) on the front panel and then press STANDBY/ON to turn on this unit.

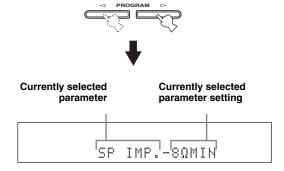
This unit turns on, and the advanced setup menu appears in the front panel display.



Press the PROGRAM
/ I >> buttons on the front panel repeatedly to select the parameter you want to adjust.

The name of the selected parameter appears in the front panel display.

See page 85 for a complete list of available parameters.



Press STRAIGHT (EFFECT) on the front panel repeatedly to change the selected parameter setting.



5 Press STANDBY/ON on the front panel to save the new setting and set this unit to the standby mode.



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The settings you made are reflected next time you turn on this unit.

■ Speaker impedance SP IMP.

Use this feature to set the speaker impedance of this unit so that it matches that of your speakers.

Choices: **8** Ω **MIN**, 6 Ω MIN

- Select "8 Ω MIN" to set the speaker impedance to 8 Ω .
- Select " 6Ω MIN" to set the speaker impedance to 6Ω .

SP IMP.	Speaker	Impedance level	
	Front	If you use one set (A or B), the impedance of each speaker must be 8 Ω or higher.	
8ΩΜΙΝ	Hom	If you use two sets (A and B), the impedance of each speaker must be 16Ω or higher.*	
	Center	The immediance of each	
	Surround	 The impedance of each speaker must be 8 Ω or higher. 	
	Surround back	_ Inglier.	
	Front	If you use one set (A or B), the impedance of each speaker must be 6 Ω or higher.	
6ΩΜΙΝ	Hom	If you use two sets (A and B), the impedance of each speaker must be 12Ω or higher.	
	Center	The immediance of soci	
	Surround	 The impedance of each speaker must be 6 Ω or higher. 	
	Surround back		

^{*} The Canada model cannot use two separate speaker systems (A and B) simultaneously when "SP IMP." is set to "8ΩMIN".

■ Factory presets PRESET

Use this feature to reset all the parameters of this unit to the initial factory settings (see page 91).

Choices: CANCEL, RESET

- Select "CANCEL" not to reset any parameters of this
- Select "RESET" to reset the parameters of this unit.

Notes

- This setting completely resets all the parameters of this unit including the "SET MENU" parameters. However, the advanced setup menu parameters will not be initialized.
- The initial factory settings are activated next time you turn on this unit.

■ Remote control AMP ID REMOTE AMP

Use this feature to set the AMP ID of this unit for remote control recognition (see page 89).

Choices: **ID1**. ID2

- Select "ID1" when the remote control AMP ID library code is set to "00001".
- Select "ID2" when the remote control AMP ID library code is set to "00002".

Note

You need to set the corresponding remote control AMP library code for the remote control (see page 89).

■ Remote control TUNER ID REMOTE TUN

Use this feature to set the TUNER ID of this unit for remote control recognition (see page 89).

Choices: ID1, ID2

- Select "ID1" when the remote control TUNER ID library code is set to "81916".
- Select "ID2" when the remote control TUNER ID library code is set to "81917".

Note

You need to set the corresponding remote control TUNER library code for the remote control (see page 89).

■ Remote control XM ID REMOTE XM (U.S.A. model only)

Use this feature to set the XM ID of this unit for remote control recognition (see page 90).

Choices: ID1, ID2

- Select "ID1" when the remote control XM ID library code is set to "81918".
- Select "ID2" when the remote control XM ID library code is set to "81919".

Note

You need to set the corresponding remote control XM library code for the remote control (see page 89).

■ Tuner frequency step TU (Asia and General models only)

Use this feature to set the tuner frequency step according to the frequency spacing in your area.

Choices: **AM10/FM100**, AM9/FM50

- Select "AM10/FM100" for North, Central and South America
- Select "AM9/FM50" for all other areas.

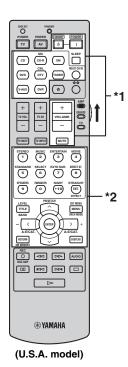
REMOTE CONTROL FEATURES

In addition to controlling this unit, the remote control can also operate other audiovisual components made by YAMAHA and other manufacturers. To control your TV or other components, you must set the appropriate remote control code for each input source (see page 88).

Controlling this unit, a TV, or other components

■ Controlling this unit

Set the component selector switch to AMP to control this unit.

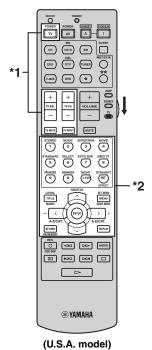


Notes

- *1 These buttons always control this unit regardless of the component selector switch position.
- *2 These buttons control this unit only when the component selector switch is set to AMP.

Controlling a TV

Set the component selector switch to TV to control your TV. To control your YV, you must set the appropriate remote control code for DTV/CBL or ** (see page 88). When you set the remote control codes for both DTV/CBL and **, priority is given to the one set for DTV/CBL.



Notes

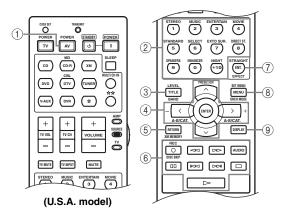
*1 These buttons always control your TV regardless of the component selector switch position.

component selector sv	rich position.
Remote control	Digital TV/Cable TV
TV POWER	Turns on or off the power.
TV VOL +/-	Increases or decreases the volume level.
TV CH +/-	Changes the channel number.
TV MUTE	Mutes the audio output.
TV INPUT	Changes the input source.

^{*2} These buttons control your TV only when the component selector switch is set to TV. For details, see the "Digital TV/ Cable TV" column on page 87.

Controlling other components

Set the component selector switch to SOURCE to control other components selected with the input selector buttons, $\,\dot{\,}_{\,\dot{\,}}\,$, or $\,\dot{\,}_{\,\dot{\,}}\,\dot{\,}_{\,\dot{\,}}\,$. You must set the appropriate remote control code for each input source (see page 88). The following table shows the function of each control button used to control other components assigned to each input selector button, $\,\dot{\,}_{\,\dot{\,}}\,$, and $\,\dot{\,}_{\,\dot{\,}}\,\dot{\,}_{\,\dot{\,}}\,$. Be advised that some buttons may not correctly operate the selected component.



	Remote control	DVD player/ recorder	VCR	Digital TV/ Cable TV	LD player	CD player	MD/CD recorder	Tuner
1	AV POWER	Power *1	Power *1	Power *2	Power *1	Power *1	Power *1	Power *1
2	1-9, 0, +10	Numeric buttons	Numeric buttons	Numeric buttons	Numeric buttons	Numeric buttons	Numeric buttons	Preset stations (1-8)
3	TITLE	Title						Band
4	PRESET/ CH ^	Up	VCR channel up	Up				Preset up (1-8)
	PRESET/ CH 🗸	Down	VCR channel down	Down				Preset down (1-8)
	A-E/CAT. ⟨	Left		Left				Preset down (A-E)
	A-E/CAT. ➤	Right		Right				Preset up (A-E)
	ENTER	Enter		Enter				
(5)	RETURN	Return		Return				
6	REC/ DISC SKIP	Disc skip (player) Rec (recorder) *3	Rec *3	Rec *2*3		Disc skip	Rec *3	
	\triangleright	Play	Play	Play *2	Play	Play	Play	
	44	Search backward	Search backward	Search backward *2	Search backward	Search backward	Search backward	
	$\triangleright \triangleright$	Search forward	Search forward	Search forward *2	Search forward	Search forward	Search forward	
	AUDIO	Audio	Audio	Audio *2	Sound			
	00	Pause	Pause	Pause *2	Pause	Pause	Pause	
	M	Skip backward	Skip backward	Skip backward *2	Skip backward	Skip backward	Skip backward	
	\bowtie	Skip forward	Skip forward	Skip forward *2	Skip forward	Skip forward	Skip forward	
		Stop	Stop	Stop *2	Stop	Stop	Stop	
7	ENT.	Title/Index	Enter	Enter	Chapter/Time	Index	Index	
8	MENU	Menu		Menu				
9	DISPLAY	Display	Display	Display	Display	Display	Display	

^{*1} This button is operational only when the original remote control supplied with the component has a POWER button.

^{*2} These buttons control your VCR or DVD recorder only when you set the appropriate remote control code for DVR (see page 88).

^{*3} When you use this button to record a source, press it twice repeatedly to prevent a malfunction.

Setting remote control codes

You can control your TV and other components by setting the appropriate remote control code for each input source. For a complete list of available remote control codes, refer to "LIST OF REMOTE CONTROL CODES" at the end of this manual.

The following table shows the default component in the "Library" (component category) column and the remote control code for each input source.

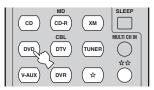
Remote Control Code Default Settings

Input source	Library (component category)	omponent Manufacturer	
CD	CD	YAMAHA	61907
MD/CD-R	MD	YAMAHA	70888
XM	TUNER	YAMAHA	81918
DVD	DVD	YAMAHA	40539
DTV/CBL	-	_	-
TUNER	TUNER	YAMAHA	81916
V-AUX	-	_	-
DVR	DVR	YAMAHA	51544
☆	-	_	-
	-	_	_

Note

You may not be able to operate your YAMAHA component even if a YAMAHA remote control code is initially set as listed above. In this case, try setting other YAMAHA remote control codes.

1 Press one of the input selector buttons or ☆/☆☆ to select the component you want to set up.



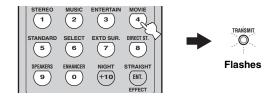
Press CODE SET using a ballpoint pen or a similar object.

The TRANSMIT indicator on the remote control flashes twice.



3 Press the numeric buttons (0 to 9) to enter the five-digit remote control code for the component to be used.

The TRANSMIT indicator on the remote control flashes twice, and the remote control code for the selected component is set.



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Refer to "LIST OF REMOTE CONTROL CODES" at the end of this manual.

- If the manufacturer of your component has more than one code, try each of them until you find the correct one.
- If you do not press any buttons within 30 seconds in step 3, the setup procedure is canceled. If this happens, repeat the setup procedure.
- If you enter the code number "9980", the remote control code previously set for the selected component is cleared.

Setting library codes

You can operate multiple YAMAHA receivers or amplifiers in the same room with the supplied remote control simultaneously. Set the appropriate library code to select and operate the desired component with the supplied remote control.

Setting remote control AMP ID library codes

Select one of the following codes to set the remote control AMP ID library code for the component you want to use.

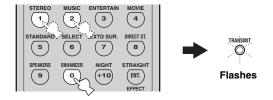
Press CODE SET using a ballpoint pen or a similar object.

The TRANSMIT indicator on the remote control flashes twice.



Press the numeric buttons to enter the code number "00001" or "00002".

The TRANSMIT indicator on the remote control flashes twice, and the AMP ID library code is changed.



AMP ID library code *1	Function	Remote control AMP ID *2
00001 (initial setting)	To operate this unit using the default code.	ID1 (initial setting)
00002	To operate this unit using an alternative code.	ID2

^{*1} The remote control setting

Notes

- You need to set the corresponding remote control AMP ID
 of this unit in the advanced setup (see page 85).
- When using multiple YAMAHA receivers/amplifiers, you
 may be able to operate the other components
 simultaneously with the default code setting. In this case,
 set one of the alternative codes to operate this unit
 separately.

Setting remote control TUNER ID library codes

Select one of the following codes to set the remote control TUNER ID library code for the component you want to

1 Press TUNER to select "TUNER" as the input source.



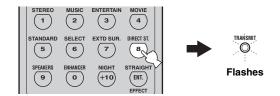
2 Press CODE SET using a ballpoint pen or a similar object.

The TRANSMIT indicator on the remote control flashes twice.



3 Press the numeric buttons to enter the code number "81916" or "81917".

The TRANSMIT indicator on the remote control flashes twice, and the TUNER ID library code is changed.



TUNER ID library code *1	Function	Remote control TUNER ID *2
81916 (initial setting)	To operate this unit using the default code.	ID1 (initial setting)
81917	To operate this unit using an alternative code.	ID2

^{*1} The remote control setting

- You need to set the corresponding remote control TUNER ID of this unit in the advanced setup(see page 85).
- When using multiple YAMAHA receivers/amplifiers, you
 may be able to operate the other components
 simultaneously with the default code setting. In this case,
 set one of the alternative codes to operate this unit
 separately.

^{*2} The setting of this unit (see page 85)

^{*2} The setting of this unit (see page 85)

Setting remote control XM ID library codes (U.S.A. model only)

Select one oF the following codes to set the remote control XM ID library code for the component you want to use.

1 Press XM to select "XM" as the input source.



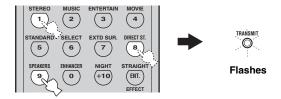
2 Press CODE SET using a ballpoint pen or a similar object.

The TRANSMIT indicator on the remote control flashes twice.



3 Press the numeric buttons to enter the code number "81918" or "81919".

The TRANSMIT indicator on the remote control flashes twice, and the XM ID library code is changed.



XM ID library code *1	Function	Remote control XM ID *2
81918 (initial setting)	To operate this unit using the default code.	ID1 (initial setting)
81919	To operate this unit using an alternative code.	ID2

^{*1} The remote control setting

Notes

- You need to set the corresponding remote control XM ID of this unit in the advanced setup(see page 85).
- When using multiple YAMAHA receivers/amplifiers, you
 may be able to operate the other components
 simultaneously with the default code setting. In this case,
 set one of the alternative codes to operate this unit
 separately.

Resetting all remote control codes

Use this feature to clear all the remote control codes previously set and reset all of them to the initial factory settings.

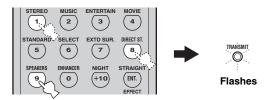
1 Press CODE SET using a ballpoint pen or a similar object.

The TRANSMIT indicator on the remote control flashes twice.



Press the numeric buttons to enter the code number "9981".

The TRANSMIT indicator on the remote control flashes twice, and all the remote control codes previously set are cleared and reset to the initial factory settings.



<u>``</u>@ʻ:

If you do not press any buttons within 30 seconds after step 2, the clearing process is canceled. In this case, repeat the clearing procedure.

^{*2} The setting of this unit (see page 85)

RESETTING THE SYSTEM

Use this feature to reset all the parameters of this unit to the initial factory settings.

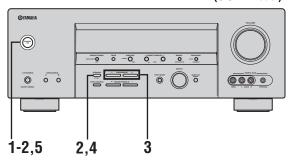
Notes

- This procedure completely resets all the parameters of this unit including the "SET MENU" parameters. However, the advanced setup menu parameters will not be initialized.
- The initial factory settings are activated next time you turn on this unit.

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To cancel the initialization procedure at any time without making any changes, press STANDBY/ON on the front panel (or STANDBY on the remote control) to set this unit to the standby mode.





1 Press STANDBY/ON on the front panel to set this unit to the standby mode.



Press and hold STRAIGHT (EFFECT) on the front panel and then press STANDBY/ON to turn on this unit.

This unit turns on, and the advanced setup menu appears in the front panel display.

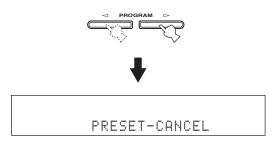




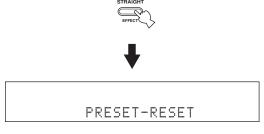




3 Press the PROGRAM
/ ▷ buttons on the front panel to select "PRESET".



4 Press STRAIGHT (EFFECT) on the front panel repeatedly to select "RESET".



`\\\

Select "CANCEL" to cancel the initialization procedure without making any changes.

5 Press STANDBY/ON on the front panel to confirm your selection and set this unit to the standby mode.



TROUBLESHOOTING

Refer to the table below when this unit does not function properly. If the problem you are experiencing is not listed below or if the instruction below does not help, set this unit to the standby mode, disconnect the power cable, and contact the nearest authorized YAMAHA dealer or service center.

■ General

Problem	Cause	Remedy	See page
This unit fails to turn on or enters the	The power cable is not connected or the plug is not completely inserted.	Connect the power cable firmly.	_
standby mode soon after the power is turned on.	The speaker impedance setting is incorrect.	Set the speaker impedance to match your speakers.	25
	The protection circuitry has been activated.	Make sure that all speaker wire connections on this unit and on all speakers are secure and that the wire for each connection does not touch anything other than its respective connection.	13
	This unit has been exposed to a strong external electric shock (such as lightning or strong static electricity).	Set this unit to the standby mode, disconnect the power cable, plug it back in after 30 seconds and then use it normally.	_
No sound	Incorrect input or output cable connections.	Connect the cables properly. If the problem persists, the cables may be defective.	18-24
	"INPUT MODE" is set to "DTS" or "ANALOG".	Set "INPUT MODE" to "AUTO".	33
	No appropriate input source has been selected.	Select an appropriate input source with the INPUT selector on the front panel (or the input selector buttons on the remote control) and MULTI CH INPUT on the front panel (or MULTI CH IN on the remote control).	30, 37
	Speaker connections are not secure.	Secure the connections.	13
	The front speakers to be used have not been selected properly.	Select the set of front speakers with SPEAKERS A/B on the front panel or SPEAKERS on the remote control.	30
	The volume is turned down.	Turn up the volume.	_
	The sound is muted.	Press MUTE or VOLUME +/- on the remote control to resume audio output and then adjust the volume.	32
	"INPUT MODE" is set to "ANALOG" while playing a source encoded in DTS.	Set "INPUT MODE" to "AUTO" or "DTS".	33
	Signals this unit cannot reproduce are being input from a source component, such as a CD-ROM.	Play a source whose signals can be reproduced by this unit.	_
No picture	The output and input for the picture are connected to different types of video jacks.	Connect your video source components in the same way as you connect your video monitor to this unit.	19

Problem	Cause	Remedy	See page
The sound suddenly	The protection circuitry has been activated	Check that the speaker impedance setting is correct.	25
goes off.	because of a short circuit, etc.	Check that the speaker wires are not touching each other and then turn this unit back on.	_
	The sleep timer has turned off this unit.	Turn on this unit, and play the source again.	_
	The sound is muted.	Press MUTE or VOLUME +/- on the remote control to resume audio output.	32
Sound is heard from the speaker on one	Incorrect cable connections.	Connect the cables properly. If the problem persists, the cables may be defective.	18-24
side only.	Incorrect settings in "SPEAKER LEVEL".	Adjust the "SPEAKER LEVEL" settings.	79
Only the center speaker outputs substantial sound.	When playing a monaural source with a CINEMA DSP program, the source signal is directed to the center channel, and the front and surround speakers output effect sounds.		
No sound is heard from the center	"CENTER" in "SET MENU" is set to "NONE".	Set "CENTER" to "SML" or "LRG".	78
speaker.	One of the HiFi DSP programs (except for 6ch Stereo) has been selected.	Try another sound field program.	62
No sound is heard from the surround	"SUR. LR" in "SET MENU" is set to "NONE".	Set "SUR. LR" to "SML" or "LRG".	78
speakers.	This unit is in the "STRAIGHT" mode and a monaural source is being played back.	Press STRAIGHT (EFFECT) on the front panel so that "STRAIGHT" disappears from the front panel display.	37
No sound is heard from the surround back speaker.	"SUR. LR" in "SET MENU" is set to "NONE" and "SUR. B" is automatically set to "NONE".	Set "SUR. LR" and "SUR. B" to "SML" or "LRG".	78
	"SUR. B" in "SET MENU" is set to "NONE".	Set "SUR. B" to "SML" or "LRG".	78
No sound is heard from the subwoofer.	"BASS OUT" in "SET MENU" is set to "FRNT" when a Dolby Digital or DTS signal is being played.	Set "BASS OUT" to "SWFR" or "BOTH".	79
	"BASS OUT" in "SET MENU" is set to "SWFR" or "FRNT" when a 2-channel source is being played.	Set "BASS OUT" to "BOTH".	79
	The source does not contain low-frequency bass signals.		

Problem	Cause	Remedy	See page
Dolby Digital or DTS sources cannot be played. (Dolby Digital	The connected component is not set to output Dolby Digital or DTS digital signals.	Make an appropriate setting following the operating instructions for your component.	_
or DTS indicator in the front panel display does not light up.)	"INPUT MODE" is set to "ANALOG".	Set "INPUT MODE" to "AUTO" or "DTS".	33
A humming sound is heard.	Incorrect cable connections.	Connect the audio cables firmly. If the problem persists, the cables may be defective.	_
The volume level cannot be increased, or the sound is distorted.	The component connected to the AUDIO OUT (REC) jacks of this unit is turned off.	Turn on the power of the component.	_
The sound effect cannot be recorded.	It is not possible to record the sound effect with a recording component.		
A source cannot be recorded by an analog component connected to the AUDIO OUT (REC) jacks.	The source component is not connected to the analog AUDIO IN jacks of this unit.	Connect the source component to the analog AUDIO IN jacks.	19-21
The sound field parameters and some other settings of this unit cannot be changed.	"MEMORY GUARD" in "SET MENU" is set to "ON".	Set "MEMORY GUARD" to "OFF".	83
This unit does not operate properly.	The internal microcomputer has been frozen by an external electric shock (such as lightning or excessive static electricity) or by a power supply with low voltage.	Disconnect the power cable from the AC wall outlet and then plug it in again after about 30 seconds.	_
"CHECK SP WIRES" appears in the front panel display.	Speaker cables are short-circuited.	Make sure all speaker cables are connected correctly.	13
There is noise interference from digital or radio frequency equipment.	This unit is too close to the digital or high-frequency equipment.	Move this unit further away from such equipment.	_
The picture is disturbed.	The video source uses scrambled or encoded signals to prevent dubbing.		
This unit suddenly enters the standby mode.	The internal temperature becomes too high and the overheat protection circuitry has been activated.	Wait about 1 hour for this unit to cool down and then turn it back on.	_

■ Tuner

	Problem	Cause	Remedy	See page
	FM stereo reception is	The characteristics of FM stereo	Check the antenna connections.	23
	noisy.	broadcasts may cause this problem when the transmitter is too far away or the antenna input is poor.	Try using a high-quality directional FM antenna.	_
			Use the manual tuning method.	45
FM	There is distortion, and clear reception cannot be obtained even with a good FM antenna.	There is multi-path interference.	Adjust the antenna position to eliminate multi-path interference.	_
	The desired station	The signal is too weak.	Use a high-quality directional FM antenna.	_
	cannot be tuned into with the automatic tuning method.		Use the manual tuning method.	45
	Previously preset stations can no longer be tuned into.	This unit has been disconnected for a long period.	Set preset stations	46, 47
	The desired station cannot be tuned into	The signal is weak or the antenna connections are loose.	Tighten the AM loop antenna connections and orient it for the best reception.	_
	with the automatic tuning method.		Use the manual tuning method.	45
AM	There are continuous crackling and hissing noises.	Noises result from lightning, 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.	A TV set is being used nearby.	Move this unit away from the TV set.	_

■ XM Satellite Radio (U.S.A. model only)

If an operation takes longer than usual or an error occurs, one of the following messages may appear in the front panel display. In this case, read the cause and follow the corresponding remedies.

Status message	Cause	Remedy	
CHECK ANTENNA	The XM Connect-and-Play digital antenna is not connected to the XM jack of this unit or does not work properly.	Check the XM Connect-and-Play digital antenna accessory connections and orient it for the best reception level.	51
UPDATING	The XM user encryption code is being updated.	Wait until the encryption code is updated.	_
NO SIGNAL	The signal is too weak.	Check the XM Connect-and-Play digital antenna accessory connections and orient it for the best reception level.	51
LOADING	It takes longer than four seconds for audio or text data to be decoded.	Wait until the decoding process has finished.	_
OFF AIR	The XM Satellite Radio channel you selected is not currently broadcasting any signals.	Check the channel number again or select another XM Satellite Radio channel.	_
<xm></xm>	The Channel Station ID (SID) is no longer available.		
/	No artist name or song title is available.		
<cat></cat>	No channels are available for the selected category.	Select another channel category by pressing CATEGORY on the front panel (or A-E/CAT. on the remote control) repeatedly.	56

TROUBLESHOOTING

■ Remote control

Problem	Cause	Remedy	See page
The remote control does not work nor function properly.	Wrong distance or angle.	The remote control functions within a maximum range of 6 m (20 ft) and no more than 30 degrees offaxis from the front panel.	8
	Direct sunlight or lighting (from an inverter type of fluorescent lamp, etc.) is striking the remote control sensor of this unit.	Reposition this unit.	_
	The batteries are weak.	Replace all batteries.	3
	The remote control code is not correctly set.	Set the remote control code correctly using "LIST OF REMOTE CONTROL CODES" at the end of this manual.	88
		Try setting another code for the same manufacturer using "LIST OF REMOTE CONTROL CODES" at the end of this manual.	88
	The library code of the remote control and the remote control ID of this unit do not match.	Match the remote control ID of this unit with the corresponding remote control library code.	85, 89
	Even if the remote control code is correctly set, there are some models that do not respond to the remote control.		

GLOSSARY

Audio information

Dolby Digital

Dolby Digital is a digital surround sound system that gives you completely independent multi-channel audio. With 3 front channels (front L/R and center), and 2 surround stereo channels, Dolby Digital provides 5 full-range audio channels. With an additional channel especially for bass effects, called LFE (Low Frequency Effect), the system has a total of 5.1-channels (LFE is counted as 0.1 channel). By using 2-channel stereo for the surround speakers, more accurate moving sound effects and surround sound environment are possible than with Dolby Surround. The wide dynamic range from maximum to minimum volume reproduced by the 5 full-range channels and the precise sound orientation generated using digital sound processing provide listeners with unprecedented excitement and realism. With this unit, any sound environment from monaural up to a 5.1-channel configuration can be freely selected for your enjoyment.

■ Dolby Digital EX

Dolby Digital EX creates 6 full-bandwidth output channels from 5.1-channel sources. This is done using a matrix decoder that derives 3 surround channels from the 2 in the original recording. For the best results, Dolby Digital EX should be used with movie sound tracks recorded with Dolby Digital Surround EX. With this additional channel, you can experience more dynamic and realistic moving sound especially with scenes with "flyover" and "fly-around" effects.

Dolby Pro Logic II

Dolby Pro Logic II is an improved technique used to decode vast numbers of existing Dolby Surround sources. This new technology enables a discrete 5-channel playback with 2 front left and right channels, 1 center channel, and 2 surround left and right channels instead of only 1 surround channel for conventional Pro Logic technology. There are three modes available: "Music mode" for music sources, "Movie mode" for movie sources and "Game mode" for game sources.

Dolby Pro Logic IIx

Dolby Pro Logic IIx is a new technology enabling discrete multi-channel playback from 2-channel or multi-channel sources. There are three modes available: "Music mode" for music sources, "Movie mode" for movie sources (for 2-channel sources only) and "Game mode" for game sources.

■ Dolby Surround

Dolby Surround uses a 4-channel analog recording system to reproduce realistic and dynamic sound effects: 2 front left and right channels (stereo), a center channel for dialog (monaural), and a surround channel for special sound effects (monaural). The surround channel reproduces sound within a narrow frequency range. Dolby Surround is widely used with nearly all video tapes and laser discs, and in many TV and cable broadcasts as well. The Dolby Pro Logic decoder built into this unit employs a digital signal processing system that automatically stabilizes the volume on each channel to enhance moving sound effects and directionality.

■ DTS 96/24

DTS 96/24 offers an unprecedented level of audio quality for multi-channel sound on DVD video, and is fully backward-compatible with all DTS decoders. "96" refers to a 96 kHz sampling rate compared to the typical 48 kHz sampling rate. "24" refers to 24-bit word length. DTS 96/24 offers sound quality transparent to the original 96/24 master, and 96/24 5.1-channel sound with full-quality full-motion video for music programs and motion picture soundtracks on DVD video.

DTS (Digital Theater Systems)Digital Surround

DTS digital surround was developed to replace the analog soundtracks of movies with a 6.1-channel digital sound track, and is now rapidly gaining popularity in movie theaters around the world. Digital Theater Systems Inc. has developed a home theater system so that you can enjoy the depth of sound and natural spatial representation of DTS digital surround in your home. This system produces practically distortion-free 6.1-channel sound (technically, front left and right, center, surround left and right and LFE 0.1 (subwoofer) channels for a total of 5.1 channels). This unit incorporates a DTS-ES decoder that enables 6.1-channel reproduction by adding the surround back channel to the existing 5.1-channel format.

■ ITU-R

ITU-R is the radio communication sector of the ITU (International Telecommunication Union). ITU-R recommends a standard speaker placement which is used in many critical listening rooms, especially for mastering purposes.

■ LFE 0.1 channel

This channel reproduces low-frequency signals. The frequency range of this channel is from 20 Hz to 120 Hz. This channel is counted as 0.1 because it only enforces a low-frequency range compared to the full-range reproduced by the other 5/6 channels in Dolby Digital or DTS 5.1/6.1-channel systems.

■ Neo:6

Neo:6 decodes the conventional 2-channel sources for 6-channel playback by the specific decoder. It enables playback with the full-range channels with higher separation just like digital discrete signal playback. There are two modes available: "Music mode" for music sources and "Cinema mode" for movie sources.

■ Neural Surround

Neural Surround™ represents the latest advancement in surround technology and has been adopted by XM Satellite Radio for digital radio broadcast of surround recordings and live events in surround sound. Neural Surround™ employs psychoacoustic frequency domain processing which allows delivery of a more detailed sound stage with superior channel separation and localization of audio elements. System playback is scalable from 5.1 to 7.1 multi-channel surround playback.

■ PCM (Linear PCM)

Linear PCM is a signal format under which an analog audio signal is digitized, recorded and transmitted without using any compression. This is used as a method of recording CDs and DVD audio. The PCM system uses a technique for sampling the size of the analog signal per very small unit of time. Standing for "Pulse Code Modulation", the analog signal is encoded as pulses and then modulated for recording.

Sampling frequency and number of quantized bits

When digitizing an analog audio signal, the number of times the signal is sampled per second is called the sampling frequency, while the degree of fineness when converting the sound level into a numeric value is called the number of quantized bits. The range of rates that can be played back is determined based on the sampling rate, while the dynamic range representing the sound level difference is determined by the number of quantized bits. In principle, the higher the sampling frequency, the wider the range of frequencies that can be played back, and the higher the number of quantized bits, the more finely the sound level can be reproduced.

Video information

■ Component video signal

With the component video signal system, the video signal is separated into the Y signal for the luminance and the PB and PR signals for the chrominance. Color can be reproduced more faithfully with this system because each of these signals is independent. The component signal is also called the "color difference signal" because the luminance signal is subtracted from the color signal. A monitor with component input jacks is required in order to output component signals.

Composite video signal

With the composite video signal system, the video signal is composed of three basic elements of a video picture: color, brightness and synchronization data. A composite video jack on a video component transmits these three elements combined.

■ S-video signal

With the S-video signal system, the video signal normally transmitted using a pin cable is separated and transmitted as the Y signal for the luminance and the C signal for the chrominance through the S-video cable. Using the S VIDEO jack eliminates video signal transmission loss and allows recording and playback of even more beautiful images.

Sound field program information

■ CINEMA DSP

Since the Dolby Surround and DTS systems were originally designed for use in movie theaters, their effect is best felt in a theater having many speakers designed for acoustic effects. Since home conditions, such as room size, wall material, number of speakers, and so on, can differ so widely, it is inevitable that there are differences in the sound heard. Based on a wealth of actually measured data, YAMAHA CINEMA DSP uses YAMAHA original sound field technology to combine Dolby Pro Logic, Dolby Digital and DTS systems to provide the audiovisual experience of movie theater in the listening room of your own home.

■ SILENT CINEMA

YAMAHA has developed a natural, realistic sound effect DSP algorithm for headphones. Parameters for headphones have been set for each sound field so that accurate representations of all the sound field programs can be enjoyed on headphones.

Virtual CINEMA DSP

YAMAHA has developed a Virtual CINEMA DSP algorithm that allows you to enjoy DSP sound field surround effects even without any surround speakers by using virtual surround speakers. It is even possible to enjoy Virtual CINEMA DSP using a minimal two-speaker system that does not include a center speaker.

SPECIFICATIONS

AUDIO SECTION	VIDEO SECTION
Minimum RMS Output Power for Front, Center, Surround,	Video Signal Type PAL/NTSC
Surround back	Signal to Noise Ratio
20 Hz to 20 kHz, 0.06% THD, 8 Ω	• Frequency Response (MONITOR OUT) Component 5 Hz to 60 MHz, -3 dB
1 kHz, 10% THD, 8 Ω	FM SECTION
• Dynamic Power (IHF) 8/6/4/2 Ω	 Tuning Range [U.S.A. and Canada models]
• Maximum Output Power [Europe model] 1 kHz, 0.7% THD, 4 Ω	[Other models]
• IEC Output Power [Europe and Asia models]	• Usable Sensitivity (IHF) 1.0 μV (11.2 dBf)
1 kHz, 0.06% THD, 8 Ω	Signal to Noise Ratio (IHF) Mono/Stereo
20 Hz to 20 kHz, 8 Ω	Harmonic Distortion (1 kHz) Mono/Stereo
 Frequency Response CD terminal to Front L/R	Stereo Separation (1 kHz)
Total Harmonic Distortion	• Frequency Response
CD, etc. to Front L/R (20 Hz to 20 kHz, 45 W, 8 Ω)	AM SECTION
Signal to Noise Ratio (IHF-A Network) CD (250 mV) to Front L/R, Effect Off	Tuning Range [U.S.A. and Canada models]
• Residual Noise (IHF-A Network) Front L/R	$[Other models] \\ \\ 531 to 1611 kHz \\ • Usable Sensitivity \\ \\ 300 \mu V/m$
• Channel Separation (1 kHz/10 kHz)	• Usable Sensitivity
CD (5.1 k Ω terminated) to Front L/R 60 dB/45 dB or more	GENERAL
Tone Control (Front L/R) BASS Boost/Cut	Power Supply [U.S.A. and Canada models]
• Phones Output	[China model]
Input Sensitivity/Input Impedance	[Korea model]
CD, etc	[General model]
MULTI CH INPUT	[Asia model] AC 220/230–240 V, 50/60 Hz
• Output Level/Output Impedance REC OUT	Power Consumption [U.S.A. and Canada models]
	Standby Power Consumption 0.1 W or less
	AC Outlets [U.K. and Australia models]
	• Dimensions (W x H x D)
	• Weight 10.5 kg (23.1 lbs)

LIST OF REMOTE CONTROL CODES

				DISH NETWO	RK SYSTEM	UNIDEN	10052, 10074,
CABLE T\	/ RECEIVER	CABLE/P\	/R		10775, 11005,		10238, 10722,
ABC	10003, 10008,	COMBINA	TION		11170, 11505,		10724
	10014, 10017,	AMERICAST	10899		11775	US DIGITAL	11535
	10033	DIGEO	11187	DISHPRO	10775, 11005,	USDTV	11535
AMERICAST	10899	GENERAL INS			11505, 11775	VOOM	10869
BELL & HOW	ELL		10476, 10810	ECHOSTAR	10269, 10280,	ZENITH	11856
	10014	JERROLD	10476, 10810		10775, 11005,	HDTV DEC	ODDED
BELL SOUTH		MOTOROLA	10476, 10810,		11170, 11505,		
CLEARMAST			11187, 11376		11775	ACCURIAN	11653
	10883	PACE	10237, 11877	EXPRESSVU		EPSON	11563, 11650
CLEARMAX	10883	PIONEER	10877, 11877	GE	10392, 10566	LG	11415
COOLMAX	10883	RCA	11256	GENERAL INS		MACRO IMAC	GE TECHNOLOGY
DIGEO DIGI	11187 10637	SCIENTIFIC A		COL	10869	MOTOROLA	11383 11363
DIRECTOR	10476	20177	10877, 11877	GOI GOODMANS	10775, 11775 11246	MOTOROLA MYHD	11383
DUMONT	10637	SONY SUPERCABLE	11006	HISENSE	11535	PANASONIC	11120
GENERAL IN		SUPERCABLE		HITACHI	10819, 11250	PIONEER	11010
GENERALE IIV	10003, 10276,	THOMSON	10276 11256	HOMECABLE		PRINCETON	
	10476, 10810	ZENITH	10899	HTS	10775, 11775	SAMSUNG	11190, 11490
GOLDSTAR	10144	ZLIVIIII	10077	HUGHES	10749, 11442,	SASEM	11641
HAMLIN	10009, 10273				11749	SENSORY SCI	ENCE
I3 MICRO	11602	DBS/PVR		HUGHES NET	WORK SYSTEMS		11126
JERROLD	10003, 10012,	COMBINA	TION		10749, 11142,	SHARP	11010
	10014, 10276,	DIRECTV	10099, 10392,		11442, 11443,	SYLVANIA	11563
	10476, 10810		10639, 11076,	** •	11444, 11749	TELEMANN	11604
MACOM	10033		11142, 11377,	ILO	11535	VIEWSONIC	11329
MEMOREX MOTOROLA	10000		11392, 11442,	IQ IO DDIEM	10210 10210	VIZIO	11126
MOTOROLA	10014, 10276, 10476, 10810,		11443, 11444,	IQ PRISM JERROLD	10869		
	11187, 11254,		11640	JVC	10775, 11170,	OTHER VI	DEO
	11376	DISH NETWO		310	11775	ACCESSO	RIES
MULTITECH		DISHPRO	10775, 11505 10775, 11505	LEGEND	10269	ABS	11272
MYRIO	11602	ECHOSTAR	10775, 11303	LG	11226, 11414	ACCURIAN	11653
PACE	10008, 10237,	Lenosma	11505	MAGNAVOX	10722, 10724	ALIENWARE	
	11877	EXPRESSVU		MEMOREX	10269, 10724	CYBERPOWE	R
PANASONIC	10000, 10107		WORK SYSTEMS	MITSUBISHI	10749		11272
PANTHER	10637		11142, 11442,	MOTOROLA	10856, 10869	D-LINK	11554
PARAGON PHILIPS	10000		11443, 11444	NEC NEXT LEVEL	11270	ECS	11553
PIONEER	10317, 11305 10144, 10533,	JVC	11170	PANASONIC	10247, 10701	EPSON	11563, 11650
TIONELK	10877, 11877	MOTOROLA	10869	PAYSAT	10724	GATEWAY HEWLETT PA	11272 CKARD
PULSAR	10000	PHILIPS	11142, 11442	PHILIPS	10099, 10722,	HEWLEIT FA	11267, 11272
QUASAR	10000	PROSCAN RCA	10392 11392		10724, 10749,	HOWARD CO	,
RADIOSHACI		SAMSUNG	11392		10819, 11076,	nowned co.	11272
	10883	SONY	10639, 11640		11142, 11442,	HP	11272
RCA	11256	STAR CHOICE			11749	HUSH	11272
REGAL	10273, 10279	SI III CHOICI	10869	PIONEER	11442	IBUYPOWER	11272
RUNCO	10000		1000)	PROSCAN	10392, 10566	INTERVIDEO	11393
SAMSUNG	10144	0.4==:::=	- DEOE::/	PROTON	11535	KEYSPAN	11344
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	10008, 10017, 10477, 10877,	ALPHASTAR		RCA	10869 10143, 10392,	LEADTEK	11614
	11877	CHAPARRAL		KCA	10566, 10855,	LG	11415
SEJIN	11602	CROSSDIGITA			11392	LINKSYS	11272, 11365 GE TECHNOLOGY
SONY	11006	DIRECTV	11109	REALISTIC	10052	MACKO IMAC	11383
STARCOM	10003	DIRECTV	10099, 10247, 10392, 10566,	SAMSUNG	11108, 11109,	MEDIA CENT	
SUPERCABLE	Ε		10639, 10724,		11142, 11276,	INEDIT CENT	11272
	10276		10749, 10819,		11377, 11442,	MICROSOFT	
SUPERMAX	10883		11076, 11108,		11609	MIND	11272
THOMSON	11256		11109, 11142,	SANYO	11219	MOTOROLA	11363
TOCOM	10012		11377, 11392,	SONY	10639, 11639,	MYHD	11383
TORX	10003		11414, 11442,	CTAR CITATION	11640	NIVEUS MED	
TOSHIBA	10000		11443, 11444,	STAR CHOICE			11272
TRISTAR	10883		11609, 11639,	STS	10210	NORTHGATE	
V2 VIEWMASTE	10883 P 10883		11640, 11749,	TIVO	11142, 11442, 11443, 11444	PANASONIC	
VISION	10883		11856	TOSHIBA	10082, 10749,	PINNACLE SY	STEMS 11268
VORTEX VIE					10790, 10819,	PIONEER	11010
ZENITH	10000, 10525,				11285, 11749	PRINCETON	10113, 10295
	10899			ULTIMATETV	11392, 11640	RICAVISION	

ROKU	11486	CURTIS MATH	iES	JCB	20000	PENNEY	20030, 20047,
SAMSUNG	11190, 11490		20030, 20047,	JENSEN	20761, 20815,		20051, 20060,
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SASEM	11641		20054, 20060,		20817, 21933		20156, 20178,
SENSORY SCI	ENCE		20093, 20145,	JVC	20053, 20069,		21347, 21919,
	11126		20154, 20166,		20160, 20169,		21926
SHARP	11010		20451, 20466,		20731, 21253	PHILCO	20030, 20054
SMC	11456		20702, 21147,	KEC	20180	PHILIPS	20054, 20690,
SONY	11272, 11324,		21347, 21919	KENWOOD	20030, 20859		21154, 21454
	11364	CXC	20180	KLH	20765, 20767,	PILOT	20030
STACK 9	11272	DAEWOO	20092, 20451,		21962	PIONEER	20038, 20166,
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STREAMZAP	11309		20623, 20661,	KTV	20030, 20180		20679, 20866
SYLVANIA	11563		20672, 21661,	LG	20178, 20442,	POLAROID	20765, 20865
SYSTEMAX	11272		21928		20700, 20856,	PORTLAND	20092
TAGAR SYSTI	EMS	DELL	21080, 21178,		21178, 21265	PRIMA	20761, 20783,
	11272		21454	LLOYD'S	21904		20815, 20817,
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TOUCH	11272	DURABRAND	20171 20178		20154, 20156,	PRISM	20051
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VIEWSONIC	11272, 11329		20180, 20463,		20178	PROSCAN	20047, 20466,
VIZIO	11126		21034	MAGNASONIO	2		21347, 21447,
VOODOO	11272	DWIN	20093, 20720,		21928		21922
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ZT GROUP	11272		20774	MAGNAVOX	20030, 20054,	PROTON	20178, 20466
		ELECTROBAN	D		20706, 20802,	PULSAR	20017
			20000		21254, 21454,	QUASAR	20051, 20250,
TV						QUASAK	
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ADVENT		EMEDCON		MADANTZ	20020 20054		
ADVENT	20761, 20783,	EMERSON	20038, 20154,	MARANTZ	20030, 20054,		20030, 20047,
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	20842, 21933		20180, 20236,		20855, 21154,		20180, 21904
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AIKO	20092		20451, 20463,		21454	RCA	20038, 20047,
AIWA	20701		20623, 21928,	MATSUSHITA	20250, 20650		20090, 20679,
AKAI	20030, 20060,		21929, 21944	MAXENT	21755		21047, 21147,
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AMERICA AC	TION	FISHER	20154	MEMOREX	20150, 20154,		21922, 21948,
	20180	FUJITSU	20683, 20809,		20178, 20463,		21953, 21958
AMPRO	20751		20853		21926	REALISTIC	
						KEALISTIC	20030, 20154,
ANAM	20180	FUNAI	20171, 20180,	MGA	20030, 20150,		20178, 20180
AOC	20030		21904		20155, 20178	RUNCO	20017, 20030,
APEX DIGITA		FUTURETECH		MIDLAND			20497, 20603
AFEA DIGITA		PUTUKETECH		MIDLAND	20017, 20047,		
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	20451, 20623,		21147, 21347,		20358, 20836,		20812, 20814,
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AXION BELL & HOW BENQ	21937, 21951, 21952 20171 21937 ELL 20154 21032	GO VIDEO GOLDSTAR GOODMANS GRUNDIG	21919, 21922 20017, 20030 20886 20030, 20178, 21926 20360 20683	MOTOROLA MTC MULTITECH NAD	21917 20700, 20843 20093 20030, 20060 20180 20156, 20178, 20866	SANYO SCOTCH	21959 20463, 21904, 21929, 21935 20088, 20154, 20484, 20799, 20893 20178
AXION BELL & HOW BENQ BOXLIGHT	21937, 21951, 21952 20171 21937 ELL 20154 21032 20893	GO VIDEO GOLDSTAR GOODMANS GRUNDIG GRUNPY	21919, 21922 20017, 20030 20886 20030, 20178, 21926 20360 20683 20180	MOTOROLA MTC MULTITECH	21917 20700, 20843 20093 20030, 20060 20180 20156, 20178, 20866 20030, 20497,	SANYO	21959 20463, 21904, 21929, 21935 20088, 20154, 20484, 20799, 20893 20178 20178, 20180,
AXION BELL & HOW BENQ BOXLIGHT BRADFORD	21937, 21951, 21952 20171 21937 ELL 20154 21032 20893 20180	GO VIDEO GOLDSTAR GOODMANS GRUNDIG GRUNPY HAIER	21919, 21922 20017, 20030 20886 20030, 20178, 21926 20360 20683 20180 21034	MOTOROLA MTC MULTITECH NAD NEC	21917 20700, 20843 20093 20030, 20060 20180 20156, 20178, 20866 20030, 20497, 20882, 21704	SANYO SCOTCH SCOTT	21959 20463, 21904, 21929, 21935 20088, 20154, 20484, 20799, 20893 20178 20178, 20180, 20236
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AXION BELL & HOW BENQ BOXLIGHT BRADFORD BROKSONIC	21937, 21951, 21952 20171 21937 ELL 20154 21032 20893 20180 20180, 20236, 20463, 21929, 21935, 21938 20030	GO VIDEO GOLDSTAR GOODMANS GRUNDIG GRUNPY HAIER HALLMARK HARLEY DAVI	21919, 21922 20017, 20030 20886 20030, 20178, 21926 20360 20683 20180 21034 20178 IDSON 21904 RDON	MOTOROLA MTC MULTITECH NAD NEC NETTV NIKKO NORCENT	21917 20700, 20843 20093 20030, 20060 20180 20156, 20178, 20866 20030, 20497, 20882, 21704 21755 20030, 20092, 20178 20748, 20824	SANYO SCOTCH SCOTT SEARS	21959 20463, 21904, 21929, 21935 20088, 20154, 20484, 20799, 20893 20178 20178, 20180, 20236 20047, 20054, 20154, 20156, 20171, 20178, 21904, 21926
AXION BELL & HOW BENQ BOXLIGHT BRADFORD BROKSONIC CANDLE CARNIVALE	21937, 21951, 21952 20171 21937 ELL 20154 21032 20893 20180 20180, 20236, 20463, 21929, 21935, 21938 20030	GO VIDEO GOLDSTAR GOODMANS GRUNDIG GRUNPY HAIER HALLMARK HARLEY DAVI	21919, 21922 20017, 20030 20886 20030, 20178, 21926 20360 20683 20180 21034 20178 IDSON 21904 RDON 20054	MOTOROLA MTC MULTITECH NAD NEC NETTV NIKKO NORCENT NTC	21917 20700, 20843 20093 20030, 20060 20180 20156, 20178, 20866 20030, 20497, 20882, 21704 21755 20030, 20092, 20178 20748, 20824 20092	SANYO SCOTCH SCOTT	21959 20463, 21904, 21929, 21935 20088, 20154, 20484, 20799, 20893 20178, 20180, 20236 20047, 20054, 20154, 20156, 20171, 20178, 21904, 21926 20093, 20153,
AXION BELL & HOW BENQ BOXLIGHT BRADFORD BROKSONIC CANDLE CARNIVALE CARVER	21937, 21951, 21952 20171 21937 ELL 20154 21032 20893 20180 20180, 20236, 20463, 21929, 21935, 21938 20030 20030 20054	GO VIDEO GOLDSTAR GOODMANS GRUNDIG GRUNPY HAIER HALLMARK HARLEY DAVI HARMAN/KAI	21919, 21922 20017, 20030 20886 20030, 20178, 21926 20360 20683 20180 21034 20178 IDSON 21904 RDON 20054 20180	MOTOROLA MTC MULTITECH NAD NEC NETTV NIKKO NORCENT NTC ONWA	21917 20700, 20843 20093 20030, 20060 20180 20156, 20178, 20866 20030, 20497, 20882, 21704 21755 20030, 20092, 20178 20748, 20824 20092 20180	SANYO SCOTCH SCOTT SEARS	21959 20463, 21904, 21929, 21935 20088, 20154, 20484, 20799, 20893 20178 20178, 20180, 20236 20047, 20054, 20154, 20156, 20171, 20178, 21904, 21926 20093, 20153, 20491, 20688,
AXION BELL & HOW BENQ BOXLIGHT BRADFORD BROKSONIC CANDLE CARNIVALE	21937, 21951, 21952 20171 21937 ELL 20154 21032 20893 20180 20180, 20236, 20463, 21929, 21935, 21938 20030	GO VIDEO GOLDSTAR GOODMANS GRUNDIG GRUNPY HAIER HALLMARK HARLEY DAVI	21919, 21922 20017, 20030 20886 20030, 20178, 21926 20360 20683 20180 21034 20178 IDSON 21904 RDON 20054	MOTOROLA MTC MULTITECH NAD NEC NETTV NIKKO NORCENT NTC	21917 20700, 20843 20093 20030, 20060 20180 20156, 20178, 20866 20030, 20497, 20882, 21704 21755 20030, 20092, 20178 20748, 20824 20092	SANYO SCOTCH SCOTT SEARS	21959 20463, 21904, 21929, 21935 20088, 20154, 20484, 20799, 20893 20178, 20180, 20236 20047, 20054, 20154, 20156, 20171, 20178, 21904, 21926 20093, 20153,
AXION BELL & HOW BENQ BOXLIGHT BRADFORD BROKSONIC CANDLE CARNIVALE CARVER CELEBRITY	21937, 21951, 21952 20171 21937 ELL 20154 21032 20893 20180, 20236, 20463, 21929, 21935, 21938 20030 20030 20054 20000	GO VIDEO GOLDSTAR GOODMANS GRUNDIG GRUNPY HAIER HALLMARK HARLEY DAVI HARMAN/KAI HARVARD HAVERMY	21919, 21922 20017, 20030 20886 20030, 20178, 21926 20360 20683 20180 21034 20178 IDSON 21904 RDON 20054 20180 20054 20180 20093	MOTOROLA MTC MULTITECH NAD NEC NETTV NIKKO NORCENT NTC ONWA	21917 20700, 20843 20093 20030, 20060 20180 20156, 20178, 20866 20030, 20497, 20882, 21704 21755 20030, 20092, 20178 20748, 20824 20092 20180 20154, 20166,	SANYO SCOTCH SCOTT SEARS	21959 20463, 21904, 21929, 21935 20088, 20154, 20484, 20799, 20893 20178 20178, 20180, 20236 20047, 20054, 20154, 20156, 20171, 20178, 21904, 21926 20093, 20153, 20491, 20688, 20689, 20818,
AXION BELL & HOW BENQ BOXLIGHT BRADFORD BROKSONIC CANDLE CARNIVALE CARVER CELEBRITY CELERA	21937, 21951, 21952 20171 21937 ELL 20154 21032 20893 20180, 20236, 20463, 21929, 21935, 21938 20030 20030 20054 20000 20765	GO VIDEO GOLDSTAR GOODMANS GRUNDIG GRUNPY HAIER HALLMARK HARLEY DAVI HARMAN/KAI HARVARD HAVERMY HELIOS	21919, 21922 20017, 20030 20886 20030, 20178, 21926 20360 20683 20180 21034 20178 IDSON 21904 RDON 20054 20180 20093 20865	MOTOROLA MTC MULTITECH NAD NEC NETTV NIKKO NORCENT NTC ONWA OPTIMUS	21917 20700, 20843 20093 20030, 20060 20180 20156, 20178, 20866 20030, 20497, 20882, 21704 21755 20030, 20092, 20178 20748, 20824 20092 20180 20154, 20166, 20250, 20650	SANYO SCOTCH SCOTT SEARS SHARP	21959 20463, 21904, 21929, 21935 20088, 20154, 20484, 20799, 20893 20178 20178, 20180, 20236 20047, 20054, 20154, 20156, 20171, 20178, 21904, 21926 20093, 20153, 20491, 20688, 20689, 20818, 20851, 21917
AXION BELL & HOW BENQ BOXLIGHT BRADFORD BROKSONIC CANDLE CARNIVALE CARVER CELEBRITY	21937, 21951, 21952 20171 21937 ELL 20154 21032 20893 20180, 20236, 20463, 21929, 21935, 21938 20030 20030 20054 20000 20765	GO VIDEO GOLDSTAR GOODMANS GRUNDIG GRUNPY HAIER HALLMARK HARLEY DAVI HARMAN/KAI HARVARD HAVERMY	21919, 21922 20017, 20030 20886 20030, 20178, 21926 20360 20683 20180 21034 20178 IDSON 21904 RDON 20054 20180 20093 20865	MOTOROLA MTC MULTITECH NAD NEC NETTV NIKKO NORCENT NTC ONWA OPTIMUS OPTOMA	21917 20700, 20843 20093 20030, 20060 20180 20156, 20178, 20866 20030, 20497, 20882, 21704 21755 20030, 20092, 20178 20748, 20824 20092 20180 20154, 20166, 20250, 20650 20887	SANYO SCOTCH SCOTT SEARS SHARP SHENG CHIA	21959 20463, 21904, 21929, 21935 20088, 20154, 20484, 20799, 20893 20178 20178, 20180, 20236 20047, 20054, 20154, 20156, 20171, 20178, 21904, 21926 20093, 20153, 20491, 20688, 20689, 20818, 20851, 21917 20093
AXION BELL & HOW BENQ BOXLIGHT BRADFORD BROKSONIC CANDLE CARNIVALE CARVER CELEBRITY CELERA	21937, 21951, 21952 20171 21937 ELL 20154 21032 20893 20180 20180, 20236, 20463, 21929, 21935, 21938 20030 20030 20054 20000 20765	GO VIDEO GOLDSTAR GOODMANS GRUNDIG GRUNPY HAIER HALLMARK HARLEY DAVI HARMAN/KAI HARVARD HAVERMY HELIOS	21919, 21922 20017, 20030 20886 20030, 20178, 21926 20360 20683 20180 21034 20178 IDSON 21904 RDON 20054 20180 20093 20865	MOTOROLA MTC MULTITECH NAD NEC NETTV NIKKO NORCENT NTC ONWA OPTIMUS	21917 20700, 20843 20093 20030, 20060 20180 20156, 20178, 20866 20030, 20497, 20882, 21704 21755 20030, 20092, 20178 20748, 20824 20092 20180 20154, 20166, 20250, 20650	SANYO SCOTCH SCOTT SEARS SHARP	21959 20463, 21904, 21929, 21935 20088, 20154, 20484, 20799, 20893 20178 20178, 20180, 20236 20047, 20054, 20154, 20156, 20171, 20178, 21904, 21926 20093, 20153, 20491, 20688, 20689, 20818, 20851, 21917
AXION BELL & HOW BENQ BOXLIGHT BRADFORD BROKSONIC CANDLE CARNIVALE CARVER CELEBRITY CELERA CHANGHONO	21937, 21951, 21952 20171 21937 ELL 20154 21032 20893 20180, 20236, 20463, 21929, 21935, 21938 20030 20030 20054 20000 20765	GO VIDEO GOLDSTAR GOODMANS GRUNDIG GRUNPY HAIER HALLMARK HARLEY DAVI HARMAN/KAI HARVARD HAVERMY HELIOS HELLO KITTY	21919, 21922 20017, 20030 20886 20030, 20178, 21926 20360 20683 20180 21034 20178 IDSON 21904 RDON 20054 20180 20093 20865	MOTOROLA MTC MULTITECH NAD NEC NETTV NIKKO NORCENT NTC ONWA OPTIMUS OPTOMA OPTONICA	21917 20700, 20843 20093 20030, 20060 20180 20156, 20178, 20866 20030, 20497, 20882, 21704 21755 20030, 20092, 20178 20748, 20824 20092 20180 20154, 20166, 20250, 20650 20887 20093	SANYO SCOTCH SCOTT SEARS SHARP SHENG CHIA SOLE	21959 20463, 21904, 21929, 21935 20088, 20154, 20484, 20799, 20893 20178 20178, 20180, 20236 20047, 20054, 20154, 20156, 20171, 20178, 21904, 21926 20093, 20153, 20491, 20688, 20689, 20818, 20851, 21917 20093 20813
AXION BELL & HOW BENQ BOXLIGHT BRADFORD BROKSONIC CANDLE CARNIVALE CARVER CELEBRITY CELERA	21937, 21951, 21952 20171 21937 ELL 20154 21032 20893 20180 20180, 20236, 20463, 21929, 21935, 21938 20030 20054 20000 20765 3 20765 20030, 20060,	GO VIDEO GOLDSTAR GOODMANS GRUNDIG GRUNPY HAIER HALLMARK HARLEY DAVI HARMAN/KAI HARVARD HAVERMY HELIOS HELLO KITTY HISENSE	21919, 21922 20017, 20030 20886 20030, 20178, 21926 20360 20683 20180 21034 20178 IDSON 21904 RDON 20054 20180 20085 20180 200865	MOTOROLA MTC MULTITECH NAD NEC NETTV NIKKO NORCENT NTC ONWA OPTIMUS OPTOMA	21917 20700, 20843 20093 20030, 20060 20180 20156, 20178, 20866 20030, 20497, 20882, 21704 21755 20030, 20092, 20178 20748, 20824 20092 20180 20154, 20166, 20250, 20650 20887 20093 20236, 20463,	SANYO SCOTCH SCOTT SEARS SHARP SHENG CHIA	21959 20463, 21904, 21929, 21935 20088, 20154, 20484, 20799, 20893 20178 20178, 20180, 20236 20047, 20054, 20154, 20156, 20171, 20178, 21904, 21926 20093, 20153, 20491, 20688, 20689, 20818, 20851, 21917 20093 20813 20000, 20011,
AXION BELL & HOW BENQ BOXLIGHT BRADFORD BROKSONIC CANDLE CARNIVALE CARVER CELEBRITY CELERA CHANGHONG CITIZEN	21937, 21951, 21952 20171 21937 ELL 20154 21032 20893 20180 20180, 20236, 20463, 21929, 21935, 21938 20030 20030 20054 20000 20765 3 20765 20030, 20060, 20092, 21928	GO VIDEO GOLDSTAR GOODMANS GRUNDIG GRUNPY HAIER HALLMARK HARLEY DAVI HARMAN/KAI HARVARD HAVERMY HELIOS HELLO KITTY	21919, 21922 20017, 20030 20886 20030, 20178, 21926 20360 20683 20180 21034 20178 IDSON 21904 RDON 20054 20180 20093 20865 20451 20748 20038, 20145,	MOTOROLA MTC MULTITECH NAD NEC NETTV NIKKO NORCENT NTC ONWA OPTIMUS	21917 20700, 20843 20093 20030, 20060 20180 20156, 20178, 20866 20030, 20497, 20882, 21704 21755 20030, 20092, 20178 20748, 20824 20092 20180 20154, 20166, 20250, 20650 20087 20093 20236, 20463, 21463, 21929	SANYO SCOTCH SCOTT SEARS SHARP SHENG CHIA SOLE	21959 20463, 21904, 21929, 21935 20088, 20154, 20484, 20799, 20893 20178 20178, 20180, 20236 20047, 20054, 20154, 20156, 20171, 20178, 21904, 21926 20093, 20153, 20491, 20688, 20689, 20818, 20851, 21917 20093 20813 20000, 20011, 20080, 20111,
AXION BELL & HOW BENQ BOXLIGHT BRADFORD BROKSONIC CANDLE CARNIVALE CARVER CELEBRITY CELERA CHANGHONO	21937, 21951, 21952 20171 21937 ELL 20154 21032 20893 20180 20180, 20236, 20463, 21929, 21935, 21938 20030 20054 20000 20765 3 20765 20030, 20060,	GO VIDEO GOLDSTAR GOODMANS GRUNDIG GRUNPY HAIER HALLMARK HARLEY DAVI HARMAN/KAI HARVARD HAVERMY HELIOS HELLO KITTY HISENSE	21919, 21922 20017, 20030 20886 20030, 20178, 21926 20360 20683 20180 21034 20178 IDSON 21904 RDON 20054 20180 20085 20180 200865	MOTOROLA MTC MULTITECH NAD NEC NETTV NIKKO NORCENT NTC ONWA OPTIMUS OPTOMA OPTONICA	21917 20700, 20843 20093 20030, 20060 20180 20156, 20178, 20866 20030, 20497, 20882, 21704 21755 20030, 20092, 20178 20748, 20824 20092 20180 20154, 20166, 20250, 20650 20887 20093 20236, 20463,	SANYO SCOTCH SCOTT SEARS SHARP SHENG CHIA SOLE	21959 20463, 21904, 21929, 21935 20088, 20154, 20484, 20799, 20893 20178 20178, 20180, 20236 20047, 20054, 20154, 20156, 20171, 20178, 21904, 21926 20093, 20153, 20491, 20688, 20689, 20818, 20851, 21917 20093 20813 20000, 20011,
AXION BELL & HOW BENQ BOXLIGHT BRADFORD BROKSONIC CANDLE CARNIVALE CARVER CELEBRITY CELERA CHANGHONG CITIZEN CLARION	21937, 21951, 21952 20171 21937 ELL 20154 21032 20893 20180 20180, 20236, 20463, 21929, 21935, 21938 20030 20030 20054 20000 20765 20765 20030, 20060, 20092, 21928 20180	GO VIDEO GOLDSTAR GOODMANS GRUNDIG GRUNPY HAIER HALLMARK HARLEY DAVI HARMAN/KAI HARVARD HAVERMY HELIOS HELLO KITTY HISENSE	21919, 21922 20017, 20030 20886 20030, 20178, 21926 20360 20683 20180 21034 20178 IDSON 21904 RDON 20054 20180 20093 20865 20451 20748 20038, 20145, 20151, 20413,	MOTOROLA MTC MULTITECH NAD NEC NETTV NIKKO NORCENT NTC ONWA OPTIMUS	21917 20700, 20843 20093 20030, 20060 20180 20156, 20178, 20866 20030, 20497, 20882, 21704 21755 20030, 20092, 20178 20748, 20824 20092 20180 20154, 20166, 20250, 20650 20887 20093 20236, 20463, 21463, 21929 20051, 20226,	SANYO SCOTCH SCOTT SEARS SHARP SHENG CHIA SOLE	21959 20463, 21904, 21929, 21935 20088, 20154, 20484, 20799, 20883 20178 20178, 20180, 20236 20047, 20054, 20154, 20156, 20171, 20178, 21904, 21926 20093, 20153, 20491, 20688, 20689, 20818, 20881, 21917 20093 20813 20000, 20011, 20080, 20111, 20810, 20834,
AXION BELL & HOW BENQ BOXLIGHT BRADFORD BROKSONIC CANDLE CARNIVALE CARVER CELEBRITY CELERA CHANGHONG CITIZEN CLARION	21937, 21951, 21952 20171 21937 ELL 20154 21032 20893 20180, 20236, 20463, 21929, 21935, 21938 20030 20030 20054 20000 20765 3 20765 20765 2030, 20060, 20092, 21928 20180 L SOLUTIONS	GO VIDEO GOLDSTAR GOODMANS GRUNDIG GRUNPY HAIER HALLMARK HARLEY DAVI HARMAN/KAI HARVARD HAVERMY HELIOS HELLO KITTY HISENSE	21919, 21922 20017, 20030 20886 20030, 20178, 21926 20360 20683 20180 21034 20178 IDSON 21904 RDON 20054 20180 20	MOTOROLA MTC MULTITECH NAD NEC NETTV NIKKO NORCENT NTC ONWA OPTIMUS	21917 20700, 20843 20093 20030, 20060 20180 20156, 20178, 20866 20030, 20497, 20882, 21704 21755 20030, 20092, 20178 20748, 20824 20092 20180 20154, 20166, 20250, 20650 20887 20093 20236, 20463, 21463, 21929 20051, 20226, 20250, 20650,	SANYO SCOTCH SCOTT SEARS SHARP SHENG CHIA SOLE	21959 20463, 21904, 21929, 21935 20088, 20154, 20484, 20799, 20893 20178 20178, 20180, 20236 20047, 20054, 20154, 20156, 20171, 20178, 21904, 21926 20093, 20153, 20491, 20688, 20689, 20818, 20851, 21917 20093 20813 20000, 20011, 20080, 20111, 20080, 20111, 20810, 20834, 20867, 21100,
AXION BELL & HOWE BENQ BOXLIGHT BRADFORD BROKSONIC CANDLE CARNIVALE CARVER CELEBRITY CELERA CHANGHONO CITIZEN CLARION COMMERCIA	21937, 21951, 21952 20171 21937 ELL 20154 21032 20893 20180, 20236, 20463, 21929, 21935, 21938 20030 20030 20054 20000 20765 30000 20765 20765 20030, 20060, 20092, 21928 20180 L SOLUTIONS 20047, 21447	GO VIDEO GOLDSTAR GOODMANS GRUNDIG GRUNPY HAIER HALLMARK HARLEY DAVI HARMAN/KAI HARVARD HAVERMY HELIOS HELLO KITTY HISENSE HITACHI	21919, 21922 20017, 20030 20886 20030, 20178, 21926 20360 20683 20180 21034 20178 IDSON 21904 RDON 20054 20180 20093 20865 	MOTOROLA MTC MULTITECH NAD NEC NETTV NIKKO NORCENT NTC ONWA OPTIMUS	21917 20700, 20843 20093 20030, 20060 20180 20156, 20178, 20866 20030, 20497, 20882, 21704 21755 20030, 20092, 20178 20748, 20824 20092 20180 20154, 20166, 20250, 20650 20887 20093 20236, 20463, 21463, 21929 20051, 20226, 20250, 20650, 20863, 21410,	SANYO SCOTCH SCOTT SEARS SHARP SHENG CHIA SOLE SONY	21959 20463, 21904, 21929, 21935 20088, 20154, 20484, 20799, 20893 20178 20178, 20180, 20236 20047, 20054, 20154, 20156, 20171, 20178, 21904, 21926 20093, 20153, 20491, 20688, 20818, 2089, 20818, 20891, 21917 20093 20813 20000, 20011, 20080, 20111, 20080, 20111, 20810, 20834, 20867, 21100, 21904, 21925
AXION BELL & HOW BENQ BOXLIGHT BRADFORD BROKSONIC CANDLE CARNIVALE CARVER CELEBRITY CELERA CHANGHONG CITIZEN CLARION	21937, 21951, 21952 20171 21937 ELL 20154 21032 20893 20180, 20236, 20463, 21929, 21935, 21938 20030 20030 20054 20000 20765 3 20765 20765 2030, 20060, 20092, 21928 20180 L SOLUTIONS	GO VIDEO GOLDSTAR GOODMANS GRUNDIG GRUNPY HAIER HALLMARK HARLEY DAVI HARMAN/KAI HARVARD HAVERMY HELIOS HELLO KITTY HISENSE	21919, 21922 20017, 20030 20886 20030, 20178, 21926 20360 20683 20180 21034 20178 IDSON 21904 RDON 20054 20180 20	MOTOROLA MTC MULTITECH NAD NEC NETTV NIKKO NORCENT NTC ONWA OPTIMUS	21917 20700, 20843 20093 20030, 20060 20180 20156, 20178, 20866 20030, 20497, 20882, 21704 21755 20030, 20092, 20178 20748, 20824 20092 20180 20154, 20166, 20250, 20650 20887 20093 20236, 20463, 21463, 21929 20051, 20226, 20250, 20650,	SANYO SCOTCH SCOTT SEARS SHARP SHENG CHIA SOLE	21959 20463, 21904, 21929, 21935 20088, 20154, 20484, 20799, 20893 20178 20178, 20180, 20236 20047, 20054, 20154, 20156, 20171, 20178, 21904, 21926 20093, 20153, 20491, 20688, 20818, 20891, 20893, 20153, 20491, 20680, 20111, 20093 20813 20000, 20011, 20080, 20111, 20810, 20834, 20867, 21100, 21904, 21925
AXION BELL & HOWE BENQ BOXLIGHT BRADFORD BROKSONIC CANDLE CARNIVALE CARVER CELEBRITY CELERA CHANGHONO CITIZEN CLARION COMMERCIA CONTEC	21937, 21951, 21952 20171 21937 ELL 20154 21032 20893 20180, 20236, 20463, 21929, 21935, 21938 20030 20030 20054 20000 20765 3 20765 20765 20030, 20060, 20092, 21928 20180 L SOLUTIONS 20047, 21447 20180	GO VIDEO GOLDSTAR GOODMANS GRUNDIG GRUNPY HAIER HALLMARK HARLEY DAVI HARWAN/KAI HARVARD HAVERMY HELIOS HELLO KITTY HISENSE HITACHI	21919, 21922 20017, 20030 20886 20030, 20178, 21926 20360 20683 20180 21034 20178 IDSON 21904 RDON 20054 20180 20093 20865 	MOTOROLA MTC MULTITECH NAD NEC NETTV NIKKO NORCENT NTC ONWA OPTIMUS	21917 20700, 20843 20093 20030, 20060 20180 20156, 20178, 20866 20030, 20497, 20882, 21704 21755 20030, 20092, 20178 20748, 20824 20092 20180 20154, 20166, 20250, 20650 20887 20093 20236, 20463, 21463, 21929 20051, 20226, 20250, 20650, 20863, 21410, 21919, 21941,	SANYO SCOTCH SCOTT SEARS SHARP SHENG CHIA SOLE SONY	21959 20463, 21904, 21929, 21935 20088, 20154, 20484, 20799, 20893 20178 20178, 20180, 20236 20047, 20054, 20154, 20156, 20171, 20178, 21904, 21926 20093, 20153, 20491, 20688, 20689, 20818, 20851, 21917 20093 20813 20000, 20011, 20800, 20111, 20810, 20834, 21000, 20834, 21100, 20840, 21904, 21925
AXION BELL & HOW BENQ BOXLIGHT BRADFORD BROKSONIC CANDLE CARNIVALE CARVER CELEBRITY CELERA CHANGHONC CITIZEN CLARION COMMERCIA CONTEC CRAIG	21937, 21951, 21952 20171 21937 ELL 20154 21032 20893 20180, 20236, 20463, 21929, 21935, 21938 20030 20054 20000 20765 3 20765 20030, 20060, 20092, 21928 20180 L SOLUTIONS 20180 20180	GO VIDEO GOLDSTAR GOODMANS GRUNDIG GRUNPY HAIER HALLMARK HARLEY DAVI HARWAN/KAI HARVARD HAVERMY HELIOS HELLO KITTY HISENSE HITACHI HYUNDAI INFINITY	21919, 21922 20017, 20030 20886 20030, 20178, 21926 20360 20683 20180 21034 20178 IDSON 21904 RDON 20054 20180 20093 20865 20451 20748 20038, 20145, 20151, 20413, 21145, 21904, 21960 20849 20054	MOTOROLA MTC MULTITECH NAD NEC NETTV NIKKO NORCENT NTC ONWA OPTIMUS	21917 20700, 20843 20093 20030, 20060 20180 20156, 20178, 20866 20030, 20497, 20882, 21704 21755 20030, 20092, 20178 20748, 20824 20092 20180 20154, 20166, 20250, 20650 20887 20093 20236, 20463, 21463, 21929 20051, 20226, 20250, 20650, 20863, 21410,	SANYO SCOTCH SCOTT SEARS SHARP SHENG CHIA SOLE SONY	21959 20463, 21904, 21929, 21935 20088, 20154, 20484, 20799, 20893 20178 20178, 20180, 20236 20047, 20054, 20154, 20156, 20171, 20178, 21904, 21926 20093, 20153, 20491, 20688, 20689, 20818, 20851, 21917 20093 20813 20000, 20011, 20080, 20111, 20810, 20834, 20867, 21100, 21904, 21925 20178, 20180
AXION BELL & HOW BENQ BOXLIGHT BRADFORD BROKSONIC CANDLE CARNIVALE CARVER CELEBRITY CELERA CHANGHONG CITIZEN CLARION COMMERCIA CONTEC CRAIG CROSLEY	21937, 21951, 21952 20171 21937 ELL 20154 21032 20893 20180, 20236, 20463, 21929, 21935, 21938 20030 20054 20000 20765 3 20765 20030, 20060, 20092, 21928 20180 L SOLUTIONS 20180 20180 20180 20180 20180 20180	GO VIDEO GOLDSTAR GOODMANS GRUNDIG GRUNPY HAIER HALLMARK HARLEY DAVI HARMAN/KAI HARVARD HAVERMY HELIOS HELLO KITTY HISENSE HITACHI HYUNDAI INFINITY INTEQ	21919, 21922 20017, 20030 20886 20030, 20178, 21926 20360 20683 20180 21034 20178 IIDSON 21904 RDON 20054 20180 20085 20451 20748 20038, 20145, 20151, 20413, 21145, 21904, 21960 20849 20054 20054 20180	MOTOROLA MTC MULTITECH NAD NEC NETTV NIKKO NORCENT NTC ONWA OPTIMUS	21917 20700, 20843 20093 20030, 20060 20180 20156, 20178, 20866 20030, 20497, 20882, 21704 21755 20030, 20092, 20178 20748, 20824 20092 20180 20154, 20166, 20250, 20650 20887 20093 20236, 20463, 21463, 21929 20051, 20226, 20250, 20650, 20863, 21410, 21919, 21941,	SANYO SCOTCH SCOTT SEARS SHARP SHENG CHIA SOLE SONY	21959 20463, 21904, 21929, 21935 20088, 20154, 20484, 20799, 20893 20178 20178, 20180, 20236 20047, 20054, 20154, 20156, 20171, 20178, 21904, 21926 20093, 20153, 20491, 20688, 20689, 20818, 20851, 21917 20093 20813 20000, 20011, 20800, 20111, 20810, 20834, 21000, 20834, 21100, 20840, 21904, 21925
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VIDIKRON VIDTECH VIEWSONIC VIZIO WARDS WAYCON WESTINGHO WHITE WEST YAMAHA	20054 20178 20857, 20864, 20885, 21755 20864, 20885, 21756 20030, 20054, 20080, 20111, 20178, 20866, 21156 20156 USE 20451, 20889 TINGHOUSE 20463, 20623 20030, 20650, 20769, 20833, 20839, 21405, 21406, 21407 20017, 20092, 20178, 20463, 21145, 21904,	AIWA AKAI ALIENWARE AMERICA AC AMERICAN H ASHA AUDIOVOX BEAUMARK BELL & HOWI BROKSONIC CALIX CANON CARVER CCE CITIZEN COLT	30278 30037 30041 31972 TION 30278 IGH 30035 30240 30037, 30278 30240 ELL 30104 30002, 30121, 30184, 30209, 30479 30037 30035 30081 30072, 30278 30072, 30278	KODAK LG LINKSYS LOGIK LXI MAGNASONIO MAGNAVOX MAGNIN MARANTZ MARTA MATSUSHITA MEDIA CENT	30072 30035, 30037 31037, 32010 31972 30072 30037 C 30593 30035, 30039, 30081, 30149, 30563, 30593 30240 30035, 30081 30037 30035, 30162, 31162 ER PC 31972 30035 30035, 30037, 30039, 30047, 30048, 30104,	RADIX RANDEX RCA REALISTIC REPLAYTV RICAVISION RUNCO SAMSUNG SANKY SANSUI SANYO SCOTT	31037 30037 30037 30042, 30060, 30149, 30240, 30880 30035, 30037, 30047, 30048, 30104 30614, 30616 31972 30039 30045, 30240, 30739 30039, 30048 30041, 30067, 30209, 30479 30049, 30104, 30240 30043, 30045, 30121, 30184
VIDIKRON VIDTECH VIEWSONIC VIZIO WARDS WAYCON WESTINGHO WHITE WEST YAMAHA	20054 20178 20857, 20864, 20885, 21755 20864, 20885, 21756 20030, 20054, 20080, 20111, 20178, 20866, 21156 20156 USE 20451, 20889 FINGHOUSE 20463, 20623 20030, 20650, 20769, 20833, 20839, 21405, 21406, 21407 20017, 20092, 20178, 20463,	AIWA AKAI ALIENWARE AMERICA AC AMERICAN H ASHA AUDIOVOX BEAUMARK BELL & HOWE BROKSONIC CALIX CANON CARVER CCE CITIZEN	30278 30037 30041 31972 TION 30278 IGH 30035 30240 30037, 30278 30240 50104 30002, 30121, 30184, 30209, 30479 30037 30035 30081 30072, 30278 30072, 30278 30072 30037, 30047,	KODAK LG LINKSYS LOGIK LXI MAGNASONIO MAGNAVOX MAGNIN MARANTZ MARTA MATSUSHITA MEDIA CENT	30072 30035, 30037 31037, 32010 31972 30072 30037 C 30593 30035, 30039, 30081, 30149, 30563, 30593 30240 30035, 30081 30035, 30081 30035, 30162, 31162 ER PC 31972 30035, 30035, 30037, 30039, 30047, 30048, 30104, 30162, 30209,	RADIX RANDEX RCA REALISTIC REPLAYTV RICAVISION RUNCO SAMSUNG SANKY SANSUI SANYO	31037 30037 30037 30042, 30060, 30149, 30240, 30880 30035, 30037, 30047, 30048, 30104 30614, 30616 31972 30039 30045, 30240, 30739 30039, 30048 30041, 30067, 30209, 30479 30047, 30104, 30240 30043, 30045, 30121, 30184 30035, 30037,
VIDIKRON VIDTECH VIEWSONIC VIZIO WARDS WAYCON WESTINGHO WHITE WEST YAMAHA ZENITH	20054 20178 20857, 20864, 20885, 21755 20864, 20885, 21756 20030, 20054, 20080, 20111, 20178, 20866, 21156 20156 USE 20451, 20889 TINGHOUSE 20463, 20623 20030, 20650, 20769, 20833, 20839, 21405, 21406, 21407 20017, 20092, 20178, 20463, 21145, 21904,	AIWA AKAI ALIENWARE AMERICA AC AMERICAN H ASHA AUDIOVOX BEAUMARK BELL & HOWE BROKSONIC CALIX CANON CARVER CCE CITIZEN COLT CRAIG	30278 30037 30041 31972 TION 30278 IGH 30035 30240 30037, 30278 30240 ELL 30104 30002, 30121, 30184, 30209, 30479 30037 30037 30037 30037 30072, 30278 30072, 30278 30072, 30278 30072, 30278	KODAK LG LINKSYS LOGIK LXI MAGNASONIO MAGNAVOX MAGNIN MARANTZ MARTA MATSUSHITA MEDIA CENT	30072 30035, 30037 31037, 32010 31972 30072 30037 C 30593 30035, 30039, 30081, 30149, 30563, 30593 30240 30035, 30081 30037 30035, 30162, 31162 ER PC 31972 30035 30035, 30037, 30038, 30047, 30048, 30104, 30162, 30209, 30240, 30479,	RADIX RANDEX RCA REALISTIC REPLAYTV RICAVISION RUNCO SAMSUNG SANKY SANSUI SANYO SCOTT	31037 30037 30037 30042, 30060, 30149, 30240, 30880 30035, 30037, 30047, 30048, 30104 30614, 30616 31972 30039 30045, 30240, 30739 30045, 30240, 30739 30047, 30104, 30240 30043, 30045, 30121, 30184 30035, 30037, 30042, 30047,
VIDIKRON VIDTECH VIEWSONIC VIZIO WARDS WAYCON WESTINGHO WHITE WEST YAMAHA	20054 20178 20857, 20864, 20885, 21755 20864, 20885, 21756 20030, 20054, 20080, 20111, 20178, 20866, 21156 20156 USE 20451, 20889 TINGHOUSE 20463, 20623 20030, 20650, 20769, 20833, 20839, 21405, 21406, 21407 20017, 20092, 20178, 20463, 21145, 21904,	AIWA AKAI ALIENWARE AMERICA AC AMERICAN H ASHA AUDIOVOX BEAUMARK BELL & HOWI BROKSONIC CALIX CANON CARVER CCE CITIZEN COLT	30278 30037 30041 31972 TION 30278 IGH 30035 30240 30037, 30278 30240 ELL 30104 30002, 30121, 30184, 30209, 30479 30037 30037 30037 30037 30037 30072, 30278 30037, 30278 30037, 30278 30037, 30278	KODAK LG LINKSYS LOGIK LXI MAGNASONIO MAGNAVOX MAGNIN MARANTZ MARTA MATSUSHITA MEDIA CENT	30072 30035, 30037 31037, 32010 31972 30072 30077 C 30593 300355, 30039, 30081, 30149, 30563, 30593 30240 30035, 30081 30037 30035, 30162, 31162 ER PC 31972 30035 30035, 30037, 30035, 30037, 30039, 30047, 30162, 30209, 30240, 30479, 31037, 31162,	RADIX RANDEX RCA REALISTIC REPLAYTV RICAVISION RUNCO SAMSUNG SANKY SANSUI SANYO SCOTT SEARS	31037 30037 30037 30042, 30060, 30149, 30240, 30880 30035, 30037, 30047, 30048, 30104 30614, 30616 31972 30039 30045, 30240, 30739 30045, 30240, 30739 30047, 30104, 30240 30441, 30067, 30211, 30184 30035, 30047, 30121, 30184 30035, 30037, 30042, 30047,
VIDIKRON VIDTECH VIEWSONIC VIZIO WARDS WAYCON WESTINGHO WHITE WEST YAMAHA ZENITH	20054 20178 20857, 20864, 20885, 21755 20864, 20885, 21756 20030, 20054, 20080, 20111, 20178, 20866, 21156 20156 USE 20451, 20889 TINGHOUSE 20463, 20623 20030, 20650, 20769, 20833, 20839, 21405, 21406, 21407 20017, 20092, 20178, 20463, 21145, 21904,	AIWA AKAI ALIENWARE AMERICA AC AMERICAN H ASHA AUDIOVOX BEAUMARK BELL & HOWE BROKSONIC CALIX CANON CARVER CCE CITIZEN COLT CRAIG	30278 30037 30041 31972 TION 30278 IGH 30035 30240 30037, 30278 30240 ELL 30104 30002, 30121, 30184, 30209, 30479 30037 30037 30037 30037 30072, 30278 30072, 30278 30072, 30278 30072, 30278	KODAK LG LINKSYS LOGIK LXI MAGNASONIO MAGNAVOX MAGNIN MARANTZ MARTA MATSUSHITA MEDIA CENT	30072 30035, 30037 31037, 32010 31972 30072 30037 C 30593 30035, 30039, 30081, 30149, 30563, 30593 30240 30035, 30081 30037 30035, 30162, 31162 ER PC 31972 30035 30035, 30037, 30038, 30047, 30048, 30104, 30162, 30209, 30240, 30479,	RADIX RANDEX RCA REALISTIC REPLAYTV RICAVISION RUNCO SAMSUNG SANKY SANSUI SANYO SCOTT SEARS SHARP	31037 30037 30037 30042, 30060, 30149, 30240, 30880 30035, 30037, 30047, 30048, 30104 30614, 30616 31972 30039 30045, 30240, 30739 30045, 30240, 30739 30047, 30104, 30240 30043, 30045, 30121, 30184 30035, 30037, 30042, 30047,
VIDIKRON VIDTECH VIEWSONIC VIZIO WARDS WAYCON WESTINGHO WHITE WEST YAMAHA ZENITH	20054 20178 20857, 20864, 20885, 21755 20864, 20885, 21756 20030, 20054, 20080, 20111, 20178, 20866, 21156 20156 USE 20451, 20889 FINGHOUSE 20463, 20623 20030, 20650, 20769, 20833, 20839, 21405, 21406, 21407 20017, 20092, 20178, 20463, 21145, 21904, 21929	AIWA AKAI ALIENWARE AMERICA AC AMERICAN H ASHA AUDIOVOX BEAUMARK BELL & HOWE BROKSONIC CALIX CANON CARVER CCE CITIZEN COLT CRAIG	30278 30037 30041 31972 TION 30278 IGH 30035 30240 30037, 30278 30240 ELL 30104 30002, 30121, 30184, 30209, 30479 30037 30035 30081 30072, 30278 30072, 30278 30072, 30278 30072, 30278 30072, 30278 30072, 30278	KODAK LG LINKSYS LOGIK LXI MAGNASONIC MAGNAVOX MAGNIN MARANTZ MARTA MATSUSHITA MEDIA CENT MEI MEMOREX	30072 30035, 30037 31037, 32010 31972 30072 30072 30037 C 30593 30035, 30039, 30081, 30149, 30563, 30593 30240 30035, 30081 30037 30035, 30162, 31162 ER PC 31972 30035 30035, 30037, 30039, 30047, 30048, 30104, 30162, 30209, 30240, 30479, 31027, 31162, 31262 30043, 30240	RADIX RANDEX RCA REALISTIC REPLAYTV RICAVISION RUNCO SAMSUNG SANKY SANSUI SANYO SCOTT SEARS	31037 30037 30037 30042, 30060, 30149, 30240, 30880 30035, 30037, 30047, 30048, 301614, 30616 31972 30039 30045, 30240, 30739 30045, 30240, 30739 30047, 30104, 30240 30043, 30045, 30121, 30184 30035, 30037, 30042, 30047,
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TOUCH	31972	DENON	40490	ORITRON	40651	YAMAKAWA	40872
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	31139 31972	GRADIENTE GREENHILL GRUNDIG	40490 40717 40539 RDON	RJTECH ROTEL	41132, 41193 40869 41360 40623, 41178	PANASONIC PHILIPS PIONEER	40064, 40194 40023, 40059
DVD PLAY	31139 31972 /ER	GRADIENTE GREENHILL GRUNDIG HARMAN/KA	40490 40717 40539 RDON 40582, 40702	RJTECH ROTEL ROWA	41132, 41193 40869 41360 40623, 41178 40823	PANASONIC PHILIPS PIONEER POLK AUDIO	40064, 40194 40023, 40059 40194
DVD PLAY ADCOM ADVENT	31139 31972 /ER 41094 41016	GRADIENTE GREENHILL GRUNDIG HARMAN/KA HITACHI	40490 40717 40539 RDON 40582, 40702 40573, 40664, 41247	RJTECH ROTEL ROWA SAMPO	41132, 41193 40869 41360 40623, 41178 40823 40698, 40752 40490, 40573,	PANASONIC PHILIPS PIONEER POLK AUDIO QUASAR REALISTIC	40064, 40194 40023, 40059 40194 40204 40203
DVD PLAY ADCOM ADVENT AIWA	31139 31972 /ER 41094 41016 40641	GRADIENTE GREENHILL GRUNDIG HARMAN/KA HITACHI HITEKER	40490 40717 40539 RDON 40582, 40702 40573, 40664, 41247 40672	RJTECH ROTEL ROWA SAMPO	41132, 41193 40869 41360 40623, 41178 40823 40698, 40752 40490, 40573, 40744, 40820,	PANASONIC PHILIPS PIONEER POLK AUDIO QUASAR REALISTIC SAMSUNG	40064, 40194 40023, 40059 40194 40204 40203 40323
DVD PLAY ADCOM ADVENT AIWA AKAI	31139 31972 YER 41094 41016 40641 40899, 41089	GRADIENTE GREENHILL GRUNDIG HARMAN/KA HITACHI HITEKER INITIAL	40490 40717 40539 RDON 40582, 40702 40573, 40664, 41247 40672 40717	RJTECH ROTEL ROWA SAMPO	41132, 41193 40869 41360 40623, 41178 40823 40698, 40752 40490, 40573, 40744, 40820, 40899, 41044,	PANASONIC PHILIPS PIONEER POLK AUDIO QUASAR REALISTIC SAMSUNG SEGA	40064, 40194 40023, 40059 40194 40204 40203 40323 40023
DVD PLAY ADCOM ADVENT AIWA AKAI ALCO	31139 31972 YER 41094 41016 40641 40899, 41089 40790	GRADIENTE GREENHILL GRUNDIG HARMAN/KA HITACHI HITEKER INITIAL INTEGRA	40490 40717 40539 RDON 40582, 40702 40573, 40664, 41247 40672 40717 40571, 40627	RJTECH ROTEL ROWA SAMPO SAMSUNG	41132, 41193 40869 41360 40623, 41178 40823 40698, 40752 40490, 40573, 40744, 40820, 40899, 41044, 41075	PANASONIC PHILIPS PIONEER POLK AUDIO QUASAR REALISTIC SAMSUNG SEGA SONY	40064, 40194 40023, 40059 40194 40204 40203 40323 40023 40193, 40201
DVD PLAY ADCOM ADVENT AIWA AKAI ALCO ALLEGRO	31139 31972 /ER 41094 41016 40641 40899, 41089 40790 40869	GRADIENTE GREENHILL GRUNDIG HARMAN/KA HITACHI HITEKER INITIAL INTEGRA JATON	40490 40717 40539 RDON 40582, 40702 40573, 40664, 41247 40672 40717 40571, 40627 41078	RJTECH ROTEL ROWA SAMPO SAMSUNG	41132, 41193 40869 41360 40623, 41178 40823 40698, 40752 40490, 40573, 40744, 40820, 40899, 41044, 41075 40695	PANASONIC PHILIPS PIONEER POLK AUDIO QUASAR REALISTIC SAMSUNG SEGA SONY TECHNICS	40064, 40194 40023, 40059 40194 40204 40203 40323 40023 40193, 40201 40204
DVD PLAY ADCOM ADVENT AIWA AKAI ALCO ALLEGRO	31139 31972 /ER 41094 41016 40641 40899, 41089 40790 40869 EDIA WORKS	GRADIENTE GREENHILL GRUNDIG HARMAN/KA HITACHI HITEKER INITIAL INTEGRA JATON JBL	40490 40717 40539 RDON 40582, 40702 40573, 40664, 41247 40672 40717 40571, 40627 41078 40702	RJTECH ROTEL ROWA SAMPO SAMSUNG SANSUI SANYO	41132, 41193 40869 41360 40623, 41178 40823 40698, 40752 40490, 40573, 40744, 40820, 40899, 41044, 411075 40695, 40873	PANASONIC PHILIPS PIONEER POLK AUDIO QUASAR REALISTIC SAMSUNG SEGA SONY	40064, 40194 40023, 40059 40194 40204 40203 40323 40023 40193, 40201 40204 YAL
DVD PLAY ADCOM ADVENT AIWA AKAI ALCO ALLEGRO AMPHION M	31139 31972 FER 41094 41016 40641 40899, 41089 40790 40869 EDIA WORKS 40872	GRADIENTE GREENHILL GRUNDIG HARMAN/KA HITACHI HITEKER INITIAL INTEGRA JATON JBL JENSEN	40490 40717 40539 RDON 40582, 40702 40573, 40664, 41247 40672 40717 40571, 40627 41078 40702 41016	RJTECH ROTEL ROWA SAMPO SAMSUNG	41132, 41193 40869 41360 40623, 41178 40823 40698, 40752 40490, 40573, 40744, 40820, 40899, 41044, 41075 40695 40695, 40873 40630, 40675,	PANASONIC PHILIPS PIONEER POLK AUDIO QUASAR REALISTIC SAMSUNG SEGA SONY TECHNICS THETA DIGIT	40064, 40194 40023, 40059 40194 40204 40203 40323 40023 40193, 40201 40204 VAL 40194
DVD PLAY ADCOM ADVENT AIWA AKAI ALCO ALLEGRO AMPHION M	31139 31972 FER 41094 41016 40641 40899, 41089 40790 40869 EDIA WORKS 40872 40872	GRADIENTE GREENHILL GRUNDIG HARMAN/KA HITACHI HITEKER INITIAL INTEGRA JATON JBL JENSEN JSI	40490 40717 40539 RDON 40582, 40702 40573, 40664, 41247 40672 40717 40571, 40627 41078 40702 41016 41423	RJTECH ROTEL ROWA SAMPO SAMSUNG SANSUI SANYO SHARP	41132, 41193 40869 41360 40623, 41178 40823 40698, 40752 40490, 40573, 40744, 40820, 40899, 41044, 41075 40695 40695, 40873 40630, 40675, 40752, 41256	PANASONIC PHILIPS PIONEER POLK AUDIO QUASAR REALISTIC SAMSUNG SEGA SONY TECHNICS	40064, 40194 40023, 40059 40194 40204 40203 40323 40023 40193, 40201 40204 YAL
DVD PLAY ADCOM ADVENT AIWA AKAI ALCO ALLEGRO AMPHION M	31139 31972 FER 41094 41016 40641 40899, 41089 40790 40869 EDIA WORKS 40872 40872	GRADIENTE GREENHILL GRUNDIG HARMAN/KA HITACHI HITEKER INITIAL INTEGRA JATON JBL JENSEN	40490 40717 40539 RDON 40582, 40702 40573, 40664, 41247 40672 40717 40571, 40627 41078 40702 41016 41423 40558, 40623,	RJTECH ROTEL ROWA SAMPO SAMSUNG SANSUI SANYO	41132, 41193 40869 41360 40623, 41178 40823 40698, 40752 40490, 40573, 40744, 40820, 40899, 41044, 41075 40695 40695, 40873 40630, 40675, 40752, 41256	PANASONIC PHILIPS PIONEER POLK AUDIO QUASAR REALISTIC SAMSUNG SEGA SONY TECHNICS THETA DIGIT YAMAHA	40064, 40194 40023, 40059 40194 40204 40203 40323 40023 40193, 40201 40204 AL 40194 40217
DVD PLAY ADCOM ADVENT AIWA AKAI ALCO ALLEGRO AMPHION M	31139 31972 FER 41094 41016 40641 40899, 41089 40790 40869 EDIA WORKS 40872 40872	GRADIENTE GREENHILL GRUNDIG HARMAN/KA HITACHI HITEKER INITIAL INTEGRA JATON JBL JENSEN JSI	40490 40717 40539 RDON 40582, 40702 40573, 40664, 41247 40672 40717 40571, 40627 41078 40702 41016 41423	RJTECH ROTEL ROWA SAMPO SAMSUNG SANSUI SANYO SHARP	41132, 41193 40869 41360 40623, 41178 40823 40698, 40752 40490, 40573, 40744, 40820, 40899, 41044, 41075 40695 40695, 40873 40630, 40675, 40752, 41256	PANASONIC PHILIPS PIONEER POLK AUDIO QUASAR REALISTIC SAMSUNG SEGA SONY TECHNICS THETA DIGIT	40064, 40194 40023, 40059 40194 40204 40203 40323 40023 40193, 40201 40204 AL 40194 40217
DVD PLAY ADCOM ADVENT AIWA AKAI ALCO ALLEGRO AMPHION M	31139 31972 YER 41094 41016 40641 40899, 41089 40790 40869 EDIA WORKS 40872 40872 AL	GRADIENTE GREENHILL GRUNDIG HARMAN/KA HITACHI HITEKER INITIAL INTEGRA JATON JBL JENSEN JSI	40490 40717 40539 RDON 40582, 40702 40573, 40664, 41247 40672 40717 40571, 40627 41078 40702 41016 41423 40558, 40623,	RJTECH ROTEL ROWA SAMPO SAMSUNG SANSUI SANYO SHARP	41132, 41193 40869 41360 40623, 41178 40823 40698, 40752 40490, 40573, 40744, 40820, 40899, 41044, 41075 40695, 40873 40630, 40675, 40752, 41256 AGE	PANASONIC PHILIPS PIONEER POLK AUDIO QUASAR REALISTIC SAMSUNG SEGA SONY TECHNICS THETA DIGIT YAMAHA	40064, 40194 40023, 40059 40194 40204 40203 40323 40023 40193, 40201 40204 YAL 40194 40217
DVD PLAY ADCOM ADVENT AIWA AKAI ALCO ALLEGRO AMPHION M	31139 31972 FER 41094 41016 40641 40899, 41089 40790 40869 EDIA WORKS 40872 40872 40872 40672, 40717, 40755, 40794,	GRADIENTE GREENHILL GRUNDIG HARMAN/KA HITACHI HITEKER INITIAL INTEGRA JATON JBL JENSEN JSI JVC JWIN	40490 40717 40539 RDON 40582, 40702 40573, 40664, 41247 40672 40717 40571, 40627 41078 40702 41016 41423 40558, 40623, 40867 41049, 41051	RJTECH ROTEL ROWA SAMPO SAMSUNG SANSUI SANYO SHARP SHARPER IMA	41132, 41193 40869 41360 40623, 41178 40823 40698, 40752 40490, 40573, 40744, 40820, 40899, 41044, 411075 40695, 40873 40630, 40675, 40752, 41256 AGE 41117 40633, 41043,	PANASONIC PHILIPS PIONEER POLK AUDIO QUASAR REALISTIC SAMSUNG SEGA SONY TECHNICS THETA DIGIT YAMAHA DVD RECO	40064, 40194 40023, 40059 40194 40204 40203 40323 40023 40193, 40201 40204 VAL 40194 40217 DRDER
DVD PLAY ADCOM ADVENT AIWA AKAI ALCO ALLEGRO AMPHION M	31139 31972 FER 41094 41016 40641 40899, 41089 40790 40869 EDIA WORKS 40872 40872 AU. 40672, 40717, 40755, 40794, 40796, 40797,	GRADIENTE GREENHILL GRUNDIG HARMAN/KA HITACHI HITEKER INITIAL INTEGRA JATON JBL JENSEN JSI JVC JWIN KAWASAKI	40490 40717 40539 RDON 40582, 40702 40573, 40664, 41247 40672 40717 40571, 40627 41078 40702 41016 41423 40558, 40623, 40867 41049, 41051 40790	RJTECH ROTEL ROWA SAMPO SAMSUNG SANSUI SANYO SHARP SHARPER IMA	41132, 41193 40869 41360 40623, 41178 40823 40698, 40752 40490, 40573, 40744, 40820, 40899, 41044, 41075 40695, 40873 40630, 40675, 40752, 41256 AGE 41117 40633, 41043, 41077	PANASONIC PHILIPS PIONEER POLK AUDIO QUASAR REALISTIC SAMSUNG SEGA SONY TECHNICS THETA DIGIT YAMAHA DVD RECO APEX DIGITAL	40064, 40194 40023, 40059 40194 40204 40203 40323 400193, 40201 40204 VAL 40194 40217 ORDER AL 51056
DVD PLAY ADCOM ADVENT AIWA AKAI ALCO ALLEGRO AMPHION M	31139 31972 FER 41094 41016 40641 40899, 41089 40790 40869 EDIA WORKS 40872 40872 AU. 40672, 40717, 40755, 40794, 40796, 40797, 40830, 41004,	GRADIENTE GREENHILL GRUNDIG HARMAN/KA HITACHI HITEKER INITIAL INTEGRA JATON JBL JENSEN JSI JVC JWIN	40490 40717 40539 RDON 40582, 40702 40573, 40664, 41247 40672 40717 40571, 40627 41078 40702 41016 41423 40558, 40623, 40867 41049, 41051 40790 40490, 40534,	RJTECH ROTEL ROWA SAMPO SAMSUNG SANSUI SANYO SHARP SHARPER IMA SHERWOOD SHINSONIC	41132, 41193 40869 41360 40623, 41178 40823 40698, 40752 40490, 40573, 40744, 40820, 40899, 41044, 41075 40695, 40873 40630, 40675, 40752, 41256 AGE 41117 40633, 41043, 41077 40533, 40839	PANASONIC PHILIPS PIONEER POLK AUDIO QUASAR REALISTIC SAMSUNG SEGA SONY TECHNICS THETA DIGIT YAMAHA DVD RECO	40064, 40194 40023, 40059 40194 40204 40203 40323 40023 40193, 40201 40204 VAL 40194 40217 DRDER LL 51056 TAL
DVD PLAY ADCOM ADVENT AIWA AKAI ALCO ALLEGRO AMPHION M	31139 31972 FER 41094 41016 40641 40899, 41089 40790 40869 EDIA WORKS 40872 40872 VL 40672, 40717, 40755, 40794, 40796, 40797, 40830, 41004, 41020, 41061,	GRADIENTE GREENHILL GRUNDIG HARMAN/KA HITACHI HITEKER INITIAL INTEGRA JATON JBL JENSEN JSI JVC JWIN KAWASAKI KENWOOD	40490 40717 40539 RDON 40582, 40702 40573, 40664, 41247 40672 40717 40571, 40627 41078 40702 41016 41423 40558, 40623, 40867 41049, 41051 40790 40490, 40534, 40682, 40737	RJTECH ROTEL ROWA SAMPO SAMSUNG SANSUI SANYO SHARP SHARPER IMA	41132, 41193 40869 41360 40623, 41178 40698, 40752 40490, 40573, 40744, 40820, 40899, 41044, 41075 40695, 40873 40695, 40873 40630, 40675, 40752, 41256 AGE 41117 40633, 41043, 41077 40533, 40839 SNS	PANASONIC PHILIPS PIONEER POLK AUDIO QUASAR REALISTIC SAMSUNG SEGA SONY TECHNICS THETA DIGIT YAMAHA DVD RECO APEX DIGITA ASPIRE DIGITA	40064, 40194 40023, 40059 40194 40204 40203 40323 40023 40193, 40201 40204 AL 40194 40217 ORDER AL 51056 TAL 51168
DVD PLAY ADCOM ADVENT AIWA AKAI ALCO ALLEGRO AMPHION M AMW APEX DIGITA	31139 31972 FER 41094 41016 40641 40899, 41089 40790 40869 EDIA WORKS 40872 40872 AU 40672, 40717, 40755, 40794, 40796, 40797, 40830, 41004, 41020, 41061, 41100	GRADIENTE GREENHILL GRUNDIG HARMAN/KA HITACHI HITEKER INITIAL INTEGRA JATON JBL JENSEN JSI JVC JWIN KAWASAKI	40490 40717 40539 RDON 40582, 40702 40573, 40664, 41247 40672 40717 40571, 40627 41078 40702 41016 41423 40558, 40623, 40867 41049, 41051 40790 40490, 40534, 40682, 40737 40717, 40790,	RJTECH ROTEL ROWA SAMPO SAMSUNG SANSUI SANYO SHARP SHARPER IMA SHERWOOD SHINSONIC SIGMA DESIG	41132, 41193 40869 41360 40623, 41178 40823 40698, 40752 40490, 40573, 40744, 40820, 40899, 41044, 41075 40695, 40873 40630, 40675, 40752, 41256 AGE 41117 40633, 41043, 41077 40533, 40839 6NS 40674	PANASONIC PHILIPS PIONEER POLK AUDIO QUASAR REALISTIC SAMSUNG SEGA SONY TECHNICS THETA DIGIT YAMAHA DVD RECO APEX DIGITA ASPIRE DIGIT COBY	40064, 40194 40023, 40059 40194 40204 40203 40323 40023 40193, 40201 40204 YAL 40194 40217 ORDER AL 51056 TAL 51168 51086
DVD PLAY ADCOM ADVENT AIWA AKAI ALCO ALLEGRO AMPHION M	31139 31972 FER 41094 41016 40641 40899, 41089 40790 40869 EDIA WORKS 40872 40872 AU 40672, 40717, 40755, 40794, 40796, 40797, 40830, 41004, 41100 TAL	GRADIENTE GREENHILL GRUNDIG HARMAN/KA HITACHI HITEKER INITIAL INTEGRA JATON JBL JENSEN JSI JVC JWIN KAWASAKI KENWOOD	40490 40717 40539 RDON 40582, 40702 40573, 40664, 41247 40672 40717 40571, 40627 41078 40702 41016 41423 40558, 40623, 40867 41049, 41051 40790 40490, 40534, 40682, 40737 40717, 40790, 41020, 41149,	RJTECH ROTEL ROWA SAMPO SAMSUNG SANSUI SANYO SHARP SHERWOOD SHINSONIC SIGMA DESIG	41132, 41193 40869 41360 40623, 41178 40823 40698, 40752 40490, 40573, 40744, 40820, 40899, 41044, 41075 40695, 40873 40630, 40675, 40752, 41256 AGE 41117 40633, 41043, 41077 40533, 40839 SNS 40674 40869, 41099	PANASONIC PHILIPS PIONEER POLK AUDIO QUASAR REALISTIC SAMSUNG SEGA SONY TECHNICS THETA DIGIT YAMAHA DVD RECO APEX DIGITA ASPIRE DIGITA	40064, 40194 40023, 40059 40194 40204 40203 40323 40023 40193, 40201 40204 YAL 40194 40217 ORDER NL 51056 TAL 51168 51086
DVD PLAY ADCOM ADVENT AIWA AKAI ALCO ALLEGRO AMPHION M AMW APEX DIGITA	31139 31972 FER 41094 41016 40641 40899, 41089 40790 40869 EDIA WORKS 40872 40872 40872 40672, 40717, 40755, 40794, 40796, 40797, 40830, 41004, 41020, 41061, 41100 TAL	GRADIENTE GREENHILL GRUNDIG HARMAN/KA HITACHI HITEKER INITIAL INTEGRA JATON JBL JENSEN JSI JVC JWIN KAWASAKI KENWOOD KLH	40490 40717 40539 RDON 40582, 40702 40573, 40664, 41247 40672 40717 40571, 40627 41078 40702 41016 41423 40558, 40623, 400867 41049, 41051 40790 40490, 40534, 40682, 40737 40717, 40790, 41020, 41149, 41261	RJTECH ROTEL ROWA SAMPO SAMSUNG SANSUI SANYO SHARP SHARPER IMA SHERWOOD SHINSONIC SIGMA DESIG	41132, 41193 40869 41360 40623, 41178 40698, 40752 40490, 40573, 40744, 40820, 40899, 41044, 41075 40695, 40873 40630, 40675, 40752, 41256 AGE 41117 40633, 41043, 41077 40533, 40839 SNS 40674 40869, 41099 40533, 40864,	PANASONIC PHILIPS PIONEER POLK AUDIO QUASAR REALISTIC SAMSUNG SEGA SONY TECHNICS THETA DIGIT YAMAHA DVD RECO APEX DIGITA ASPIRE DIGIT COBY CYBERHOME	40064, 40194 40023, 40059 40194 40204 40203 40323 40023 40193, 40201 40204 PAL 40194 40217 ORDER STAL 51168 51086 3 51129
DVD PLAY ADCOM ADVENT AIWA AKAI ALCO ALLEGRO AMPHION M AMW APEX DIGITA	31139 31972 FER 41094 41016 40641 40899, 41089 40790 40869 EDIA WORKS 40872 40872 AU 40672, 40717, 40755, 40794, 40796, 40797, 40830, 41004, 41100 TAL	GRADIENTE GREENHILL GRUNDIG HARMAN/KA HITACHI HITEKER INITIAL INTEGRA JATON JBL JENSEN JSI JVC JWIN KAWASAKI KENWOOD	40490 40717 40539 RDON 40582, 40702 40573, 40664, 41247 40672 40717 40571, 40627 41078 40702 41016 41423 40558, 40623, 40867 41049, 41051 40790 40490, 40534, 40682, 40737 40717, 40790, 41020, 41149,	RJTECH ROTEL ROWA SAMPO SAMSUNG SANSUI SANYO SHARP SHERWOOD SHINSONIC SIGMA DESIG	41132, 41193 40869 41360 40623, 41178 40823 40698, 40752 40490, 40573, 40744, 40820, 40899, 41044, 41075 40695, 40873 40630, 40675, 40752, 41256 AGE 41117 40633, 41043, 41077 40533, 40839 SNS 40674 40869, 41099	PANASONIC PHILIPS PIONEER POLK AUDIO QUASAR REALISTIC SAMSUNG SEGA SONY TECHNICS THETA DIGIT YAMAHA DVD RECO APEX DIGITA ASPIRE DIGIT COBY	40064, 40194 40023, 40059 40194 40204 40203 40323 40023 40193, 40201 40204 YAL 40194 40217 ORDER NL 51056 TAL 51168 51086
DVD PLAY ADCOM ADVENT AIWA AKAI ALCO ALLEGRO AMPHION M AMW APEX DIGITA	31139 31972 FER 41094 41016 40641 40899, 41089 40790 40869 EDIA WORKS 40872 40872 40872 40672, 40717, 40755, 40794, 40796, 40797, 40830, 41004, 41020, 41061, 41100 TAL	GRADIENTE GREENHILL GRUNDIG HARMAN/KA HITACHI HITEKER INITIAL INTEGRA JATON JBL JENSEN JSI JVC JWIN KAWASAKI KENWOOD KLH	40490 40717 40539 RDON 40582, 40702 40573, 40664, 41247 40672 40717 40571, 40627 41078 40702 41016 41423 40558, 40623, 400867 41049, 41051 40790 40490, 40534, 40682, 40737 40717, 40790, 41020, 41149, 41261	RJTECH ROTEL ROWA SAMPO SAMSUNG SANSUI SANYO SHARP SHERWOOD SHINSONIC SIGMA DESIG	41132, 41193 40869 41360 40623, 41178 40698, 40752 40490, 40573, 40744, 40820, 40899, 41044, 41075 40695, 40873 40630, 40675, 40752, 41256 AGE 41117 40633, 41043, 41077 40533, 40839 SNS 40674 40869, 41099 40533, 40864,	PANASONIC PHILIPS PIONEER POLK AUDIO QUASAR REALISTIC SAMSUNG SEGA SONY TECHNICS THETA DIGIT YAMAHA DVD RECO APEX DIGITA ASPIRE DIGIT COBY CYBERHOME	40064, 40194 40023, 40059 40194 40204 40203 40323 40023 40193, 40201 40204 PAL 40194 40217 ORDER STAL 51168 51086 3 51129
DVD PLAY ADCOM ADVENT AIWA AKAI ALCO ALLEGRO AMPHION M AMW APEX DIGITA	31139 31972 FER 41094 41016 40641 40899, 41089 40790 40869 EDIA WORKS 40872 40872 AU THE TOTAL TOTAL TOTAL TOTAL TOTAL TAL 41407 40790, 41041,	GRADIENTE GREENHILL GRUNDIG HARMAN/KA HITACHI HITEKER INITIAL INTEGRA JATON JBL JENSEN JSI JVC JWIN KAWASAKI KENWOOD KLH KONKA	40490 40717 40539 RDON 40582, 40702 40573, 40664, 41247 40672 40717 40571, 40627 41078 40702 41016 41423 40558, 40623, 40867 41049, 41051 40790 40490, 40534, 40682, 40737 40717, 40790, 411261 40711	RJTECH ROTEL ROWA SAMPO SAMSUNG SANSUI SANYO SHARP SHERWOOD SHINSONIC SIGMA DESIG	41132, 41193 40869 41360 40623, 41178 40823 40698, 40752 40490, 40573, 40744, 40820, 40899, 41044, 41075 40695, 40873 40630, 40675, 40752, 41256 AGE 41117 40633, 41043, 41077 40533, 40839 SINS 40674 40869, 41099 40533, 40864, 41017, 41033,	PANASONIC PHILIPS PIONEER POLK AUDIO QUASAR REALISTIC SAMSUNG SEGA SONY TECHNICS THETA DIGIT YAMAHA DVD RECO APEX DIGITA ASPIRE DIGIT COBY CYBERHOME	40064, 40194 40023, 40059 40194 40204 40203 40323 40023 40193, 40201 40204 VAL 40194 40217 DRDER SL 51056 TAL 51168 51086 3 51129 50675, 51334
DVD PLAY ADCOM ADVENT AIWA AKAI ALCO ALLEGRO AMPHION M AMW APEX DIGITA ASPIRE DIGITA AUDIOVOX	31139 31972 FER 41094 41016 40641 40899, 41089 40790 40869 EDIA WORKS 40872 40872 XL 40672, 40717, 40755, 40794, 40796, 40797, 40830, 41004, 41020, 41061, 41100 TTAL 41407 40790, 41041, 41071, 41072, 41121, 41122	GRADIENTE GREENHILL GRUNDIG HARMAN/KA HITACHI HITEKER INITIAL INTEGRA JATON JBL JENSEN JSI JVC JWIN KAWASAKI KENWOOD KLH KONKA KOSS LANDEL	40490 40717 40539 RDON 40582, 40702 40573, 40664, 41247 40672 40717 40571, 40627 41078 40702 41016 41423 40558, 40623, 40867 41049, 41051 40790 40490, 40534, 40682, 40737 40717, 40790, 41020, 41149, 41261 40711 40651, 41423 40826	RJTECH ROTEL ROWA SAMPO SAMSUNG SANSUI SANYO SHARP SHARPER IMA SHERWOOD SHINSONIC SIGMA DESIGNA SONIC BLUE SONY	41132, 41193 40869 41360 40623, 41178 40698, 40752 40490, 40573, 40744, 40820, 40899, 41044, 41075 40695, 40873 40695, 40873 40630, 40675, 40752, 41256 AGE 41117 40533, 41043, 411077 40533, 40849 40869, 41099 40533, 40864, 41017, 41033, 41533 41122	PANASONIC PHILIPS PIONEER POLK AUDIO QUASAR REALISTIC SAMSUNG SEGA SONY TECHNICS THETA DIGIT YAMAHA DVD RECC APEX DIGITA ASPIRE DIGIT COBY CYBERHOME FUNAI GATEWAY	40064, 40194 40023, 40059 40194 40204 40203 40323 40023 40193, 40201 40204 *AL 40194 40217 ORDER *L 51056 TAL 51168 51086 3 51129 50675, 51334 51073, 51158 50741, 51158,
DVD PLAY ADCOM ADVENT AIWA AKAI ALCO ALLEGRO AMPHION M AMW APEX DIGITA ASPIRE DIGIT AUDIOVOX AXION	31139 31972 FER 41094 41016 40641 40899, 41089 40790 40869 EDIA WORKS 40872 40872 AU 40672, 40717, 40755, 40794, 40796, 40797, 40830, 41004, 41020, 41061, 41100 TTAL 41407 40790, 41041, 41071, 41072, 41121, 41122 41071, 41072	GRADIENTE GREENHILL GRUNDIG HARMAN/KA HITACHI HITEKER INITIAL INTEGRA JATON JBL JENSEN JSI JVC JWIN KAWASAKI KENWOOD KLH KONKA KOSS LANDEL LASONIC	40490 40717 40539 RDON 40582, 40702 40573, 40664, 41247 40672 40717 40571, 40627 41016 41423 40558, 40623, 40867 41049, 41051 40790 40490, 40534, 40682, 40737 40717, 40790, 41020, 41149, 41261 40711 40651, 41423 40826 40798, 41173	RJTECH ROTEL ROWA SAMPO SAMSUNG SANSUI SANYO SHARP SHERWOOD SHINSONIC SIGMA DESIG SONIC BLUE SONY	41132, 41193 40869 41360 40623, 41178 40823 40698, 40752 40490, 40573, 40744, 40820, 40899, 41044, 41075 40695, 40873 40630, 40675, 40752, 41256 AGE 41117 40633, 41043, 41077 40533, 40839 6NS 40674 40869, 41099 40533, 40864, 41017, 41033, 41122 41074	PANASONIC PHILIPS PIONEER POLK AUDIO QUASAR REALISTIC SAMSUNG SEGA SONY TECHNICS THETA DIGIT YAMAHA DVD RECO APEX DIGITA ASPIRE DIGIT COBY CYBERHOME FUNAI GATEWAY GO VIDEO	40064, 40194 40023, 40059 40194 40204 40203 40323 40023 40193, 40201 40204 YAL 40194 40217 ORDER AL 51056 TAL 51168 51086 3 51129 50675, 51334 51073, 51158 50741, 51158, 51304, 51730
DVD PLAY ADCOM ADVENT AIWA AKAI ALCO ALLEGRO AMPHION M APEX DIGITA ASPIRE DIGITA AUDIOVOX AXION B & K	31139 31972 FER 41094 41016 40041 40899, 41089 40790 40869 EDIA WORKS 40872 40872 40872 40672, 40717, 40755, 40794, 40796, 40797, 40830, 41004, 41020, 41061, 41100 TAL 41407 40790, 41041, 41071, 41072, 41121, 41122 41071, 41072 40655, 40662	GRADIENTE GREENHILL GRUNDIG HARMAN/KA HITACHI HITEKER INITIAL INTEGRA JATON JBL JENSEN JSI JVC JWIN KAWASAKI KENWOOD KLH KONKA KOSS LANDEL LASONIC LECSON	40490 40717 40539 RDON 40582, 40702 40573, 40664, 41247 40672 40717 40571, 40627 41078 40702 41016 41423 40558, 40623, 400867 41049, 41051 40790 40409, 40534, 40682, 40737 40717, 40790, 41020, 41149, 41261 40711 40651, 41423 40826 40798, 41173 41533	RJTECH ROTEL ROWA SAMPO SAMSUNG SANSUI SANYO SHARP SHERWOOD SHINSONIC SIGMA DESIC SONIC BLUE SONY SOVA SUNGALE SUPERSCAN	41132, 41193 40869 41360 40623, 41178 40823 40698, 40752 40490, 40573, 40744, 40820, 40899, 41044, 411075 40695, 40873 40630, 40675, 40752, 41256 AGE 41117 40633, 41043, 41077 40533, 40839 SNS 40674 40869, 41099 40533, 40864, 41017, 41033, 41533 41122 41074 40821	PANASONIC PHILIPS PIONEER POLK AUDIO QUASAR REALISTIC SAMSUNG SEGA SONY TECHNICS THETA DIGIT YAMAHA DVD RECO APEX DIGITA ASPIRE DIGIT COBY CYBERHOME FUNAI GATEWAY GO VIDEO ILO	40064, 40194 40023, 40059 40194 40204 40203 40323 40023 40193, 40201 40204 *AL 40194 40217 ORDER *LL 51056 TAL 51168 51086 3 51129 50675, 51334 51073, 51158 50741, 51158, 51304, 51730 51348
DVD PLAY ADCOM ADVENT AIWA AKAI ALCO ALLEGRO AMPHION M AMW APEX DIGITA ASPIRE DIGIT AUDIOVOX AXION	31139 31972 FER 41094 41016 40641 40899, 41089 40790 40869 EDIA WORKS 40872 40872 XL 40672, 40717, 40755, 40794, 40796, 40797, 40830, 41004, 41020, 41061, 41100 TAL 41407 40790, 41041, 41071, 41072, 41121, 41122 410675, 40662 DESIGN	GRADIENTE GREENHILL GRUNDIG HARMAN/KA HITACHI HITEKER INITIAL INTEGRA JATON JBL JENSEN JSI JVC JWIN KAWASAKI KENWOOD KLH KONKA KOSS LANDEL LASONIC LECSON LENOXX	40490 40717 40539 RDON 40582, 40702 40573, 40664, 41247 40672 40717 40571, 40627 41078 40702 41016 41423 40558, 40623, 409867 41049, 41051 40790 40490, 40534, 40682, 40737 40717, 40790, 41149, 41261 40711 40651, 41423 40886 40708, 41173 41533 41127	RJTECH ROTEL ROWA SAMPO SAMSUNG SANSUI SANYO SHARP SHARPER IMA SHERWOOD SHINSONIC SIGMA DESIGN SONIC BLUE SONY SOVA SUNGALE SUPERSCAN SVA	41132, 41193 40869 41360 40623, 41178 40823 40698, 40752 40490, 40573, 40744, 40820, 40899, 41044, 41075 40695, 40873 40630, 40675, 40752, 41256 AGE 41117 40633, 41043, 41077 40533, 40839 SINS 40674 40869, 41099 40533, 40864, 41017, 41033, 41533 41122 41074 40821 40860, 41105	PANASONIC PHILIPS PIONEER POLK AUDIO QUASAR REALISTIC SAMSUNG SEGA SONY TECHNICS THETA DIGIT YAMAHA DVD RECO APEX DIGITA ASPIRE DIGIT COBY CYBERHOME FUNAI GATEWAY GO VIDEO ILO JVC	40064, 40194 40023, 40059 40194 40204 40203 40323 40023 40193, 40201 40204 VAL 40194 40217 DRDER SL 51056 TAL 51168 51086 3 51129 50675, 51334 51073, 51158 50741, 51158, 51304, 51730 51348 51164, 51275
DVD PLAY ADCOM ADVENT AIWA AKAI ALCO ALLEGRO AMPHION M AMW APEX DIGITA ASPIRE DIGITA AUDIOVOX AXION B & K BEL CANTO	31139 31972 FER 41094 41016 40641 40899, 41089 40790 40869 EDIA WORKS 40872 40872 AU. 40672, 40717, 40755, 40794, 40796, 40797, 40830, 41004, 41100 TAL 41407 40790, 41041, 41071, 41072, 41121, 41122 41071, 41072, 41121, 41122 41071, 41072 40655, 40662 DESIGN 41571	GRADIENTE GREENHILL GRUNDIG HARMAN/KA HITACHI HITEKER INITIAL INTEGRA JATON JBL JENSEN JSI JVC JWIN KAWASAKI KENWOOD KLH KONKA KOSS LANDEL LASONIC LECSON	40490 40717 40539 RDON 40582, 40702 40573, 40664, 41247 40672 40717 40571, 40627 41078 40702 41016 41423 40558, 40623, 40867 41049, 41051 40790 40490, 40534, 40682, 40737 40717, 40790, 41149, 41261 40711 40651, 41423 40826 40798, 41173 41127 40591, 40741,	RJTECH ROTEL ROWA SAMPO SAMSUNG SANSUI SANYO SHARP SHERWOOD SHINSONIC SIGMA DESIC SONIC BLUE SONY SOVA SUNGALE SUPERSCAN	41132, 41193 40869 41360 40623, 41178 40823 40698, 40752 40490, 40573, 40744, 40820, 40899, 41044, 41075 40695, 40873 40630, 40675, 40752, 41256 AGE 41117 40633, 41043, 41077 40533, 40839 INS 40674 40869, 41099 40533, 40864, 41017, 41033, 41533 41122 41074 40821 40860, 41105 40860, 41105 408675, 40821,	PANASONIC PHILIPS PIONEER POLK AUDIO QUASAR REALISTIC SAMSUNG SEGA SONY TECHNICS THETA DIGIT YAMAHA DVD RECO APEX DIGITA ASPIRE DIGIT COBY CYBERHOME FUNAI GATEWAY GO VIDEO ILO JVC LG	40064, 40194 40023, 40059 40194 40204 40203 40323 40023 40193, 40201 40204 VAL 40194 40217 DRDER IAL 51056 TAL 51168 51086 3 51129 50675, 51334 51073, 51158 50741, 51158, 51304, 51730 51348 51164, 51275 50741
DVD PLAY ADCOM ADVENT AIWA AKAI ALCO ALLEGRO AMPHION M AMW APEX DIGITA ASPIRE DIGITA AUDIOVOX AXION B & K BEL CANTO	31139 31972 FER 41094 41016 40641 40899, 41089 40790 40869 EDIA WORKS 40872 40872 XL 40672, 40717, 40755, 40794, 40796, 40797, 40830, 41004, 41100 TAL 41407 40790, 41041, 41071, 41072, 41121, 41122 41071, 41072 40655, 40662 DESIGN 41571	GRADIENTE GREENHILL GRUNDIG HARMAN/KA HITACHI HITEKER INITIAL INTEGRA JATON JBL JENSEN JSI JVC JWIN KAWASAKI KENWOOD KLH KONKA KOSS LANDEL LASONIC LECSON LENOXX LG	40490 40717 40539 RDON 40582, 40702 40573, 40664, 41247 40672 40717 40571, 40627 41016 41423 40558, 40623, 40867 41049, 41051 40790 40490, 40534, 40682, 40737 40717, 40790, 41020, 41149, 41123 40811 40651, 41423 40826 40798, 41173 41533 41127 40591, 40741, 40801, 40869	RJTECH ROTEL ROWA SAMPO SAMSUNG SANSUI SANYO SHARP SHARPER IMA SHERWOOD SHINSONIC SIGMA DESIGNATION OF SONIC BLUE SONY SOVA SUNGALE SUPERSCAN SVA SYLVANIA	41132, 41193 40869 41360 40623, 41178 40823 40698, 40752 40490, 40573, 40744, 40820, 40899, 41044, 41075 40695, 40873 40630, 40675, 40752, 41256 AGE 41117 40633, 41043, 41077 40533, 40839 SNS 40674 40869, 41099 40533, 40864, 41017, 41033, 41533 41122 41074 40821 40860, 41105 40675, 40821, 41268	PANASONIC PHILIPS PIONEER POLK AUDIO QUASAR REALISTIC SAMSUNG SEGA SONY TECHNICS THETA DIGIT YAMAHA DVD RECO APEX DIGITA ASPIRE DIGIT COBY CYBERHOME FUNAI GATEWAY GO VIDEO ILO JVC	40064, 40194 40023, 40059 40194 40204 40203 40323 40193, 40201 40204 AL 40194 40217 ORDER LL 51056 TAL 51168 51086 3 51129 50675, 51334 510741, 51158, 51304, 51730 51348 51164, 51275 50741 51158, 51416,
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DVD PLAY ADCOM ADVENT AIWA AKAI ALCO ALLEGRO AMPHION M AMW APEX DIGITA ASPIRE DIGITA AUDIOVOX AXION B & K BEL CANTO BLAUPUNKT BLUE PARAL	31139 31972 FER 41094 41016 40641 40899, 41089 40790 40869 EDIA WORKS 40872 40872 XL 40672, 40717, 40755, 40794, 40796, 40797, 40830, 41004, 41100 TAL 41407 40790, 41041, 41071, 41072, 41121, 41122 41071, 41072 40655, 40662 DESIGN 41571	GRADIENTE GREENHILL GRUNDIG HARMAN/KA HITACHI HITEKER INITIAL INTEGRA JATON JBL JENSEN JSI JVC JWIN KAWASAKI KENWOOD KLH KONKA KOSS LANDEL LASONIC LECSON LENOXX LG	40490 40717 40539 RDON 40582, 40702 40573, 40664, 41247 40672 40717 40571, 40627 41016 41423 40558, 40623, 40867 41049, 41051 40790 40490, 40534, 40682, 40737 40717, 40790, 41020, 41149, 41123 40811 40651, 41423 40826 40798, 41173 41533 41127 40591, 40741, 40801, 40869	RJTECH ROTEL ROWA SAMPO SAMSUNG SANSUI SANYO SHARP SHARPER IMA SHERWOOD SHINSONIC SIGMA DESIGNATION OF SONIC BLUE SONY SOVA SUNGALE SUPERSCAN SVA SYLVANIA	41132, 41193 40869 41360 40623, 41178 40698, 40752 40490, 40573, 40744, 40820, 40899, 41044, 41075 40695, 40873 40695, 40873 40630, 40675, 40752, 41256 AGE 41117 40633, 41043, 411077 40533, 40839 SNS 40674 40869, 41099 40533, 40864, 41017, 41033, 41533 41122 41074 40860, 41105 40675, 40821, 41268 40675, 41268	PANASONIC PHILIPS PIONEER POLK AUDIO QUASAR REALISTIC SAMSUNG SEGA SONY TECHNICS THETA DIGIT YAMAHA DVD RECO APEX DIGITA ASPIRE DIGIT COBY CYBERHOME FUNAI GATEWAY GO VIDEO ILO JVC LG	40064, 40194 40023, 40059 40194 40204 40203 40323 40193, 40201 40204 *AL 40194 40217 ORDER LL 51056 FAL 51168 51086 3 51129 50675, 51334 51073, 51158 50741, 51158, 51304, 51730 51348 51164, 51275 50741 51158, 51416, 51440
DVD PLAY ADCOM ADVENT AIWA AKAI ALCO ALLEGRO AMPHION M AMW APEX DIGITA ASPIRE DIGITA AUDIOVOX AXION B & K BEL CANTO BLAUPUNKT BLUE PARAL	31139 31972 FER 41094 41016 40641 40899, 41089 40790 40869 EDIA WORKS 40872 40872 XL 40672, 40717, 40755, 40794, 40796, 40797, 40830, 41004, 41020, 41061, 41100 TTAL 41407 40790, 41041, 41071, 41072, 41121, 41122 41071, 41072 40655, 40662 DESIGN 41571 40717 DESUST1	GRADIENTE GREENHILL GRUNDIG HARMAN/KA HITACHI HITEKER INITIAL INTEGRA JATON JBL JENSEN JSI JVC JWIN KAWASAKI KENWOOD KLH KONKA KOSS LANDEL LASONIC LECSON LENOXX LG LOEWE	40490 40717 40539 RDON 40582, 40702 40573, 40664, 41247 40672 40717 40571, 40627 41078 40702 41016 41423 40558, 40623, 40867 41049, 41051 40790 40490, 40534, 40682, 40737 40717, 40790, 41020, 41149, 41261 40711 40651, 41423 40826 40798, 41173 41533 41127 40591, 40741, 40801, 40869 40511	RJTECH ROTEL ROWA SAMPO SAMSUNG SANSUI SANYO SHARP SHARPER IMA SHERWOOD SHINSONIC SIGMA DESIGN SONIC BLUE SONY SOVA SUNGALE SUPERSCAN SVA SYLVANIA SYMPHONIC	41132, 41193 40869 41360 40623, 41178 40698, 40752 40490, 40573, 40744, 40820, 40899, 41044, 41075 40695, 40873 40695, 40873 40630, 40675, 40752, 41256 AGE 41117 40633, 41043, 411077 40533, 40839 SNS 40674 40869, 41099 40533, 40864, 41017, 41033, 41533 41122 41074 40860, 41105 40675, 40821, 41268 40675, 41268	PANASONIC PHILIPS PIONEER POLK AUDIO QUASAR REALISTIC SAMSUNG SEGA SONY TECHNICS THETA DIGIT YAMAHA DVD RECO APEX DIGITA ASPIRE DIGIT COBY CYBERHOME FUNAI GATEWAY GO VIDEO ILO JVC LG LITEON	40064, 40194 40023, 40059 40194 40204 40203 40323 40193, 40201 40204 *AL 40194 40217 ORDER LL 51056 FAL 51168 51086 3 51129 50675, 51334 51073, 51158 50741, 51158, 51304, 51730 51348 51164, 51275 50741 51158, 51416, 51440

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HARMAN/KARE 60 HITACHI 60 INTEGRA 60 JVC 60 KENWOOD 60 KLH 6	DON 10157 10032 10101 10072 10028, 60190, 10626 11318, 61372,	HARMAN/KAF JVC KENWOOD KLH	RDER RDON 71202 71294 70626 71373	AMC AMPLIFIER TE ANAM ARCAM ATLANTIC TE	80189, 81405 81077 8CHNOLOGIES 81584 81074, 81609 81189 CHNOLOGY 81487	PANASONIC PHILIPS PIONEER POLK AUDIO	IO81487 80039, 80309, 81308, 81518 80189, 81189, 81269 80014, 80150, 80531, 80630, 81023 80189, 81414
HARMAN/KARE 60 HITACHI 60 INTEGRA 60 JVC 60 KENWOOD 60 KLH 66	DON 10157 10032 10101 10072 100028, 60190, 10626 11318, 61372, 11711	HARMAN/KAF JVC KENWOOD KLH LG	RDER RDON 71202 71294 70626 71373 71208	AMC AMPLIFIER TE ANAM ARCAM	80189, 81405 81077 8CHNOLOGIES 81584 81074, 81609 81189 CHNOLOGY 81487	PANASONIC PHILIPS PIONEER POLK AUDIO QUASAR	IO81487 80039, 80309, 81308, 81518 80189, 81189, 81269 80014, 80150, 80531, 80630, 81023 80189, 81414 80039
HARMAN/KARE 60 HITACHI 60 INTEGRA 60 JVC 60 KENWOOD 60 KLH 66 KRELL 60	DON 10157 10032 10101 10072 100028, 60190, 10626 11318, 61372, 11711 10157	HARMAN/KAR JVC KENWOOD KLH LG MARANTZ	RDER RDON 71202 71294 70626 71373	AMC AMPLIFIER TE ANAM ARCAM ATLANTIC TEC AUDIOTRONIC	80189, 81405 81077 6CHNOLOGIES 81584 81074, 81609 81189 CCHNOLOGY 81487	PANASONIC PHILIPS PIONEER POLK AUDIO	IO81487 80039, 80309, 81308, 81518 80189, 81189, 81269 80014, 80150, 80531, 80630, 81023 80189, 81414 80039 80054, 80346,
HARMAN/KARE 60 HITACHI 60 INTEGRA 66 JVC 60 KENWOOD 66 KLH 66 KRELL 60 LINN 66	DON 10157 10032 10101 10072 100028, 60190, 10626 11318, 61372, 11711	HARMAN/KAF JVC KENWOOD KLH LG	RDER RDON 71202 71294 70626 71373 71208 70626	AMC AMPLIFIER TE ANAM ARCAM ATLANTIC TE	80189, 81405 81077 8CHNOLOGIES 81584 81074, 81609 81189 CHNOLOGY 81487	PANASONIC PHILIPS PIONEER POLK AUDIO QUASAR	IO81487 80039, 80309, 81308, 81518 80189, 81189, 81269 80014, 80150, 80531, 80630, 81023 80189, 81414 80039
HARMAN/KARD 60 HITACHI 60 INTEGRA 60 JVC 60 KENWOOD 60 KLH 66 KRELL 60 LINN 60 MAGNAVOX 60	DON 10157 10032 10101 10072 10028, 60190, 10626 11318, 61372, 11711 10157	HARMAN/KAR JVC KENWOOD KLH LG MARANTZ PHILIPS	61907 RDER RDON 71202 71294 70626 71373 71208 70626 70626	AMC AMPLIFIER TE ANAM ARCAM ATLANTIC TE AUDIOTRONIC AUDIOVOX	80189, 81405 81077 6CHNOLOGIES 81584 81074, 81609 81189 CHNOLOGY 81487 2 81189 81627	PANASONIC PHILIPS PIONEER POLK AUDIO QUASAR	IO81487 80039, 80309, 81308, 81518 80189, 81189, 81269 80014, 80150, 80531, 80630, 81023 80189, 81414 80039 80054, 80346, 80360, 80531,
HARMAN/KARD 60 HITACHI 60 INTEGRA 60 JVC 60 KENWOOD 60 KLH 60 KLH 60 KRELL 60 LINN 60 MAGNAVOX 60 MARANTZ 60	DON 0157 0032 0101 0072 0028, 60190, 0626 1318, 61372, 1711 0157 0057	HARMAN/KAR JVC KENWOOD KLH LG MARANTZ PHILIPS PIONEER	61907 RDER RDON 71202 71294 70626 71373 71208 70626 70626 70626 71062, 71087	AMC AMPLIFIER TE ANAM ARCAM ATLANTIC TE AUDIOTRONIC AUDIOVOX	80189, 81405 81077 CCHNOLOGIES 81584 81074, 81609 81189 CHNOLOGY 81487 C 81189 81627 80701, 80820, 80840	PANASONIC PHILIPS PIONEER POLK AUDIO QUASAR	IO81487 80039, 80309, 81308, 81518 80189, 81189, 81269 80014, 80150, 80531, 80630, 81023 80189, 81414 80039 80054, 80346, 80360, 80531, 81023, 81074,
HARMAN/KARD 60 HITACHI 61 INTEGRA 60 JVC 60 KENWOOD 66 KLH 66 KLH 66 KRELL 60 LINN 60 MAGNAVOX 66 MARANTZ 66	DON 00157 00032 00101 00072 00028, 60190, 0626 11318, 61372, 11711 00157 00038, 60157 00038, 60157 00029, 60038,	HARMAN/KAR JVC KENWOOD KLH LG MARANTZ PHILIPS PIONEER RCA	61907 RDER RDON 71202 71294 70626 71373 71208 70626 70626 71062, 71087 70053, 70420	AMC AMPLIFIER TE ANAM ARCAM ATLANTIC TEC AUDIOTRONIC AUDIOVOX B & K	80189, 81405 81077 CCHNOLOGIES 81584 81074, 81609 81189 CHNOLOGY 81487 C 81189 81627 80701, 80820, 80840	PANASONIC PHILIPS PIONEER POLK AUDIO QUASAR RCA	IO81487 80039, 80309, 81308, 81518 80189, 81189, 81269 80014, 80150, 80531, 80630, 81023 80189, 81414 80039 80054, 80346, 80360, 80531, 81023, 81074, 81154, 81609
HARMAN/KARE HITACHI 66 HITACHI 66 KENWOOD 66 KLH 66 KRELL 66 LINN 66 MAGNAVOX 66 MARANTZ 66 66	DON 10157 10032 10101 10072 10028, 60190, 10626 11318, 61372, 11711 10157 100157 10038, 60157 10029, 60038, 10157, 60180,	HARMAN/KAR JVC KENWOOD KLH LG MARANTZ PHILIPS PIONEER RCA	61907 RDER RDON 71202 71294 70626 71373 71208 70626 70626 71062, 71087 70053, 70420 70000, 70100,	AMC AMPLIFIER TE ANAM ARCAM ATLANTIC TEC AUDIOTRONIC AUDIOVOX B & K	80189, 81405 81077 8CHNOLOGIES 81584 81074, 81609 81189 CHNOLOGY 81487 81189 81627 80701, 80820, 80840 ESIGN	PANASONIC PHILIPS PIONEER POLK AUDIO QUASAR RCA REALISTIC	IO81487 80039, 80309, 81308, 81518 80189, 81189, 81269 80014, 80150, 80531, 80630, 81023 80189, 81414 80039 80054, 80346, 80360, 80531, 81023, 81074, 81154, 81609 80163
HARMAN/KARD 60 HITACHI 60 INTEGRA 60 JVC 66 KENWOOD 66 KLH 66 KRELL 66 LINN 66 MAGNAVOX 66 MARANTZ 66 MCINTOSH 66	DON 0157 0032 0101 0072 0028, 60190, 00626 1318, 61372, 1711 0157 00157 0029, 60038, 00157, 60180, 00435, 60626 00256, 60290, 00660	HARMAN/KAR JVC KENWOOD KLH LG MARANTZ PHILIPS PIONEER RCA SONY TDK TEAC	61907 RDER RDON 71202 71294 70626 71373 71208 70626 70626 70626 71062, 71087 70053, 70420 70000, 70100, 71364 71208 70420	AMC AMPLIFIER TE ANAM ARCAM ATLANTIC TEC AUDIOTRONIC AUDIOVOX B & K BEL CANTO D BK BOSE	80189, 81405 81077 ECHNOLOGIES 81584 81074, 81609 81189 CHNOLOGY 81487 E 81189 81627 80701, 80820, 80840 ESIGN 81584 80702 81933	PANASONIC PHILIPS PIONEER POLK AUDIO QUASAR RCA REALISTIC SAMSUNG SANSUI	IO81487 80039, 80309, 81308, 81518 80189, 81189, 81269 80014, 80150, 80531, 80630, 81023 80189, 81414 80039 80054, 80346, 80360, 80531, 81023, 81074, 81154, 81609 80163 81304 80189, 80346, 81189
HARMAN/KARD 60 HITACHI 60 INTEGRA 60 JVC 60 KENWOOD 60 KLH 60 KLH 60 LINN 60 MAGNAVOX 60 MARANTZ 60 MCINTOSH 60 MCS 60	DON 00157 00032 00101 00072 00028, 60190, 00626 11318, 61372, 11711 00157 00157 00038, 60157 00029, 60038, 0157, 60180, 00435, 60626 00256, 60290, 00660 00029	HARMAN/KAR JVC KENWOOD KLH LG MARANTZ PHILIPS PIONEER RCA SONY TDK	61907 RDER RDON 71202 71294 70626 71373 71208 70626 70626 71062, 71087 70053, 70420 70000, 70100, 71364 71208	AMC AMPLIFIER TE ANAM ARCAM ATLANTIC TEC AUDIOTRONIC AUDIOVOX B & K BEL CANTO D BK	80189, 81405 81077 CCHNOLOGIES 81584 81074, 81609 81189 CHNOLOGY 81487 C 81189 81627 80701, 80820, 80840 ESIGN 81584 80702 81933 USTICS	PANASONIC PHILIPS PIONEER POLK AUDIO QUASAR RCA REALISTIC SAMSUNG SANSUI SANYO	IO81487 80039, 80309, 81308, 81518 80189, 81189, 81269 80014, 80150, 80531, 80630, 81023 80189, 81414 80039 80054, 80346, 80360, 80531, 81023, 81074, 81154, 81609 80163 81304 80189, 80346, 81189 80219
HARMAN/KARD HITACHI 66 HITACHI 66 KENWOOD 66 KLH 66 KRELL 66 LINN 66 MAGNAVOX 66 MCINTOSH 66 MCS 66 MIRO 66	DON 10157 10032 10101 10072 10028, 60190, 10626 11318, 61372, 11711 10157 10038, 60157 10029, 60038, 10157, 60180, 10435, 60626 100256, 60290, 10660 10029	HARMAN/KAR JVC KENWOOD KLH LG MARANTZ PHILIPS PIONEER RCA SONY TDK TEAC	61907 RDER RDON 71202 71294 70626 71373 71208 70626 70626 70626 71062, 71087 70053, 70420 70000, 70100, 71364 71208 70420	AMC AMPLIFIER TE ANAM ARCAM ATLANTIC TE AUDIOTRONIC AUDIOVOX B & K BEL CANTO D BK BOSE BOSTON ACOL	80189, 81405 81077 CCHNOLOGIES 81584 81074, 81609 81189 CHNOLOGY 81487 C 81189 81627 80701, 80820, 80840 ESIGN 81584 80702 81933 USTICS 81918	PANASONIC PHILIPS PIONEER POLK AUDIO QUASAR RCA REALISTIC SAMSUNG SANSUI SANYO SCOTT	IO81487 80039, 80309, 81308, 81518 80189, 81189, 81269 80014, 80150, 80531, 80630, 81023 80189, 81414 80039 80054, 80346, 80360, 80531, 81023, 81074, 81154, 81609 80163 81304 80189, 80346, 81189 80219 80163, 80322
HARMAN/KARD HITACHI INTEGRA 60 KENWOOD 60 KLH 60 KRELL LINN 60 MAGNAVOX 60 MCINTOSH 60 MCS 60 MIRO 60 60 MISSION 60 60 60 60 60 60 60 60 60 6	DON 10157 10032 10101 10072 10028, 60190, 10626 11318, 61372, 11711 10157 10038, 60157 10029, 60038, 10157, 60180, 10435, 60626 10256, 60290, 10660 10029	HARMAN/KAR JVC KENWOOD KLH LG MARANTZ PHILIPS PIONEER RCA SONY TDK TEAC YAMAHA	61907 RDER RDON 71202 71294 70626 71373 71208 70626 70626 70627 70033, 70420 70000, 70100, 71364 71208 70420 70888, 71292	AMC AMPLIFIER TE ANAM ARCAM ATLANTIC TE AUDIOTRONIC AUDIOVOX B & K BEL CANTO D BK BOSE BOSTON ACOL BRIX	80189, 81405 81077 8CHNOLOGIES 81584 81074, 81609 81189 CHNOLOGY 81487 81627 80701, 80820, 80840 ESIGN 81584 80702 81933 UUSTICS 81918 81602	PANASONIC PHILIPS PIONEER POLK AUDIO QUASAR RCA REALISTIC SAMSUNG SANSUI SANYO	IO81487 80039, 80309, 81308, 81518 80189, 81189, 81269 80014, 80150, 80531, 80630, 81023 80189, 81414 80039 80054, 80346, 80360, 80531, 81023, 81074, 81154, 81609 80163 81304 80189, 80346, 81189 80219 80163, 80322 81077, 81423,
HARMAN/KARE HITACHI INTEGRA 60 KENWOOD 61 KLH 60 KRELL LINN 60 MAGNAVOX 60 MCINTOSH 60 MCS MIRO MISSION 60 60 60 MTC 60 60 60 60 60 60 60 60 60 6	DON 10157 10032 10101 10072 10028, 60190, 10626 11318, 61372, 11711 10157 100157 10029, 60038, 10157, 60180, 10435, 60626 10256, 60290, 10660 100029 100000 10157 10420	HARMAN/KAR JVC KENWOOD KLH LG MARANTZ PHILIPS PIONEER RCA SONY TDK TEAC YAMAHA	61907 RDER RDON 71202 71294 70626 71373 71208 70626 70626 71062, 71087 70053, 70420 70000, 70100, 71364 71208 70420 70888, 71292	AMC AMPLIFIER TE ANAM ARCAM ATLANTIC TE AUDIOTRONIC AUDIOVOX B & K BEL CANTO D BK BOSE BOSTON ACOL BRIX CAPETRONIC	80189, 81405 81077 8CHNOLOGIES 81584 81074, 81609 81189 CHNOLOGY 81487 81189 81627 80701, 80820, 80840 ESIGN 81584 80702 81933 UUSTICS 81918 81602 80531	PANASONIC PHILIPS PIONEER POLK AUDIO QUASAR RCA REALISTIC SAMSUNG SANSUI SANYO SCOTT SHERWOOD	IO81487 80039, 80309, 81308, 81518 80189, 81189, 81269 80014, 80150, 80531, 80630, 81023 80189, 81414 80039 80054, 80346, 80360, 80531, 81023, 81074, 81154, 81609 80163 81304 80189, 80346, 81189 80219 80163, 80322 81077, 81423, 81567, 81918
HARMAN/KARE HITACHI 66 HITACHI 66 KENWOOD 66 KLH 66 KRELL 66 LINN 66 MAGNAVOX 66 MCINTOSH 66 MCS 66 MIRO 66 MISSION 66 MTC 66 NSM 66	DON 10157 10032 10101 10072 10028, 60190, 10626 11318, 61372, 11711 10157 100157 100157 10029, 60038, 10157, 60180, 10435, 60626 10256, 60290, 10660 10029 100000 10157 10420 10157	HARMAN/KAR JVC KENWOOD KLH LG MARANTZ PHILIPS PIONEER RCA SONY TDK TEAC YAMAHA MD RECOR	61907 RDER RDON 71202 71294 70626 71373 71208 70626 71062, 71087 70053, 70420 70000, 70100, 71364 71208 70420 70888, 71292	AMC AMPLIFIER TE ANAM ARCAM ATLANTIC TE AUDIOTRONIC AUDIOVOX B & K BEL CANTO D BK BOSE BOSTON ACOL BRIX	80189, 81405 81077 ECHNOLOGIES 81584 81074, 81609 81189 CHNOLOGY 81487 81189 81627 80701, 80820, 80840 ESIGN 81584 80702 81933 USTICS 81918 81602 80531 80008, 80121,	PANASONIC PHILIPS PIONEER POLK AUDIO QUASAR RCA REALISTIC SAMSUNG SANSUI SANYO SCOTT	IO81487 80039, 80309, 81308, 81518 80189, 81189, 81269 80014, 80150, 80531, 80630, 81023 80189, 81414 80039 80054, 80346, 80360, 80531, 81023, 81074, 81154, 81609 80163 81304 80189, 80346, 81189 80219 80163, 80322 81077, 81423, 81567, 81918 81602, 81627,
HARMAN/KARD HITACHI 66 HITACHI 66 KENWOOD 66 KLH 66 KRELL 66 LINN 66 MAGNAVOX 66 MCINTOSH 66 MIRO 66 MISSION 66 MTC 66 NSM 66 ONKYO 66	DON 00157 00032 00101 00072 00028, 60190, 00626 11318, 61372, 11711 00157 0038, 60157 0029, 60038, 0157, 60180, 00435, 60626 00256, 60290, 00660 00029 00000 00157 00420, 00157 00157	HARMAN/KAR JVC KENWOOD KLH LG MARANTZ PHILIPS PIONEER RCA SONY TDK TEAC YAMAHA MD RECOR DENON KENWOOD	61907 RDER RDON 71202 71294 70626 71373 71208 70626 70626 71062, 71087 70053, 70420 70000, 70100, 71364 71208 70420 70888, 71292 RDER 70873 70681, 70826	AMC AMPLIFIER TE ANAM ARCAM ATLANTIC TE AUDIOTRONIC AUDIOVOX B & K BEL CANTO D BK BOSE BOSTON ACOL BRIX CAPETRONIC	80189, 81405 81077 CCHNOLOGIES 81584 81074, 81609 81189 CHNOLOGY 81487 C 81189 81627 80701, 80820, 80840 ESIGN 81584 80702 81933 USTICS 81918 81602 80531 80008, 80121, 80189, 80360,	PANASONIC PHILIPS PIONEER POLK AUDIO QUASAR RCA REALISTIC SAMSUNG SANSUI SANYO SCOTT SHERWOOD SIRIUS	IO81487 80039, 80309, 81308, 81518 80189, 81189, 81189, 81269 80014, 80150, 80531, 80630, 81023 80189, 81414 80039 80054, 80346, 80360, 80531, 81023, 81074, 81154, 81609 80163 80189, 80346, 81189 80219 80163, 80322 81077, 81423, 81567, 81918 81602, 81627, 81811
HARMAN/KARD HITACHI 66 HITACHI 66 KENWOOD 66 KLH 66 KRELL 66 LINN 66 MAGNAVOX 66 MCINTOSH 66 MIRO 66 MISSION 66 MITC 66 ONKYO 66 OPTIMUS 66	DON 10157 10032 10101 10101 10101 10101 10101 10101 10101 10101 101072 101028, 60190, 10626 11318, 61372, 11711 10157 10157 10157 10157 101029, 60038, 60157, 60180, 10435, 60626 100256, 60290, 10157 10101, 61327 10101, 61327 10101, 61327 10101, 61327 101000, 60032, 10101	HARMAN/KAR JVC KENWOOD KLH LG MARANTZ PHILIPS PIONEER RCA SONY TDK TEAC YAMAHA MD RECOR DENON KENWOOD ONKYO	61907 RDER RDON 71202 71294 70626 71373 71208 70626 70626 70626 71062, 71087 70053, 70420 70000, 70100, 71364 71208 70420 70888, 71292 RDER 70873 70681, 70826 70868	AMC AMPLIFIER TE ANAM ARCAM ATLANTIC TEC AUDIOTRONIC AUDIOVOX B & K BEL CANTO D BK BOSE BOSTON ACOU BRIX CAPETRONIC CARVER	80189, 81405 81077 CCHNOLOGIES 81584 81074, 81609 81189 CHNOLOGY 81487 C 81189 81627 80701, 80820, 80840 ESIGN 81584 80702 81933 USTICS 81918 81602 80531 80008, 80121, 80189, 80360, 81189	PANASONIC PHILIPS PIONEER POLK AUDIO QUASAR RCA REALISTIC SAMSUNG SANSUI SANYO SCOTT SHERWOOD	IO81487 80039, 80309, 81308, 81518 80189, 81189, 81269 80014, 80150, 80531, 80630, 81023 80189, 81414 80039 80054, 80346, 80360, 80531, 81023, 81074, 81154, 81609 80163, 80354, 80346, 81304 80189, 80346, 81189 80219 80163, 80322 81077, 81423, 81567, 81918 81602, 81627, 81811
HARMAN/KARD HITACHI INTEGRA 60 KENWOOD 60 KLH 60 KLH 60 KRELL LINN 60 MAGNAVOX 60 MCINTOSH 60 MIRO MISSION MICO NSM ONKYO 60 60 60 60 60 60 60 60 60 6	DON 10157 10032 10101 10107 10157 10101, 61327 10000, 60032, 10000, 60032, 10000, 60032, 10000, 60032, 10000, 60032, 10000, 60032, 10007, 60179, 10000, 60032, 10007, 60179, 10007, 60179, 10007, 60179, 10007, 60179, 10007, 60179, 10007, 60179, 10007, 60179	HARMAN/KAR JVC KENWOOD KLH LG MARANTZ PHILIPS PIONEER RCA SONY TDK TEAC YAMAHA MD RECOF DENON KENWOOD ONKYO OPTIMUS	61907 RDER RDON 71202 71294 70626 71373 71208 70626 70626 71062, 71087 70053, 70420 70000, 70100, 71364 71208 70420 70888, 71292 RDER 70873 70681, 70826 70868 71063	AMC AMPLIFIER TE ANAM ARCAM ATLANTIC TE AUDIOTRONIC AUDIOVOX B & K BEL CANTO D BK BOSE BOSTON ACOI BRIX CAPETRONIC CARVER CLASSE	80189, 81405 81077 CCHNOLOGIES 81584 81074, 81609 81189 CHNOLOGY 81487 C 81189 81627 80701, 80820, 80840 ESIGN 81584 80702 81933 USTICS 81918 81602 80531 80008, 80121, 80189, 80360, 81189 81916	PANASONIC PHILIPS PIONEER POLK AUDIO QUASAR RCA REALISTIC SAMSUNG SANSUI SANYO SCOTT SHERWOOD SIRIUS SONY	IO81487 80039, 80309, 81308, 81518 80189, 81189, 81189, 81269 80014, 80150, 80531, 80630, 81023 80189, 81414 80039 80054, 80346, 80360, 80531, 81023, 81074, 81154, 81609 80163 80189, 80346, 81189 80219 80163, 80322 81077, 81423, 81567, 81918 81602, 81627, 81811
HARMAN/KARD 60 HITACHI 1NTEGRA 61 JVC 60 KENWOOD 61 KLH 60 KRELL 61 LINN 60 MAGNAVOX 60 MCINTOSH 60 MISSION MTC NSM 60 ONKYO OPTIMUS 60 66 66 66 66 66 66 66 66 66 66 66 66	DON 10157 10032 10101 10107 10157 10032 10101 10107 10107 10107 10107 10157 10	HARMAN/KAR JVC KENWOOD KLH LG MARANTZ PHILIPS PIONEER RCA SONY TDK TEAC YAMAHA MD RECOR DENON KENWOOD ONKYO OPTIMUS PIONEER	61907 RDER RDON 71202 71294 70626 71373 71208 70626 70626 70626 70626 70053, 70420 70000, 70100, 71364 71208 70420 70888, 71292 RDER 70873 70681, 70826 70868 71063 71063	AMC AMPLIFIER TE ANAM ARCAM ATLANTIC TE AUDIOTRONIC AUDIOVOX B & K BEL CANTO D BK BOSE BOSTON ACOL BRIX CAPETRONIC CARVER CLASSE DELPHI	80189, 81405 81077 8CHNOLOGIES 81584 81074, 81609 81189 CHNOLOGY 81487 81627 80701, 80820, 80840 ESIGN 81584 80702 81933 USTICS 81918 81602 80531 80008, 80121, 80189, 80360, 81189 81916 81414	PANASONIC PHILIPS PIONEER POLK AUDIO QUASAR RCA REALISTIC SAMSUNG SANSUI SANYO SCOTT SHERWOOD SIRIUS	IOS1487 80039, 80309, 81308, 81518 80189, 81189, 81269 80014, 80150, 80531, 80630, 81023 80189, 81414 80039 80054, 80346, 80360, 80531, 81023, 81074, 81154, 81609 80163, 80322 81077, 81423, 81567, 81918 81602, 81627, 81811 80158, 81058, 81458, 81406, 81759
HARMAN/KARE HITACHI INTEGRA 60 KENWOOD 61 KLH 60 KRELL 61 MAGNAVOX 60 MARANTZ 60 MCINTOSH 60 MIRO 60 MISSION MTC NSM 61 ONKYO 61 ONKYO 61 PANASONIC 66 66 67	DON 10157 10032 10101 10107 10	HARMAN/KAR JVC KENWOOD KLH LG MARANTZ PHILIPS PIONEER RCA SONY TDK TEAC YAMAHA MD RECOR DENON KENWOOD ONKYO OPTIMUS PIONEER SHARP	61907 RDER RDON 71202 71294 70626 71373 71208 70626 71062, 71087 70053, 70420 70000, 70100, 71364 71208 70420 70888, 71292 RDER 70873 70681, 70826 70868 711063 71063 70861	AMC AMPLIFIER TE ANAM ARCAM ATLANTIC TE AUDIOTRONIC AUDIOVOX B & K BEL CANTO D BK BOSE BOSTON ACOL BRIX CAPETRONIC CARVER CLASSE DELPHI DENON	80189, 81405 81077 8CHNOLOGIES 81584 81074, 81609 81189 CHNOLOGY 81487 81627 80701, 80820, 80840 ESIGN 81584 80702 81933 UUSTICS 81918 81602 80531 80008, 80121, 80189, 80360, 81189 81916 81414	PANASONIC PHILIPS PIONEER POLK AUDIO QUASAR RCA REALISTIC SAMSUNG SANSUI SANYO SCOTT SHERWOOD SIRIUS SONY SOUNDESIGN	IO81487 80039, 80309, 81308, 81518 80189, 81189, 81269 80014, 80150, 80531, 80630, 81023 80189, 81414 80039 80054, 80346, 80360, 80531, 81023, 81074, 81154, 81609 80163 81304 80189, 80346, 81189 80219 80163, 80322 81077, 81423, 81567, 81918 81602, 81627, 81811 80158, 81058, 81406, 81759 80670
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