

**EXAMATA** 

# RX-V361

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 QUALIFIED SERVICE PERSONNEL.

#### Explanation of Graphical Symbols



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



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

- 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.
- 4 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 overfurn.

- 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.
- 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,

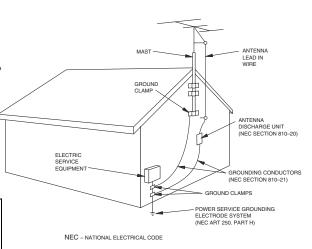
- d) If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore 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 The 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 the unit "OFF" and "ON", please try to eliminate the problem by using one of the following measures:

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

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

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

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

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

### 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.
- 2 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 cord and outdoor antennas disconnected from a wall outlet or the 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 outlet and where the AC power 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 disconnect the AC power plug from the 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 110-120/220-240 V AC, 50/60 Hz.
- 20 The batteries shall not be exposed to excessive heat such as sunshine, fire or like.

#### 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 by STANDBY/ON. This state is called the standby mode. 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.

#### POUR LES CONSOMMATEURS CANADIENS

Pour éviter les chocs électriques, introduire la lame la plus large de la fiche dans la borne correspondante de la prise et pousser jusqu'au fond.

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

#### **IMPORTANT**

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

MODEL:

Serial No.:

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

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#### About this manual

- ᡩ 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.
- "① STANDBY/ON" or "@MULTI CH IN" (example) indicates the name of the parts on the front panel or the remote control. Refer to the attached sheet or the top pages of this manual for the information about each position of the parts
- The symbol "" with page number(s) indicates the corresponding reference page(s).

#### **Features**

#### **Built-in 5-channel power amplifier**

◆ Minimum RMS output power

[U.S.A. and Canada models] (1 kHz, 0.9% THD, 8  $\Omega$ ) Front: 100 W + 100 W Center: 100 W

Surround: 100 W + 100 W

[Other models]

(1 kHz, 0.9% THD, 6 Ω) Front: 100 W + 100 W Center: 100 W

Surround: 100 W + 100 W

#### SCENE select function

◆ Preset SCENE templates for various situations

◆ 4 original SCENE templates for customizing capability

#### **Decoders and DSP circuits**

- Proprietary Yamaha technology for the creation of multichannel surround sound
- Compressed Music Enhancer mode to improve the sound quality of compression artifacts (such as the MP3 format) to that of a high-quality stereo
- Dolby Digital decoder
- Dolby Pro Logic/Dolby Pro Logic II decoder
- ◆ DTS decoder
- Neural Surround decoder
   (U.S.A. and Canada models only)
- ♦ Virtual CINEMA DSP
- ◆ SILENT CINEMA™

#### Sophisticated FM/AM tuner

- ◆ 40-station random and direct preset tuning
- Automatic preset tuning

#### **XM Satellite Radio**

#### (U.S.A. and Canada models only)

- XM Satellite Radio tuning capability (using the "XM Mini-Tuner Dock" sold separately)
- Neural Surround decoder to play back the XM HD content of 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
- ◆ 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



Manufactured under license from Dolby Laboratories. "Dolby", "Pro Logic", and the double-D symbol are trademarks of Dolby Laboratories.

SILENT ™ CINEMA

"SILENT CINEMA" is a trademark of YAMAHA CORPORATION.



"DTS" and "DTS Digital Surround" are registered trademarks of DTS, Inc.



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



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

#### 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.



### **Getting started**

#### Checking the supplied accessories

Check that you received all of the following parts.

#### Remote control



Batteries (2) (AAA, R03, UM-4)



AM loop antenna



Indoor FM antenna



#### Note

The form of the supplied accessories varies depending on the models.

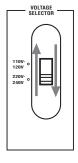
#### VOLTAGE SELECTOR (Asia and General models only)

#### Caution

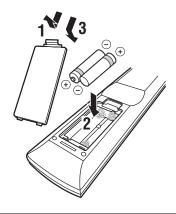
The VOLTAGE SELECTOR on the rear panel of this unit must be set for your local voltage BEFORE plugging the power cable into the AC wall outlet. Improper setting of the VOLTAGE SELECTOR may cause damage to this unit and create a potential fire hazard.

# Select the switch position (upper or lower) according to your local voltage using a straight slot screwdriver.

Voltages are 110-120/220-240 V AC, 50/60 Hz.



#### Installing batteries in the remote control



- 1 Take off the battery compartment cover.
- Insert the two supplied batteries (AAA, R03, UM-4) according to the polarity markings (+ and –) on the inside of the battery compartment.
- 3 Snap the battery compartment cover back into place.

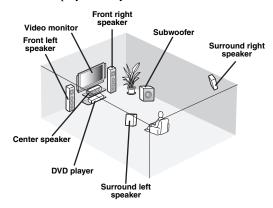
#### Notes

- Change all of the batteries if you notice the following condition:

   the operation range of the remote control decreases.
- Do not use an old battery and a new one together.
- 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 and set up the remote control code.

### Quick start guide

The following steps describe the easiest way to enjoy DVD movie playback in your home theater.



### Step 1: Set up your speakers

₽ P. 5

#### Step 2: Connect your DVD player and other components

₽ P. 6

# Step 3: Turn on the power and press SCENE 1 button

₽ P. 8

Enjoy DVD playback!

### Preparation: Check the items

In these steps, you need the following supplied accessories.

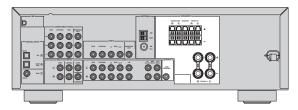
- □ Indoor FM antenna
- □ AM loop antenna

The following items are not included in the package of this

□ Speakers
□ Front speakers2
□ Center speaker1
□ Surround speakers2
Select magnetically shielded speakers. The
minimum required speakers are two front speakers.
□ Active subwoofer1
Select an active subwoofer equipped with an RCA input jack.
□ Speaker cables5
□ Subwoofer cable1
Select a monaural RCA cable.
□ DVD player
□ Video monitor1
Select a TV monitor, video monitor or projector equipped with a composite video input jack.
□ Video cable1
Select an RCA composite video cable.
□ Digital coaxial audio cable1

#### Step 1: Set up your speakers

Place your speakers in the room and connect them to this

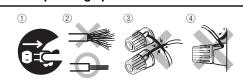


- Place your speakers and subwoofer in the room.
- 2 Connect speaker cables to each speaker.



Cables are colored or shaped differently, perhaps with a stripe, groove or ridge. Connect the striped (grooved, etc.) cable to the "+" (red) terminals of your speaker. Connect the plain cable to the "-" (black) terminals.

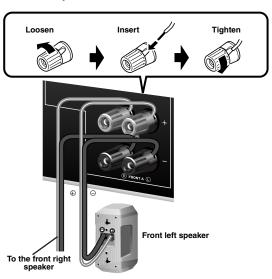
3 Connect each speaker cable to the corresponding speaker terminal of this unit.



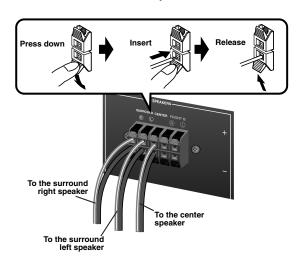
- ① Make sure that this unit and the subwoofer are unplugged from the AC wall outlets.
- ② Twist the exposed wires of the speaker cables together to prevent short circuits.
- 3 Do not let the bare speaker wires touch each other.
- ④ Do not let the bare speaker wires touch any metal part of this unit.

Be sure to connect the left channel (L), right channel (R), "+" (red) and "-" (black) properly.

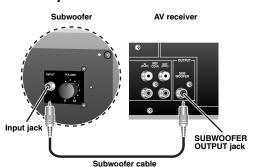
#### Front speakers



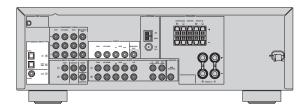
#### Center and surround speakers



4 Connect the subwoofer cable to the input jack of the subwoofer and the SUBWOOFER OUTPUT jack of this unit.



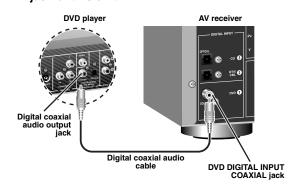
# Step 2: Connect your DVD player and other components



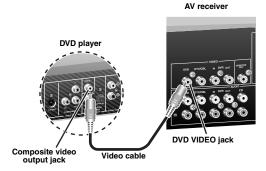


Make sure that this unit and the DVD player are unplugged from the AC wall outlets

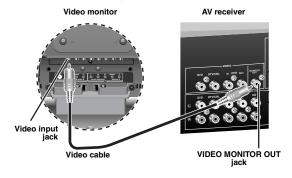
1 Connect the digital coaxial audio cable to the digital coaxial audio output jack of your DVD player and the DVD DIGITAL INPUT COAXIAL jack of this unit.



2 Connect the video cable to the composite video output jack of your DVD player and the DVD VIDEO jack of this unit.

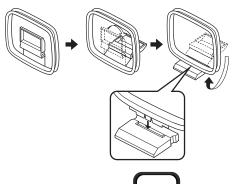


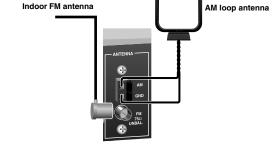
3 Connect the video cable to the video input jack of your video monitor and the VIDEO MONITOR OUT jack of this unit.

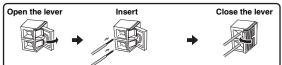


#### Connect the FM and AM antennas to this unit.

See page 18 for the details.







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The wire of the AM loop antenna does not have any polarity and you can connect either end of the wire to AM or GND terminal.

#### Connect the power plug of this unit and other components into the AC wall outlet.

#### For further connections

 Using the other kind of speaker combinations

r P. 11

Connecting a video monitor and **DVD** player

₽ P. 15

Connecting a cable TV/satellite tuner and **DVD** recorder

r P. 15

Connecting to the COMPONENT VIDEO jacks

₽ P. 16

Using the VIDEO AUX jacks on the front

₽ P. 16

Connecting a CD player and an MD recorder

panel

₽ P. 17

Connecting a DVD player via analog multi-channel audio connection

☞ P. 17

Connecting an outdoor FM/AM antenna

₽ P. 18

· Connecting the XM Mini-Tuner Dock

₽ P. 37

# Step 3: Turn on the power and press SCENE 1 button

#### Check the type of the connected speakers.

If the speakers are 6 ohm speakers, set "SP IMP." to " $6\Omega$ MIN" before using this unit (see page 13).

- 1 Turn on the video monitor connected to this unit.
- 2 Press ① STANDBY/ON on the front panel.



#### 3 Press ® SCENE 1.

"DVD Viewing" appears in the front panel display, and this unit automatically optimize own status for the DVD playback.



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The indicator on the selected SCENE button lights up while this unit is in the SCENE mode.

- 4 Start playback of the desired DVD on your player.
- 5 Rotate **VOLUME** to adjust the volume.



#### Note

When you change the input source or sound field program, the SCENE mode is deactivated and the indicator on the SCENE button turns off.

#### ■ Using the other SCENE buttons

In the following cases, try pressing the corresponding SCENE button to enjoy playback of the desired sources.

- **Case A:** "I want to listen to a music disc from the connected DVD player as the back ground music for this room..."
  - → Press ® SCENE 2 (or © SCENE 2) to select "Disc Listening".

Case B: "I want to watch a TV program..."

#### Note

To use the "TV Viewing" template, you must connect a cable TV or satellite tuner to this unit in advance. See page 15 for details.

**Case C:** "I want to listen to a music program from the FM radio station..."

→ Press ® SCENE 4 (or © SCENE 4) to select "Radio Listening".

#### Notes

- To use the "Radio Listening" template, you must tune into the desired radio station in advance. See pages 34 to 36 for tuning information.
- To achieve the best possible reception, orient the connected AM loop antenna, or adjust the position of the end of the indoor FM antenna.

`\oʻ:

If you cannot find the desired situation, you can select and change the assigned SCENE template for the SCENE buttons. See page 23 for details.

■ After using this unit...

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



This unit is set to the standby mode. In the standby mode, this unit consumes a small amount of power in order to receive infrared signals from the remote control. To turn on this unit from the standby mode, press ① **STANDBY/ON** (or ①**POWER**) on the front panel. See page 18 for details.

#### Note

In the standby mode, this unit consumes a small amount of power in order to receive infrared signals from the remote control.

## What do you want to do with this unit?

- Customizing the SCENE templates
- Using various SCENE templates

₽ P. 23

- Using various input sources
- · Basic controls of this unit

₽ P. 27

· Enjoying FM/AM radio programs

₽ P. 34

Enjoying XM Satellite Radio programs

₽ P. 37

- Using various sound features
- Using various sound field programs

₽ P. 31

- Adjusting the parameters of this unit
- Optimizing the speaker parameters for your listening room (BASIC SETUP)

₽ P. 21

 Manually adjusting various parameters of this unit

₽ P. 43

Setting the remote control

₽ P. 51

· Adjusts the advanced parameters

₽ P. 55

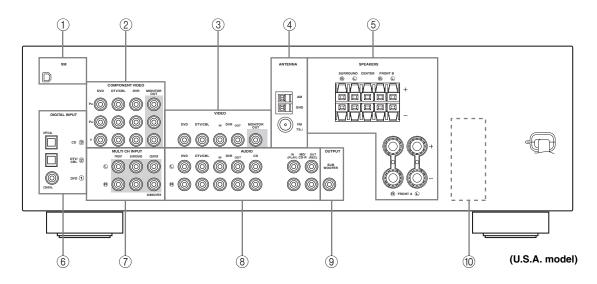
Additional features

Automatically turning off this unit

₽ P. 30

### **Connections**

#### Rear panel



① XM jack (U.S.A. and Canada models only)

See page 37 for connection information.

#### **② COMPONENT VIDEO jacks**

See page 16 for connection information.

#### **③ VIDEO jacks**

See pages 15 for connection information.

#### (4) ANTENNA terminals

See page 18 for connection information.

#### **(5)** SPEAKERS terminals

See page 12 for connection information.

#### **6 DIGITAL INPUT jacks**

See page 17 for connection information.

#### **⑦ MULTI CH INPUT jacks**

See page 17 for connection information.

#### **8 AUDIO jacks**

See pages 15 and 17 for connection information.

#### **9 SUBWOOFER OUTPUT jack**

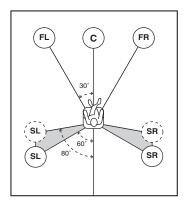
See page 12 for connection information.

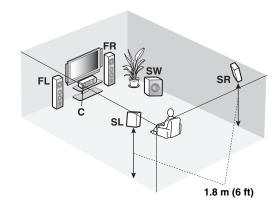
#### WOLTAGE SELECTOR (Asia and General models only)

See page 3 for details.

### Placing speakers

The speaker layout below shows the speaker setting we recommend. You can use it to enjoy CINEMA DSP and multichannel audio sources.





#### Front left and right 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.

#### Surround left and right speakers (SL and SR)

The surround speakers are used for effect and surround sounds.

#### Subwoofer (SW)

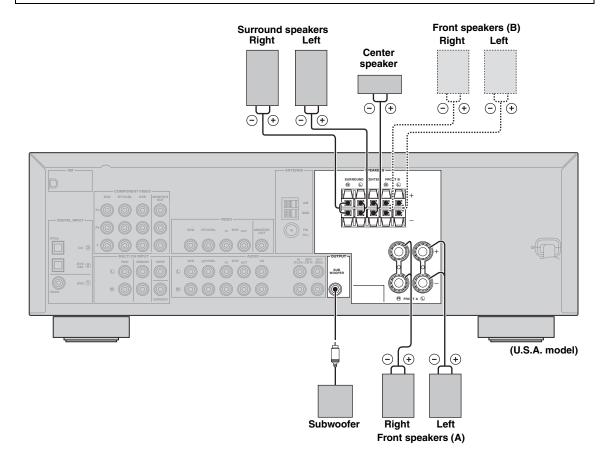
The use of a subwoofer with a built-in amplifier, such as the Yamaha Active Servo Processing Subwoofer System, is effective not only for reinforcing bass frequencies from any or all channels, but also for high fidelity sound reproduction of the LFE (low-frequency effect) channel included in Dolby Digital 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, this unit cannot reproduce the input sources accurately.

#### Caution

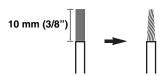
- Use speakers with the specified impedance shown on the rear panel of this unit.
- If you are to use 6 ohm speakers, be sure to set "SP IMP." to " $6\Omega$  MIN" before using this unit (see page 13).
- Before connecting the speakers, make sure that this unit is turned off.
- Do not let the bare speaker wires touch each other or 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.



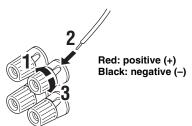
### Before connecting to the SPEAKERS terminal

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 ridges. Connect the striped (grooved, etc.) cable to the "+" (red) terminals of this unit and your speaker. Connect the plain cable to the "-" (black) terminals.

Remove approximately 10 mm (3/8") of insulation from the end of each speaker cable and then twist the bare wires of the cable together to prevent short circuits.



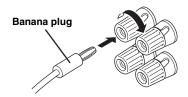
#### Connecting to the FRONT A terminals



- 1 Loosen the knob.
- 2 Insert the bare end of the speaker wire into the hole on the terminal.
- 3 Tighten the knob to secure the wire.

### Connecting the banana plug (except Europe, Korea and Asia models)

The banana plug is a single-pole electrical connector widely used to terminate speaker cables. First, tighten the knob and then insert the banana plug connector into the end of the corresponding terminal.



■ Connecting to the FRONT B, CENTER, and SURROUND terminals



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

- 1 Press down the tab.
- 2 Insert the bare end of the speaker wire into the hole on the terminal.
- 3 Release the tab to secure the wire.

# Setting the speaker impedance (U.S.A. and Canada models only)

#### Caution

If you are to use 6 ohm speakers, set "SP IMP." to " $6\Omega$  MIN" as follows BEFORE using this unit.

1 Make sure this unit is turned off.

See page 18 for details about turning on or off this unit.

2 Press and hold **®TONE CONTROL** and then press **®STANDBY/ON** to turn on this unit.

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

The following display appears in the front panel display.

SP IMP.- 80MIN

4 Press <sup>®</sup> STRAIGHT repeatedly to select "6Ω MIN".

The following display appears in the front panel display.

SP IMP.- 6ΩMIN

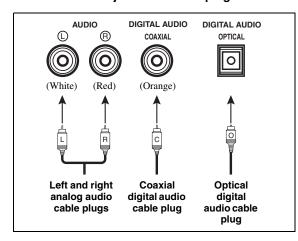
5 Press ①STANDBY/ON to confirm your selection and set this unit to the standby mode.

#### Note

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

#### Information on jacks and cable plugs

#### Audio jacks and cable plugs



#### ■ Audio jacks

This unit has three 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.

#### **DIGITAL AUDIO COAXIAL jacks**

For digital audio signals transmitted via coaxial digital audio cables.

#### **DIGITAL AUDIO OPTICAL jacks**

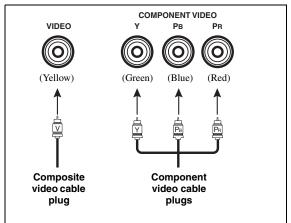
For digital audio signals transmitted via optical digital audio cables.

#### Notes

- You can use the digital jacks to input PCM, Dolby Digital and DTS bitstreams. All digital input jacks are compatible with digital signals with up to 96 kHz of sampling frequency.
- This unit handles digital and analog signals independently. Thus audio signals input at the digital jacks are not output at the analog AUDIO OUT (REC) jacks.
- 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.



#### Video jacks and cable plugs



#### ■ Video jacks

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

#### **VIDEO** jacks

For conventional composite video signals transmitted via composite video cables.

#### **COMPONENT VIDEO jacks**

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

Video signal flow for MONITOR OUT				
	Input	Output (MONITOR OUT)		
	Pr 🔘	Pr 🔘		
COMPONENT VIDEO	Рв 🔘	——— Рв 🔘		
	Y 🔘	Y 🔘		
VIDEO		<b></b>		

### Connecting video components

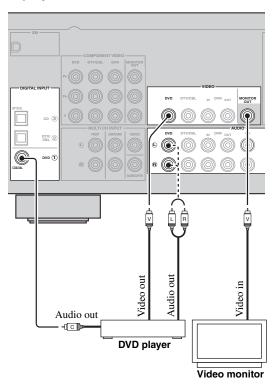
Connect the video components as follows.

`\o'`

You can also connect a video monitor, DVD player, digital TV, and cable TV to this unit using the COMPONENT VIDEO connection (see page 16).

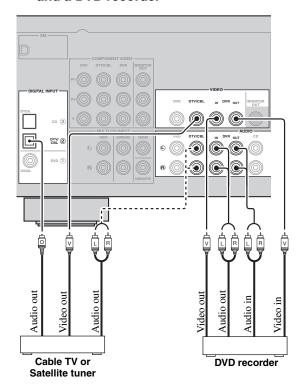
Make sure that this unit and other components are unplugged from the AC wall outlets.

### Connecting a video monitor and a DVD player



----- indicates recommended connections
----- indicates alternative connections

#### Connecting a cable TV/satellite tuner and a DVD recorder



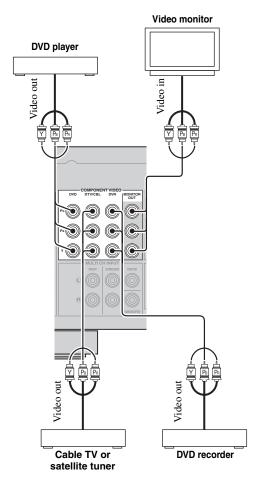
----- indicates recommended connections
----- indicates alternative connections

### ■ Connecting to the COMPONENT VIDEO jacks

You can enjoy high-quality pictures by connecting your video monitor and video source components to this unit using COMPONENT VIDEO connection.

#### Note

Be sure to connect your video source components in the same way you connect your video monitor to this unit. For example, if you connect your video monitor to this unit using a COMPONENT VIDEO connection, connect your video source components to this unit using the COMPONENT VIDEO connection.



#### Connecting to the VIDEO AUX jacks on the front panel

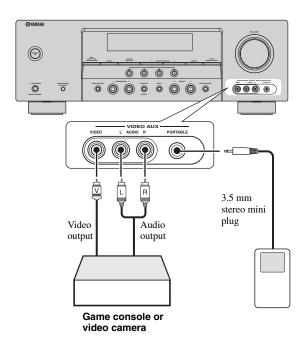
Use the VIDEO AUX jacks on the front panel to connect a game console or a video camera to this unit.

#### Caution

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

#### Notes

- To reproduce the source signals input at these jacks, select "V-AUX" as the input source.
- The audio signals input at the PORTABLE mini jack take priority over the ones input at the AUDIO L/R jacks.



#### Connecting audio components

Connect the audio components as follows.

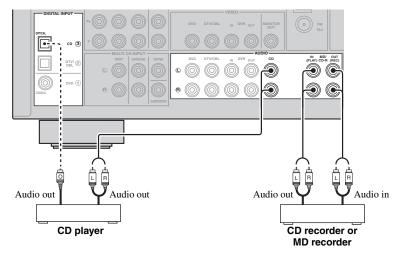
### Connecting a CD player and a CD recorder/MD recorder

#### Note

When you connect your CD player via analog and digital connection, priority is given to the signal input at the DIGITAL INPUT jack.



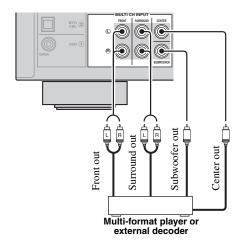
Make sure that this unit and other components are unplugged from the AC wall outlets.



indicates recommended connections indicates alternative connections

#### ■ Connecting to the MULTI CH INPUT jacks

This unit is equipped with 6 additional input jacks (FRONT L/R, SURROUND L/R, CENTER and SUBWOOFER) for discrete multi-channel input from a multi-format player, external decoder or sound processor. 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.



#### Notes

- When you select the component connected to the MULTI CH INPUT jacks as the input source (see page 28), 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 a 5.1-channel speaker system before using this feature.

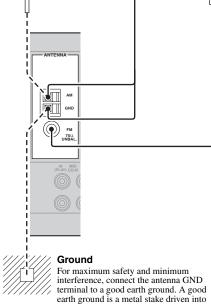
# Connecting the FM and AM antennas

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 the designated terminals.

#### Notes

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

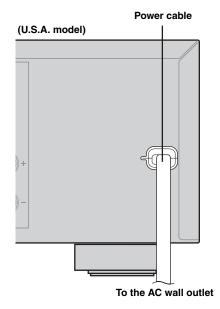
# Outdoor AM antenna Use a 5 to 10 m (16 to 32 ft) of vinyl-covered wire extended outdoors from a window. AM loop antenna (supplied) Indoor FM antenna (supplied)



moist earth.

#### Connecting the power cable

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



#### Turning on and off the power

Turning on this unit

Press 1 STANDBY/ON (or L POWER) to turn on this unit.

`\o':

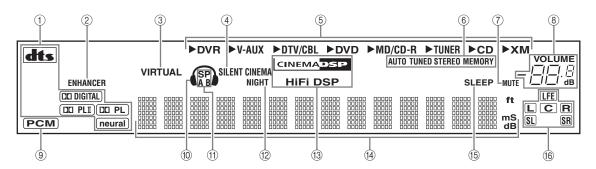
When you turn on this unit, there will be a 4 to 5-second delay before this unit can reproduce sound.

Set this unit to the standby mode

### Press ① **STANDBY/ON** (or **MSTANDBY**) to set this unit to the standby mode.

In the standby mode, this unit consumes a small amount of power in order to receive infrared signals from the remote control.

### Front panel display



#### Decoder indicator

Lights up when any of the decoders of this unit functions.

#### ② ENHANCER indicator

Lights up when the Compressed Music Enhancer mode is selected (see page 31).

#### **③ VIRTUAL indicator**

Lights up when Virtual CINEMA DSP is active (see page 33).

#### (4) SILENT CINEMA indicator

Lights up when headphones are connected and a sound field program is selected (see page 33).

#### (5) Input source indicators

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

#### **(6)** Tuner indicators

Lights up when this unit is in the FM, AM or XM Satellite Radio tuning mode (see pages 34 and 37).

#### 7 MUTE indicator

Flashes while the MUTE function is on (see page 28).

#### **(8) VOLUME level indicator**

Indicates the current volume level.

#### 9 PCM indicator

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

#### **10** Headphones indicator

Lights up when headphones are connected (see page 28).

#### (1) SP A B indicators

Light up according to the set of front speakers selected (see page 27).

#### 12 NIGHT indicator

Lights up when you select a night listening mode (see page 28).

#### (3) CINEMA DSP indicator

Lights up when you select a CINEMA DSP sound field program (see page 31).

#### HiFi DSP indicator

Lights up when you select a HiFi DSP sound field program (see page 31).

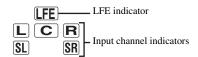
#### Multi-information display

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

#### (15) SLEEP indicator

Lights up while the sleep timer is on (see page 30).

#### 16 Input channel and speaker indicators



#### LFE indicator

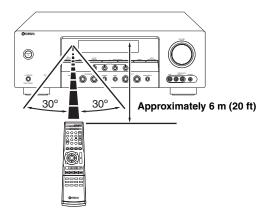
Lights up when the input signal contains the LFE signal.

#### Input channel indicators

Indicate the channel components of the current digital input signal.

#### ■ 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 this unit during operation.



#### **⊗Infrared window**

Outputs infrared control signals. Aim this window at the component you want to operate.

`\\

To set the remote control codes for other components, see page 54.

#### 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 temperature, such as near a heater or stove
- places of extremely low temperatures
- dusty places

### **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 45).
- · Altering any parameters in "BASIC SETUP" resets all parameters manually adjusted in "SOUND MENU" (see page 45).
- Initial settings are indicated in bold under each parameter.
- Press (H) **RETURN** on the remote control to return to the previous menu level.
- 1 Press OAMP on the remote control.
- 2 Press PMENU.

"BASIC SETUP" appears in the front panel display.

- · BASIC SETUP
- 3 Press @ ENTER to enter "BASIC SETUP".

"ROOM" appears in the front panel display.

ROOM: S >M L

4 Press ⑤
✓ / > to select the desired setting.
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 13 ft, 200 ft<sup>2</sup> (4.8 x 4.0 m, 20 m<sup>2</sup>) M (medium) 20 x 16 ft, 300 ft<sup>2</sup> (6.3 x 5.0 m, 30 m<sup>2</sup>) L (large) 26 x 19 ft, 450 ft<sup>2</sup> (7.9 x 5.8 m, 45 m<sup>2</sup>)

[Other models]

S (small) 3.6 x 2.8 m, 10 m<sup>2</sup> M (medium) 4.8 x 4.0 m, 20 m<sup>2</sup> L (large) 6.3 x 5.0 m, 30 m<sup>2</sup> 5 Press ⊚ ∇ to select "SUBWOOFER" and then ⊚

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 . . 5spk

Choice	Display	Speakers
2spk	L R	Front L/R
3spk	LCR	Front L/R, Center
4spk	L R SI SR	Front L/R, Surround L/R
5spk	LCR SL SR	Front L/R, Center, Surround L/R

7 Press ⊚∇ to select "SET" 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.

`\o':

You can also press (P) 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.

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

- Check the speaker connections (see page 5) and adjust the "SPEAKERS" settings back in step 6, if necessary.
- The indicator of the speaker currently outputting the test tone flashes in the front panel display.
- 9 Press ⊚
  7 > 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 ⊚∆ / ∇ 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.

FR ----||----

- 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 "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.

#### Note

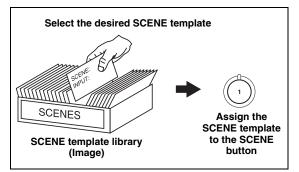
The available speaker channels differ depending on the setting of the speakers.

12 Press PMENU to exit from "BASIC SETUP".

This unit is equipped with 13 preset SCENE templates for various situations of using this unit. As the initial factory setting, the following SCENE templates are assigned to each SCENE button:

SCENE 1: DVD Viewing SCENE 2: Disc Listening SCENE 3: TV Viewing SCENE 4: Radio Listening

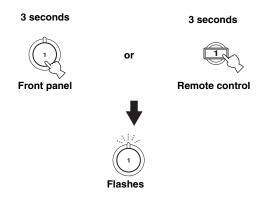
If you want to use other SCENE templates, you can select the desired SCENE templates from the SCENE template library and assign the templates to the selected SCENE buttons on the front panel and the remote control.



# Selecting the desired SCENE template

#### 1 Press and hold the desired ® SCENE (or © SCENE) button for 3 seconds.

The indicator on the selected SCENE button on the front panel starts to flash, and the name of currently assigned SCENE template appears in the front panel display.

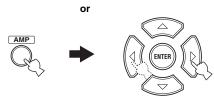


DUD Viewin9

2 Press <sup>(4)</sup> INPUT 
√ (or press <sup>(2)</sup> AMP and then <sup>(3)</sup> √ ) to select the desired template.



Front panel

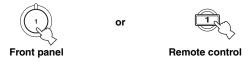


Remote control

### DUD Movie View

Press the **© SCENE** (or **© SCENE**) button again to confirm the selection.

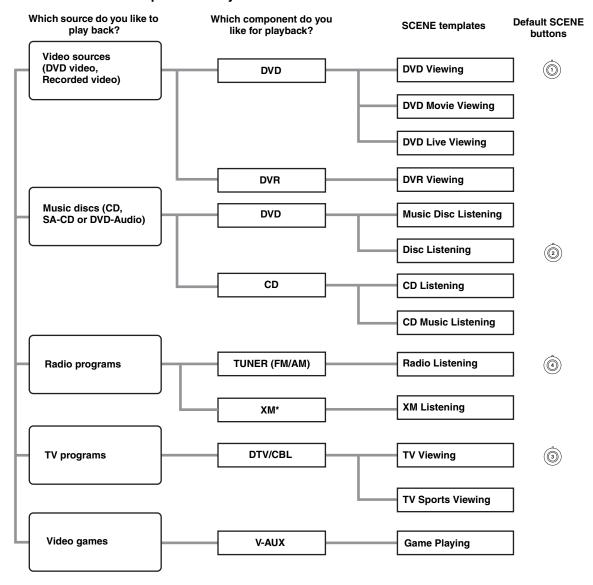
The selected SCENE template is assigned to the button.



#### Notes

- If you do not carry out any operation within 30 seconds from the last operation in these steps, this procedure is automatically canceled.
- Once the desired SCENE templates are assigned to the corresponding SCENE buttons, you may need to set the input source of the SCENE template on the remote control. See page 51 for details.

#### ■ Which SCENE template would you like to select?



#### Note

You can create your original SCENE templates by editing the preset SCENE templates. See page 26 for details.

<sup>\*</sup> To enjoy XM Satellite Radio programs, you need to connect the XM Mini-Tuner Dock (sold separately) to this unit (see page 37).

#### ■ Preset SCENE template descriptions

SCENE template			
Features			
Input source	Playback mode		

#### **DVD Viewing (SCENE 1 as the default setting)**

Select this SCENE template when you play back general contents on your DVD player.

DVD STRAIGHT

#### **DVD Movie Viewing**

Select this SCENE template when you play back movies on your DVD player.

DVD Movie Dramatic

#### **DVD Live Viewing**

Select this SCENE template when you enjoy music live video on your DVD player.

DVD Pop/Rock

#### **DVR Viewing**

Select this SCENE template when you play back movies on your digital video recorder.

DVR Movie Dramatic

#### **Music Disc Listening**

Select this SCENE template when you play back music discs on your DVD player.

DVD 2ch Stereo

### Disc Listening (SCENE 2 as the default setting)

Select this SCENE template when you play back music sources as the back ground music on your DVD player.

DVD 5ch Stereo

#### **CD** Listening

Select this SCENE template when you play back music discs on your CD player.

CD 2ch Stereo

#### CD Music Listening

Select this SCENE template when you play back music source as the back ground music on your CD player.

CD 5ch Stereo

### Radio Listening (SCENE 4 as the default setting)

Select this SCENE template when you enjoy FM or AM radio programs.

TUNER MUSIC ENHANCER 5ch STEREO

#### **XM Listening**

Select this SCENE template when you enjoy XM Satellite Radio programs.

XM MUSIC ENHANCER 5ch STEREO

#### TV Viewing (SCENE 3 as the default setting)

Select this SCENE template when you enjoy TV programs.

DTV/CBL STRAIGHT

#### **TV Sports Viewing**

Select this SCENE template when you enjoy sports programs on

DTV/CBL TV Sports

#### **Game Playing**

Select this SCENE template when you play video games.

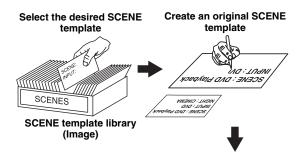
V-AUX Game

# Creating your original SCENE templates

You can create your original SCENE templates for each SCENE button. You can refer to the preset 13 SCENE templates to create the original SCENE templates.

#### Customizing the preset SCENE templates

Use this feature to customize the preset SCENE templates.





Assign the SCENE template to the SCENE button

### Press and hold the desired **ESCENE** button for 3 seconds and then press **DAMP**.

The SCENE template customizing screen appears on the front panel display.



#### Note

When the SCENE template you want to customize is not assigned to any of the SCENE button, press  $\textcircled{G} \triangleleft / \triangleright$  repeatedly to recall the desired SCENE template (see page 23).

# Press ⑤ △ / ▽ to select the desired parameter of the SCENE template and then ⑥ □ / ▷ to select the desired value of the selected parameter.

You can adjust the following parameters for a SCENE template:

- The input source component
- The active sound field programs or STRAIGHT mode
- The night listening mode setting (see page 28)
  - SYSTEM: Keeps the current night listening mode.
  - CINEMA: Sets the night listening mode to the CINEMA mode.
  - MUSIC: Sets the night listening mode to the MUSIC mode.

### 3 Press the **ESCENE** button again to confirm the edit.



#### \_`ດ໌

An asterisk mark (\*) appears by the name of the original SCENE template.

#### **Notes**

- After changing the assignment of the SCENE template to the
   SCENE buttons, you may need to set the input source of the SCENE template on the remote control. See page 51 for details.
- You can create a customized SCENE template for each
   SCENE button, and if you create another customized
   SCENE template, this unit overwrites the old customized
   SCENE template with the new one.
- The customized SCENE template is only available for the assigned ©SCENE button.

### **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.

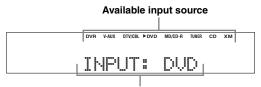
#### **Basic operations**

- 1 Turn on the video monitor connected to this unit.
- Press **SPEAKERS** repeatedly to select the front speakers you want to use.

The respective speaker indicators lights up in the front panel display.

3 Press <sup>(1)</sup> INPUT <1/> repeatedly (or press one of the input selector buttons (○)) to select the desired input source.

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



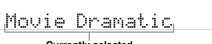
Currently selected input source

- 4 Start playback on the selected component or select a broadcast station.
  - Refer to the operating instructions for the source component.
  - See page 34 for details about FM/AM tuning instructions.
  - See page 37 for details about XM Satellite Radio tuning instructions.

- Rotate ® VOLUME (or press @ VOLUME +/
   -) to adjust the volume to the desired output level.
- 6 Press <sup>①</sup> PROGRAM 
  | /▷ (or press ②AMP and then press ①PROG 
  | /▷) repeatedly to select the desired sound field program.

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

See page 31 for details about sound field programs.



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 28).
- When PCM signals with a sampling frequency higher than 48 kHz are input, this unit is automatically set to the "STRAIGHT" mode (see page 33).
- To display information about the currently selected input source in the front panel display, see page 30 for details.

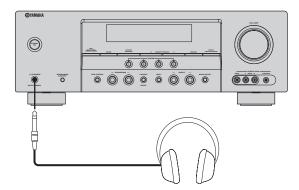
#### Guide to contents

When you want to	See page
Adjust the tonal quality of the front speakers	29
Edit parameters of sound field programs	32
Enjoy the sources which have wide dynamic range at night	28
Use headphones	28
Select a decoder to play back sources with	32
Set this unit to the standby mode automatically	30

#### Additional operations

#### Using your headphones

Connect a pair of headphones with a stereo analog audio cable plug to the PHONES jack on the front panel.



`\o'\_

When you select a sound field program, SILENT CINEMA mode activates automatically (see page 33).

#### Notes

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

#### Muting the audio output

#### Press **NMUTE** to mute the audio output.

Press **NMUTE** again to resume the audio output.

`\\

- You can also rotate 

   ® VOLUME (or press 
   © VOLUME +/-) to resume the audio output.
- You can adjust the muting level by using "MUTE TYP." in "SOUND MENU" (see page 48).
- 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.

#### Selecting the component connected to the MULTI CH INPUT jacks as the input source

Use this feature to select the component connected to the MULTI CH INPUT jacks (see page 17) as the input source.

# Press (4) INPUT <1/> ✓ / > repeatedly (or press (6) MULTI CH IN) so that "MULTI CH" appears in the front panel display.

`@':

Use "MULTI CH SET" menu in "INPUT MENU" to set the parameter for MULTI CH INPUT (see page 49).

#### Notes

- Sound field programs mode cannot be selected when the component connected to the MULTI CH INPUT jacks is selected as the input source.
- When headphones are used, signals are output only from the front left and right channels.

#### Selecting the night listening mode

The night listening modes are designed to improve listenability at lower volumes or at night.

# 1 Press DAMP and then press NIGHT repeatedly to select "NIGHT:CINEMA" or "NIGHT:MUSIC".

Choices: NIGHT:CINEMA, NIGHT:MUSIC, NIGHT OFF

- Select "NIGHT:CINEMA" to reduce the dynamic range of film soundtracks and make dialog easier to hear at lower volumes.
- Select "NIGHT:MUSIC" to preserve ease-of-listening for all sounds.
- Select "NIGHT 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.

# 2 Press ③ /▷ to adjust the effect level while "NIGHT:CINEMA" or "NIGHT:MUSIC" is displayed in the front panel display.

Choices: MIN, MID, MAX

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

`\o'`

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

#### Notes

- You cannot use the night listening modes in the following cases:

   when the component connected to the MULTI CH INPUT
- jacks is selected as the input source.

   when headphones are connected to the PHONES jack.
- The night listening modes may vary in effectiveness depending on the input source and surround sound settings you use.

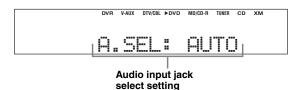
#### Selecting audio input jacks (AUDIO SELECT)

This unit comes with a variety of input jacks. Use this feature (audio input jack select) to switch the input jack assigned to an input source when more than one jacks are assigned to an input source.

`\\\

- We recommend setting audio input jack select to "AUTO" in most cases.
- You can adjust the default audio input jack select of this unit by using "AUDIO SELECT" in "OPTION MENU" (see page 50).

# Press (5) AUDIO SELECT (or (8) AUDIO SEL) repeatedly to select the desired Audio input jack select setting.



AUTO Automatically selects input signals in the

following order: (1) Digital signals

(2) Analog signals

ANALUG Selects only analog signals. If no analog signals are input, no sound is output.

#### Note

This feature is not available when no digital input jack are assigned to the currently selected input source.

#### Adjusting the tonal quality

Use this feature to adjust the balance of bass and treble for the front left and right speaker channels.

### Press **® TONE CONTROL** repeatedly to select "BASS" or "TREBLE" and then press

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

#### Notes

- Speaker and headphone adjustments are stored independently.
- If you increase or decrease the high-frequency or low-frequency sound to an extreme level, the tonal quality of the surround speakers may not match that of the front left and right speakers.

#### Adjusting speaker levels during playback

You can adjust the output level of each speaker while listening to a music source.

#### Note

This operation will override the level adjustment made in "SP LEVEL" (see page 46).

# 1 Press ( ) AMP and then press ( ) LEVEL repeatedly to select the speaker you want to adjust.

Adjusted speaker
Front left speaker
Front right speaker
Center speaker
Subwoofer
Surround left speaker
Surround right speaker

`\o':

Once you press  $\bigcirc$  **LEVEL** on the remote control, you can also select the speaker by pressing  $\textcircled{a} \land \nabla$ .

### 2 Press (g / > on the remote control to adjust the speaker output level.

The control range is from -10 dB to +10 dB.

`\o':

You can press **④ A/B/C/D/E** to select a speaker and then **⑤ PRESET/TUNING/CH ⊲** / **▷** to adjust the speaker output level.

#### ■ Displaying the signal information

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

### 1 Press AMP and then press MENU on the remote control.

"BASIC SETUP" appears in the front panel display.

- BASIC SETUP
- 2 Press ⊚∆ / ∇ repeatedly to select "SIGNAL INFO" and then press ⊚ENTER.

### 3 Press ⊚∆ / ∇ to switch the displayed information.

The following information about the input source appears in the front panel display.

Display	Description	
FORMAT	Signal format.	
SAMPL.	The number of samples per second taken from a continuous signal to make a discrete signal.	
СН	The number of source channels in the input signal (front/surround/LFE).	
B.RATE	The number of bits passing a given point per second.	
FLAG	Flag data encoded in DTS, Dolby Digital, or PCM signals that cue this unit to automatically switch decoders.	

4 Press PMENU to exit.

#### Using the sleep timer

Use this feature to automatically set this unit to the standby mode after a certain amount of time.

### Press **OAMP** and then press **OSLEEP** repeatedly to set the amount of time.

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

$$\longrightarrow$$
 SLEEP 120min  $\longrightarrow$  SLEEP 90min  $\longrightarrow$  SLEEP 0FF  $\leftarrow$  SLEEP 30min  $\leftarrow$  SLEEP 60min  $\leftarrow$ 

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.

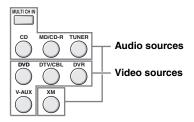
`\oʻ:

- To cancel the sleep timer, press **SLEEP** on the remote control repeatedly until "SLEEP OFF" appears in the front panel display.
- You can also cancel the sleep timer setting by pressing
   STANDBY/ON (or @STANDBY) to set this unit to the standby mode.

#### 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.



# English

### Sound field programs

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.

### Press ⊕ PROGRAM / ▷ (or press ⊕ AMP and then press ⊕ PROG / ▷ repeatedly).

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

#### Notes

 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 28).
- When PCM signals with a sampling frequency higher than 48 kHz are input, this unit is automatically set to the "STRAIGHT" mode (see page 33).

#### `\\\\

- Choose a sound field program based on your listening preference, not merely on the name of the program itself.
- You can select "Music Enh. 2ch" and "Music Enh. 5ch" by pressing (T) ENHANCER on the remote control repeatedly.

#### Sound field program descriptions

Category	Program	Features
MUSIC	Pop/Rock	CINEMA DSP processing. This program presents an image of pop, rock, or jazz live concert. The sound field reproduces the spaciousness of a massive pavilion with an emphasis on the vividness of vocals on the stage and solo instruments and the beats of rhythm instruments.
	Hall	HiFi DSP processing. This sound field is suitable for classic and orchestral music. The program uses data collected in a large concert hall in Munich. You can enjoy delicate and beautiful reverberation and a majestic atmosphere.
	Jazz	HiFi DSP processing. The sound field is suitable for jazz and fusion music. It uses data collected in a famous jazz club in New York. You can enjoy clear reverberation.
ENTERTAIN	Game	CINEMA DSP processing. You can enjoy dynamic and thrilling sound effects as you play games. The program lets you feel the depth and three-dimensional surrounding sounds of the field where you are playing, and offers cinema-like surrounding sound effects for the scenes of movies.
	TV Sports	CINEMA DSP processing. You can enjoy sports relays broadcast in stereo and variety shows with a live sound environment. For sports relays, the voices of commentators and announcers come clearly from the center; the cheers and atmosphere in the stadium spread around within a comfortable range, and you can feel like as if you are in the stadium.
MOVIE	Movie Spacious	CINEMA DSP processing. The sound field is suitable for movies with an emphasis on spectacular sound effects, and is a perfect fit with a wide screen. The program reproduces a wide dynamic range from minimum sound effects to powerful sounds.
	Movie Dramatic	CINEMA DSP processing. This sound field is also suitable for movies with an emphasis on three- dimensional sound effects. It restrains reverberation to an moderate extent, but reproduces sound effects and background music in a soft, three-dimensional manner with clarity and center orientation of voices as pivots.
STEREO	2ch Stereo	Downmixes multi-channel sources to 2 channel or plays back 2-channel sources as they are.
	5ch Stereo	Using this program increases the listening position range. This is a sound field suitable for background music at parties.
ENHANCER	Music Enh. 2ch Music Enh. 5ch	Select these programs to play back compression artifacts (such as the MP3 format) in 2-channel or 5-channel stereo. This program enhances your listening experience by regenerating the missing harmonics in a compression artifact.

#### Note

The 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.

#### Selecting decoders for 2-channel sources (surround decode mode)

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

### Press **OAMP** and then press **JSUR. DECODE** repeatedly to select a decoder.

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

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
Neural	Neural Surround processing for any sources

#### Editing sound fields parameters

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

- 2 Press ⊚
  / > to change the parameter value.

#### Note

You cannot change parameter values when "MEM. GUARD" in "OPTION MENU" is set to "ON" (see page 50).

`\oʻ:

Initial settings are indicated in bold under each parameter.

### For Pop/Rock, Hall, Jazz, Game, TV Sports, Movie Spacious and Movie Dramatic:

DSP level DSP LEVEL

Function: Adjusts the effect level. Choices: MIN, **MID**, MAX

#### For PRO LOGIC II Music:

Panorama PANORAMA

Function: Sends stereo signals to the surround

speakers as well as the front speakers

for a wraparound effect.

Choices: **OFF**, ON

**Dimension** DIMENSION

Function: Gradually adjusts the sound field

either towards the front or towards the

rear.

Control range: -3 (towards the rear) to +3 (towards

the front), initial setting is STD

(standard).

Center width CT WIDTH

Function: Adjusts the center image from all

three front speakers to varying degrees. A larger value adjusts the center image towards the front left and

right speakers.

Control range: 0 (center channel sound is output only

from center speaker) to 7 (center channel sound is output only from front left and right speakers), initial

setting is 3.

#### For Music Enh. 2ch and Music Enh. 5ch

#### Effect level

Function: Adjusts the effect level.

Choices: LOW, **HIGH** 

# Englis

#### Using sound field programs without surround speakers (Virtual CINEMA DSP)

Virtual CINEMA DSP allows you to enjoy the CINEMA DSP programs without surround speakers by creating virtual speakers.

If you set "SUR. LR" to "NONE" (see page 45), Virtual CINEMA DSP activates automatically whenever you select a CINEMA DSP or HiFi DSP program (see page 31).

#### Note

Virtual CINEMA DSP will not activate even when "SUR. LR" is set to "NONE" (see page 45) in the following cases:

- when "5ch Stereo" (see page 31) is selected.
- when headphones are connected to the PHONES jack.

#### Enjoying multi-channel sources and sound field programs with headphones (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 31). When activated, the SILENT CINEMA indicator lights up in the front panel display.

#### Note

SILENT CINEMA does not activate when the component connected to the MULTI CH INPUT jacks is selected as the input source (see page 28).

#### Enjoying unprocessed input sources (Straight decoding mode)

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

Press **© STRAIGHT** (or press **DAMP** and then **SSTRAIGHT**) to select "STRAIGHT".

To deactivate the "STRAIGHT" mode, press 
② STRAIGHT (or ③ STRAIGHT) again so that "STRAIGHT" disappears from the front panel display.

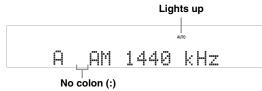
# FM/AM tuning

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.

### **Automatic tuning**

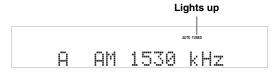
Automatic tuning is effective when station signals are strong and there is no interference.

- 1 Press (♣) INPUT 
  / ▷ repeatedly so that "TUNER" is displayed in the front panel display.
- 2 Press ③ FM/AM to select the reception band (FM or AM).
- Press (TUNING AUTO/MAN'L so that the AUTO indicator lights up in the front panel display.



If a colon (:) appears in the front panel display, automatic tuning is not possible. Press ② **PRESET/TUNING** to turn the colon (:) off.

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.



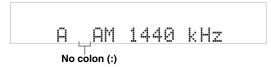
### Manual tuning

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 Press ⊕INPUT 
  / > repeatedly so that "TUNER" is displayed in the front panel display.
- 2 Press ③ FM/AM to select the reception band (FM or AM).
- 3 Press **TUNING AUTO/MAN'L** so that the AUTO indicator disappears from the front panel display.



If a colon (:) appears in the front panel display, manual tuning is not possible. Press ② **PRESET/TUNING** to turn the colon (:) off.

4 Press ⑤ PRESET/TUNING/CH 
/ In the desired station manually.

You can 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.

- Press ⊕INPUT 
  / > repeatedly so that "TUNER" is displayed in the front panel display.
- 2 Press ③ FM/AM to select "FM" as the reception band.
- 3 Press and hold **MEMORY** for more than 3 seconds.

The preset station number as well as the MEMORY and AUTO indicators flashes. 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.

`\\\

You can select the preset station group and the preset station number where the first received station will be stored by pressing **② A/B/C/D/E** and then **⑤ PRESET/TUNING/CH ◁** / **>**.

#### 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.
- 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" on this page.

## 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.

- 1 Tune into a station automatically or manually. See page 34 for tuning instructions.
- 2 Press 6 MEMORY.

The MEMORY indicator flashes in the front panel display for approximately 10 seconds.

3 Press ④ A/B/C/D/E and ⑤ PRESET/
TUNING/CH 

¬ repeatedly to select a preset station group (A1 to E8) while the MEMORY indicator is flashing.

Check that the colon (:) appears in the front panel display.



4 Press **6 MEMORY** 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 displayed station has been stored as C3.

#### 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.

`\\\

When performing this operation with the remote control, press ©TUNER to select "TUNER" as the input source.

Press ④ A/B/C/D/E (or ⑥ A-E/CAT. 
repeatedly 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 ⑤ PRESET/TUNING/CH 
⑤ PRESET/CH △ / ▽) 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.

E1:FM 87.50MHz

`\o':

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 ④ A/B/C/D/E and ⑤ PRESET/TUNING/CH 
See "Selecting preset stations" on this page.

2 Press and hold ② PRESET/TUNING for more than 3 seconds.

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



3 Select preset station "A5" using ④ A/B/C/D/ E and ⑤ PRESET/TUNING/CH

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

See "Selecting preset stations" on this page.



4 Press 2 PRESET/TUNING again.

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

# English

# XM Satellite Radio tuning

XM Satellite Radio offers an extraordinary variety of commercial-free music, plus the best in sports, news, talk and entertainment. XM is broadcast in superior digital audio from coast to coast. From rock to reggae, from classical to hip hop, XM has something for every music fan. XM's dedication to playing the richest selection of music is matched by its passion for live sporting events, talk radio, up-to-the-minute news, stand-up comedy, children's programming, and much more.

For U.S. customers, information about XM Satellite Radio is available online at www.xmradio.com.

For Canadian customers, information about XM Canada is online at www.xmradio.ca.

This unit is equipped with the Neural Surround decoder that plays back the XM HD surround sound content of the XM Satellite Radio broadcasts in multi-channels, resulting in a full surround sound experience.

#### Note

The XM Satellite Radio service is only available in the 48 contiguous United States (not available in Alaska and Hawaii) and Canada.

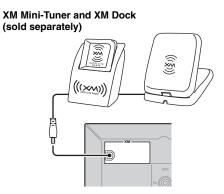
#### ■ Information from XM Satellite Radio Inc.

Hardware and required monthly subscription sold separately. Other fees and taxes, including a one-time activation fee may apply. Subscription fee is consumer only. All fees and programming subject to change. Subscriptions subject to Customer Agreement available at xmradio.com (US residents) and xmradio.ca (Canadian residents). Only available in the 48 contiguous United States and Canada. ©2006 XM Satellite Radio Inc. All rights reserved. All other trademarks are the property of their respective owners.

## Connecting the XM Mini-Tuner Dock

Connect XM Mini-Tuner and XM Dock (sold separately) to the XM jack on the rear panel of this unit.

For details, see the operating instructions provided with XM Mini-Tuner Dock.



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- To ensure optimal reception of the XM Satellite Radio signals, the XM Mini-Tuner Dock 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.
- Use the "XM ANT." parameter in "OPTION MENU" (see page 50) to display the XM Satellite Radio reception level in the front panel display. For the best reception, orient the connected XM Mini-Tuner so that a value of 60% or more is displayed.

#### Note

If "CHECK ANTENNA" appears in the front panel display, the XM Mini-Tuner Dock may not be connected to the XM jack on the rear panel of this unit properly. See "Connecting the XM Mini-Tuner Dock" on this page and check the connection.

## Activating XM Satellite Radio

Once you have installed the XM Mini-Tuner Dock, inserted the XM Mini-Tuner, connected the XM Dock to your XM Ready® home audio system, and installed the antenna, you are ready to subscribe and begin receiving XM programming. There are three places to find your eight character XM Radio ID: on the XM Mini-Tuner, on the XM Mini-Tuner package, and on XM Channel 0. Record the Radio ID in the following eight squares for reference.



#### Note

The XM Radio ID does not use the letters "I", "O", "S" or "F". Activate your XM Satellite Radio service in the U.S. online at http://www.xmradio.com/ or call 1-800-XM-RADIO (1-800-967-2346). You will need a major credit card. XM will send a signal from the satellites to activate the full channel lineup. Activation normally takes 10 to 15 minutes, but during peak busy periods you may need to keep your XM Ready home audio system on for up to an hour. When you can access the full channel lineup on your XM Ready home audio system you are done. For more information or to subscribe in Canada, visit XM on the Web at www.xmradio.ca or call XM's Listener Care at 1-877-GET-XMSR (1-877-438-9677).

# Basic XM Satellite Radio operations

### 

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.

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

- To select a channel from the all channel list, see "All Channel Search mode" on page 39.
- To select a channel by category, see "Category Search mode" on page 39.
- To select a channel from the preset channels, see "Preset Search mode" on page 39.
- To select the desired channel directly by entering the channel number, see "Direct Number Access mode" on page 39.

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- You can use the Neural Surround decoder to enjoy the XM HD surround sound content of the XM Satellite Radio broadcasts in multi-channels (see page 32).
- You can set the XM Satellite Radio preset channels (see page 40).
- You can display the XM Satellite Radio information in the front panel display (see page 41).

`\<u>\</u>'

When performing these operations with the remote control, press ©XM to select "XM" as the input source.

#### All Channel Search mode

- 1 Press ② SEARCH MODE (or ® SRCH MODE) repeatedly to select "ALL CH SEARCH".
- 2 Press ⑤ PRESET/TUNING/CH 
  ⑤ PRESET/CH △ / ▽) repeatedly to search for a channel within all channels.

`\oʻ′:

- You can search for a channel quickly by pressing and holding
   ⑤ PRESET/TUNING/CH 
   ✓ / ▷ (or ⑥ PRESET/CH △ / ▽).
- To display the XM Radio ID number displayed in the front panel display, select channel "0".

#### ■ Category Search mode

- 1 Press ② SEARCH MODE (or PSRCH MODE) repeatedly to select "CAT SEARCH".
- Press **④ CATEGORY** (or **⑤ A-E/CAT.** <1/>
  ✓/ >) repeatedly to change the channel category.
- 3 Press ⑤ PRESET/TUNING/CH 
  ⑤ PRESET/CH △ / ▽) repeatedly to search for a channel within the selected channel category.

`\\\

You can search for a channel quickly by pressing and holding  $\textcircled{PRESET/TUNING/CH} \lhd / \rhd (or \textcircled{PRESET/CH} \land / ?)$ .

#### ■ 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 XM Satellite Radio preset channels" on page 40.

`\\\

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

- 1 Press ② SEARCH MODE (or ® SRCH MODE) repeatedly to select "PRESET SEARCH".
- 2 Press **③ CATEGORY** (or **⑤ A-E/CAT.** ⊲ / ▷) repeatedly to change the preset channel group (A to E).

Press ⑤ PRESET/TUNING/CH 
(or ⑥ PRESET/CH △ / ▽) repeatedly to change the preset channel number (1 to 8).



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

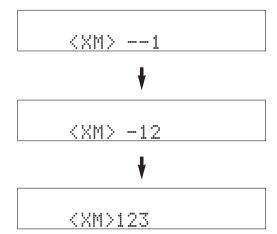
#### ■ Direct Number Access mode

- 1 Press (PSRCH MODE repeatedly to select "ALL CH SEARCH" or "CAT SEARCH".
- Press the numeric buttons ((v)) 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.



``⊚′≤

- 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 ((v)) or
   (v) or
   (v) expressing a button other than the numeric buttons ((v)) or
   (v) or
   (v) or

# Setting 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 39.

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

See "Basic XM Satellite Radio operations" on page 38 for details.

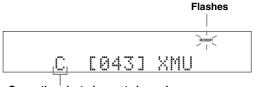
2 Press ® MEMORY (or ⊕ XM MEMORY). The MEMORY indicator flashes in the front panel display for approximately 10 seconds.

#### 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 ④ CATEGORY (or ⑤ A-E/CAT. 
repeatedly to select a preset channel group
(A to E) while the MEMORY indicator is flashing.

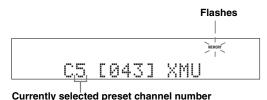
The preset channel group letter appears in the front panel display.



Currently selected preset channel group

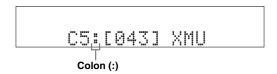
4 Press ⑤ PRESET/TUNING/CH <1/>
⑤ PRESET/CH △ / ▽) repeatedly to select a preset channel number (1 to 8) while the MEMORY indicator is flashing.

The preset channel number appears in the front panel display.



Press ® MEMORY (or ® XM MEMORY) 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.

# English

# Displaying the XM Satellite Radio information

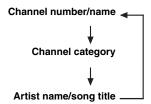
You can display the XM Satellite Radio information (such as channel number, channel name, category, artist name, or song title) for the currently selected channel in the front panel display.

#### Note

If a status message or an error message appears in the front panel display, see the "XM Satellite Radio (U.S.A. and Canada models only)" section in "Troubleshooting" on page 59 for appropriate remedies.

 Displaying the XM Satellite Radio information in the front panel display

Press **DISPLAY** (or **B DISPLAY**) repeatedly to toggle between the following XM Satellite Radio information display modes.



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- 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 "FL SCROLL" parameter in "OPTION MENU" (see page 50).
- If the XM Satellite Radio information contains a character that cannot be recognized by this unit, the character will be displayed with a space.

## 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 settings of TONE CONTROL (see page 29) and VOLUME settings, speaker levels (see page 29) and the sound field programs (see page 31) do not affect recorded material.
- The source connected to the MULTI CH INPUT jacks of this unit cannot be recorded.
- The XM Satellite Radio signals cannot be output at the AUDIO OUT (REC) jacks.
- Digital signals input at the DIGITAL INPUT jacks are not output at the analog AUDIO OUT (REC) jacks for recording. Therefore, if your source component is connected to provide only digital signals, you cannot record the source.
- A given input source is not output on the same OUT (REC) channel.
- Once you have connected a recording component to this unit, keep the component turned on while using this unit. If the component is turned off, this unit may distort the sound from other components.
- Check the copyright laws in your country to record from CDs, radio, etc. Recording of copyrighted material may infringe copyright laws.

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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 Press (♣) INPUT 
  / > repeatedly (or press one of the input selector buttons (ⓒ)) 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.

# 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 automatically adjust speaker and system parameters (see page 21).

#### ■ 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, the crossover frequency, and the location of the front speakers connected to the FRONT B terminals.	45
B)SP LEVEL	Adjusts the output level of each speaker.	46
C)SP DISTANCE	Adjusts the distance of each speaker.	47
D)CENTER GEQ	Adjusts the tonal quality of the center speaker.	47
E)LFE LEVEL	Adjusts the output level of the LFE channel for Dolby Digital or DTS signals.	47
F)D. RANGE	Adjusts the dynamic range of Dolby Digital or DTS signals.	47
G)AUDIO SET	Adjusts the muting level, audio delay settings, maximum volume level and initial volume level.	48

#### 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.	48
B)INPUT RENAME	Changes the name of the input source.	49
C)VOLUME TRIM	Adjusts the output volume of each jack.	49
D)DECODER MODE	Selects the decoder mode for the sources connected to the DIGITAL INPUT jacks on the rear panel of this unit.	49
E)MULTI CH SET	Select the video source played in the background of the sources in put from the MULTI CH INPUT jacks.	49

#### 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 front panel display and the way in which the XM information is displayed.	50
B)MEMORY GUARD	Locks sound field program parameters and other set menu settings.	50
C)AUDIO SELECT	Designates the default audio input jack select setting mode for the input sources connected to the DIGITAL INPUT jacks when you turn on the power of this unit.	50
D)PARAM. INI	Sets all the parameters of the sound field programs to the initial factory settings.	50
E)XM RADIO SET	Displays the current reception level of the XM Satellite Radio signals.	50

#### Note

The "XM RADIO SET" parameter is only applicable to the U.S.A. and Canada models.

#### ■ Signal information SIGNAL INFO

Use this feature to check audio signal information (see page 30).

### Using set menu

Use the remote control to access and adjust each parameter.

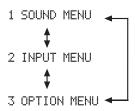
`\o':

You can change the set menu parameters while this unit is reproducing sound.

- 1 Press **OAMP** and then press **OMENU** on the remote control.
  - "BASIC SETUP" appears in the front panel display.
    - \*BASIC SETUP
- **2** Press  $\textcircled{G} \land / \bigtriangledown$  to select "MANUAL SETUP".
  - MANUAL SETUP
- **3** Press © ENTER to enter "MANUAL SETUP". "1 SOUND MENU" appears in the front panel display.
  - 1 SOUND MENU

4 Press ⑤ △ / ▽ repeatedly and then press ⑥ ENTER to select and enter the desired menu.

The following menus appear in the front panel display as you press  $\textcircled{G} \land / \bigtriangledown$  repeatedly.



- 5 Press ⑤∆ / ∇ repeatedly and then press ⑥ENTER 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 (H) **RETURN**.
- 6 Press ⑤ △ / ▽ to select the desired parameter and then ⑥ < / > to change the parameter value.
  - Press ⑥ ➤ to increase the value.
- 7 Press PMENU to exit from set menu.

# inglish

## 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 ADSPEAKER SET

Use this feature to manually adjust any speaker settings.

#### FRONT B speaker setting FRONT B

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

Choices: **FRONT**, ZONE B

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

#### Notes

- If you connect headphones to the PHONES jack of this unit, the sound is output from both headphones and the FRONT B terminals when "FRONT B" is set to "ZONE B".
- If a DSP program is selected when "FRONT B" is set to "ZONE B", this unit automatically enters the Virtual CINEMA DSP mode (see page 33).

Woofer section of a speaker is 16 cm (6.5 in) or larger: large

Woofer section of a speaker is smaller than 16 cm (6.5 in); small

Front speakers FRONT Choices: SMALL. LARGE

When the front speakers are large

Select "LARGE" (large).

When the front speakers are small

Select "SMALL" (small).

#### Note

When "BASS OUT" is set to "FRNT" (see page 46), you can select only "LARGE" in "FRONT". If the value of "FRONT" is set to a setting other than "LARGE" in advance, this unit automatically changes the value to "LARGE".

Center speaker CENTER Choices: NONE, SML, LRG

When the center speaker is large

Select "LRG" (large).

When the center speaker is small

Select "SML" (small).

When you do not use the center speaker

Select "NONE" (none). The center channel signals are directed to the front left and right speakers.

Surround left/right speakers SUR. LR

Choices: NONE, SML, LRG

When the surround speakers are large

Select "LRG" (large).

When the surround speakers are small

Select "SML" (small).

When you do not use the surround speakers

Select "NONE" (none). This unit is set to the Virtual CINEMA DSP mode (see page 33).

#### 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

`\o':

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

# When a subwoofer is connected to this unit and you want to get natural bass sound

Select "SWFR" (subwoofer). The LFE signals as well as the low-frequency signals of other speakers set to "SML" (or "SMALL") are directed to the subwoofer.

# When a subwoofer is connected to this unit and you want to get rich bass sound

Select "BOTH" (both). 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 "SMALL") 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 and the subwoofer regardless of the "FRONT" setting (see page 45).

#### When you do not use a subwoofer

Select "FRNT" (front). 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 "SMALL") are all directed to the front left and right speakers regardless of the "FRONT" setting (see page 45).

#### 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 pages 44 and 45). 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 pages 44 and 45).

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 adjust the output level of each speaker.

Control range: -10 to +10 dB

Control step: 1 dB Initial setting: 0 dB

SP LEVEL	Adjusted speaker
FL	Front left speaker
FR	Front right speaker
С	Center speaker
SL	Surround left speaker
SR	Surround right speaker
SWFR	Subwoofer

#### Note

The available speaker channels differ depending on the setting of the speakers.

# English

#### ■ 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) Initial setting: 3.00 m (10.0 ft)

SP DISTANCE	Adjusted speaker
FRONT L	Front left speaker
FRONT R	Front right speaker
CENTER	Center speaker
SUR. L	Surround left speaker
SUR. R	Surround right speaker
SWFR	Subwoofer

#### Note

The available speaker channels differ depending on the setting of the speakers.

#### ■ 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: -6.0 to +6.0 dB

Control step: 0.5 dB Initial setting: 0 dB `\\\

Press  $\textcircled{G} \land / \nabla$  to select a frequency band and  $\textcircled{G} \lhd / \triangleright$  to adjust the selected frequency band.

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

#### Test tone TEST

Use this feature to make adjustments for "CENTER GEQ" while listening to a test tone.

Choices: OFF, ON

- Select "OFF" to stop test tones and output the currently selected source component.
- Select "ON" to output test tones from the center and front left speakers.

#### ■ 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 LFE SP LFE

Adjusts the speaker LFE level.

**Headphone LFE** HP LFE Adjusts the headphone LFE level.

#### Note

Depending on the settings of "BASS OUT" (see page 46), some signals may not be output at the SUBWOOFER OUTPUT jack.

#### ■ Dynamic range FDD. 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.

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.

Speaker dynamic range SP D.R

Adjusts the speaker compression.

Headphone dynamic range HP D.R

Adjusts the headphone compression.

#### ■ Audio settings GDAUDIO SET

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

#### Mute type MUTE TYP.

Use this feature to adjust how much the mute function reduces the output volume (see page 28).

Choices: **FULL**, –20dB

- Select "FULL" to completely mute all the audio output.
- 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

#### Maximum volume MAX VOL.

Use this feature to set the maximum volume level. This feature is useful to avoid the unexpected loud sound by mistake. For example, the original volume range is 16 dB to –80 dB. However, when "MAX VOL." is set to –5 dB, the volume range becomes –5 dB to –80 dB.

Control range: **16 dB**, 10 dB to –30 dB

Control step: 5 dB

#### Note

The "MAX VOL." setting takes priority over the "Initial Volume" setting. For example, if "INI.VOL." is set to -20 dB and "MAX VOL." is set to -30 dB, the volume level is automatically set to -30 dB when you turn on the power of this unit next time.

#### Initial volume INI. VOL.

Use this feature to set the volume level when the power of this unit is turned on.

Choices: Off, -80 dB to +16 dB

Control step: 1 dB

#### Note

The "MAX VOL." setting takes priority over the "INI.VOL." setting.

## 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 4 **INPUT**  $\lhd$  /  $\triangleright$  (or the input selector buttons (6) on the remote control).

#### For COAXIAL INPUT jacks 1

IN (1)

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

#### For OPTICAL INPUT jacks 2 and 3

IN (2)

IN (3)

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

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

#### Note

You cannot select a specific item more than once.

# inglish

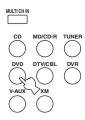
#### ■ Input rename B) INPUT RENAME

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 (©) or (A) MULTI CH IN to select the input source you want to change the name of.



- Press 

  AMP and then press 

  AMP
- 3 Press ⑤ △ / ▽ to select the character you want to use and then press ⑤ ⊲ / ▷ to move to the next space.

#### Notes

- You can use up to 8 characters for each input.
- Press ⑤ ▼ to change the character in the following order, or press ⑥ ∆ to go in the reverse order:

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 ® MENU to exit from "INPUT RENAME".

#### ■ Volume trim COVOLUME 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, MULTI CH IN,
XM RADIO

Control range: -6.0 to +6.0 dB

Control step: 1.0 dB Initial setting: 0.0 dB

#### ■ **Decoder mode** DECODER MODE

#### Decoder select mode

Use this feature to designate the default decoder mode for the input sources connected to the DIGITAL INPUT jacks when you turn on the power of this unit.

Choices: AUTO, LAST

- Select "AUTO" if you want this unit to automatically detect the type of input signals and select the appropriate decoder mode.
- Select "LAST" if you want this unit to automatically select the last decoder mode used the connected input source.

#### DTS decoder prioritize setting

Choices: AUTO, DTS

- Select "AUTO" if you want this unit to automatically detect input signal types and select the appropriate input mode.
- Select "DTS" when you play back a DTS-CD.

### ■ Multi channel input setup

E)MULTI CH SET

BGV BGV

Use this feature to select the video source played in the background of the sources input from the MULTI CH INPUT jacks.

Choices: LAST, DVR, V-AUX, DTV/CBL, DVD

`\\\

Select "LAST" to set this unit to automatically select the last selected video source as the background video source.

### 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 ⑤ < to make the front panel display dimmer.
- Press ⑤ to make the front panel display brighter.

#### Front panel display scroll FL SCROLL

Use this feature to set whether to display the information (such as song title or channel name) in the front panel display in a continuous manner or by the first 14 alphanumeric characters after scrolling all characters once when "XM" is selected as the input source.

Choices: CONT, ONCE

- Select "CONT" to display the operation status in the front panel display in a continuous manner.
- Select "ONCE" to display the operation status in the front panel display by the first 14 alphanumeric characters after scrolling all characters once.

#### ■ Memory guard B)MEMORY GUARD

#### Memory guard MEM. 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 "MEM. GUARD" feature.
- Select "ON" to protect:
  - sound field program parameters
  - all set menu items
  - all speaker levels
  - SCENE template parameters

#### Note

When "MEM. GUARD" is set to "ON", you cannot select and adjust any other set menu items.

#### ■ Audio select CDAUDIO SELECT

Use this feature to designate the default audio input jack select setting for the input sources when you turn on the power of this unit.

Choices: AUTO, LAST

- Select "AUTO" if you want this unit to automatically detect the type of input signals and select the appropriate input mode.
- Select "LAST" if you want this unit to automatically select the last input mode used for the connected input source (see page 29).

#### ■ Parameter initialization DOPARAM. INI

Use this feature to set all the parameters of the sound field programs to the initial factory settings.

Choices: NO, YES

- Select "NO" to cancel the parameter initialization and return to the previous menu level.
- Select "YES" to set all the sound field parameters to the initial factory settings.

#### Notes

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

# ■ XM Radio setting E)XM RADIO SET (U.S.A. and Canada models only)

#### XM Radio antenna XM ANT.

Use this feature to check the current reception level of the XM Satellite Radio signals (see page 37). For the best reception, orient XM Mini-Tuner Dock so that a value of 60% or more is displayed here.

Display status: NONE, 0 to 100%

#### Note

"NONE" is displayed if XM Mini-Tuner Dock is not connected to this unit. In this case, check the antenna connections (see page 37).

## Remote control features

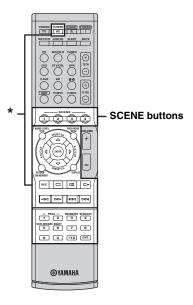
In addition to controlling this unit, the remote control can also operate other audiovisual components made by Yamaha and other manufacturers. To control your TV or other components, you must set up the appropriate remote control code for each input source (see page 54).

## Using remote control on the SCENE feature

#### Controlling the input source components in the SCENE mode

You can operate both this unit and the input source component by using the remote control. You must set the appropriate remote control code for each input source in advance (see page 54).

- 1 Press the desired **ESCENE** button on the remote control.
- 2 Press the desired buttons in the \* area below to control the input source component of the selected SCENE template.



#### Setting input source of the customized SCENE template on the remote control

If you customize the input source of the selected SCENE template, you must set the input source of the SCENE template on the remote control to operate the input source component correctly.

Press and hold the **SCENE** button and the desired input selector button (©) for 3 seconds.

`\\\

Press the **©SCENE** button again to operate the input source component.

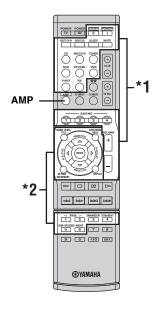
#### Note

\* These buttons control the input source component. See page 53 for details of the function of each button.

# Controlling this unit, a TV, or other components

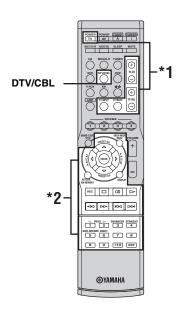
#### ■ Controlling this unit

Press **OAMP** to control this unit.



#### Controlling a TV

Press © **DTV/CBL** to control your TV. To control your TV, you must set the appropriate remote control code for DTV/CBL (see page 54).



#### Notes

- \*1 These buttons always control this unit.
- \*2 These buttons control this unit only when **DAMP** is pressed.

#### Notes

\*1 These buttons always control your TV regardless of whether you press © DTV/CBL or not.

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

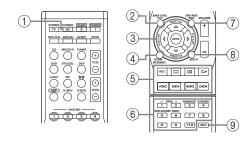
<sup>\*2</sup> These buttons control your TV only when © **DTV/CBL** is pressed. For details, see the "Digital TV/Cable TV" column on page 53.

# English

#### Controlling other components

`\\\

The remote control has 9 modes (input areas) to control components so that the remote control can operate up to 9 different components.



Remote cont	rol 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	
2 TITLE	Title						Band
3 PRESET/CH	I ∆ Up	VCR channel up	Up				Preset up (1-8)
PRESET/CH	I ∇ Down	VCR channel down	Down				Preset down (1-8)
A-E/CAT. <	1 Left		Left				Preset down (A-E)
A-E/CAT. ⊳	Right		Right				Preset up (A-E)
ENTER	Enter		Enter				
4 RETURN	Return		Return				
5 REC	Disc skip (player) Rec (recorder)	Rec	Rec *2		Disc skip	Rec	
$\triangleright$	Play	Play	Play *2	Play	Play	Play	
<<<	Search backward	Search backward	Search backward *2	Search backward	Search backward	Search backward	
DD-	Search forward	Search forward	Search forward *2	Search forward	Search forward	Search forward	
00	Pause	Pause	Pause *2	Pause	Pause	Pause	
	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	
6 1-9, 0, +10	Numeric buttons	Numeric buttons	Numeric buttons	Numeric buttons	Numeric buttons	Numeric buttons	Preset stations (1-8)
7 MENU	Menu		Menu				
8 DISPLAY	Display	Display	Display	Display	Display	Display	
9) ENT.	Title/Index	Enter	Enter	Chapter/Time	Index	Index	

#### Notes

<sup>\*1</sup> This button is operational only when the original remote control supplied with the component has a POWER button.

<sup>\*2</sup> These buttons operate your DVD recorder only when you set the appropriate remote control code for DVR (see page 54).

## Setting remote control codes

You can control other components by setting the appropriate remote control codes. For a complete list of available remote control codes, refer to "List of remote control codes" at the end of this manual.

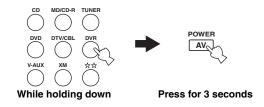
#### Remote control code default settings

Input source	Component category	Manufacturer	Default code
CD	CD	YAMAHA	5013
MD/CD-R	CD-R	YAMAHA	5001
TUNER	TUNER	YAMAHA	5007
DVD	DVD	YAMAHA	2000
DTV/CBL	-	-	-
V-AUX	TUNER	YAMAHA	5011
XM	TUNER	YAMAHA	5009
DVR	DVR	YAMAHA	2011
ដដ	TUNER	YAMAHA	5012

#### Note

You may not be able to operate your Yamaha component even if a Yamaha remote control code is preset as listed above. In this case, try setting another Yamaha remote control code.

While pressing and holding one of the input selector buttons (©) on the remote control to select the input area you want to set up, press AV POWER for more than 3 seconds.



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

#### Notes

- 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 2, the setup process is canceled. If this happens, repeat the setup procedure.

# English

# **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

- Only ①STANDBY/ON, ①PROGRAM 
  ⟨¬⟩ and
  ②STRAIGHT are effective while you are using the advanced setup menu.
- No other operations can be made while you are using the advanced setup menu.
- The advanced setup menu is only available in the front panel display.
- 1 Press ① STANDBY/ON on the front panel to set this unit to the standby mode.
- 2 Press and hold **®TONE CONTROL** 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 ⊕ PROGRAM 
/ > to select the parameter you want to adjust.

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

- 4 Press @STRAIGHT repeatedly to change the selected parameter setting.
- Press ① STANDBY/ON to confirm your selection and set this unit to the standby mode.

`\\\\

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

# ■ Speaker impedance SP IMP. (U.S.A. and Canada models only)

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

Choices:  $\mathbf{8}\Omega$  MIN,  $6\Omega$  MIN

- Select " $8\Omega$  MIN" to set the speaker impedance to  $8\Omega$ .
- Select " $6\Omega$  MIN" to set the speaker impedance to  $6\Omega$ .

SP IMP.	Speaker	Impedance level
	Front (A or B)	The impedance of each
$8\Omega$ MIN	Center	speaker must be 8 Ω or higher.
	Surround	<u> </u>
6Ω ΜΙΝ	Front (A or B)	The impedence of each
	Center	<ul> <li>The impedance of each speaker must be 6 Ω or higher.</li> </ul>
	Surround	_ mg.c

#### ■ Factory presets PRESET

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

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.

# ■ 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.

# 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, turn off this unit, 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.	13
	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.	12
	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.	14-17
	No appropriate Audio input jack select has been set.	Set an appropriate Audio input jack select.	29
	No appropriate input source has been selected.	Select an appropriate input source with <b>④INPUT</b> <li>✓/ &gt; on the front panel (or the input selector buttons on the remote control).</li>	27, 28
	Speaker connections are not secure.	Secure the connections.	12
	The front speakers to be used have not been selected properly.	Select the front speakers with <b>9 SPEAKERS</b> .	27
	The volume is turned down.	Turn up the volume.	_
	The sound is muted.	Press <b>(N) MUTE</b> or <b>(Q) VOLUME +/-</b> on the remote control to resume audio output and then adjust the volume.	28
	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.	

Problem	Cause	Remedy	See page
The sound suddenly	The protection circuitry has been activated	Check that the impedance setting is correct.	13
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 <b>Mutte</b> or <b>Volume +/-</b> on the remote control to resume audio output.	28
Sound is heard from the speaker on one	Incorrect cable connections.	Connect the cables properly. If the problem persists, the cables may be defective.	14-17
side only.	Incorrect settings in "SP LEVEL".	Adjust the "SP LEVEL" settings.	29
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 speaker.	"CENTER" in "SPEAKER SET" is set to "NONE".	Set "CENTER" to "SML" or "LRG".	45
	One of the HiFi DSP programs (except for 5ch Stereo) has been selected.	Try another sound field program.	31
No sound is heard from the surround speakers.	"SUR. LR" in "SPEAKER SET" is set to "NONE".	Set "SUR. LR" to "SML" or "LRG".	45
	This unit is in the "STRAIGHT" mode and a monaural source is being played back.	Press <b>②STRAIGHT</b> on the front panel so that "STRAIGHT" disappears from the front panel display.	33
No sound is heard from the subwoofer.	"BASS OUT" in "SPEAKER SET" is set to "FRNT" when a Dolby Digital or DTS signal is being played.	Set "BASS OUT" to "SWFR" or "BOTH".	46
	"BASS OUT" in "SPEAKER SET" is set to "SWFR" or "FRNT" when a 2-channel source is being played.	Set "BASS OUT" to "BOTH".	46
	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.)	Audio input jack select is set to "ANALOG".	Set Audio input jack select to "AUTO".	29
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,	You are attempting to set the volume level higher than the maximum volume level.	Adjust "MAX VOL." setting.	48
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.	15, 17
The sound field parameters and some other settings of this unit cannot be changed.	"MEM. GUARD" in "OPTION MENU" is set to "ON".	Set "MEM. GUARD" to "OFF".	50
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.	12
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 is 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.	18
	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.	34
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.	34
	Previously preset stations can no longer be tuned into.	This unit has been disconnected for a long period.	Set preset stations.	35
	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.	34
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. and Canada models 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	See page
CHECK ANTENNA	The XM Mini-Tuner and XM Dock are not connected to the XM jack of this unit or do not work properly.	Check XM Mini-Tuner and XM Dock connections and orient for the best reception level.	37
UPDATING	The XM user encryption code is being updated.	Wait until the encryption code is updated.	_
NO SIGNAL	The signal is too weak.	Adjust the orientation of the XM Mini-Tuner for the best reception level.	37
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 (or ( A-E/CAT. </td <td>39</td>	39

#### **■** 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 off-axis from the front panel.	20
	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.	54
		Try setting another code for the same manufacturer using "List of remote control codes" at the end of this manual.	54
	Even if the remote control code is correctly set, there are some models that do not respond to the remote control.		

#### ■ Resetting the system

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

- 1 Press ① **STANDBY/ON** on the front panel to set this unit to the standby mode.
- Press and hold **TONE CONTROL** and then press **STANDBY/ON** to turn on this unit.

The advanced setup menu appears in the front panel display.

- 3 Press ⊕ PROGRAM 
  '> to select "PRESET".
- 4 Press **STRAIGHT** repeatedly to select "RESET".

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

5 Press ① STANDBY/ON to confirm your selection and set this unit to the standby mode.

#### 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.

`\o':

To cancel the initialization procedure at any time without making any changes, press **® STRAIGHT** repeatedly to select "CANCEL" and then press **® STANDBY/ON**.

# 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 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 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 Digital Surround**

DTS digital surround was developed to replace the analog soundtracks of movies with a 5.1-channel digital sound track, and is now rapidly gaining popularity in movie theaters around the world. DTS, 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 5.1-channel sound (technically, left, right and center channels, 2 surround channels, plus an LFE 0.1 channel as a subwoofer, for a total of 5.1-channels).

#### LFE 0.1 channel

This channel reproduces low-frequency bass 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 channels in Dolby Digital or DTS 5.1-channel systems.

#### **Neural Surround**

Neural Surround<sup>™</sup> 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<sup>™</sup> employs psychoacoustic frequency domain processing which allows delivery of a more detailed sound stage with superior channel separation and localization of audio elements.

#### **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.

#### 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 DSP 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 program 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 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.

#### ■ 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.

# **Specifications**

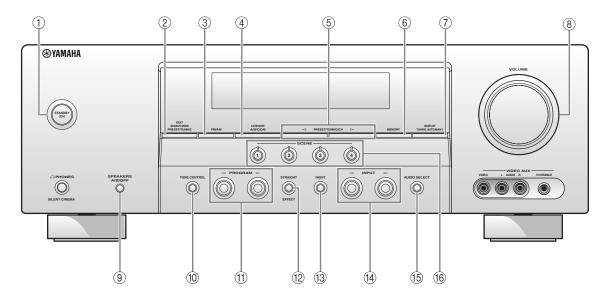
AUDIO SECTION	VIDEO SECTION
• Minimum RMS Output Power for Front, Center, Surround	Signal Level
[U.S.A. and Canada models]	Composite
1 kHz, 0.9% THD, 8 Ω	Component
[Other models] 1 kHz, 0.9% THD, 6 $\Omega$ 100 W	Video Maximum Input Level
• Maximum Power (JEITA)	• Signal to Noise Ratio
[U.S.A. and Canada models]  1 kHz, 10% THD, 8 \( \Omega\$	• Frequency Response (MONITOR OUT)  Component Signal 5 Hz to 60 MHz, –3 dB
1 kHz, 10% THD, 6 $\Omega$	FM SECTION
• MAX Power Per Channel [U.K. and Europe models] 1 kHz, 0.7% THD, 4 $\Omega$	Tuning Range     [U.S.A. and Canada models]
• IEC Power [U.K. and Europe models]	• 50 dB Quieting Sensitivity (IHF, 100% mod.)
1 kHz, 0.1% THD, 8 $\Omega$	Mono
Dynamic Power	Signal to Noise Ratio (IHF)     Mono/Stereo
[U.S.A. and Canada models] (Impedance Selector: 8 $\Omega$ ) (IHF, 8/6/4/2 $\Omega$ )	Harmonic Distortion (1 kHz)
[Other models]	Mono/Stereo
(IHF, $6/4/2$ Ω)	AM OFOTION
Dynamic Headroom	AM SECTION
$8\Omega$	Tuning Range [U.S.A. and Canada models] 530 to 1710 kHz
Frequency Response	[Asia and General models]
CD, etc. to Front L/R	[Other models]
Total Harmonic Distortion	GENERAL
CD, etc. (2ch stereo) to Front SP OUT,	Power Supply
[U.S.A. and Canada models]	[U.S.A. and Canada models] 120 V AC, 60 Hz
1 kHz, 50 W/8 $\Omega$	[Australia model]
1 kHz, 50 W/6 $\Omega$ 0.06% or less	[China model]
	[U.K. and Europe models]
Signal to Noise Ratio (IHF-A Network)     CD, etc. (STEREO) Input shorted (250 mV) 100 dB or more	[Asia and General models]
• Residual Noise (IHF-A Network) Front L/R	Power Consumption
• Channel Separation CD, etc. Input 5.1 kΩ shorted (1 kHz/10 kHz)	[U.S.A. and Canada models]       240 W/320 VA         [Other models]       240 W
	Standby Power Consumption [Except Asia and General models]
• Tone Control (Front L/R)	Maximum Power Consumption
BASS Boost/Cut	[Asia and General models]
	5ch, 10%/THD 530 W
• Headphone Jack Rated Output/Impedance CD, etc. (1 kHz, 200 mV, 8 $\Omega$ )0.4 V/470 $\Omega$	• Dimensions (W x H x D)
Input Sensitivity/Input Impedance	• Weight
CD, etc	• Weight 8.0 kg (17 lbs 10 02)
Maximum Input Signal CD, etc. 1 kHz, 0.5%THD (EFFECT ON) 2.0 V or more	* Specifications are subject to change without notice.
• Output Level/Output Impedance AUDIO OUT (REC)	
• Filter Characteristics (fc=40/60/80/90/100/110/120/160/200 Hz)	
H.P.F. (Front, Center, Surround) 12 dB/oct. L.P.F. (Subwoofer) 24 dB/oct.	

# Index

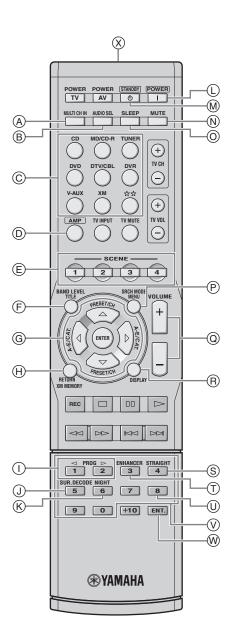
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### ■ Front panel



#### ■ Remote control



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KINGSLEY KLOSS NOVA KNEISSEL KOLSTER	0200, 0207 BEAM 0062 0203 0213	MONTGOMER MTC	0203, 0204, 0207 RY WARD 0058 0060, 0061, 0128, 0200		0215 NIC 0207 0040, 0060, 0063, 0072, 0115, 0116, 0124, 0130, 0150,	SACCS	0216 0212 0204, 0206, 0207, 0208 0201, 0204, 0210,
KINGSLEY KLOSS NOVA KNEISSEL KOLSTER KONKA	0200, 0207 BEAM 0062 0203 0213 0209, 0218	MONTGOME	0203, 0204, 0207 RY WARD 0058 0060, 0061, 0128, 0200 EM		0215 NIC 0207 0040, 0060, 0063, 0072, 0115, 0116, 0124, 0130, 0150, 0175, 0184, 0187,	SACCS SAISHO SALORA	0216 0212 0204, 0206, 0207, 0208 0201, 0204, 0210, 0211, 0215
KINGSLEY KLOSS NOVA KNEISSEL KOLSTER KONKA KORPEL	0200, 0207 BEAM 0062 0203 0213 0209, 0218 0213, 0217	MONTGOMER MTC MULTI SYSTE	0203, 0204, 0207 RY WARD 0058 0060, 0061, 0128, 0200 EM 0217		0215 NIC 0207 0040, 0060, 0063, 0072, 0115, 0116, 0124, 0130, 0150, 0175, 0184, 0187, 0205, 0207, 0213,	SACCS SAISHO SALORA SAMBERS	0216 0212 0204, 0206, 0207, 0208 0201, 0204, 0210, 0211, 0215 0204
KINGSLEY KLOSS NOVA KNEISSEL KOLSTER KONKA KORPEL KORTING	0200, 0207 BEAM 0062 0203 0213 0209, 0218	MONTGOMER MTC MULTI SYSTE	0203, 0204, 0207 RY WARD 0058 0060, 0061, 0128, 0200 EM 0217 0062, 0127, 0128,		0215 NIC 0207 0040, 0060, 0063, 0072, 0115, 0116, 0124, 0130, 0150, 0175, 0184, 0187, 0205, 0207, 0213, 0215, 0217, 0220,	SACCS SAISHO SALORA	0216 0212 0204, 0206, 0207, 0208 0201, 0204, 0210, 0211, 0215 0204 0060, 0061, 0083,
KINGSLEY KLOSS NOVA KNEISSEL KOLSTER KONKA KORPEL	0200, 0207 BEAM 0062 0203 0213 0209, 0218 0213, 0217	MONTGOMER MTC MULTI SYSTE	0203, 0204, 0207 RY WARD 0058 0060, 0061, 0128, 0200 EM 0217		0215 NIC 0207 0040, 0060, 0063, 0072, 0115, 0116, 0124, 0130, 0150, 0175, 0184, 0187, 0205, 0207, 0213,	SACCS SAISHO SALORA SAMBERS	0216 0212 0204, 0206, 0207, 0208 0201, 0204, 0210, 0211, 0215 0204
KINGSLEY KLOSS NOVA KNEISSEL KOLSTER KONKA KORPEL KORTING	0200, 0207 BEAM 0062 0203 0213 0209, 0218 0213, 0217 0205	MONTGOMER MTC MULTI SYSTE	0203, 0204, 0207 RY WARD 0058 0060, 0061, 0128, 0200 EM 0217 0062, 0127, 0128,		0215 NIC 0207 0040, 0060, 0063, 0072, 0115, 0116, 0124, 0130, 0150, 0175, 0184, 0187, 0205, 0207, 0213, 0215, 0217, 0220,	SACCS SAISHO SALORA SAMBERS	0216 0212 0204, 0206, 0207, 0208 0201, 0204, 0210, 0211, 0215 0204 0060, 0061, 0083,
KINGSLEY KLOSS NOVA KNEISSEL KOLSTER KONKA KORPEL KORTING KOYODA	0200, 0207 BEAM 0062 0203 0213 0209, 0218 0213, 0217 0205 0208	MONTGOMER MTC MULTI SYSTE	0203, 0204, 0207 RY WARD 0058 0060, 0061, 0128, 0200 EM 0217 0062, 0127, 0128, 0200, 0207, 0208,		0215 NIC 0207 0040, 0060, 0063, 0072, 0115, 0116, 0124, 0130, 0150, 0175, 0184, 0187, 0205, 0207, 0213, 0215, 0217, 0220, 0221, 0232, 0233, 0252, 0253	SACCS SAISHO SALORA SAMBERS SAMPO	0216 0212 0204, 0206, 0207, 0208 0201, 0204, 0210, 0211, 0215 0204 0060, 0061, 0083, 0101
KINGSLEY KLOSS NOVA KNEISSEL KOLSTER KONKA KORPEL KORTING KOYODA KTV	0200, 0207 BEAM 0062 0203 0213 0209, 0218 0213, 0217 0205 0208 0062, 0127, 0207	MONTGOMER MTC MULTI SYSTE	0203, 0204, 0207 RY WARD 0058 0060, 0061, 0128, 0200 EM 0217 0062, 0127, 0128, 0200, 0207, 0208, 0210, 0214, 0215,	PHILIPS	0215 NIC 0207 0040, 0060, 0063, 0072, 0115, 0116, 0124, 0130, 0150, 0175, 0184, 0187, 0205, 0207, 0213, 0215, 0217, 0220, 0221, 0232, 0233, 0252, 0253	SACCS SAISHO SALORA SAMBERS SAMPO	0216 0212 0204, 0206, 0207, 0208 0201, 0204, 0210, 0211, 0215 0204 0060, 0061, 0083, 0101 0029, 0030, 0031,
KINGSLEY KLOSS NOVA KNEISSEL KOLSTER KONKA KORPEL KORTING KOYODA KTV KYOTO	0200, 0207 BEAM 0062 0203 0213 0209, 0218 0213, 0217 0205 0208 0062, 0127, 0207 0200, 0212 0208	MONTGOMER MTC MULTI SYSTE MULTITECH	0203, 0204, 0207 RY WARD 0058 0060, 0061, 0128, 0200 SM 0217 0062, 0127, 0128, 0200, 0207, 0208, 0210, 0214, 0215, 0217	PHILIPS	0215 NIC 0207 0040, 0060, 0063, 0072, 0115, 0116, 0124, 0130, 0150, 0175, 0184, 0187, 0205, 0207, 0213, 0215, 0217, 0220, 0221, 0232, 0233, 0252, 0253 NAVOX 0124	SACCS SAISHO SALORA SAMBERS SAMPO	0216 0212 0204, 0206, 0207, 0208 0201, 0204, 0210, 0211, 0215 0204 0060, 0061, 0083, 0101 0029, 0030, 0031, 0032, 0044, 0045, 0046, 0047, 0060,
KINGSLEY KLOSS NOVA KNEISSEL KOLSTER KONKA KORPEL KORTING KOYODA KTV KYOTO LENCO LENCO	0200, 0207 BEAM 0062 0203 0213 0209, 0218 0213, 0217 0205 0208 0062, 0127, 0207 0200, 0212 0208 0207, 0208	MONTGOMER MTC MULTI SYSTE MULTITECH MURPHY NAD	0203, 0204, 0207 RY WARD 0058 0060, 0061, 0128, 0200 SM 0217 0062, 0127, 0128, 0200, 0207, 0208, 0210, 0214, 0215, 0217 0200, 0207	PHILIPS PHILIPS MAG	0215 NIC 0207 0040, 0060, 0063, 0072, 0115, 0116, 0124, 0130, 0150, 0175, 0184, 0187, 0205, 0207, 0213, 0215, 0217, 0220, 0221, 0232, 0233, 0252, 0253 NAVOX 0124 0200, 0205, 0213,	SACCS SAISHO SALORA SAMBERS SAMPO	0216 0212 0204, 0206, 0207, 0208 0201, 0204, 0210, 0211, 0215 0204 0060, 0061, 0083, 0101 0029, 0030, 0031, 0032, 0044, 0045, 0046, 0047, 0060, 0061, 0065, 0068,
KINGSLEY KLOSS NOVA KNEISSEL KOLSTER KONKA KORPEL KORTING KOYODA KTV KYOTO LENCO LENCO LENOIR LESA	0200, 0207 BEAM 0062 0203 0213 0209, 0218 0213, 0217 0205 0208 0062, 0127, 0207 0200, 0212 0208 0208 0207, 0208	MONTGOMEN MTC MULTI SYSTE MULTITECH MURPHY NAD NAONIS	0203, 0204, 0207 RY WARD 0058 0060, 0061, 0128, 0200 EM 0217 0062, 0127, 0128, 0200, 0207, 0208, 0210, 0214, 0215, 0217 0200, 0207 0206, 0207	PHILIPS PHILIPS MAG PHOENIX	0215 NIC 0207 0040, 0060, 0063, 0072, 0115, 0116, 0124, 0130, 0150, 0175, 0184, 0187, 0205, 0207, 0213, 0215, 0217, 0220, 0221, 0232, 0233, 0252, 0253 RNAVOX 0124 0200, 0205, 0213, 0217	SACCS SAISHO SALORA SAMBERS SAMPO	0216 0212 0204, 0206, 0207, 0208 0201, 0204, 0210, 0211, 0215 0204 0060, 0061, 0083, 0101 0029, 0030, 0031, 0032, 0044, 0045, 0046, 0067, 0060, 0061, 0065, 0068, 0069, 0071, 0079,
KINGSLEY KLOSS NOVA KNEISSEL KOLSTER KONKA KORPEL KORTING KOYODA KTV KYOTO LENCO LENCO LENCO LENOIR LESA LEYCO	0200, 0207 BEAM 0062 0203 0213 0209, 0218 0213, 0217 0205 0208 0062, 0127, 0207 0200, 0212 0208 0207, 0208 0214 0206, 0213, 0217	MONTGOMER MTC MULTI SYSTE MULTITECH MURPHY NAD	0203, 0204, 0207 RY WARD 0058 0060, 0061, 0128, 0200 EM 0217 0062, 0127, 0128, 0200, 0207, 0208, 0217, 0214, 0215, 0217 0200, 0207 0061 0210 0026, 0053, 0060,	PHILIPS PHILIPS MAG	0215 NIC 0207 0040, 0060, 0063, 0072, 0115, 0116, 0124, 0130, 0150, 0175, 0184, 0187, 0205, 0207, 0213, 0215, 0217, 0220, 0221, 0232, 0233, 0252, 0253 NAVOX 0124 0200, 0205, 0213, 0217 0200, 0205, 0213,	SACCS SAISHO SALORA SAMBERS SAMPO	0216 0212 0204, 0206, 0207, 0208 0201, 0204, 0210, 0211, 0215 0204 0060, 0061, 0083, 0101 0029, 0030, 0031, 0032, 0044, 0045, 0046, 0047, 0060, 0061, 0065, 0068, 0069, 0071, 0079,
KINGSLEY KLOSS NOVA KNEISSEL KOLSTER KONKA KORPEL KORTING KOYODA KTV KYOTO LENCO LENCO LENOIR LESA	0200, 0207 BEAM 0062 0203 0213 0209, 0218 0213, 0217 0205 0208 0062, 0127, 0207 0200, 0212 0208 0207, 0208 0214 0206, 0213, 0217 0016, 0038, 0039,	MONTGOMER MTC MULTI SYSTE MULTITECH MURPHY NAD NAONIS NEC	0203, 0204, 0207 RY WARD 0058 0060, 0061, 0128, 0200 EM 0217 0062, 0127, 0128, 0200, 0207, 0208, 0210, 0214, 0215, 0217 0200, 0207 0061 0210 0026, 0053, 0060, 0061, 0096, 0127	PHILIPS MAG PHOENIX PHONOLA	0215 NIC 0207 0040, 0060, 0063, 0072, 0115, 0116, 0124, 0130, 0150, 0175, 0184, 0187, 0205, 0207, 0213, 0215, 0217, 0220, 0221, 0232, 0233, 0252, 0253 NAVOX 0124 0200, 0205, 0213, 0217	SACCS SAISHO SALORA SAMBERS SAMPO	0216 0212 0204, 0206, 0207, 0208 0201, 0204, 0210, 0211, 0215 0204 0060, 0061, 0083, 0101 0029, 0030, 0031, 0032, 0044, 0045, 0046, 0047, 0060, 0061, 0065, 0068, 0069, 0071, 0079, 0087, 0127, 0128, 0130, 0144, 0160,
KINGSLEY KLOSS NOVA KNEISSEL KOLSTER KONKA KORPEL KORTING KOYODA KTV KYOTO LENCO LENCO LENCO LENOIR LESA LEYCO	0200, 0207 BEAM 0062 0203 0213 0209, 0218 0213, 0217 0205 0208 0062, 0127, 0207 0200, 0212 0208 0207, 0208 0214 0206, 0213, 0217 0016, 0038, 0039, 0127, 0128, 0157,	MONTGOMEN MTC MULTI SYSTE MULTITECH MURPHY NAD NAONIS	0203, 0204, 0207 RY WARD 0058 0060, 0061, 0128, 0200 EM 0217 0062, 0127, 0128, 0200, 0207, 0208, 0210, 0214, 0215, 0217 0200, 0207, 0208 0210 0200, 0207 0061 0210 0026, 0053, 0060, 0061, 0096, 0127	PHILIPS MAG PHOENIX PHONOLA PILOT	0215 NIC 0207 0040, 0060, 0063, 0072, 0115, 0116, 0124, 0130, 0150, 0175, 0184, 0187, 0205, 0207, 0213, 0215, 0217, 0220, 0233, 0252, 0253, 0252, 0253, 0252, 0253, 0217 0200, 0205, 0205, 0213, 0217 0200, 0205, 0213, 0217	SACCS SAISHO SALORA SAMBERS SAMPO	0216 0212 0204, 0206, 0207, 0208 0201, 0204, 0210, 0211, 0215 0204 0060, 0061, 0083, 0101 0029, 0030, 0031, 0032, 0044, 0045, 0046, 0047, 0060, 0061, 0065, 0068, 0069, 0071, 0079, 0087, 0127, 0128, 0130, 0144, 0160, 0161, 0170, 0176,
KINGSLEY KLOSS NOVA KNEISSEL KOLSTER KONKA KORPEL KORTING KOYODA KTV KYOTO LENCO LENCO LENCO LENOIR LESA LEYCO	0200, 0207 BEAM 0062 0203 0213 0209, 0218 0213, 0217 0205 0208 0062, 0127, 0207 0200, 0212 0208 0207, 0208 0214 0206, 0213, 0217 0016, 0038, 0039, 0127, 0128, 0157, 0158, 0163, 0164,	MONTGOMER MTC MULTI SYSTE MULTITECH MURPHY NAD NAONIS NEC	0203, 0204, 0207 RY WARD 0058 0060, 0061, 0128, 0200 EM 0217 0062, 0127, 0128, 0200, 0207, 0208, 0210, 0214, 0215, 0217 0200, 0207 0061 0210 0026, 0053, 0060, 0061, 0096, 0127 IN 0205, 0207, 0210,	PHILIPS MAG PHOENIX PHONOLA	0215 NIC 0207 0040, 0060, 0063, 0072, 0115, 0116, 0124, 0130, 0150, 0175, 0184, 0187, 0205, 0207, 0213, 0215, 0217, 0220, 0221, 0232, 0253, 0252, 0253 NAVOX 0124 0200, 0205, 0213, 0217 0200, 0205, 0213, 0217 0200, 0205, 0213, 0217 0060 0012, 0013, 0060,	SACCS SAISHO SALORA SAMBERS SAMPO	0216 0212 0204, 0206, 0207, 0208 0201, 0204, 0210, 0211, 0215 0204 0060, 0061, 0083, 0101 0029, 0030, 0031, 0032, 0044, 0045, 0046, 0047, 0060, 0061, 0065, 0068, 0069, 0071, 0079, 0087, 0127, 0128, 0130, 0144, 0160, 0161, 0170, 0176,
KINGSLEY KLOSS NOVA KNEISSEL KOLSTER KONKA KORPEL KORTING KOYODA KTV KYOTO LENCO LENCO LENCO LENOIR LESA LEYCO	0200, 0207 BEAM 0062 0203 0213 0209, 0218 0213, 0217 0205 0208 0062, 0127, 0207 0200, 0212 0208 0207, 0208 0214 0206, 0213, 0217 0016, 0038, 0039, 0127, 0128, 0157, 0158, 0163, 0164, 0166, 0188, 0189,	MONTGOMEN MTC MULTI SYSTE MULTITECH MURPHY NAD NAONIS NEC NECKERMAN	0203, 0204, 0207 RY WARD 0058 0060, 0061, 0128, 0200 BM 0217 0062, 0127, 0128, 0200, 0207, 0208, 0210, 0214, 0215, 0217 0200, 0207 0061 0210 0026, 0053, 0060, 0061, 0096, 0127 IN 0205, 0207, 0210, 0213, 0217, 0255	PHILIPS MAG PHOENIX PHONOLA PILOT	0215 NIC 0207 0040, 0060, 0063, 0072, 0115, 0116, 0124, 0130, 0150, 0175, 0184, 0187, 0205, 0207, 0213, 0215, 0217, 0220, 0221, 0232, 0252, 0253 NAVOX 0124 0200, 0205, 0213, 0217 0200, 0205, 0213, 0217 0200, 0205, 0213, 0217 0060 0012, 0013, 0060, 0061, 0098, 0109,	SACCS SAISHO SALORA SAMBERS SAMPO	0216 0212 0204, 0206, 0207, 0208 0201, 0204, 0210, 0211, 0215 0204 0060, 0061, 0083, 0101 0029, 0030, 0031, 0032, 0044, 0045, 0046, 0047, 0060, 0061, 0065, 0068, 0069, 0071, 0079, 0087, 0127, 0128, 0130, 0144, 0160, 0161, 0170, 0176, 0183, 0185, 0200, 0201, 0206, 0207,
KINGSLEY KLOSS NOVA KNEISSEL KOLSTER KONKA KORPEL KORTING KOYODA KTV KYOTO LENCO LENCO LENCO LENOIR LESA LEYCO	0200, 0207 BEAM 0062 0203 0213 0209, 0218 0213, 0217 0205 0208 0062, 0127, 0207 0200, 0212 0208 0207, 0208 0214 0206, 0213, 0217 0016, 0038, 0039, 0127, 0128, 0157, 0158, 0163, 0164, 0166, 0188, 0189, 0200, 0201, 0207,	MONTGOMEN MTC MULTI SYSTE MULTITECH  MURPHY NAD NAONIS NEC  NECKERMAN	0203, 0204, 0207 RY WARD 0058 0060, 0061, 0128, 0200 EM 0217 0062, 0127, 0128, 0200, 0207, 0208, 0217 0200, 0207, 0208, 0210, 0214, 0215, 0217 0200, 0207 0061 0210 0026, 0053, 0060, 0061, 0096, 0127 IN 0205, 0207, 0210, 0213, 0217, 0255 0213, 0217	PHILIPS MAG PHOENIX PHONOLA PILOT	0215 NIC 0207 0040, 0060, 0063, 0072, 0115, 0116, 0124, 0130, 0150, 0175, 0184, 0187, 0205, 0207, 0213, 0215, 0217, 0220, 0221, 0232, 0252, 0253 NAVOX 0124 0200, 0205, 0213, 0217 0200, 0205, 0213, 0217 0200, 0205, 0213, 0217 0060 0012, 0013, 0060, 0061, 0098, 0109, 0117, 0128, 0181,	SACCS SAISHO SALORA SAMBERS SAMPO	0216 0212 0204, 0206, 0207, 0208 0201, 0204, 0210, 0211, 0215 0204 0060, 0061, 0083, 0101 0029, 0030, 0031, 0032, 0044, 0045, 0046, 0067, 0060, 0061, 0065, 0068, 0069, 0071, 0079, 0087, 0127, 0128, 0130, 0144, 0160, 0161, 0170, 0176, 0183, 0185, 0200, 0201, 0206, 0207, 0208, 0213, 0217,
KINGSLEY KLOSS NOVA KNEISSEL KOLSTER KONKA KORPEL KORTING KOYODA KTV KYOTO LENCO LENCO LENCO LENOIR LESA LEYCO	0200, 0207 BEAM 0062 0203 0213 0209, 0218 0213, 0217 0205 0208 0062, 0127, 0207 0200, 0212 0208 0207, 0208 0214 0206, 0213, 0217 0016, 0038, 0039, 0127, 0128, 0157, 0158, 0163, 0164, 0166, 0188, 0189, 0200, 0201, 0207, 0208, 0210, 0213,	MONTGOMEN MTC MULTI SYSTE MULTITECH  MURPHY NAD NAONIS NEC NECKERMAN  NEI NESCO	0203, 0204, 0207 RY WARD 0058 0060, 0061, 0128, 0200 EM 0217 0062, 0127, 0128, 0200, 0207, 0208, 0217 0200, 0207, 0208, 0217 0200, 0207 0061 0210 0026, 0053, 0060, 0061, 0096, 0127 IN 0205, 0207, 0210, 0213, 0217, 0255 0213, 0217	PHILIPS MAG PHOENIX PHONOLA PILOT	0215 NIC 0207 0040, 0060, 0063, 0072, 0115, 0116, 0124, 0130, 0150, 0175, 0184, 0187, 0205, 0207, 0213, 0215, 0217, 0220, 0221, 0232, 0233, 0252, 0253 8NAVOX 0124 0200, 0205, 0213, 0217 0200, 0205, 0213, 0217 0060 0012, 0013, 0060, 0061, 0098, 0109, 0117, 0128, 0181, 0182, 0194, 0195,	SACCS SAISHO SALORA SAMBERS SAMPO	0216 0212 0204, 0206, 0207, 0208 0201, 0204, 0210, 0211, 0215 0204 0060, 0061, 0083, 0101 0029, 0030, 0031, 0032, 0044, 0045, 0046, 0047, 0060, 0061, 0065, 0068, 0069, 0071, 0079, 0087, 0127, 0128, 0130, 0144, 0160, 0161, 0170, 0176, 0183, 0185, 0200, 0201, 0206, 0207, 0208, 0213, 0217, 0239, 0241, 0242,
KINGSLEY KLOSS NOVA KNEISSEL KOLSTER KONKA KORPEL KORTING KOYODA KTV KYOTO LENCO LENCO LENCO LENCO LESA LEYCO LG	0200, 0207 BEAM 0062 0203 0213 0209, 0218 0213, 0217 0205 0208 0062, 0127, 0207 0200, 0212 0208 0207, 0208 0214 0206, 0213, 0217 0016, 0038, 0039, 0127, 0128, 0157, 0158, 0163, 0164, 0166, 0188, 0189, 0200, 0201, 0207, 0208, 0214, 0215, 0217	MONTGOMEN MTC  MULTI SYSTE MULTITECH  MURPHY NAD NAONIS NEC  NECKERMAN  NEI NESCO NET-TV	0203, 0204, 0207 RY WARD 0058 0060, 0061, 0128, 0200 EM 0217 0062, 0127, 0128, 0200, 0207, 0208, 0210, 0214, 0215, 0217 0200, 0207, 0208, 0210, 0206, 0061, 0096, 0127 IN 0205, 0207, 0210, 0213, 0217, 0255 0213, 0217 0214 0082, 0101	PHILIPS MAG PHOENIX PHONOLA PILOT	0215 NIC 0207 0040, 0060, 0063, 0072, 0115, 0116, 0124, 0130, 0150, 0175, 0184, 0187, 0205, 0207, 0213, 0215, 0217, 0220, 0221, 0232, 0233, 0252, 0253 NAVOX 0124 0200, 0205, 0213, 0217 0200, 0205, 0213, 0217 0200, 0205, 0213, 0217 0060 0012, 0013, 0060, 0061, 0098, 0109, 0117, 0128, 0181, 0182, 0194, 0195, 0211, 0213, 0216,	SACCS SAISHO SALORA SAMBERS SAMPO SAMSUNG	0216 0212 0204, 0206, 0207, 0208 0201, 0204, 0210, 0211, 0215 0204 0060, 0061, 0083, 0101 0029, 0030, 0031, 0032, 0044, 0045, 0046, 0047, 0060, 0061, 0065, 0068, 0069, 0071, 0079, 0087, 0127, 0128, 0130, 0144, 0160, 0161, 0170, 0176, 0183, 0185, 0200, 0201, 0206, 0207, 0208, 0213, 0217, 0239, 0241, 0242, 0243
KINGSLEY KLOSS NOVA KNEISSEL KOLSTER KONKA KORPEL KORTING KOYODA KTV KYOTO LENCO LENCO LENOIR LESA LEYCO LG	0200, 0207 BEAM 0062 0203 0213 0209, 0218 0213, 0217 0205 0208 0062, 0127, 0207 0200, 0212 0208 0207, 0208 0214 0206, 0213, 0217 0016, 0038, 0039, 0127, 0128, 0157, 0158, 0163, 0164, 0166, 0188, 0189, 0200, 0201, 0207, 0208, 0210, 0213, 0214, 0215, 0217	MONTGOMER MTC  MULTI SYSTE  MULTITECH  MURPHY NAD NAONIS NEC  NECKERMAN  NEI NESCO NET-TV NEW TECH	0203, 0204, 0207 RY WARD 0058 0060, 0061, 0128, 0200 EM 0217 0062, 0127, 0128, 0200, 0207, 0208, 0210, 0214, 0215, 0217 0200, 0207, 0208, 0206, 0061, 0096, 0127 IN 0205, 0207, 0210, 0213, 0217, 0255 0213, 0217 0214 0082, 0101 0208, 0213	PHILIPS MAG PHOENIX PHONOLA PILOT PIONEER	0215 NIC 0207 0040, 0060, 0063, 0072, 0115, 0116, 0124, 0130, 0150, 0175, 0184, 0187, 0205, 0207, 0213, 0215, 0217, 0220, 0233, 0252, 0253, 0252, 0253, 0217 0200, 0205, 0207, 0213, 0217 0200, 0205, 0213, 0217 0200, 0205, 0213, 0217 0200, 0205, 0213, 0217 0200, 0205, 0213, 0217 0060 0012, 0013, 0060, 0061, 0098, 0109, 0117, 0128, 0181, 0182, 0194, 0195, 0211, 0213, 0216, 0217, 0250	SACCS SAISHO SALORA SAMBERS SAMPO SAMSUNG	0216 0212 0204, 0206, 0207, 0208 0201, 0204, 0210, 0211, 0215 0204 0060, 0061, 0083, 0101 0029, 0030, 0031, 0032, 0044, 0045, 0046, 0047, 0060, 0061, 0065, 0068, 0069, 0071, 0079, 0087, 0127, 0128, 0130, 0144, 0160, 0161, 0170, 0176, 0183, 0185, 0200, 0201, 0206, 0207, 0208, 0213, 0217, 0239, 0241, 0242, 0243 0200, 0207
KINGSLEY KLOSS NOVA  KNEISSEL KOLSTER KONKA KORPEL KORTING KOYODA KTV KYOTO LENCO LENOIR LESA LEYCO LG	0200, 0207 BEAM 0062 0203 0213 0209, 0218 0213, 0217 0205 0208 0062, 0127, 0207 0200, 0212 0208 0207, 0208 0214 0206, 0213, 0217 0016, 0038, 0039, 0127, 0128, 0157, 0158, 0163, 0164, 0166, 0188, 0189, 0200, 0201, 0207, 0208, 0210, 0213, 0214, 0215, 0217 0206, 0208	MONTGOMEN MTC MULTI SYSTE MULTITECH  MURPHY NAD NAONIS NEC  NECKERMAN  NEI NESCO NET-TV NEW TECH NEW WORLD	0203, 0204, 0207 RY WARD 0058 0060, 0061, 0128, 0200 EM 0217 0062, 0127, 0128, 0200, 0207, 0208, 0217 0200, 0207, 0208, 0210, 0214, 0215, 0217 0200, 0207 0061 0210 0026, 0053, 0060, 0061, 0096, 0127 IN 0205, 0207, 0210, 0213, 0217, 0255 0213, 0217, 0255 0213, 0217 0214 0082, 0101 0208, 0213 0209, 0218	PHILIPS MAG PHOENIX PHONOLA PILOT PIONEER	0215 NIC 0207 0040, 0060, 0063, 0072, 0115, 0116, 0124, 0130, 0150, 0175, 0184, 0187, 0205, 0207, 0213, 0215, 0217, 0220, 0221, 0232, 0253, 0252, 0253 NAVOX 0124 0200, 0205, 0213, 0217 0200, 0205, 0213, 0217 0200, 0205, 0213, 0217 0200, 0205, 0213, 0217 0060 0012, 0013, 0060, 0061, 0098, 0109, 0117, 0128, 0181, 0182, 0194, 0195, 0211, 0213, 0216, 0217, 0250, 0206, 0213	SACCS SAISHO SALORA SAMBERS SAMPO SAMSUNG	0216 0212 0204, 0206, 0207, 0208 0201, 0204, 0210, 0211, 0215 0204 0060, 0061, 0083, 0101 0029, 0030, 0031, 0032, 0044, 0045, 0046, 0047, 0060, 0061, 0065, 0068, 0069, 0071, 0079, 0087, 0127, 0128, 0130, 0144, 0160, 0161, 0170, 0176, 0183, 0185, 0200, 0201, 0206, 0207, 0208, 0213, 0217, 0239, 0241, 0242, 0243 0200, 0207 0123, 0126, 0213
KINGSLEY KLOSS NOVA  KNEISSEL KOLSTER KONKA KORPEL KORTING KOYODA KTV KYOTO LENCO LENOIR LESA LEYCO LG	0200, 0207 BEAM 0062 0203 0213 0209, 0218 0213, 0217 0205 0208 0062, 0127, 0207 0200, 0212 0208 0207, 0208 0214 0206, 0213, 0217 0016, 0038, 0039, 0127, 0128, 0157, 0158, 0163, 0164, 0166, 0188, 0189, 0200, 0201, 0207, 0208, 0210, 0213, 0214, 0215, 0217 0217 0206, 0208 0206, 0208 0206, 0208 0206, 0208, 0218	MONTGOMEN MTC MULTI SYSTE MULTITECH  MURPHY NAD NAONIS NEC  NECKERMAN  NEI NESCO NET-TV NEW TECH NEW WORLD NICAMAGIC	0203, 0204, 0207 RY WARD 0058 0060, 0061, 0128, 0200 BM 0217 0062, 0127, 0128, 0200, 0207, 0208, 0217 0200, 0207, 0208, 0210, 0214, 0215, 0217 0200, 0207 0061 0210 0026, 0053, 0060, 0061, 0096, 0127 IN 0205, 0207, 0210, 0213, 0217, 0255 0213, 0217, 0255 0213, 0217 0214 0082, 0101 0208, 0213 0209, 0218 0200, 0207	PHILIPS MAG PHOENIX PHONOLA PILOT PIONEER  PLANTRON POLAROID	0215 NIC 0207 0040, 0060, 0063, 0072, 0115, 0116, 0124, 0130, 0150, 0175, 0184, 0187, 0205, 0207, 0213, 0215, 0217, 0220, 0221, 0232, 0233, 0252, 0253 NAVOX 0124 0200, 0205, 0213, 0217 0200, 0205, 0213, 0217 0200, 0205, 0213, 0217 0060 0012, 0013, 0060, 0061, 0098, 0109, 0117, 0128, 0181, 0182, 0194, 0195, 0211, 0213, 0216, 0217, 0250 0206, 0213, 0216, 0217, 0250 0206, 0213, 0075	SACCS SAISHO SALORA SAMBERS SAMPO SAMSUNG	0216 0212 0204, 0206, 0207, 0208 0201, 0204, 0210, 0211, 0215 0204 0060, 0061, 0083, 0101 0029, 0030, 0031, 0032, 0044, 0045, 0046, 0067, 0068, 0069, 0071, 0079, 0087, 0127, 0128, 0130, 0144, 0160, 0161, 0170, 0176, 0183, 0185, 0200, 0201, 0206, 0207, 0208, 0213, 0217, 0239, 0241, 0242, 0243 0200, 0207 0123, 0126, 0213 0020, 0021, 0022,
KINGSLEY KLOSS NOVA  KNEISSEL KOLSTER KONKA KORPEL KORTING KOYODA KTV KYOTO LENCO LENOIR LESA LEYCO LG	0200, 0207 BEAM 0062 0203 0213 0209, 0218 0213, 0217 0205 0208 0062, 0127, 0207 0200, 0212 0208 0207, 0208 0214 0206, 0213, 0217 0016, 0038, 0039, 0127, 0128, 0157, 0158, 0163, 0164, 0166, 0188, 0189, 0200, 0201, 0207, 0208, 0210, 0213, 0214, 0215, 0217 0206, 0208	MONTGOMEN MTC MULTI SYSTE MULTITECH  MURPHY NAD NAONIS NEC  NECKERMAN  NEI NESCO NET-TV NEW TECH NEW WORLD	0203, 0204, 0207 RY WARD 0058 0060, 0061, 0128, 0200 EM 0217 0062, 0127, 0128, 0200, 0207, 0208, 0217 0200, 0207, 0208, 0210, 0214, 0215, 0217 0200, 0207 0061 0210 0026, 0053, 0060, 0061, 0096, 0127 IN 0205, 0207, 0210, 0213, 0217, 0255 0213, 0217, 0255 0213, 0217 0214 0082, 0101 0208, 0213 0209, 0218	PHILIPS MAG PHOENIX PHONOLA PILOT PIONEER	0215 NIC 0207 0040, 0060, 0063, 0072, 0115, 0116, 0124, 0130, 0150, 0175, 0184, 0187, 0205, 0207, 0213, 0215, 0217, 0220, 0221, 0232, 0253, 0252, 0253 NAVOX 0124 0200, 0205, 0213, 0217 0200, 0205, 0213, 0217 0200, 0205, 0213, 0217 0200, 0205, 0213, 0217 0060 0012, 0013, 0060, 0061, 0098, 0109, 0117, 0128, 0181, 0182, 0194, 0195, 0211, 0213, 0216, 0217, 0250, 0206, 0213	SACCS SAISHO SALORA SAMBERS SAMPO SAMSUNG	0216 0212 0204, 0206, 0207, 0208 0201, 0204, 0210, 0211, 0215 0204 0060, 0061, 0083, 0101 0029, 0030, 0031, 0032, 0044, 0045, 0046, 0047, 0060, 0061, 0065, 0068, 0069, 0071, 0079, 0087, 0127, 0128, 0130, 0144, 0160, 0161, 0170, 0176, 0183, 0185, 0200, 0201, 0206, 0207, 0208, 0213, 0217, 0239, 0241, 0242, 0243 0200, 0207 0123, 0126, 0213
KINGSLEY KLOSS NOVA  KNEISSEL KOLSTER KONKA KORPEL KORTING KOYODA KTV KYOTO LENCO LENOIR LESA LEYCO LG  LIESENK LIFE LIFETEC LOEWE	0200, 0207 BEAM 0062 0203 0213 0209, 0218 0213, 0217 0205 0208 0062, 0127, 0207 0200, 0212 0208 0207, 0208 02014 0206, 0213, 0217 0016, 0038, 0039, 0127, 0128, 0157, 0158, 0163, 0164, 0166, 0188, 0189, 0200, 0201, 0207, 0208, 0211, 0214, 0215, 0217 0217 0206, 0208, 0218 0206, 0208, 0218 0063, 0128, 0203, 0204, 0223, 0224	MONTGOMEN MTC MULTI SYSTE MULTITECH  MURPHY NAD NAONIS NEC  NECKERMAN  NEI NESCO NET-TV NEW TECH NEW WORLD NICAMAGIC	0203, 0204, 0207 RY WARD 0058 0060, 0061, 0128, 0200 BM 0217 0062, 0127, 0128, 0200, 0207, 0208, 0217 0200, 0207, 0208, 0210, 0214, 0215, 0217 0200, 0207 0061 0210 0026, 0053, 0060, 0061, 0096, 0127 IN 0205, 0207, 0210, 0213, 0217, 0255 0213, 0217, 0255 0213, 0217 0214 0082, 0101 0208, 0213 0209, 0218 0200, 0207	PHILIPS MAG PHOENIX PHONOLA PILOT PIONEER  PLANTRON POLAROID	0215 NIC 0207 0040, 0060, 0063, 0072, 0115, 0116, 0124, 0130, 0150, 0175, 0184, 0187, 0205, 0207, 0213, 0215, 0217, 0220, 0221, 0232, 0233, 0252, 0253 NAVOX 0124 0200, 0205, 0213, 0217 0200, 0205, 0213, 0217 0200, 0205, 0213, 0217 0060 0012, 0013, 0060, 0061, 0098, 0109, 0117, 0128, 0181, 0182, 0194, 0195, 0211, 0213, 0216, 0217, 0250 0206, 0213, 0216, 0217, 0250 0206, 0213, 0075	SACCS SAISHO SALORA SAMBERS SAMPO SAMSUNG	0216 0212 0204, 0206, 0207, 0208 0201, 0204, 0210, 0211, 0215 0204 0060, 0061, 0083, 0101 0029, 0030, 0031, 0032, 0044, 0045, 0046, 0067, 0068, 0069, 0071, 0079, 0087, 0127, 0128, 0130, 0144, 0160, 0161, 0170, 0176, 0183, 0185, 0200, 0201, 0206, 0207, 0208, 0213, 0217, 0239, 0241, 0242, 0243 0200, 0207 0123, 0126, 0213 0020, 0021, 0022,
KINGSLEY KLOSS NOVA  KNEISSEL KOLSTER KONKA KORPEL KORTING KOYODA KTV KYOTO LENCO LENOIR LESA LEYCO LG  LIESENK LIFE LIFETEC LOEWE	0200, 0207 BEAM 0062 0203 0213 0209, 0218 0213, 0217 0205 0208 0062, 0127, 0207 0200, 0212 0208 0207, 0208 0214 0206, 0213, 0217 0016, 0038, 0039, 0127, 0128, 0157, 0158, 0163, 0164, 0166, 0188, 0189, 0200, 0201, 0207, 0208, 0210, 0213, 0214, 0215, 0217 0217 0216, 0208 0206, 0208 0206, 0208 0206, 0208 0206, 0208, 0218 0063, 0128, 0203,	MONTGOMEN MTC MULTI SYSTE MULTITECH  MURPHY NAD NAONIS NEC  NECKERMAN  NEI NESCO NET-TV NEW TECH NEW WORLD NICAMAGIC	0203, 0204, 0207 RY WARD 0058 0060, 0061, 0128, 0200 EM 0217 0062, 0127, 0128, 0200, 0207, 0208, 0217 0200, 0207 0061 0210 0026, 0053, 0060, 0061, 0096, 0127 IN 0205, 0207, 0210, 0213, 0217, 0255 0213, 0217 0214 0082, 0101 0208, 0213 0209, 0218 0200, 0207 0200, 0206, 0207, 0200, 0207	PHILIPS MAG PHOENIX PHONOLA PILOT PIONEER  PLANTRON POLAROID POPPY	0215 NIC 0207 0040, 0060, 0063, 0072, 0115, 0116, 0124, 0130, 0150, 0175, 0184, 0187, 0205, 0207, 0213, 0215, 0217, 0220, 0221, 0232, 0233, 0252, 0253 NAVOX 0124 0200, 0205, 0213, 0217 0200, 0205, 0213, 0217 0200, 0205, 0213, 0217 0060 0012, 0013, 0060, 0061, 0098, 0109, 0117, 0128, 0181, 0182, 0194, 0195, 0211, 0213, 0216, 0217, 0250 0206, 0213 0075 0208 0060, 0061	SACCS SAISHO SALORA SAMBERS SAMPO SAMSUNG	0216 0212 0204, 0206, 0207, 0208 0201, 0204, 0210, 0211, 0215 0204 0060, 0061, 0083, 0101 0029, 0030, 0031, 0032, 0044, 0045, 0046, 0067, 0060, 0061, 0065, 0068, 0069, 0071, 0079, 0087, 0127, 0128, 0130, 0144, 0160, 0161, 0170, 0176, 0183, 0185, 0200, 0201, 0206, 0207, 0208, 0213, 0217, 0239, 0241, 0242, 0243 0200, 0207 0123, 0126, 0213 0020, 0021, 0022, 0049, 0060, 0064,
KINGSLEY KLOSS NOVA  KNEISSEL KOLSTER KONKA KORPEL KORTING KOYODA KTV KYOTO LENCO LENOIR LESA LEYCO LG  LIESENK LIFE LIFETEC LOEWE	0200, 0207 BEAM 0062 0203 0213 0209, 0218 0213, 0217 0205 0208 0062, 0127, 0207 0200, 0212 0208 0207, 0208 02014 0206, 0213, 0217 0016, 0038, 0039, 0127, 0128, 0157, 0158, 0163, 0164, 0166, 0188, 0189, 0200, 0201, 0207, 0208, 0211, 0214, 0215, 0217 0217 0206, 0208, 0218 0206, 0208, 0218 0063, 0128, 0203, 0204, 0223, 0224	MONTGOMEN MTC MULTI SYSTE MULTITECH  MURPHY NAD NAONIS NEC  NECKERMAN  NEI NESCO NET-TV NEW TECH NEW WORLD NICAMAGIC	0203, 0204, 0207 RY WARD 0058 0060, 0061, 0128, 0200 EM 0217 0062, 0127, 0128, 0200, 0207, 0208, 0217 0200, 0207 0061 0210 0026, 0053, 0060, 0061, 0096, 0127 IN 0205, 0207, 0210, 0213, 0217, 0255 0213, 0217 0214 0082, 0101 0208, 0213 0209, 0218 0200, 0207 0200, 0206, 0207, 0209, 0213, 0217, 0209, 0218, 02	PHILIPS MAG PHOENIX PHONOLA PILOT PIONEER  PLANTRON POLAROID POPPY PORTLAND	0215 NIC 0207 0040, 0060, 0063, 0072, 0115, 0116, 0124, 0130, 0150, 0175, 0184, 0187, 0205, 0207, 0213, 0215, 0217, 0220, 0221, 0232, 0233, 0252, 0253 NAVOX 0124 0200, 0205, 0213, 0217 0200, 0205, 0213, 0217 0200, 0205, 0213, 0217 0060 0012, 0013, 0060, 0061, 0098, 0109, 0117, 0128, 0181, 0182, 0194, 0195, 0211, 0213, 0216, 0217, 0250 0206, 0213 0075 0208 0060, 0061	SACCS SAISHO SALORA SAMBERS SAMPO SAMSUNG	0216 0212 0204, 0206, 0207, 0208 0201, 0204, 0210, 0211, 0215 0204 0060, 0061, 0083, 0101 0029, 0030, 0031, 0032, 0044, 0045, 0061, 0065, 0068, 0069, 0071, 0079, 0087, 0127, 0128, 0130, 0144, 0160, 0161, 0170, 0176, 0183, 0185, 0200, 0201, 0206, 0207, 0208, 0213, 0217, 0239, 0241, 0242, 0243 0200, 0207 0123, 0126, 0213 0020, 0021, 0022, 0049, 0060, 0064, 0127, 0128, 0200,
KINGSLEY KLOSS NOVA  KNEISSEL KOLSTER KONKA KORPEL KORTING KOYODA KTV KYOTO LENCO LENCO LENOIR LESA LEYCO LG  LIESENK LIFE LIFETEC LOEWE LOEWE OPTA LOGIK	0200, 0207 BEAM 0062 0203 0213 0209, 0218 0213, 0217 0205 0208 0062, 0127, 0207 0200, 0212 0208 0207, 0208 0214 0206, 0213, 0217 0016, 0038, 0039, 0127, 0128, 0157, 0158, 0163, 0164, 0166, 0188, 0189, 0200, 0201, 0207, 0208, 0210, 0213, 0214, 0215, 0217 0217 0206, 0208 0200, 0201, 0213, 0217 0217 0206, 0208 0206, 0208, 0218 0063, 0128, 0203, 0204, 0223, 0227 0205, 0213, 0217 0058	MONTGOMEN MTC  MULTI SYSTE  MULTITECH  MURPHY NAD NAONIS NEC  NECKERMAN  NEI NESCO NET-TV NEW TECH NEW WORLD NICAMAGIC NIKKAI	0203, 0204, 0207 RY WARD 0058 0060, 0061, 0128, 0200 EM 0217 0062, 0127, 0128, 0200, 0207, 0208, 0213, 0217 0061 0218 0219 0200, 0207, 0208, 0207, 0208, 0210, 0214, 0215, 0217 0200, 0207 0061 0210 0206, 0053, 0060, 0061, 0096, 0127 IN 0205, 0207, 0210, 0213, 0217, 0255 0213, 0217 0214 0082, 0101 0208, 0213 0209, 0218 0200, 0207 0200, 0206, 0207, 0209, 0213, 0217, 0218 0061	PHILIPS  PHILIPS MAG  PHOENIX  PHONOLA  PILOT  PIONEER  PLANTRON  POLAROID  POPPY  PORTLAND  PRANDONI-P	0215 NIC 0207 0040, 0060, 0063, 0072, 0115, 0116, 0124, 0130, 0150, 0175, 0184, 0187, 0205, 0207, 0213, 0215, 0217, 0220, 0233, 0252, 0253 NAVOX 0124 0200, 0205, 0213, 0217 0200, 0205, 0213, 0217 0200, 0205, 0213, 0217 0060 0012, 0013, 0060, 0061, 0098, 0109, 0117, 0128, 0181, 0182, 0194, 0195, 0211, 0213, 0217 0200, 0205, 0213, 0217 0200, 0205, 0213, 0217 0200, 0205, 0213, 0217 0200, 0205, 0213, 0217 0200, 0205, 0213, 0217 0200, 0205, 0213, 0217 0200, 0205, 0213, 0217 0200, 0205, 0213, 0217 0208 0206, 0213 0075 0208 0060, 0061 RINCE	SACCS SAISHO SALORA SAMBERS SAMPO SAMSUNG SANDRA SANSUI SANYO	0216 0212 0204, 0206, 0207, 0208 0201, 0204, 0210, 0211, 0215 0204 0060, 0061, 0083, 0101 0029, 0030, 0031, 0032, 0044, 0045, 0046, 0047, 0060, 0061, 0065, 0068, 0069, 0071, 0079, 0087, 0127, 0128, 0130, 0144, 0160, 0161, 0170, 0176, 0183, 0185, 0200, 0201, 0206, 0207, 0208, 0213, 0217, 0239, 0241, 0242, 0243 0200, 0207 0123, 0126, 0213 0020, 0021, 0022, 0049, 0060, 0064, 0127, 0128, 0200, 0203, 0207, 0215
KINGSLEY KLOSS NOVA  KNEISSEL KOLSTER KONKA KORPEL KORTING KOYODA KTV KYOTO LENCO LENOIR LESA LEYCO LG  LIESENK LIFE LIFETEC LOEWE  LOEWE OPTA LOGIK LUMA	0200, 0207 BEAM 0062 0203 0213 0209, 0218 0213, 0217 0205 0208 0062, 0127, 0207 0200, 0212 0208 0207, 0208 0214 0206, 0213, 0217 0016, 0038, 0039, 0127, 0128, 0157, 0158, 0163, 0164, 0166, 0188, 0189, 0200, 0201, 0207, 0208, 0210, 0213, 0214, 0215, 0217 0217 0206, 0208 0206, 0208, 0218 0206, 0208, 0218 0206, 0208, 0218 0206, 0208, 0218 0206, 0208, 0218 0206, 0208, 0218 0206, 0208, 0218 0206, 0208, 0218 0206, 0208, 0218 0206, 0208, 0218 0206, 0208, 0218 0206, 0208, 0218 0205, 0213, 0217 0058 0210, 0217	MONTGOMEN MTC  MULTI SYSTE  MULTITECH  MURPHY NAD NAONIS NEC  NECKERMAN  NEI NESCO NET-TV NEW TECH NEW WORLD NICAMAGIC NIKKAI  NIKKO NOBLIKO	0203, 0204, 0207 RY WARD 0058 0060, 0061, 0128, 0200 BM 0217 0062, 0127, 0128, 0200, 0207, 0208, 0213, 0217 0061, 0096, 0127 IN 0205, 0207, 0210, 0213, 0217, 0255 0213, 0217 0214 0082, 0101 0208, 0213 0209, 0218 0200, 0207 0200, 0207 0200, 0207 0200, 0207 0200, 0218 0200, 0207 0201, 0218 0200, 0207 0200, 0207 0201, 0218 0200, 0207	PHILIPS  PHILIPS MAG  PHOENIX  PHONOLA  PILOT  PIONEER  PLANTRON  POLAROID  POPPY  PORTLAND  PRANDONI-P  PRECISION	0215 NIC 0207 0040, 0060, 0063, 0072, 0115, 0116, 0124, 0130, 0150, 0175, 0184, 0187, 0205, 0207, 0213, 0215, 0217, 0220, 0221, 0232, 0253, 0252, 0253 NAVOX 0124 0200, 0205, 0213, 0217 0200, 0205, 0213, 0217 0200, 0205, 0213, 0217 0200, 0205, 0213, 0217 0200, 0205, 0213, 0217 0200, 0205, 0213, 0217 0200, 0205, 0213, 0217 0200, 0205, 0213, 0217 0200, 0205, 0213, 0217 0200, 0205, 0213, 0217 0200, 0201, 0213, 0216, 0217, 0250 0206, 0213 0075 0208 0060, 0061 RINCE 0204, 0210 0207	SACCS SAISHO SALORA SAMBERS SAMPO SAMSUNG SANDRA SANSUI SANYO	0216 0212 0204, 0206, 0207, 0208 0201, 0204, 0210, 0211, 0215 0204 0060, 0061, 0083, 0101 0029, 0030, 0031, 0032, 0044, 0045, 0046, 0047, 0060, 0061, 0065, 0068, 0069, 0071, 0079, 0087, 0127, 0128, 0130, 0144, 0160, 0161, 0170, 0176, 0183, 0185, 0200, 0201, 0206, 0207, 0208, 0213, 0217, 0239, 0241, 0242, 0243 0200, 0207 0123, 0126, 0213 0020, 0021, 0022, 0049, 0060, 0064, 0127, 0128, 0200, 02017 ENTZ
KINGSLEY KLOSS NOVA  KNEISSEL KOLSTER KONKA KORPEL KORTING KOYODA KTV KYOTO LENCO LENOIR LESA LEYCO LG  LIESENK LIFE LIFETEC LOEWE  LOEWE OPTA LUMA LUMATRON	0200, 0207 BEAM 0062 0203 0213 0209, 0218 0213, 0217 0205 0208 0062, 0127, 0207 0200, 0212 0208 0207, 0208 0214 0206, 0213, 0217 0016, 0038, 0039, 0127, 0128, 0157, 0158, 0163, 0164, 0166, 0188, 0189, 0200, 0201, 0207, 0208, 0210, 0213, 0214, 0215, 0217 0217 0206, 0208 0206, 0208, 0218, 0203, 0204, 0223, 0227 0205, 0213, 0217 0058 0210, 0217 0210, 0213, 0217	MONTGOMEN MTC  MULTI SYSTE  MULTITECH  MURPHY NAD NAONIS NEC  NECKERMAN  NEI NESCO NET-TV NEW TECH NEW WORLD NICAMAGIC NIKKAI  NIKKO NOBLIKO NOGAMATIC	0203, 0204, 0207 RY WARD 0058 0060, 0061, 0128, 0200 EM 0217 0062, 0127, 0128, 0200, 0207, 0208, 0217 0200, 0207 0061 0210 0026, 0053, 0060, 0061, 0096, 0127 IN 0205, 0207, 0210, 0213, 0217, 0255 0213, 0217 0214 0082, 0101 0208, 0213 0209, 0218 0200, 0207 0200, 0206, 0207, 0209, 0218 0200, 0207 0200, 0206, 0207, 0218 0061 0061 0020, 0207 0218 0061 0020, 0207 0216	PHILIPS  PHILIPS MAG  PHOENIX  PHONOLA  PILOT PIONEER  PLANTRON POLAROID POPPY PORTLAND PRANDONI-P  PRECISION PRIMA	0215 NIC 0207 0040, 0060, 0063, 0072, 0115, 0116, 0124, 0130, 0150, 0175, 0184, 0187, 0205, 0207, 0213, 0215, 0217, 0220, 0221, 0232, 0252, 0253 NAVOX 0124 0200, 0205, 0213, 0217 0200, 0205, 0213, 0217 0200, 0205, 0213, 0217 0200, 0205, 0213, 0217 0060 0012, 0013, 0060, 0061, 0098, 0109, 0117, 0128, 0181, 0182, 0194, 0195, 0211, 0213, 0216, 0217, 0250 0206, 0213, 0075 0208 0060, 0061 RINCE 0204, 0210 0207 0208, 0211	SACCS SAISHO SALORA SAMBERS SAMPO SAMSUNG SANSUNG SANDRA SANSUI SANYO	0216 0212 0204, 0206, 0207, 0208 0201, 0204, 0210, 0211, 0215 0204 0060, 0061, 0083, 0101 0029, 0030, 0031, 0032, 0044, 0045, 0061, 0065, 0068, 0069, 0071, 0079, 0087, 0127, 0128, 0130, 0144, 0160, 0161, 0170, 0176, 0183, 0185, 0200, 0201, 0206, 0207, 0208, 0213, 0217, 0239, 0241, 0242, 0243 0200, 0207 0123, 0126, 0213 0020, 0021, 0022, 0049, 0060, 0064, 0127, 0128, 0200, 0203, 0207, 0215 0217 ENTZ
KINGSLEY KLOSS NOVA  KNEISSEL KOLSTER KONKA KORPEL KORTING KOYODA KTV KYOTO LENCO LENCO LENOIR LESA LEYCO LG  LIESENK LIFE LIFETEC LOEWE  LOEWE OPTA LOGIK LUMA LUMATRON LUX MAY	0200, 0207 BEAM 0062 0203 0213 0209, 0218 0213, 0217 0205 0208 0062, 0127, 0207 0200, 0212 0208 0207, 0208 0214 0206, 0213, 0217 0016, 0038, 0039, 0127, 0128, 0157, 0158, 0163, 0164, 0166, 0188, 0189, 0200, 0201, 0207, 0208, 0210, 0213, 0214, 0215, 0217 0217 0206, 0208 0206, 0208, 0218 0063, 0128, 0203, 0204, 0223, 0227 0205, 0213, 0217 0058 0210, 0217 0217 0210, 0217 0211 0210, 0213, 0217	MONTGOMEN MTC  MULTI SYSTE  MULTITECH  MURPHY NAD NAONIS NEC  NECKERMAN  NEI NESCO NET-TV NEW TECH NEW WORLD NICAMAGIC NIKKAI  NIKKO NOBLIKO NOGAMATIC NOKIA	0203, 0204, 0207 RY WARD 0058 0060, 0061, 0128, 0200 EM 0217 0062, 0127, 0128, 0200, 0207, 0208, 0217 0200, 0207 0061 0210 0026, 0053, 0060, 0061, 0096, 0127 IN 0205, 0207, 0210, 0213, 0217, 0255 0213, 0217 0214 0082, 0101 0208, 0213 0209, 0218 0200, 0207 0200, 0206, 0207, 0209, 0218 0200, 0207 0200, 0206, 0207, 0218 0061 0200, 0207 0200, 0206, 0207, 0218 0061 0200, 0207 0216 0129, 0211	PHILIPS  PHILIPS MAG  PHOENIX  PHONOLA  PILOT PIONEER  PLANTRON POLAROID POPPY PORTLAND PRANDONI-P  PRECISION PRIMA PROFEX	0215 NIC 0207 0040, 0060, 0063, 0072, 0115, 0116, 0124, 0130, 0150, 0175, 0184, 0187, 0205, 0207, 0213, 0215, 0217, 0220, 0221, 0232, 0233, 0252, 0253 NAVOX 0124 0200, 0205, 0213, 0217 0200, 0205, 0213, 0217 0200, 0205, 0213, 0217 0060 0012, 0013, 0060, 0061, 0098, 0109, 0117, 0128, 0181, 0182, 0194, 0195, 0211, 0213, 0216, 0217, 0250 0206, 0213 0075 0208 0060, 0061 RINCE 0204, 0210 0208 0208, 0211 0208	SACCS SAISHO SALORA SAMBERS SAMPO SAMSUNG SANDRA SANSUI SANYO	0216 0212 0204, 0206, 0207, 0208 0201, 0204, 0210, 0211, 0215 0204 0060, 0061, 0083, 0101 0029, 0030, 0031, 0032, 0044, 0045, 0046, 0067, 0068, 0069, 0071, 0079, 0087, 0127, 0128, 0130, 0144, 0160, 0161, 0170, 0176, 0183, 0185, 0200, 0201, 0206, 0207, 0208, 0213, 0217, 0239, 0241, 0242, 0243 0200, 0207 01123, 0126, 0213 0020, 0021, 0022, 0049, 0060, 0064, 0127, 0128, 0200, 0207, 0208, 0213, 0217, 0239, 0241, 0242, 0243 0200, 0207 0123, 0126, 0213 0020, 0021, 0022, 0049, 0060, 0064, 0127, 0128, 0200, 0207, 0215 0217 ENTIZ 0211 0207, 0209, 0213,
KINGSLEY KLOSS NOVA  KNEISSEL KOLSTER KONKA KORPEL KORTING KOYODA KTV KYOTO LENCO LENCO LENOIR LESA LEYCO LG  LIESENK LIFE LIFETEC LOEWE LOEWE OPTA LOGIK LUMA LUMATRON LUX MAY LUXMAN	0200, 0207 BEAM 0062 0203 0213 0209, 0218 0213, 0217 0205 0208 0062, 0127, 0207 0200, 0212 0208 0207, 0208 02014 0206, 0213, 0217 0016, 0038, 0039, 0127, 0128, 0157, 0158, 0163, 0164, 0166, 0188, 0189, 0200, 0201, 0207, 0208, 0211, 0217 0206, 0208 0206, 0208, 0218 0206, 0208, 0218 0206, 0208, 0218 0063, 0128, 0203, 0204, 0223, 0227 0205, 0213, 0217 0058 0210, 0217 0217 0210, 0213, 0217 0058 0210, 0217 0213 0060, 0201	MONTGOMEN MTC  MULTI SYSTE  MULTITECH  MURPHY NAD NAONIS NEC  NECKERMAN  NEI NESCO NET-TV NEW TECH NEW WORLD NICAMAGIC NIKKAI  NIKKO NOBLIKO NOGAMATIC	0203, 0204, 0207 RY WARD 0058 0060, 0061, 0128, 0200 EM 0217 0062, 0127, 0128, 0200, 0207, 0208, 0210, 0214, 0215, 0217 0200, 0207, 0208, 0210, 026, 0053, 0060, 0061, 0096, 0127 IN 0205, 0207, 0210, 0213, 0217, 0213, 0217, 0255 0213, 0217 0214 0082, 0101 0208, 0213 0209, 0218 0200, 0207 0200, 0206, 0207, 0209, 0213, 0217, 0218 0061 0200, 0207 0201, 0206, 0207, 0218 0200, 0207 0200, 0206, 0207, 0209, 0213, 0217, 0218 0061 0200, 0207 0216 0129, 0211	PHILIPS  PHILIPS MAG  PHOENIX  PHONOLA  PILOT PIONEER  PLANTRON POLAROID POPPY PORTLAND PRANDONI-P PRECISION PRIMA	0215 NIC 0207 0040, 0060, 0063, 0072, 0115, 0116, 0124, 0130, 0150, 0175, 0184, 0187, 0205, 0207, 0213, 0215, 0217, 0220, 0221, 0232, 0233, 0252, 0253 NAVOX 0124 0200, 0205, 0213, 0217 0200, 0205, 0213, 0217 0200, 0205, 0213, 0217 0060 0012, 0013, 0060, 0061, 0098, 0109, 0117, 0128, 0181, 0182, 0194, 0195, 0211, 0213, 0217 0200, 0205, 0213, 0217 0206, 0213, 0217 0208 0206, 0213 0075 0208 0206, 0213 0075 0208 0060, 0061 RINCE 0204, 0210 0207 0208, 0211 0208 C	SACCS SAISHO SALORA SAMBERS SAMPO SAMSUNG SANSUNG SANDRA SANSUI SANYO	0216 0212 0204, 0206, 0207, 0208 0201, 0204, 0210, 0211, 0215 0204 0060, 0061, 0083, 0101 0029, 0030, 0031, 0032, 0044, 0045, 0046, 0067, 0068, 0069, 0071, 0079, 0087, 0127, 0128, 0130, 0144, 0160, 0161, 0170, 0176, 0183, 0185, 0200, 0201, 0206, 0207, 0208, 0213, 0217, 0239, 0241, 0242, 0243 0200, 0207 0123, 0126, 0213 0020, 0021, 0022, 0049, 0060, 0064, 0127, 0128, 0200, 0203, 0207, 0215 0217 ENTZ 0211 0207, 0209, 0213, 0215, 0216, 0217,
KINGSLEY KLOSS NOVA  KNEISSEL KOLSTER KONKA KORPEL KORTING KOYODA KTV KYOTO LENCO LENCO LENOIR LESA LEYCO LG  LIESENK LIFE LIFETEC LOEWE LOEWE OPTA LOGIK LUMA LUMATRON LUX MAY LUXMAN LUXOR	0200, 0207 BEAM 0062 0203 0213 0209, 0218 0213, 0217 0205 0208 0062, 0127, 0207 0200, 0212 0208 0207, 0208 0207, 0208 0214 0206, 0213, 0217 0016, 0038, 0039, 0127, 0128, 0157, 0158, 0163, 0164, 0166, 0188, 0189, 0200, 0201, 0207, 0208, 0210, 0213, 0214, 0215, 0217 0217 0206, 0208 0206, 0208, 0218 0063, 0128, 0203, 0204, 0223, 0227 0205, 0213, 0217 0217 0205, 0213, 0217 0210, 0217 0210, 0217 0211 0210, 0217 0213 0060, 0061 0201, 0207, 0210	MONTGOMEN MTC  MULTI SYSTE  MULTITECH  MURPHY NAD NAONIS NEC  NECKERMAN  NEI NESCO NET-TV NEW TECH NEW WORLD NICAMAGIC NIKKAI  NIKKO NOBLIKO NOGAMATIC NOKIA	0203, 0204, 0207 RY WARD 0058 0060, 0061, 0128, 0200 EM 0217 0062, 0127, 0128, 0200, 0207, 0208, 0210, 0214, 0215, 0217 0200, 0207, 0208, 0210, 0214, 0215, 0217 0200, 0207, 0208, 0061, 0096, 0127 IN 0205, 0207, 0210, 0213, 0217, 0255 0213, 0217 0214 0082, 0101 0208, 0213 0209, 0218 0200, 0207 0200, 0206, 0207, 0209, 0213, 0217, 0218 0061 0200, 0207 0216 0129, 0211 E 0205, 0211, 0213,	PHILIPS  PHILIPS MAG PHOENIX  PHONOLA  PILOT PIONEER  PLANTRON POLAROID POPPY PORTLAND PRANDONI-P PRECISION PRIMA PROFEX PROFI-TRONI	0215 NIC 0207 0040, 0060, 0063, 0072, 0115, 0116, 0124, 0130, 0150, 0175, 0184, 0187, 0205, 0207, 0213, 0215, 0217, 0220, 0221, 0232, 0233, 0252, 0253 NAVOX 0124 0200, 0205, 0213, 0217 0200, 0205, 0213, 0217 0200, 0205, 0213, 0217 0060 0012, 0013, 0060, 0061, 0098, 0109, 0117, 0128, 0181, 0182, 0194, 0195, 0211, 0213, 0217 0200, 0205, 0213, 0217 0206, 0213 0075 0208 0060, 0061 RINCE 0204, 0210 0207 0208, 0211 0208 C 0213	SACCS SAISHO SALORA SAMBERS SAMPO SAMSUNG SANDRA SANSUI SANYO SBR SCHAUB LOR SCHNEIDER	0216 0212 0204, 0206, 0207, 0208 0201, 0204, 0210, 0211, 0215 0204 0060, 0061, 0083, 0101 0029, 0030, 0031, 0032, 0044, 0045, 0046, 0065, 0068, 0069, 0071, 0079, 0087, 0127, 0128, 0130, 0144, 0160, 0161, 0170, 0176, 0183, 0185, 0200, 0201, 0206, 0207, 0208, 0213, 0217, 0239, 0241, 0242, 0243 0200, 0207 0123, 0126, 0213 0020, 0021, 0022, 0049, 0060, 0064, 0127, 0128, 0200, 0203, 0207, 0215 0217 ENTZ 0211 0207, 0209, 0213, 0215, 0216, 0217, 0218
KINGSLEY KLOSS NOVA  KNEISSEL KOLSTER KONKA KORPEL KORTING KOYODA KTV KYOTO LENCO LENCO LENOIR LESA LEYCO LG  LIESENK LIFE LIFETEC LOEWE LOEWE OPTA LOGIK LUMA LUMATRON LUX MAY LUXMAN	0200, 0207 BEAM 0062 0203 0213 0209, 0218 0213, 0217 0205 0208 0062, 0127, 0207 0200, 0212 0208 0207, 0208 0214 0206, 0213, 0217 0016, 0038, 0039, 0127, 0128, 0157, 0158, 0163, 0164, 0166, 0188, 0189, 0200, 0201, 0207, 0208, 0210, 0213, 0214, 0215, 0217 0217 0206, 0208 0206, 0208, 0218 0063, 0128, 0203, 0204, 0223, 0227, 0205, 0213, 0217 0058 0210, 0217 0213 0058 0210, 0217 0213 0050, 0061 0201, 0207, 0210 0057, 0061, 0063,	MONTGOMEN MTC  MULTI SYSTE  MULTITECH  MURPHY NAD NAONIS NEC  NECKERMAN  NEI NESCO NET-TV NEW TECH NEW WORLD NICAMAGIC NIKKAI  NIKKO NOBLIKO NOGAMATIC NOKIA NORDMENDE	0203, 0204, 0207 RY WARD 0058 0060, 0061, 0128, 0200 EM 0217 0062, 0127, 0128, 0200, 0207, 0208, 0213, 0217 0061 0210 0026, 0053, 0060, 0061, 0096, 0127 EN 0205, 0207, 0210, 0213, 0217, 0255 0213, 0217 0214 0082, 0101 0028, 0213 0209, 0218 0200, 0207 0200, 0206, 0207, 0209, 0213, 0217, 0218 0061 0200, 0207 0200, 0206, 0207, 0209, 0213, 0217, 0218 0061 0200, 0207 0216 0129, 0211 E 0205, 0211, 0213, 0216	PHILIPS  PHILIPS MAG  PHOENIX  PHONOLA  PILOT  PIONEER  PLANTRON  POLAROID  POPPY  PORTLAND  PRANDONI-P  PRECISION  PRIMA  PROFEX  PROFI-TRONI  PROLINE	0215 NIC 0207 0040, 0060, 0063, 0072, 0115, 0116, 0124, 0130, 0150, 0175, 0184, 0187, 0205, 0207, 0213, 0215, 0221, 0232, 0233, 0252, 0253 NAVOX 0124 0200, 0205, 0213, 0217 0200, 0205, 0213, 0217 0200, 0205, 0213, 0217 0200, 0205, 0213, 0217 0200, 0205, 0213, 0217 0200, 0205, 0213, 0217 0200, 0205, 0213, 0217 0200, 0205, 0213, 0217 0200, 0205, 0213, 0217 0200, 0205, 0213, 0217 0201, 0213, 0216, 0217, 0250 0206, 0213, 0216, 0217, 0250 0206, 0213 0075 0208 0060, 0061 RINCE 0204, 0210 0207 0208, 0211 0208 C 0213 0213	SACCS SAISHO SALORA SAMBERS SAMPO SAMSUNG SANDRA SANSUI SANYO SBR SCHAUB LOR SCHNEIDER	0216 0212 0204, 0206, 0207, 0208 0201, 0204, 0210, 0211, 0215 0204 0060, 0061, 0083, 0101 0029, 0030, 0031, 0032, 0044, 0045, 0046, 0065, 0068, 0069, 0071, 0079, 0087, 0127, 0128, 0130, 0144, 0160, 0161, 0170, 0176, 0183, 0184, 0164, 0161, 0170, 0176, 0208, 0213, 0217, 0239, 0241, 0242, 0243 0200, 0207 0123, 0126, 0213, 0200, 0207, 0128, 0121, 0200, 0207, 0128, 0121, 0200, 0207, 0128, 0121, 0200, 0207, 0128, 0121, 0200, 0207, 0128, 0121, 0217 ENTZ 0211 0207, 0209, 0213, 0215, 0216, 0217, 0218 0061
KINGSLEY KLOSS NOVA  KNEISSEL KOLSTER KONKA KORPEL KORTING KOYODA KTV KYOTO LENCO LENOIR LESA LEYCO LG  LIESENK LIFE LIFETEC LOEWE  LOEWE OPTA LOGIK LUMA LUMATRON LUX MAY LUXMAN LUXOR LXI	0200, 0207 BEAM 0062 0203 0213 0209, 0218 0213, 0217 0205 0208 0062, 0127, 0207 0200, 0212 0208 0207, 0208 0214 0206, 0213, 0217 0016, 0038, 0039, 0127, 0128, 0157, 0158, 0163, 0164, 0166, 0188, 0189, 0200, 0201, 0207, 0208, 0210, 0213, 0214, 0215, 0217 0217 0206, 0208 0206, 0208, 0218, 026, 0208, 0218, 026, 0208, 0210, 0217 0217 0206, 0208 0206, 0208, 0218, 0203, 0204, 0223, 0227, 0205, 0213, 0217 0058 0210, 0217 0213 0060, 0061 0201, 0207, 0210 0057, 0061, 0063, 0064	MONTGOMEN MTC  MULTI SYSTE  MULTITECH  MURPHY NAD NAONIS NEC  NECKERMAN  NEI NESCO NET-TV NEW TECH NEW WORLD NICAMAGIC NIKKAI  NIKKO NOBLIKO NOGAMATIC NOKIA NORDMENDE	0203, 0204, 0207 RY WARD 0058 0060, 0061, 0128, 0200 EM 0217 0062, 0127, 0128, 0200, 0207, 0208, 0210, 0214, 0215, 0210 0026, 0053, 0060, 0061, 0096, 0127 IN 0205, 0207, 0210, 0213, 0217, 0255 0213, 0217, 0255 0213, 0217, 0255 0213, 0217 0214 0082, 0101 0208, 0213 0209, 0218 0200, 0207 0200, 0206, 0207, 0209, 0218, 0217 0218 0061 0200, 0207 0216 0129, 0211 E 0205, 0211, 0213, 0216 0217	PHILIPS  PHILIPS MAG  PHOENIX  PHONOLA  PILOT  PIONEER  PLANTRON  POLAROID  POPPY  PORTLAND  PRANDONI-P  PRECISION  PRIMA  PROFEX  PROFI-TRONI  PROLINE  PROSCAN	0215 NIC 0207 0040, 0060, 0063, 0072, 0115, 0116, 0124, 0130, 0150, 0175, 0184, 0187, 0205, 0207, 0213, 0215, 0221, 0232, 0252, 0253, 0252, 0253, 0252, 0253, 0217 0200, 0205, 0213, 0217 0200, 0205, 0213, 0217 0200, 0205, 0213, 0217 0200, 0205, 0213, 0217 0200, 0205, 0213, 0217 0200, 0205, 0213, 0217 0200, 0205, 0213, 0217 0200, 0205, 0213, 0217 0200, 0205, 0213, 0216, 0212, 0205, 0213, 0216, 0217, 0250 0206, 0213 0075 0208 0060, 0061 RINCE 0204, 0210 0207 0208, 0211 0208 C 0213 0213 0213 0057	SACCS SAISHO SALORA SAMBERS SAMPO SAMSUNG SANDRA SANSUI SANYO SBR SCHAUB LOR SCHNEIDER	0216 0212 0204, 0206, 0207, 0208 0201, 0204, 0210, 0211, 0215 0204 0060, 0061, 0083, 0101 0029, 0030, 0031, 0032, 0044, 0045, 0046, 0065, 0068, 0069, 0071, 0079, 0087, 0127, 0128, 0130, 0144, 0160, 0161, 0170, 0176, 0183, 0185, 0200, 0201, 0206, 0207, 0208, 0213, 0217, 0239, 0241, 0242, 0243 0200, 0207 0123, 0126, 0213 0020, 0021, 0022, 0049, 0060, 0064, 0127, 0128, 0200, 0203, 0207, 0215 0217 ENTZ 0211 0207, 0209, 0213, 0215, 0216, 0217, 0218
KINGSLEY KLOSS NOVA  KNEISSEL KOLSTER KONKA KORPEL KORTING KOYODA KTV KYOTO LENCO LENCO LENOIR LESA LEYCO LG  LIESENK LIFE LIFETEC LOEWE LOEWE OPTA LOGIK LUMA LUMATRON LUX MAY LUXMAN LUXOR	0200, 0207 BEAM 0062 0203 0213 0209, 0218 0213, 0217 0205 0208 0062, 0127, 0207 0200, 0212 0208 0207, 0208 0214 0206, 0213, 0217 0016, 0038, 0039, 0127, 0128, 0157, 0158, 0163, 0164, 0166, 0188, 0189, 0200, 0201, 0207, 0208, 0210, 0213, 0214, 0215, 0217 0217 0206, 0208 0206, 0208, 0218 0063, 0128, 0203, 0204, 0223, 0227, 0205, 0213, 0217 0058 0210, 0217 0213 0058 0210, 0217 0213 0050, 0061 0201, 0207, 0210 0057, 0061, 0063,	MONTGOMEN MTC  MULTI SYSTE  MULTITECH  MURPHY NAD NAONIS NEC  NECKERMAN  NEI NESCO NET-TV NEW TECH NEW WORLD NICAMAGIC NIKKAI  NIKKO NOBLIKO NOGAMATIC NOKIA NORDMENDE	0203, 0204, 0207 RY WARD 0058 0060, 0061, 0128, 0200 EM 0217 0062, 0127, 0128, 0200, 0207, 0208, 0213, 0217 0061 0210 0026, 0053, 0060, 0061, 0096, 0127 EN 0205, 0207, 0210, 0213, 0217, 0255 0213, 0217 0214 0082, 0101 0028, 0213 0209, 0218 0200, 0207 0200, 0206, 0207, 0209, 0213, 0217, 0218 0061 0200, 0207 0200, 0206, 0207, 0209, 0213, 0217, 0218 0061 0200, 0207 0216 0129, 0211 E 0205, 0211, 0213, 0216	PHILIPS  PHILIPS MAG  PHOENIX  PHONOLA  PILOT  PIONEER  PLANTRON  POLAROID  POPPY  PORTLAND  PRANDONI-P  PRECISION  PRIMA  PROFEX  PROFI-TRONI  PROLINE	0215 NIC 0207 0040, 0060, 0063, 0072, 0115, 0116, 0124, 0130, 0150, 0175, 0184, 0187, 0205, 0207, 0213, 0215, 0221, 0232, 0233, 0252, 0253 NAVOX 0124 0200, 0205, 0213, 0217 0200, 0205, 0213, 0217 0200, 0205, 0213, 0217 0200, 0205, 0213, 0217 0200, 0205, 0213, 0217 0200, 0205, 0213, 0217 0200, 0205, 0213, 0217 0200, 0205, 0213, 0217 0200, 0205, 0213, 0217 0200, 0205, 0213, 0217 0201, 0213, 0216, 0217, 0250 0206, 0213, 0216, 0217, 0250 0206, 0213 0075 0208 0060, 0061 RINCE 0204, 0210 0207 0208, 0211 0208 C 0213 0213	SACCS SAISHO SALORA SAMBERS SAMPO SAMSUNG SANDRA SANSUI SANYO SBR SCHAUB LOR SCHNEIDER	0216 0212 0204, 0206, 0207, 0208 0201, 0204, 0210, 0211, 0215 0204 0060, 0061, 0083, 0101 0029, 0030, 0031, 0032, 0044, 0045, 0046, 0065, 0068, 0069, 0071, 0079, 0087, 0127, 0128, 0130, 0144, 0160, 0161, 0170, 0176, 0183, 0184, 0164, 0161, 0170, 0176, 0208, 0213, 0217, 0239, 0241, 0242, 0243 0200, 0207 0123, 0126, 0213 0020, 0021, 0022, 0049, 0060, 0064, 0127, 0128, 0200, 0201, 0207, 0215 0217 ENTZ 0211 0207, 0209, 0213, 0215, 0216, 0217, 0218 0061

SEARS	0057, 0060, 0061, 0064	TEKNIKA	0058, 0060, 0061, 0062	YAMAHA	0000, 0001, 0002, 0003, 0005, 0060,	SAMSUNG	1021, 1021, 2041, 2104
SEG	0200, 0206, 0207,	TELEAVIA	0216	VAMICIII	0061	SHARP	1023, 1073, 2043,
SEI	0214, 0215, 0217 0204	TELECOR TELEFUNKEN	0218	YAMISHI YOKO	0218 0200, 0206, 0207,	SONY	2106 1019, 1074, 2039,
SEI-SINUDYN		TEEEI CIVILLI	0065, 0213, 0216	TORO	0208, 0209, 0213,	50111	2107
	0204, 0205, 0211	TELEGAZI	0218		0217, 0218	TOSHIBA	1024, 1075, 2044,
SELECO	0210, 0211, 0215	TELETECH	0208, 0214, 0217	YORX	0209, 0218		2108
SENCORA	0208	TELETON TELEVIDEON	0207	ZANUSSI ZENITH	0210	ZENITH	1026, 2047
SENTRA SERINO	0218 0200	TENSAI	0208, 0209, 0213,	ZENIIT	0058, 0060, 0100, 0105, 0119, 0121,		
SHARP	0009, 0010, 0011,	121.0111	0218		0154	VCR	
	0060, 0061, 0066,	TESMET	0213			ADMIRAL	1008, 1013
	0070, 0087, 0111,	TEVION	0206, 0208	TV/DVD C	OMBO	ADVENTURA	1005
	0143, 0145, 0167, 0168, 0169, 0198,	TEXET THOMSON	0200, 0207 0191, 0192, 0207,	AIWA	0139, 2055	AIWA	1005 1005, 1042, 1043,
	0204, 0224, 0247,	THOMSON	0213, 0216, 0226	APEX	0132, 2049	AIWA	1044, 1066
	0248, 0249	THORN	0212, 0217	BROKSONIC		AKAI	1007, 1043
SHOGUN	0060	TMK	0060, 0061	BUSH	0230, 2112	AKIBA	1050
SIAREM	0204, 0205, 0215 0212	TOKAI TOKYO	0213 0200, 0207	JVC PANASONIC	0136, 2053 0137, 2054, 0254,	AKURA ALBA	1043, 1050
SICATEL SIEMENS	0255	TOSHIBA	0027, 0043, 0053,	FANASONIC	2110	AMERICAN H	1044, 1050 IGH
SIERRA	0213	1001110.1	0054, 0064, 0078,	RCA	0133, 0135, 2050,	TIME TO THE TENT	1004
SIGNATURE	0058		0089, 0090, 0106,		2051	AMSTRAD	1042
SILVA	0200		0107, 0127, 0131,	SYLVANIA	0134, 2052	ANITECH	1050
SINGER SINUDYNE	0205, 0214, 0215 0204, 0205, 0215,		0140, 0146, 0159, 0197, 0225, 0231,	THOMSON TOSHIBA	0226, 2109	ASA ASHA	1045, 1046 1002, 1014
SINODINE	0204, 0203, 0213,		0237	ТОЗНІВА	0131, 2048, 0231, 2111	ASUKA	1042, 1045, 1046,
SKANTIC	0211	TOWADA	0211, 0215			11501111	1050
SOLAVOX	0211	TRANSTEC	0200	TV/DVD/V/	CR COMBO	AUDIO DYNAI	MICS
SONOKO	0206, 0207, 0208,	TRIDENT	0204				1000
SONOLOR	0213, 0217 0211	TRISTAR TRIUMPH	0218 0204	SAMSUNG	0141, 1040, 2057 0241, 1070, 2113	AUDIOVOX BAIRD	1003 1042, 1043, 1047
SONTEC	0211	UHER	0211, 0213	SHARP	0143, 1028, 2059	BASIC LINE	1044, 1050
SONY	0041, 0059, 0067,	ULTRAVOX	0200, 0205, 0207,	SYLVANIA	0142, 1041, 2058	BAUR	1046
	0085, 0086, 0174,		0214, 0215	TOSHIBA	0140, 1029, 2056		1002, 1014
	0196, 0199, 0208,	UNITED	0217			BELL & HOWI	
SOUND & VIS	0219, 0234 SION	UNIVERSUM	0127, 0128, 0129, 0201, 0206, 0213,	TV/VCR C	ОМВО	BLAUPUNKT	1001
SOUND & VI.	0209, 0218		0214, 0215, 0217	AIWA	0237, 1066		1012, 1013
SOUNDESIGN	N 0060, 0061, 0062	UNIVOX	0212	BUSH	0237, 1066	BUSH	1044, 1050, 1066
SOUNDWAVE		VESTEL	0210, 0211, 0213,	DAEWOO	0155, 0238, 1038,	CALIX	1003
SSS	0060, 0062	VIEW A	0214, 0215, 0217	GE.	1067	CANDLE	1002, 1003
STANDARD	0207, 0208, 0209, 0213, 0218	VEXA VICTOR	0208, 0217 0213	GE GOODMANS	0147, 1030 0240, 1069	CANON CCE	1004 1006
STARLIGHT	0217	VIDEOLOGIC		GRUNDIG	0236, 1062	CGE	1042, 1043
STARLITE	0062	VIDEOLOGIQ	UE	HITACHI	0156, 1039	CIMLINE	1044, 1050
STENWAY	0218		0200, 0207, 0209,	JVC	0153, 1036	CITIZEN	1002, 1003
STERN SUNKAI	0210, 0211 0208, 0218	VIDEOSAT	0218 0214	MAGNAVOX ORION	0150, 1033 0235, 1065	COLORTYME COLT	1000 1006
SUNWOOD	0208, 0218	VIDEOSYSTE		PANASONIC	0253, 1005	CRAIG	1002, 1003, 1006,
SUPERLA	0200, 0204, 0207		0213	PHILIPS	0150, 0232, 0233,		1014
SUPERTECH	0200	VIDEOTECHN			1033, 1062, 1063	CROWN	1050
SUPRA	0208	MDTECH	0200	QUASAR	0152, 1035	CURTIS MATH	
SUPREME SUSUMU	0059 0209	VIDTECH VIEWSONIC	0060, 0061 0076, 0077, 0092,	RCA ROADSTAR	0149, 1032 0237, 1066		1000, 1002, 1004, 1009
SUTRON							1009
SYDNEY		,12,,,001,10				CYBERNEX	1002, 1014
OIDINEI	0208 0200, 0207	VISIOLA	0099, 0172, 0173 0200, 0207	SAMSUNG	0144, 0239, 1027, 1068	CYBERNEX DAEWOO	1002, 1014 1005, 1038, 1061,
SYLVANIA	0208 0200, 0207 0060, 0061, 0063,	VISIOLA VISION	0099, 0172, 0173 0200, 0207 0213	SAMSUNG SHARP	0144, 0239, 1027, 1068 0145, 1028	DAEWOO	1005, 1038, 1061, 1067
	0208 0200, 0207 0060, 0061, 0063, 0080, 0134, 0142,	VISIOLA VISION VORTEC	0099, 0172, 0173 0200, 0207 0213 0213, 0217	SAMSUNG SHARP SONY	0144, 0239, 1027, 1068 0145, 1028 0234, 1064	DAEWOO DANSAI	1005, 1038, 1061, 1067 1050
SYLVANIA	0208 0200, 0207 0060, 0061, 0063, 0080, 0134, 0142, 0148	VISIOLA VISION	0099, 0172, 0173 0200, 0207 0213 0213, 0217 0205, 0210, 0211,	SAMSUNG SHARP SONY SYLVANIA	0144, 0239, 1027, 1068 0145, 1028 0234, 1064 0148, 1031	DAEWOO DANSAI DANTAX	1005, 1038, 1061, 1067 1050 1044
	0208 0200, 0207 0060, 0061, 0063, 0080, 0134, 0142, 0148 0062, 0080	VISIOLA VISION VORTEC	0099, 0172, 0173 0200, 0207 0213 0213, 0217 0205, 0210, 0211, 0213	SAMSUNG SHARP SONY	0144, 0239, 1027, 1068 0145, 1028 0234, 1064 0148, 1031 0237, 1066	DAEWOO  DANSAI  DANTAX  DBX	1005, 1038, 1061, 1067 1050 1044 1000
SYLVANIA  SYMPHONIC SYSLINE SYTONG	0208 0200, 0207 0060, 0061, 0063, 0080, 0134, 0142, 0148 0062, 0080 0217 0200	VISIOLA VISION VORTEC VOXSON	0099, 0172, 0173 0200, 0207 0213 0213, 0217 0205, 0210, 0211, 0213 0207, 0212 0057, 0058, 0060,	SAMSUNG SHARP SONY SYLVANIA TATUNG TOSHIBA	0144, 0239, 1027, 1068 0145, 1028 0234, 1064 0148, 1031 0237, 1066 0146, 0237, 1029, 1066	DAEWOO  DANSAI DANTAX DBX DE GRAAF DECCA	1005, 1038, 1061, 1067 1050 1044 1000 1046, 1049 1042, 1043, 1046
SYLVANIA SYMPHONIC SYSLINE	0208 0200, 0207 0060, 0061, 0063, 0080, 0134, 0142, 0148 0062, 0080 0217 0200 0127, 0207, 0209,	VISIOLA VISION VORTEC VOXSON WALTHAM WARDS	0099, 0172, 0173 0200, 0207 0213 0213, 0217 0205, 0210, 0211, 0213 0207, 0212 0057, 0058, 0060, 0061, 0063	SAMSUNG SHARP SONY SYLVANIA TATUNG	0144, 0239, 1027, 1068 0145, 1028 0234, 1064 0148, 1031 0237, 1066 0146, 0237, 1029,	DAEWOO  DANSAI DANTAX DBX DE GRAAF DECCA DENON	1005, 1038, 1061, 1067 1050 1044 1000 1046, 1049 1042, 1043, 1046 1010
SYLVANIA  SYMPHONIC SYSLINE SYTONG TANDY	0208 0200, 0207 0060, 0061, 0063, 0080, 0134, 0142, 0148 0062, 0080 0217 0200 0127, 0207, 0209, 0211, 0218	VISIOLA VISION VORTEC VOXSON WALTHAM WARDS	0099, 0172, 0173 0200, 0207 0213 0213, 0217 0205, 0210, 0211, 0213 0207, 0212 0057, 0058, 0060, 0061, 0063 0213, 0217, 0218	SAMSUNG SHARP SONY SYLVANIA TATUNG TOSHIBA	0144, 0239, 1027, 1068 0145, 1028 0234, 1064 0148, 1031 0237, 1066 0146, 0237, 1029, 1066	DAEWOO  DANSAI DANTAX DBX DE GRAAF DECCA DENON DIMENSIA	1005, 1038, 1061, 1067 1050 1044 1000 1046, 1049 1042, 1043, 1046 1010 1009
SYLVANIA  SYMPHONIC SYSLINE SYTONG TANDY  TASHIKO	0208 0200, 0207 0060, 0061, 0063, 0080, 0134, 0142, 0148 0062, 0080 0217 0200 0127, 0207, 0209, 0211, 0218 0200, 0207, 0210	VISIOLA VISION VORTEC VOXSON WALTHAM WARDS	0099, 0172, 0173 0200, 0207 0213 0213, 0217 0205, 0210, 0211, 0213 0207, 0212 0057, 0058, 0060, 0061, 0063 0213, 0217, 0218 0200, 0207, 0212,	SAMSUNG SHARP SONY SYLVANIA TATUNG TOSHIBA	0144, 0239, 1027, 1068 0145, 1028 0234, 1064 0148, 1031 0237, 1066 0146, 0237, 1029, 1066 0154, 1037	DAEWOO  DANSAI DANTAX DBX DE GRAAF DECCA DENON DIMENSIA DUAL	1005, 1038, 1061, 1067 1050 1044 1000 1046, 1049 1042, 1043, 1046 1010 1009 1043, 1046
SYLVANIA  SYMPHONIC SYSLINE SYTONG TANDY	0208 0200, 0207 0060, 0061, 0063, 0080, 0134, 0142, 0148 0062, 0080 0217 0200 0127, 0207, 0209, 0211, 0218	VISIOLA VISION VORTEC VOXSON WALTHAM WARDS	0099, 0172, 0173 0200, 0207 0213 0213, 0217 0205, 0210, 0211, 0213 0207, 0212 0057, 0058, 0060, 0061, 0063 0213, 0217, 0218	SAMSUNG SHARP SONY SYLVANIA TATUNG TOSHIBA ZENITH	0144, 0239, 1027, 1068 0145, 1028 0234, 1064 0148, 1031 0237, 1066 0146, 0237, 1029, 1066 0154, 1037	DAEWOO  DANSAI DANTAX DBX DE GRAAF DECCA DENON DIMENSIA	1005, 1038, 1061, 1067 1050 1044 1000 1046, 1049 1042, 1043, 1046 1010 1009
SYLVANIA  SYMPHONIC SYSLINE SYTONG TANDY  TASHIKO TATUNG  TCM	0208 0200, 0207 0060, 0061, 0063, 0080, 0134, 0142, 0148 0062, 0080 0217 0200 0127, 0207, 0209, 0211, 0218 0200, 0207, 0210 0127, 0204, 0207, 0213, 0217, 0237 0206, 0208	VISIOLA VISION VORTEC VOXSON WALTHAM WARDS WATSON WATT RADIO WEGA WELTBLICK	0099, 0172, 0173 0200, 0207 0213 0213, 0217 0205, 0210, 0211, 0213 0207, 0212 0057, 0058, 0060, 0061, 0063 0213, 0217, 0218 0200, 0207, 0212, 0215 0205 0213, 0217	SAMSUNG SHARP SONY SYLVANIA TATUNG TOSHIBA ZENITH DVD/VCR	0144, 0239, 1027, 1068 0145, 1028 0234, 1064 0148, 1031 0237, 1066 0146, 0237, 1029, 1066 0154, 1037 <b>COMBO</b> 1017, 1017, 2045, 2045	DAEWOO  DANSAI  DANTAX  DBX  DE GRAAF  DECCA  DENON  DIMENSIA  DUAL  DUMONT  DYNATECH	1005, 1038, 1061, 1067 1050 1044 1000 1046, 1049 1042, 1043, 1046 1010 1009 1043, 1046 1042, 1046, 1047, 1049 1005
SYLVANIA  SYMPHONIC SYSLINE SYTONG TANDY  TASHIKO TATUNG  TCM TEAC	0208 0200, 0207 0060, 0061, 0063, 0080, 0134, 0142, 0148 0062, 0080 0217 0200 0127, 0207, 0209, 0211, 0218 0200, 0207, 0210 0127, 0204, 0207, 0213, 0217, 0237 0206, 0208 0127	VISIOLA VISION VORTEC VOXSON WALTHAM WARDS WATSON WATT RADIO WEGA WELTBLICK WESTON	0099, 0172, 0173 0200, 0207 0213 0213, 0217 0205, 0210, 0211, 0213 0207, 0212 0057, 0058, 0060, 0061, 0063 0213, 0217, 0218 0200, 0207, 0212, 0215 0205 0213, 0217	SAMSUNG SHARP SONY SYLVANIA TATUNG TOSHIBA ZENITH  DVD/VCR JVC LG	0144, 0239, 1027, 1068   0145, 1028   0234, 1064   0148, 1031   0237, 1066   0146, 0237, 1029, 1066   0154, 1037    COMBO   1017, 1017, 2045, 2045   1071, 2087	DAEWOO  DANSAI DANTAX DBX DE GRAAF DECCA DENON DIMENSIA DUAL DUMONT	1005, 1038, 1061, 1067 1050 1044 1000 1046, 1049 1042, 1043, 1046 1010 1009 1043, 1046 1042, 1046, 1047, 1049 1005
SYLVANIA  SYMPHONIC SYSLINE SYTONG TANDY  TASHIKO TATUNG  TCM	0208 0200, 0207 0060, 0061, 0063, 0080, 0134, 0142, 0148 0062, 0080 0217 0200 0127, 0207, 0209, 0211, 0218 0200, 0207, 0210 0127, 0204, 0207, 0213, 0217, 0237 0206, 0208 0127 0207, 0208, 0214,	VISIOLA VISION VORTEC VOXSON WALTHAM WARDS WATSON WATT RADIO WEGA WELTBLICK	0099, 0172, 0173 0200, 0207 0213 0213, 0217 0205, 0210, 0211, 0213 0207, 0212 0057, 0058, 0060, 0061, 0063 0213, 0217, 0218 0200, 0207, 0212, 0215 0205 0213, 0217	SAMSUNG SHARP SONY SYLVANIA TATUNG TOSHIBA ZENITH  DVD/VCR JVC	0144, 0239, 1027, 1068   0145, 1028   0234, 1064   0148, 1031   0237, 1066   0146, 0237, 1029, 1066   0154, 1037    COMBO   1017, 1017, 2045, 2045   1071, 2087   1020, 1072, 2040,	DAEWOO  DANSAI  DANTAX  DBX  DE GRAAF  DECCA  DENON  DIMENSIA  DUAL  DUMONT  DYNATECH  ELECTROHOM	1005, 1038, 1061, 1067 1050 1044 1000 1046, 1049 1042, 1043, 1046 1010 1009 1043, 1046 1042, 1046, 1047, 1049 1005 4E 1003
SYLVANIA  SYMPHONIC SYSLINE SYTONG TANDY  TASHIKO TATUNG  TCM TEAC TEC	0208 0200, 0207 0060, 0061, 0063, 0080, 0134, 0142, 0148 0062, 0080 0217 0200 0127, 0207, 0209, 0211, 0218 0200, 0207, 0210 0127, 0204, 0207, 0213, 0217, 0237 0206, 0208 0127 0207, 0208, 0214, 0215	VISIOLA VISION VORTEC VOXSON WALTHAM WARDS WATSON WATT RADIO WEGA WELTBLICK WESTON	0099, 0172, 0173 0200, 0207 0213 0213, 0217 0205, 0210, 0211, 0213 0207, 0212 0057, 0058, 0060, 0061, 0063 0213, 0217, 0218 0200, 0207, 0212, 0215 0205 0213, 0217 0215 INGHOUSE 0008, 0200, 0207,	SAMSUNG SHARP SONY SYLVANIA TATUNG TOSHIBA ZENITH  DVD/VCR JVC LG PANASONIC	0144, 0239, 1027, 1068 0145, 1028 0234, 1064 0148, 1031 0237, 1066 0146, 0237, 1029, 1066 0154, 1037  COMBO 1017, 1017, 2045, 2045 1071, 2087 1020, 1072, 2040, 2105	DAEWOO  DANSAI  DANTAX  DBX  DE GRAAF  DECCA  DENON  DIMENSIA  DUAL  DUMONT  DYNATECH	1005, 1038, 1061, 1067 1050 1044 1000 1046, 1049 1042, 1043, 1046 1010 1009 1043, 1046 1042, 1046, 1047, 1049 1005 IE
SYLVANIA  SYMPHONIC SYSLINE SYTONG TANDY  TASHIKO TATUNG  TCM TEAC	0208 0200, 0207 0060, 0061, 0063, 0080, 0134, 0142, 0148 0062, 0080 0217 0200 0127, 0207, 0209, 0211, 0218 0200, 0207, 0210 0127, 0204, 0207, 0213, 0217, 0237 0206, 0208 0127 0207, 0208, 0214,	VISIOLA VISION VORTEC VOXSON WALTHAM WARDS WATSON WATT RADIO WEGA WELTBLICK WESTON	0099, 0172, 0173 0200, 0207 0213 0213, 0217 0205, 0210, 0211, 0213 0207, 0212 0057, 0058, 0060, 0061, 0063 0213, 0217, 0218 0200, 0207, 0212, 0215 0205 0213, 0217	SAMSUNG SHARP SONY SYLVANIA TATUNG TOSHIBA ZENITH  DVD/VCR JVC LG	0144, 0239, 1027, 1068   0145, 1028   0234, 1064   0148, 1031   0237, 1066   0146, 0237, 1029, 1066   0154, 1037    COMBO   1017, 1017, 2045, 2045   1071, 2087   1020, 1072, 2040,	DAEWOO  DANSAI  DANTAX  DBX  DE GRAAF  DECCA  DENON  DIMENSIA  DUAL  DUMONT  DYNATECH  ELECTROHOM	1005, 1038, 1061, 1067 1050 1044 1000 1046, 1049 1042, 1043, 1046 1010 1009 1043, 1046 1042, 1046, 1047, 1049 1005 4E 1003

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	1003, 1004, 1005,	KENWOOD	1000, 1001, 1007,	PANASONIC	1004, 1020, 1034,	SIEMENS	1045, 1047
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ETZUKO	1050	KLH	1006		1072		1008
FERGUSON	1043	KODAK	1003, 1004	PATHE MARC	ONI	SILVA	1045
FIDELITY	1042	KORPEL	1050		1043	SINGER	1004, 1006
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	1046	LUXOR	1047	DIVONOV 4	1018	SUNWOOD	1050
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GALAXY	1042	MAGNASONIC	2	PRINZ	1042	TAISHO	1044
GARRARD	1005		1047	PROFEX	1050	TANDY	1001
GBC	1050	MAGNAVOX	1004, 1018, 1033	PROFITRONIC		TASHIKO	1003, 1042
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	1014, 1030	MANESTH	1050	PROLINE	1042		1046, 1066
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	1044, 1048	MATSUI	1044, 1045	PYE	1046, 1056	TEKNIKA	1003, 1004, 1005
GO VIDEO	1014	MATSUSHITA		QUARTER	1001	TELEAVIA	1043
GOLDHAND	1050	MEDIATOR	1046	QUARTZ	1001, 1047	TELEFUNKEN	
GOLDSTAR	1000, 1003, 1042,	MEDION	1044, 1048	QUASAR	1004, 1035	TEEEI CIVILEIV	1043
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GOODMANS	1042, 1043, 1030,	MEMOREX	1001, 1002, 1003,	KADIO SHACI	1003		1042, 1045, 1050
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GRUNDIG	1046, 1050, 1062	MGA	1014	RADIX	1003	TONSAI	1050
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HARLEY DAV			1002, 1014	RCA	1002, 1004, 1009,		1043, 1046, 1066,
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	1000	MIGROS	1042	REALISTIC	1001, 1002, 1003,	TOWADA	1050
HARWOOD	1006	MINOLTA	1010		1004, 1005, 1008	TOWIKA	1050
HCM	1050	MITSUBISHI	1011, 1042, 1046	REX	1043	UHER	1045
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IIISAWA	1044	MOTOROLA MTC	1004, 1008	SABA	1043		
		MTC	1004, 1008 1002, 1014	SABA SAISHO	1043 1044, 1050	VECTOR RESI	EARCH 1000
HITACHI	1007, 1010, 1039,	MTC	1004, 1008 1002, 1014 1002, 1005, 1006,	SABA SAISHO SALORA	1043 1044, 1050 1047		EARCH 1000 EPTS
	1007, 1010, 1039, 1042, 1043, 1046,	MTC MULTITECH	1004, 1008 1002, 1014 1002, 1005, 1006, 1042, 1046, 1050	SABA SAISHO	1043 1044, 1050 1047 1002, 1014, 1021,	VECTOR RESE	EARCH 1000 EPTS 1000
HITACHI	1007, 1010, 1039, 1042, 1043, 1046, 1049	MTC MULTITECH MURPHY	1004, 1008 1002, 1014 1002, 1005, 1006, 1042, 1046, 1050 1042	SABA SAISHO SALORA	1043 1044, 1050 1047 1002, 1014, 1021, 1027, 1052, 1068,	VECTOR RESI VIDEO CONCI VIDEON	EARCH 1000 EPTS 1000 1044, 1048
HITACHI	1007, 1010, 1039, 1042, 1043, 1046, 1049 WORK SYSTEMS	MTC MULTITECH MURPHY NATIONAL	1004, 1008 1002, 1014 1002, 1005, 1006, 1042, 1046, 1050 1042 1048	SABA SAISHO SALORA SAMSUNG	1043 1044, 1050 1047 1002, 1014, 1021, 1027, 1052, 1068, 1070	VECTOR RESI VIDEO CONCI VIDEON VIDEOSONIC	EARCH 1000 EPTS 1000 1044, 1048 1002, 1014
HITACHI HUGHES NET	1007, 1010, 1039, 1042, 1043, 1046, 1049 WORK SYSTEMS 1010	MTC MULTITECH MURPHY	1004, 1008 1002, 1014 1002, 1005, 1006, 1042, 1046, 1050 1042 1048 1000, 1001, 1007,	SABA SAISHO SALORA SAMSUNG	1043 1044, 1050 1047 1002, 1014, 1021, 1027, 1052, 1068, 1070 1008	VECTOR RESI VIDEO CONCI VIDEON	EARCH 1000 EPTS 1000 1044, 1048 1002, 1014 1002, 1003, 1004,
HUGHES NET	1007, 1010, 1039, 1042, 1043, 1046, 1049 WORK SYSTEMS 1010 1044, 1050	MTC MULTITECH MURPHY NATIONAL NEC	1004, 1008 1002, 1014 1002, 1005, 1006, 1042, 1046, 1050 1042 1048 1000, 1001, 1007, 1011, 1043, 1051	SABA SAISHO SALORA SAMSUNG	1043 1044, 1050 1047 1002, 1014, 1021, 1027, 1052, 1068, 1070 1008 1007, 1011, 1013,	VECTOR RESI VIDEO CONCI VIDEON VIDEOSONIC	EARCH 1000 EPTS 1000 1044, 1048 1002, 1014 1002, 1003, 1004, 1005, 1006, 1008,
HUGHES NET HYPSON IMPERIAL	1007, 1010, 1039, 1042, 1043, 1046, 1049 WORK SYSTEMS 1010 1044, 1050	MTC MULTITECH MURPHY NATIONAL	1004, 1008 1002, 1014 1002, 1005, 1006, 1042, 1046, 1050 1042 1048 1000, 1001, 1007, 1011, 1043, 1051	SABA SAISHO SALORA SAMSUNG SANKY SANSUI	1043 1044, 1050 1047 1002, 1014, 1021, 1027, 1052, 1068, 1070 1008 1007, 1011, 1013, 1043	VICTOR RESI VIDEO CONCI VIDEON VIDEOSONIC WARDS	EARCH 1000 EPTS 1000 1044, 1048 1002, 1014 1002, 1003, 1004, 1005, 1006, 1008, 1010, 1014
HITACHI HUGHES NET HYPSON IMPERIAL INNO HIT	1007, 1010, 1039, 1042, 1043, 1046, 1049 WORK SYSTEMS 1010 1044, 1050 1042 1046, 1050	MTC MULTITECH MURPHY NATIONAL NEC NECKERMAN	1004, 1008 1002, 1014 1002, 1005, 1006, 1042, 1046, 1050 1042 1048 1000, 1001, 1007, 1011, 1043, 1051 N 1043, 1046	SABA SAISHO SALORA SAMSUNG	1043 1044, 1050 1047 1002, 1014, 1021, 1027, 1052, 1068, 1070 1008 1007, 1011, 1013, 1043 1001, 1002, 1014,	VIDEO CONCI VIDEON VIDEOSONIC WARDS	EARCH 1000 EPTS 1000 1044, 1048 1002, 1014 1002, 1003, 1004, 1005, 1006, 1008, 1010, 1014
HUGHES NET HYPSON IMPERIAL INNO HIT INNOVATION	1007, 1010, 1039, 1042, 1043, 1046, 1049 WORK SYSTEMS 1010 1044, 1050 1042 1046, 1050 1044, 1048	MTC MULTITECH MURPHY NATIONAL NEC NECKERMAN	1004, 1008 1002, 1014 1002, 1005, 1006, 1042, 1046, 1050 1042 1048 1000, 1001, 1007, 1011, 1043, 1051 N 1043, 1046 1046	SABA SAISHO SALORA SAMSUNG SANKY SANSUI SANYO	1043 1044, 1050 1047 1002, 1014, 1021, 1027, 1052, 1068, 1070 1008 1007, 1011, 1013, 1043 1001, 1002, 1014, 1047	VICTOR RESI VIDEO CONCI VIDEON VIDEOSONIC WARDS	EARCH 1000 EPTS 1000 1044, 1048 1002, 1014 1002, 1003, 1004, 1005, 1006, 1008, 1010, 1014 1045 INGHOUSE
HITACHI HUGHES NET HYPSON IMPERIAL INNO HIT	1007, 1010, 1039, 1042, 1043, 1046, 1049 WORK SYSTEMS 1010 1044, 1050 1042 1046, 1050 1044, 1048 LAY	MTC MULTITECH MURPHY NATIONAL NEC NECKERMANI NEI NESCO	1004, 1008 1002, 1014 1002, 1005, 1006, 1042, 1046, 1050 1042 1048 1000, 1001, 1007, 1011, 1043, 1051 N 1043, 1046 1046	SABA SAISHO SALORA SAMSUNG SANKY SANSUI SANYO SBR	1043 1044, 1050 1047 1002, 1014, 1021, 1027, 1052, 1068, 1070 1008 1007, 1011, 1013, 1043 1001, 1002, 1014, 1047 1046	VIDEO CONCI VIDEO CONCI VIDEON VIDEOSONIC WARDS WELTBLICK WHITE WEST	EARCH 1000 EPTS 1000 1044, 1048 1002, 1014 1002, 1003, 1004, 1005, 1006, 1008, 1010, 1014 1045 INGHOUSE 1013
HITACHI HUGHES NET HYPSON IMPERIAL INNO HIT INNOVATION INSTANT REP	1007, 1010, 1039, 1042, 1043, 1046, 1049 WORK SYSTEMS 1010 1044, 1050 1042 1046, 1050 1044, 1048 LAY 1004	MTC MULTITECH MURPHY NATIONAL NEC NECKERMANI NEI NESCO NIKKO	1004, 1008 1002, 1014 1002, 1005, 1006, 1042, 1046, 1050 1042 1048 1000, 1001, 1007, 1011, 1043, 1051 N 1043, 1046 1050 1003	SABA SAISHO SALORA SAMSUNG SANKY SANSUI SANYO	1043 1044, 1050 1047 1002, 1014, 1021, 1027, 1052, 1068, 1070 1008 1007, 1011, 1013, 1043 1001, 1002, 1014, 1047 1046 ENZ	VIDEO CONCI VIDEO CONCI VIDEON VIDEOSONIC WARDS WELTBLICK WHITE WEST! XR-1000	EARCH 1000 EPTS 1000 1044, 1048 1002, 1014 1002, 1003, 1004, 1005, 1006, 1008, 1010, 1014 1045 INGHOUSE 1013 1004, 1005, 1006
HUGHES NET HYPSON IMPERIAL INNO HIT INNOVATION INSTANT REP INTERBUY	1007, 1010, 1039, 1042, 1043, 1046, 1049 WORK SYSTEMS 1010 1044, 1050 1042 1046, 1050 1044, 1048 LAY 1004 1045	MTC MULTITECH  MURPHY NATIONAL NEC  NECKERMANI NEI NESCO NIKKO NOBLEX	1004, 1008 1002, 1014 1002, 1005, 1006, 1042, 1046, 1050 1042 1048 1000, 1001, 1007, 1011, 1043, 1051 N 1043, 1046 1046 1050 1003 1002, 1014	SABA SAISHO SALORA SAMSUNG SANKY SANSUI SANYO SBR SCHAUB LOR	1043 1044, 1050 1047 1002, 1014, 1021, 1027, 1052, 1068, 1070 1008 1007, 1011, 1013, 1043 1001, 1002, 1014, 1047 1046 ENZ 1042, 1043, 1047	VIDEO CONCI VIDEO CONCI VIDEON VIDEOSONIC WARDS WELTBLICK WHITE WEST! XR-1000 YAMAHA	EARCH 1000 EPTS 1000 1044, 1048 1002, 1014 1002, 1003, 1004, 1005, 1006, 1008, 1010, 1014 1045 INGHOUSE 1013 1004, 1005, 1006 1000, 1001, 1007
HUGHES NET HYPSON IMPERIAL INNO HIT INNOVATION INSTANT REP INTERBUY INTERFUNK	1007, 1010, 1039, 1042, 1043, 1046, 1049 WORK SYSTEMS 1010 1044, 1050 1042 1046, 1050 1044, 1048 LAY 1004 1045 1046, 1047	MTC MULTITECH  MURPHY NATIONAL NEC  NECKERMANI NEI NESCO NIKKO NOBLEX NOKIA	1004, 1008 1002, 1014 1002, 1005, 1006, 1042, 1046, 1050 1042 1048 1000, 1001, 1007, 1011, 1043, 1051 N 1043, 1046 1046 1050 1003 1002, 1014 1043, 1047	SABA SAISHO SALORA SAMSUNG SANKY SANSUI SANYO SBR	1043 1044, 1050 1047 1002, 1014, 1021, 1027, 1052, 1068, 1070 1008 1007, 1011, 1013, 1043 1001, 1002, 1014, 1047 1046 ENZ 1042, 1043, 1047 1042, 1044, 1045,	VIDEO CONCI VIDEO CONCI VIDEON VIDEOSONIC WARDS WELTBLICK WHITE WEST! XR-1000 YAMAHA YAMISHI	EARCH 1000 EPTS 1000 1044, 1048 1002, 1014 1002, 1003, 1004, 1005, 1006, 1008, 1010, 1014 1045 INGHOUSE 1013 1004, 1005, 1006 1000, 1001, 1007 1050
HUGHES NET HYPSON IMPERIAL INNO HIT INNOVATION INSTANT REP INTERBUY INTERFUNK INTERVISION	1007, 1010, 1039, 1042, 1043, 1046, 1049 WORK SYSTEMS 1010 1044, 1050 1042 1046, 1050 1044, 1048 LAY 1004 1045 1046, 1047	MTC MULTITECH  MURPHY NATIONAL NEC  NECKERMANI NEI NESCO NIKKO NOBLEX	1004, 1008 1002, 1014 1002, 1005, 1006, 1042, 1046, 1050 1042 1048 1000, 1001, 1007, 1011, 1043, 1051 N 1043, 1046 1050 1003 1002, 1014 1043, 1047	SABA SAISHO SALORA SAMSUNG  SANKY SANSUI SANYO  SBR SCHAUB LOR SCHNEIDER	1043 1044, 1050 1047 1002, 1014, 1021, 1027, 1052, 1068, 1070 1008 1007, 1011, 1013, 1043 1001, 1002, 1014, 1047 1046 ENZ 1042, 1043, 1047 1042, 1044, 1045, 1046, 1050	VIDEO CONCI VIDEON VIDEOSONIC WARDS WELTBLICK WHITE WEST! XR-1000 YAMAHA YAMISHI YOKAN	EARCH 1000 EPTS 1000 1044, 1048 1002, 1014 1002, 1003, 1004, 1005, 1006, 1008, 1010, 1014 1045 INGHOUSE 1013 1004, 1005, 1006 1000, 1001, 1007 1050 1050
HUGHES NET HYPSON IMPERIAL INNO HIT INNOVATION INSTANT REP INTERBUY INTERFUNK INTERVISION IRRADIO	1007, 1010, 1039, 1042, 1043, 1046, 1049 WORK SYSTEMS 1010 1044, 1050 1042 1046, 1050 1044, 1048 LAY 1004 1045 1046, 1047 1046, 1047	MTC MULTITECH  MURPHY NATIONAL NEC  NECKERMAN!  NEI NESCO NIKKO NOBLEX NOKIA NORDMENDE	1004, 1008 1002, 1014 1002, 1005, 1006, 1042, 1046, 1050 1042 1048 1000, 1001, 1007, 1011, 1043, 1051 N 1043, 1046 1050 1003 1002, 1014 1043, 1047	SABA SAISHO SALORA SAMSUNG  SANKY SANSUI SANYO SBR SCHAUB LOR SCHNEIDER SCOTT	1043 1044, 1050 1047 1002, 1014, 1021, 1027, 1052, 1068, 1070 1008 1007, 1011, 1013, 1043 1001, 1002, 1014, 1047 1046 ENZ 1042, 1043, 1047 1042, 1044, 1045, 1046, 1050	VIDEO CONCI VIDEO CONCI VIDEOSONIC WARDS WELTBLICK WHITE WEST! XR-1000 YAMAHA YAMISHI YOKAN YOKO	EARCH 1000 EPTS 1004, 1048 1002, 1014 1002, 1003, 1004, 1005, 1006, 1008, 1010, 1014 1045 INGHOUSE 1013 1004, 1005, 1006 1000, 1001, 1007 1050 1050 1045, 1050
HITACHI  HUGHES NET  HYPSON IMPERIAL INNO HIT INNOVATION INSTANT REP  INTERBUY INTERFUNK INTERFUNK INTERVISION IRRADIO ITT	1007, 1010, 1039, 1042, 1043, 1046, 1049 WORK SYSTEMS 1010 1044, 1050 1042 1046, 1050 1044, 1048 LAY 1004 1045 1046, 1047 1046, 1047 1042 1045, 1050 1043, 1047	MTC MULTITECH  MURPHY NATIONAL NEC  NECKERMANI NEI NESCO NIKKO NOBLEX NOKIA NORDMENDE  OCEANIC	1004, 1008 1002, 1014 1002, 1005, 1006, 1042, 1046, 1050 1042 1048 1000, 1001, 1007, 1011, 1043, 1051 N 1043, 1046 1050 1003 1002, 1014 1043, 1047 1043 1043 1042, 1043	SABA SAISHO SALORA SAMSUNG  SANKY SANSUI SANYO  SBR SCHAUB LOR SCHNEIDER	1043 1044, 1050 1047 1002, 1014, 1021, 1027, 1052, 1068, 1070 1008 1007, 1011, 1013, 1043 1001, 1002, 1014, 1046 ENZ 1042, 1043, 1047 1046, 1050 1012 1001, 1003, 1004,	VIDEO CONCI VIDEON VIDEOSONIC WARDS WELTBLICK WHITE WEST! XR-1000 YAMAHA YAMISHI YOKAN	EARCH 1000 EPTS 1000 1044, 1048 1002, 1014 1002, 1003, 1004, 1005, 1006, 1008, 1010, 1014 1045 INGHOUSE 1013 1004, 1005, 1006 1000, 1001, 1007 1050 1050
HITACHI  HUGHES NET  HYPSON IMPERIAL INNO HIT INNOVATION INSTANT REP  INTERBUY INTERFUNK INTERFUNK INTERVISION IRRADIO ITT ITT	1007, 1010, 1039, 1042, 1043, 1046, 1049  WORK SYSTEMS 1010 1044, 1050 1042 1046, 1050 1044, 1048 LAY 1004 1045 1046, 1047 1042 1045, 1050 1043, 1047 1045	MTC MULTITECH  MURPHY NATIONAL NEC  NECKERMANI NEI NESCO NIKKO NOBLEX NOKIA NORDMENDE  OCEANIC OKANO	1004, 1008 1002, 1014 1002, 1005, 1006, 1042, 1046, 1050 1042 1048 1000, 1001, 1007, 1011, 1043, 1051 N 1043, 1046 1050 1003 1002, 1014 1043, 1047 1043 1044 1043 1044 1043	SABA SAISHO SALORA SAMSUNG  SANKY SANSUI  SANYO  SBR SCHAUB LOR SCHNEIDER SCOTT SEARS	1043 1044, 1050 1047 1002, 1014, 1021, 1027, 1052, 1068, 1070 1008 1007, 1011, 1013, 1043 1001, 1002, 1014, 1047 1046 ENZ 1042, 1043, 1047 1042, 1044, 1045, 1046, 1050 1012 1001, 1003, 1004, 1010	VIDEO CONCI VIDEO CONCI VIDEOSONIC WARDS WELTBLICK WHITE WEST! XR-1000 YAMAHA YAMISHI YOKAN YOKO	EARCH 1000 EPTS 1004, 1048 1002, 1014 1002, 1003, 1004, 1005, 1006, 1008, 1010, 1014 1045 INGHOUSE 1013 1004, 1005, 1006 1000, 1001, 1007 1050 1050 1045, 1050
HITACHI  HUGHES NET  HYPSON IMPERIAL INNO HIT INNOVATION INSTANT REP  INTERBUY INTERFUNK INTERFUNK INTERVISION IRRADIO ITT	1007, 1010, 1039, 1042, 1043, 1046, 1049  WORK SYSTEMS 1010 1044, 1050 1042 1046, 1050 1044, 1048  LAY 1004 1045 1046, 1047 1042 1045, 1050 1043, 1047 1045 1004, 1047	MTC MULTITECH  MURPHY NATIONAL NEC  NECKERMANI NEI NESCO NIKKO NOBLEX NOKIA NORDMENDE  OCEANIC OKANO OLYMPUS	1004, 1008 1002, 1014 1002, 1005, 1006, 1042, 1046, 1050 1042 1048 1000, 1001, 1007, 1011, 1043, 1051 N 1043, 1046 1050 1003 1002, 1014 1043, 1047 1043 1042, 1043 1044 1044 1004	SABA SAISHO SALORA SAMSUNG SANKY SANSUI SANYO SBR SCHAUB LOR SCHNEIDER SCOTT SEARS SEG	1043 1044, 1050 1047 1002, 1014, 1021, 1027, 1052, 1068, 1070 1008 1007, 1011, 1013, 1043 1001, 1002, 1014, 1046 ENZ 1042, 1043, 1047 1042, 1044, 1045, 1046, 1050 1012 1001, 1003, 1004, 1010	VIDEO CONCI VIDEON VIDEOSONIC WARDS WELTBLICK WHITE WEST! XR-1000 YAMAHA YAMISHI YOKAN YOKO ZENITH	EARCH 1000 EPTS 1004, 1048 1002, 1014 1002, 1003, 1004, 1005, 1006, 1008, 1010, 1014 1045 INGHOUSE 1013 1004, 1005, 1006 1000, 1001, 1007 1050 1050 1045, 1050
HITACHI HUGHES NET HYPSON IMPERIAL INNO HIT INNOVATION INSTANT REP INTERBUY INTERFUNK INTERVISION IRRADIO ITT ITV JC PENNEY	1007, 1010, 1039, 1042, 1043, 1046, 1049  WORK SYSTEMS 1010 1044, 1050 1042 1046, 1050 1044, 1048  LAY 1004 1045 1046, 1047 1042 1045, 1050 1043, 1047 1045 1000, 1001, 1002, 1003, 1004, 1006	MTC MULTITECH  MURPHY NATIONAL NEC  NECKERMANI  NEI NESCO NIKKO NOBLEX NOKIA NORDMENDE  OCEANIC OKANO OLYMPUS OPTIMUS	1004, 1008 1002, 1014 1002, 1005, 1006, 1042, 1046, 1050 1042 1048 1000, 1001, 1007, 1011, 1043, 1051 N 1043, 1046 1050 1003 1002, 1014 1043, 1047 1043 1042, 1043 1044 1004 1004 1004, 1004	SABA SAISHO SALORA SAMSUNG  SANKY SANSUI  SANYO  SBR SCHAUB LOR SCHNEIDER SCOTT SEARS	1043 1044, 1050 1047 1002, 1014, 1021, 1027, 1052, 1068, 1070 1008 1007, 1011, 1013, 1043 1001, 1002, 1014, 1047 1046 ENZ 1042, 1043, 1047 1042, 1044, 1045, 1046, 1050 1012 1001, 1003, 1004, 1010 1050 E	VIDEO CONCI VIDEO CONCI VIDEOSONIC WARDS WELTBLICK WHITE WEST XR-1000 YAMAHA YAMISHI YOKAN YOKO ZENITH	EARCH 1000 EPTS 1000 1044, 1048 1002, 1014 1002, 1003, 1004, 1005, 1006, 1008, 1010, 1014 1045 INGHOUSE 1013 1004, 1005, 1006 1000, 1001, 1007 1050 1050 1045, 1050 1013, 1026, 1037
HUGHES NET HYPSON IMPERIAL INNO HIT INNOVATION INSTANT REP INTERBUY INTERFUNK INTERVISION IRRADIO ITT ITV JC PENNEY JCL	1007, 1010, 1039, 1042, 1043, 1046, 1049  WORK SYSTEMS 1010 1044, 1050 1042 1046, 1050 1044, 1048  LAY 1004 1045 1046, 1047 1042 1045, 1050 1043, 1047 1045 1000, 1001, 1002, 1003, 1004, 1006 1004	MTC MULTITECH  MURPHY NATIONAL NEC  NECKERMANI NEI NESCO NIKKO NOBLEX NOKIA NORDMENDE  OCEANIC OKANO OLYMPUS	1004, 1008 1002, 1014 1002, 1005, 1006, 1042, 1046, 1050 1042 1048 1000, 1001, 1007, 1011, 1043, 1051 N 1043, 1046 1046 1050 1003 1002, 1014 1043, 1047 1043 1042, 1043 1044 1004 1003, 1008 1012, 1013, 1044,	SABA SAISHO SALORA SAMSUNG  SANKY SANSUI SANYO  SBR SCHAUB LOR SCHNEIDER  SCOTT SEARS  SEG SEI-SINUDYN	1043 1044, 1050 1047 1002, 1014, 1021, 1027, 1052, 1068, 1070 1008 1007, 1011, 1013, 1043 1001, 1002, 1014, 1047 1046 ENZ 1042, 1043, 1047 1042, 1044, 1045, 1046, 1050 1012 1001, 1003, 1004, 1010 1050 E 1046	VIDEO CONCI VIDEON VIDEOSONIC WARDS WELTBLICK WHITE WEST! XR-1000 YAMAHA YAMISHI YOKAN YOKO ZENITH	EARCH 1000 EPTS 1000 1044, 1048 1002, 1014 1002, 1003, 1004, 1005, 1006, 1008, 1010, 1014 1045 INGHOUSE 1013 1004, 1005, 1006 1000, 1001, 1007 1050 1050 1045, 1050 1013, 1026, 1037
HITACHI  HUGHES NET  HYPSON IMPERIAL INNO HIT INNOVATION INSTANT REP  INTERBUY INTERFUNK INTERVISION IRRADIO ITT ITV JC PENNEY  JCL JENSEN	1007, 1010, 1039, 1042, 1043, 1046, 1049  WORK SYSTEMS 1010 1044, 1050 1042 1046, 1050 1044, 1048 LAY 1004 1045 1046, 1047 1042 1045, 1050 1043, 1047 1045 1000, 1001, 1002, 1003, 1004, 1006 1004 1007	MTC MULTITECH  MURPHY NATIONAL NEC  NECKERMANI  NEI NESCO NIKKO NOBLEX NOKIA NORDMENDE  OCEANIC OKANO OLYMPUS OPTIMUS ORION	1004, 1008 1002, 1014 1002, 1005, 1006, 1042, 1046, 1050 1042 1048 1000, 1001, 1007, 1011, 1043, 1051 N 1043, 1046 1050 1003 1002, 1014 1043, 1047 1043 1042, 1043 1044 1004 1004 1003, 1008 1012, 1013, 1044, 1065	SABA SAISHO SALORA SAMSUNG  SANKY SANSUI SANYO  SBR SCHAUB LOR SCHNEIDER SCOTT SEARS  SEG SEI-SINUDYN SELECO	1043 1044, 1050 1047 1002, 1014, 1021, 1027, 1052, 1068, 1070 1008 1007, 1011, 1013, 1043 1001, 1002, 1014, 1047 1046 ENZ 1042, 1043, 1047 1042, 1044, 1045, 1046, 1050 1012 1001, 1003, 1004, 1010 1050 E	VIDEO CONCI VIDEO CONCI VIDEOSONIC WARDS  WELTBLICK WHITE WEST!  XR-1000 YAMAHA YAMISHI YOKAN YOKO ZENITH  DVD  ACOUSTIC SO	EARCH 1000 EPTS 1000 1044, 1048 1002, 1014 1002, 1003, 1004, 1005, 1006, 1008, 1010, 1014 1045 INGHOUSE 1013 1004, 1005, 1006 1000, 1001, 1007 1050 1050 1045, 1050 1013, 1026, 1037
HUGHES NET HYPSON IMPERIAL INNO HIT INNOVATION INSTANT REP INTERBUY INTERFUNK INTERVISION IRRADIO ITT ITV JC PENNEY JCL	1007, 1010, 1039, 1042, 1043, 1046, 1049  WORK SYSTEMS 1010 1044, 1050 1042 1046, 1050 1044, 1048  LAY 1004 1045 1046, 1047 1042 1045, 1050 1043, 1047 1045 1000, 1001, 1002, 1003, 1004, 1006 1004	MTC MULTITECH  MURPHY NATIONAL NEC  NECKERMANI  NEI NESCO NIKKO NOBLEX NOKIA NORDMENDE  OCEANIC OKANO OLYMPUS OPTIMUS	1004, 1008 1002, 1014 1002, 1005, 1006, 1042, 1046, 1050 1042 1048 1000, 1001, 1007, 1011, 1043, 1051 N 1043, 1046 1046 1050 1003 1002, 1014 1043, 1047 1043 1042, 1043 1044 1004 1003, 1008 1012, 1013, 1044,	SABA SAISHO SALORA SAMSUNG  SANKY SANSUI SANYO  SBR SCHAUB LOR SCHNEIDER  SCOTT SEARS  SEG SEI-SINUDYN	1043 1044, 1050 1047 1002, 1014, 1021, 1027, 1052, 1068, 1070 1008 1007, 1011, 1013, 1043 1001, 1002, 1014, 1047 1046 ENZ 1042, 1043, 1047 1042, 1044, 1045, 1046, 1050 1012 1001, 1003, 1004, 1010 1050 E 1046	VIDEO CONCI VIDEO CONCI VIDEOSONIC WARDS WELTBLICK WHITE WEST XR-1000 YAMAHA YAMISHI YOKAN YOKO ZENITH	EARCH 1000 EPTS 1000 1044, 1048 1002, 1014 1002, 1003, 1004, 1005, 1006, 1008, 1010, 1014 1045 INGHOUSE 1013 1004, 1005, 1006 1000, 1001, 1007 1050 1050 1045, 1050 1013, 1026, 1037
HITACHI  HUGHES NET  HYPSON IMPERIAL INNO HIT INNOVATION INSTANT REP  INTERBUY INTERFUNK INTERVISION IRRADIO ITT ITV JC PENNEY  JCL JENSEN	1007, 1010, 1039, 1042, 1043, 1046, 1049  WORK SYSTEMS 1010 1044, 1050 1042 1046, 1050 1044, 1048 LAY 1004 1045 1046, 1047 1042 1045, 1050 1043, 1047 1045 1000, 1001, 1002, 1003, 1004, 1006 1004 1007	MTC MULTITECH  MURPHY NATIONAL NEC  NECKERMANI  NEI NESCO NIKKO NOBLEX NOKIA NORDMENDE  OCEANIC OKANO OLYMPUS OPTIMUS ORION	1004, 1008 1002, 1014 1002, 1005, 1006, 1042, 1046, 1050 1042 1048 1000, 1001, 1007, 1011, 1043, 1051 N 1043, 1046 1050 1003 1002, 1014 1043, 1047 1043 1042, 1043 1044 1004 1004 1003, 1008 1012, 1013, 1044, 1065	SABA SAISHO SALORA SAMSUNG  SANKY SANSUI SANYO  SBR SCHAUB LOR SCHNEIDER SCOTT SEARS  SEG SEI-SINUDYN SELECO	1043 1044, 1050 1047 1002, 1014, 1021, 1027, 1052, 1068, 1070 1008 1007, 1011, 1013, 1043 1001, 1002, 1014, 1046 ENZ 1042, 1043, 1047 1046, 1050 1012 1001, 1003, 1004, 1010 1050 E 1046 1043	VIDEO CONCI VIDEO CONCI VIDEOSONIC WARDS  WELTBLICK WHITE WEST!  XR-1000 YAMAHA YAMISHI YOKAN YOKO ZENITH  DVD  ACOUSTIC SO	EARCH 1000 EPTS 1000 1044, 1048 1002, 1014 1002, 1003, 1004, 1005, 1006, 1008, 1010, 1014 1045 INGHOUSE 1013 1004, 1005, 1006 1000, 1001, 1007 1050 1045, 1050 1013, 1026, 1037
HITACHI  HUGHES NET  HYPSON IMPERIAL INNO HIT INNOVATION INSTANT REP  INTERBUY INTERFUNK INTERVISION IRRADIO ITT ITV JC PENNEY  JCL JENSEN	1007, 1010, 1039, 1042, 1043, 1046, 1049 WORK SYSTEMS 1010 1044, 1050 1042 1046, 1050 1044, 1048 LAY 1004 1045, 1050 1044, 1047 1042 1045, 1050 1043, 1047 1045 1000, 1001, 1002, 1003, 1004, 1006 1004 1007 1000, 1001, 1007,	MTC MULTITECH  MURPHY NATIONAL NEC  NECKERMANI NEI NESCO NIKKO NOBLEX NOKIA NORDMENDE  OCEANIC OKANO OLYMPUS OPTIMUS ORION ORSON	1004, 1008 1002, 1014 1002, 1005, 1006, 1042, 1046, 1050 1042 1048 1000, 1001, 1007, 1011, 1043, 1051 N 1043, 1046 1050 1003 1002, 1014 1043, 1047 1043 1044, 1043 1044 1004 1004 1003 1002, 1014 1043, 1047	SABA SAISHO SALORA SAMSUNG  SANKY SANSUI  SANYO  SBR SCHAUB LOR  SCHNEIDER  SCOTT SEARS  SEG SEI-SINUDYN  SELECO SENTRON	1043 1044, 1050 1047 1002, 1014, 1021, 1027, 1052, 1068, 1070 1008 1007, 1011, 1013, 1043 1001, 1002, 1014, 1046 ENZ 1042, 1043, 1047 1042, 1044, 1045, 1046, 1050 1012 1001, 1003, 1004, 1010 1050 E 1046 1043 1043 1043 1050	VICTOR RESI VIDEO CONCI VIDEON VIDEOSONIC WARDS  WELTBLICK WHITE WEST!  XR-1000 YAMAHA YAMISHI YOKAN YOKO ZENITH  DVD  ACOUSTIC SCI	EARCH 1000 EPTS 1000 1044, 1048 1002, 1014 1002, 1003, 1004, 1005, 1006, 1008, 1010, 1014 1045 INGHOUSE 1013 1004, 1005, 1006 1000, 1001, 1007 1050 1045, 1050 1045, 1050 1013, 1026, 1037
HITACHI  HUGHES NET  HYPSON IMPERIAL INNO HIT INNOVATION INSTANT REP  INTERBUY INTERFUNK INTERVISION IRRADIO ITT ITV JC PENNEY  JCL JENSEN	1007, 1010, 1039, 1042, 1043, 1046, 1049  WORK SYSTEMS 1010 1044, 1050 1042 1046, 1050 1044, 1048  LAY 1004 1045 1046, 1047 1042 1045, 1050 1043, 1047 1045 1000, 1001, 1002, 1003, 1004, 1006 1004 1007 1000, 1001, 1007, 1011, 1017, 1036,	MTC MULTITECH  MURPHY NATIONAL NEC  NECKERMANI NEI NESCO NIKKO NOBLEX NOKIA NORDMENDE  OCEANIC OKANO OLYMPUS OPTIMUS ORION  ORSON OSAKI	1004, 1008 1002, 1014 1002, 1005, 1006, 1042, 1046, 1050 1042 1048 1000, 1001, 1007, 1011, 1043, 1051 N 1043, 1046 1050 1003 1002, 1014 1043, 1047 1043 1044, 1043 1044 1004 1004 1003 1002, 1014 1043, 1047	SABA SAISHO SALORA SAMSUNG  SANKY SANSUI  SANYO  SBR SCHAUB LOR  SCHNEIDER  SCOTT SEARS  SEG SEI-SINUDYN  SELECO SENTRON	1043 1044, 1050 1047 1002, 1014, 1021, 1027, 1052, 1068, 1070 1008 1007, 1011, 1013, 1043 1001, 1002, 1014, 1046 ENZ 1042, 1043, 1047 1042, 1044, 1045, 1046, 1050 1012 1001, 1003, 1004, 1010 1050 E 1046 1043 1050 1048, 1023, 1028,	VIDEO CONCI VIDEO CONCI VIDEOSONIC WARDS  WELTBLICK WHITE WEST!  XR-1000 YAMAHA YAMISHI YOKAN YOKO ZENITH  DVD  ACOUSTIC SO	EARCH 1000 EPTS 1000 1044, 1048 1002, 1014 1002, 1004, 1005, 1006, 1008, 1010, 1014 1045 INGHOUSE 1013 1004, 1005, 1006 1000, 1001, 1007 1050 1050 1013, 1026, 1037  DLUTIONS 2078 2055, 2100 2096 2076, 2078, 2086
HITACHI  HUGHES NET  HYPSON IMPERIAL INNO HIT INNOVATION INSTANT REP  INTERBUY INTERFUNK INTERVISION IRRADIO ITT ITV JC PENNEY  JCL JENSEN JVC  KAISUI KARCHER	1007, 1010, 1039, 1042, 1043, 1046, 1049  WORK SYSTEMS 1010 1044, 1050 1042 1046, 1050 1044, 1048  LAY 1004 1045 1046, 1047 1042 1045, 1050 1043, 1047 1045 1000, 1001, 1002, 1003, 1004, 1006 1004 1007 1000, 1001, 1007, 1011, 1017, 1036, 1043 1050 1046	MTC MULTITECH  MURPHY NATIONAL NEC  NECKERMANI  NEI NESCO NIKKO NOBLEX NOKIA NORDMENDE  OCEANIC OKANO OLYMPUS OPTIMUS ORION  ORSON OSAKI OTTO VERSAN	1004, 1008 1002, 1014 1002, 1005, 1006, 1042, 1046, 1050 1048 1048 1000, 1001, 1007, 1011, 1043, 1051 N 1043, 1046 1046 1050 1003 1002, 1014 1043, 1047 1043 1042, 1043 1044 1004 1003, 1008 1012, 1013, 1044, 1065 1042, 1013, 1044, 1065 1042, 1045, 1050 ND	SABA SAISHO SALORA SAMSUNG  SANKY SANSUI  SANYO  SBR SCHAUB LOR SCHNEIDER  SCOTT SEARS  SEG SEI-SINUDYN  SELECO SENTRON SHARP	1043 1044, 1050 1047 1002, 1014, 1021, 1027, 1052, 1068, 1070 1008 1007, 1011, 1013, 1043 1001, 1002, 1014, 1046 ENZ 1042, 1043, 1047 1042, 1044, 1045, 1046, 1050 1012 1001, 1003, 1004, 1010 1050 E 1046 1043 1050 108, 1023, 1028, 1053, 1073	VIDEO CONCI VIDEO CONCI VIDEOSONIC WARDS  WELTBLICK WHITE WEST!  XR-1000 YAMAHA YAMISHI YOKAN YOKO ZENITH  DVD  ACOUSTIC SCI AIWA AKAI AKURA ALBA APEX	EARCH 1000 EPTS 1000 1044, 1048 1002, 1014 1002, 1014 1005, 1006, 1008, 1010, 1014 1045 INGHOUSE 1013 1004, 1005, 1006 1000, 1001, 1007 1050 1050 1013, 1026, 1037  ELUTIONS 2078 2055, 2100 2096 2076
HITACHI HUGHES NET HYPSON IMPERIAL INNO HIT INNOVATION INSTANT REP INTERBUY INTERFUNK INTERVISION IRRADIO ITT ITV JC PENNEY JCL JENSEN JVC KAISUI	1007, 1010, 1039, 1042, 1043, 1046, 1049  WORK SYSTEMS 1010 1044, 1050 1042 1046, 1050 1044, 1048  LAY 1004 1045 1046, 1047 1042 1045, 1050 1043, 1047 1045 1000, 1001, 1002, 1003, 1004, 1006 1004 1007 1000, 1001, 1007, 1011, 1017, 1036, 1043 1050	MTC MULTITECH  MURPHY NATIONAL NEC  NECKERMANI  NEI NESCO NIKKO NOBLEX NOKIA NORDMENDE  OCEANIC OKANO OLYMPUS OPTIMUS ORION  ORSON OSAKI OTTO VERSAN	1004, 1008 1002, 1014 1002, 1005, 1006, 1042, 1046, 1050 1042 1048 1000, 1001, 1007, 1011, 1043, 1051 N 1043, 1046 1050 1003 1002, 1014 1043, 1047 1043 1042, 1043 1044 1004 1003, 1008 1012, 1013, 1044, 1065 1042 1042, 1045, 1050 ND 1046	SABA SAISHO SALORA SAMSUNG  SANKY SANSUI  SANYO  SBR SCHAUB LOR SCHNEIDER  SCOTT SEARS  SEG SEI-SINUDYN  SELECO SENTRON SHARP SHINTOM	1043 1044, 1050 1047 1002, 1014, 1021, 1027, 1052, 1068, 1070 1008 1007, 1011, 1013, 1043 1001, 1002, 1014, 1047 1046 ENZ 1042, 1043, 1047 1042, 1044, 1045, 1046, 1050 1012 1001, 1003, 1004, 1010 1050 E 1046 1043 1050 108, 1023, 1028, 1053, 1073 1006, 1047, 1050	VIDEO CONCIVIDEON VIDEON VIDEOSONIC WARDS  WELTBLICK WHITE WESTI XR-1000 YAMAHA YAMISHI YOKAN YOKO ZENITH  DVD  ACOUSTIC SOLAIWA AKAI AKURA ALBA	EARCH 1000 EPTS 1000 1044, 1048 1002, 1014 1002, 1004, 1005, 1006, 1008, 1010, 1014 1045 INGHOUSE 1013 1004, 1005, 1006 1000, 1001, 1007 1050 1050 1013, 1026, 1037  DLUTIONS 2078 2055, 2100 2096 2076, 2078, 2086

	2078	ORAVA	2075	YAMADA	2077	NIVEUS MED	IA
BRAINWAVE	2096	P&B	2075	YAMAHA	2000, 2001, 2003,		2132
BRANDT	2073, 2085	PACIFIC	2074		2030, 2101	NORTHGATE	
BROKSONIC		PANASONIC	2030, 2040, 2054,	YUKAI	2078	PANASONIC	2015, 2016, 2017,
BUSH	2075, 2078, 2112		2057, 2105, 2110	ZENITH	2038, 2047, 2073		2120
CENTREX	2077	PHILIPS	2019, 2026, 2046,			PHILIPS	2117, 2121, 2123,
CLASSIC	2078	DIONEED	2073, 2081, 2090			DIONEED	2128
CLATRONIC COBY	2075	PIONEER	2036, 2082	DVD-DVR		PIONEER	2012, 2013, 2014 2129
C-TECH	2078 2074	PROLINE PROVISION	2077 2075	PANASONIC	2067	PROSCAN RCA	2116, 2124, 2129,
CYBERHOME		RCA	2031, 2042, 2050,	PIONEER	2114	KCA	2110, 2124, 2129, 2133
CIBERTION	2025, 2079, 2091	Rezi	2051, 2012, 2030,	SAMSUNG	2115	REPLAYTV	2118, 2119, 2120
DAEWOO	2092, 2098	RED STAR	2076	TOSHIBA	2068	SHARP	2009, 2010
DANSAI	2096	REOC	2074			SONIC BLUE	
DAYTEK	2080, 2089	ROADSTAR	2075, 2078, 2086			SONY	2005, 2006, 2007,
DEC	2075	ROWA	2077	DVD/LD C	OMBO		2122, 2130, 2131,
DENON	2030, 2102, 2103	SABA	2085				2132
DENVER	2075, 2076	SABAKI	2074	PIONEER	2036	STACK 9	2132
DIAMOND	2074	SAMSUNG	2032, 2041, 2104,			SYSTEMAX	2132
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DUAL	2078	SANSUI	2074	APEX	2024		2132
D-VISION	2096	SANYO	2095	JVC	2070	TIVO	2116, 2121, 2122,
DVX	2074	SCANMAGIC		LG	2071		2123, 2130, 2131
ELTA	2096	SCIENTIFIC L		PANASONIC	2020, 2065, 2066,	TOSHIBA	2004, 2125, 2132
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FUNAI	2052, 2058	SCOTT	2088	PHILIPS	2019, 2061, 2062,	ULTIMATETV	
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GLOBAL SPH		SHAKE	2034, 2043, 2059, 2093, 2106	PIONEER	2021	YAMAHA	2011
GEOD/IE GI II	2074	SILVA	2076	RCA	2018	ZT GROUP	2132
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GRUNDIG	2077, 2098	SKYMASTER		TOSHIBA	2068		
H&B	2075	SKYWORTH	2076	YAMAHA	2023	I D DI AVE	
HAAZ	2074	SM ELECTRO	NIC	YUKAI	2069	LD PLAYE	
	2078		2074, 2078			YAMAHA	2002
HE			2014, 2010				
HITACHI	2032, 2072	SONY	2028, 2029, 2039,				
	2032, 2072 TRONICS		2028, 2029, 2039, 2083, 2107	DVR			
HITACHI HOME ELECT	2032, 2072 FRONICS 2078	SONY SOUNDMAST	2028, 2029, 2039, 2083, 2107 ER	DVR ABS	2132	CD PLAYE	:R
HITACHI HOME ELECT INNOVATION	2032, 2072 FRONICS 2078 2072	SOUNDMAST	2028, 2029, 2039, 2083, 2107 ER 2074			_	
HITACHI HOME ELECT INNOVATION IRRADIO	2032, 2072 FRONICS 2078 2072 2134	SOUNDMAST SOUNDMAX	2028, 2029, 2039, 2083, 2107 ER 2074 2074	ABS	2132	CD PLAYE	FR 5000, 5013
HITACHI HOME ELECT INNOVATION IRRADIO JDB	2032, 2072 FRONICS 2078 2072 2134 2078	SOUNDMAST SOUNDMAX STANDARD	2028, 2029, 2039, 2083, 2107 ER 2074 2074 2074	ABS ALIENWARE CYBERPOWE	2132 ER 2132	_	
HITACHI HOME ELECT INNOVATION IRRADIO	2032, 2072 FRONICS 2078 2072 2134 2078 2033, 2045, 2053,	SOUNDMAST SOUNDMAX	2028, 2029, 2039, 2083, 2107 TER 2074 2074 2074 ER	ABS ALIENWARE CYBERPOWE DELL	2132 ER 2132 2132	YAMAHA	5000, 5013
HITACHI HOME ELECT INNOVATION IRRADIO JDB JVC	2032, 2072 FRONICS 2078 2072 2134 2078 2033, 2045, 2053, 2073, 2099	SOUNDMAST SOUNDMAX STANDARD STAR CLUSTI	2028, 2029, 2039, 2083, 2107 ER 2074 2074 2074 ER 2074	ABS ALIENWARE CYBERPOWE	2132 ER 2132 2132 2123, 2128, 2129,	YAMAHA  CD RECOI	5000, 5013
HITACHI HOME ELECT INNOVATION IRRADIO JDB JVC KENWOOD	2032, 2072 PRONICS 2078 2072 2134 2078 2033, 2045, 2053, 2073, 2099 2030, 2097	SOUNDMAST SOUNDMAX STANDARD STAR CLUSTI STARMEDIA	2028, 2029, 2039, 2083, 2107 ER 2074 2074 2074 ER 2074 ER 2074	ABS ALIENWARE CYBERPOWE DELL DIRECTV	2132 ER 2132 2132 2123, 2128, 2129, 2133	YAMAHA	5000, 5013
HITACHI HOME ELECT INNOVATION IRRADIO JDB JVC KENWOOD KINGAVON	2032, 2072 TRONICS 2078 2072 2134 2078 2033, 2045, 2053, 2073, 2099 2030, 2097 2075	SOUNDMAST SOUNDMAX STANDARD STAR CLUSTI	2028, 2029, 2039, 2083, 2107 **ER 2074 2074 2074 ER 2074 ER 2074	ABS ALIENWARE CYBERPOWE DELL	2132 PR 2132 2132 2123, 2128, 2129, 2133 PRK	YAMAHA  CD RECOI	5000, 5013
HITACHI HOME ELECT INNOVATION IRRADIO JDB JVC KENWOOD	2032, 2072 PRONICS 2078 2072 2134 2078 2033, 2045, 2053, 2073, 2099 2030, 2097	SOUNDMAST SOUNDMAX STANDARD STAR CLUSTI STARMEDIA	2028, 2029, 2039, 2083, 2107 ER 2074 2074 2074 ER 2074 ER 2074	ABS ALIENWARE CYBERPOWE  DELL DIRECTV  DISH NETWO	2132 IR 2132 2132 2123, 2128, 2129, 2133 DRK 2126, 2127	YAMAHA  CD RECOI	5000, 5013
HITACHI HOME ELECT INNOVATION IRRADIO JDB JVC KENWOOD KINGAVON KODA	2032, 2072 TRONICS 2078 2072 2134 2078 2078 2033, 2045, 2053, 2073, 2099 2030, 2097 2075	SOUNDMAST SOUNDMAX STANDARD STAR CLUSTI STARMEDIA SUPERVISION	2028, 2029, 2039, 2083, 2107 **ER 2074 2074 2074 EER 2074 2075 ** 2074, 2078	ABS ALIENWARE CYBERPOWE  DELL DIRECTV  DISH NETWO	2132 R 2132 2132 2123, 2128, 2129, 2133 RK 2126, 2127 2126	YAMAHA  CD RECOI	5000, 5013
HITACHI HOME ELECT INNOVATION IRRADIO JDB JVC KENWOOD KINGAVON KODA LAWSON	2032, 2072 TRONICS 2078 2072 2134 2078 2033, 2045, 2053, 2073, 2099 2030, 2097 2075 2075 2074	SOUNDMAST SOUNDMAX STANDARD STAR CLUSTI STARMEDIA SUPERVISION SYLVANIA	2028, 2029, 2039, 2083, 2107 ER 2074 2074 2074 2074 ER 2074 2075 V 2074, 2078 2052, 2058	ABS ALIENWARE CYBERPOWE  DELL DIRECTV  DISH NETWO  DISHPRO ECHOSTAR	2132 IR 2132 2132 2123, 2128, 2129, 2133 IRK 2126, 2127 2126 2126, 2127	CD RECOI YAMAHA	5000, 5013 <b>RDER</b> 5001
HITACHI HOME ELECT INNOVATION IRRADIO JDB JVC KENWOOD KINGAVON KODA LAWSON LENCO	2032, 2072 PRONICS 2078 2072 2134 2078 2033, 2045, 2053, 2073, 2099 2030, 2097 2075 2075 2074 2075	SOUNDMAST SOUNDMAX STANDARD STAR CLUSTI STARMEDIA SUPERVISION SYLVANIA SYNN	2028, 2029, 2039, 2083, 2107 ER 2074 2074 2074 2074 ER 2074 2075 V 2074, 2078 2052, 2058 2074	ABS ALIENWARE CYBERPOWE  DELL DIRECTV  DISH NETWO  DISHPRO ECHOSTAR EXPRESSVU	2132 IR 2132 2132 2132, 2128, 2129, 2133 IRK 2126, 2127 2126 2126, 2127 2126	YAMAHA  CD RECOI YAMAHA	5000, 5013
HITACHI HOME ELECT INNOVATION IRRADIO JDB JVC  KENWOOD KINGAVON KODA LAWSON LENCO LG LIFETEC LIMIT	2032, 2072 CRONICS 2078 2072 2134 2078 2033, 2045, 2053, 2073, 2099 2030, 2097 2075 2074 2075 2084, 2087 2072 2074	SOUNDMAST SOUNDMAX STANDARD STAR CLUSTI STARMEDIA SUPERVISION SYLVANIA SYNN TCM TEAC TEC	2028, 2029, 2039, 2083, 2107 'ER 2074 2074 2074 ER 2074 2075 V 2074, 2078 2052, 2058 2074 2072 2074 2076	ABS ALIENWARE CYBERPOWE  DELL DIRECTV  DISH NETWO  DISHPRO ECHOSTAR	2132 IR 2132 2132 2123, 2128, 2129, 2133 IRK 2126, 2127 2126 2126, 2127	CD RECOI YAMAHA	5000, 5013 <b>RDER</b> 5001
HITACHI HOME ELECT INNOVATION IRRADIO JDB JVC KENWOOD KINGAVON KODA LAWSON LENCO LG LIFETEC	2032, 2072 FRONICS 2078 2072 2134 2078 2033, 2045, 2053, 2073, 2099 2030, 2097 2075 2075 2074 2075 2084, 2087 2072	SOUNDMAST SOUNDMAX STANDARD STAR CLUSTI STARMEDIA SUPERVISION SYLVANIA SYNN TCM TEAC	2028, 2029, 2039, 2083, 2107 'ER 2074 2074 2074 ER 2074 2075 V 2074, 2078 2052, 2058 2074 2072 2074 2076 2030	ABS ALIENWARE CYBERPOWE  DELL DIRECTV  DISH NETWO  DISHPRO ECHOSTAR EXPRESSVU GATEWAY	2132 R 2132 2132 2123, 2128, 2129, 2133 PKK 2126, 2127 2126 2126, 2127 2126 2132 2132	YAMAHA  CD RECOI YAMAHA  MD YAMAHA	5000, 5013  RDER 5001  5002, 5003, 5004
HITACHI HOME ELECT INNOVATION IRRADIO JDB JVC  KENWOOD KINGAVON KODA LAWSON LENCO LG LIFETEC LIMIT LOGICLAB LUXOR	2032, 2072 PRONICS 2078 2072 2134 2078 2033, 2045, 2053, 2073, 2099 2030, 2097 2075 2074 2075 2084, 2087 2072 2074 2074 2074 2074 2077	SOUNDMAST SOUNDMAX STANDARD STAR CLUSTI STARMEDIA SUPERVISION SYLVANIA SYNN TCM TEAC TEC TECHNICS TECHNIKA	2028, 2029, 2039, 2083, 2107 TER 2074 2074 2074 2075 V 2074, 2078 2052, 2058 2074, 2072 2074 2076 2076 2030 2096	ABS ALIENWARE CYBERPOWE  DELL DIRECTV  DISH NETWO  ECHOSTAR EXPRESSVU GATEWAY GOI	2132 R 2132 2132 2123, 2128, 2129, 2133 PKK 2126, 2127 2126 2126, 2127 2126 2132 2132	CD RECOI YAMAHA	5000, 5013  RDER 5001  5002, 5003, 5004
HITACHI HOME ELECT INNOVATION IRRADIO JDB JVC KENWOOD KINGAVON KODA LAWSON LENCO LG LIFETEC LIMIT LOGICLAB LUXOR MAGNAVOX	2032, 2072 PRONICS 2078 2072 2134 2078 2033, 2045, 2053, 2073, 2099 2030, 2097 2075 2074 2075 2084, 2087 2072 2074 2077 2077 2077 2037, 2073, 2075	SOUNDMAST SOUNDMAX STANDARD STAR CLUSTI STARMEDIA SUPERVISION SYLVANIA SYNN TCM TEAC TEC TECHNICS	2028, 2029, 2039, 2083, 2107 ER 2074 2074 2074 2075 V 2074, 2078 2052, 2058 2074 2072 2074 2076 2030 2096 IC	ABS ALIENWARE CYBERPOWE  DELL DIRECTV  DISH NETWO  ECHOSTAR EXPRESSVU GATEWAY GOI	2132 R 2132 2132 2123, 2128, 2129, 2133 DRK 2126, 2127 2126 2126, 2127 2126 2132 2126 CKARD	YAMAHA  CD RECOI YAMAHA  MD YAMAHA	5000, 5013  RDER 5001  5002, 5003, 5004
HITACHI HOME ELECT INNOVATION IRRADIO JDB JVC KENWOOD KINGAVON KODA LAWSON LENCO LG LIFETEC LIMIT LOGICLAB LUXOR MAGNAVOX MAGNAVOX	2032, 2072 PRONICS 2078 2072 2134 2078 2033, 2045, 2053, 2073, 2099 2030, 2097 2075 2075 2074 2075 2084, 2087 2072 2074 2077 2074 2077 2077 2037, 2073, 2075 2087, 2075 2074	SOUNDMAST SOUNDMAX STANDARD STAR CLUSTI STARMEDIA SUPERVISION SYLVANIA SYNN TCM TEAC TEC TECHNICS TECHNICS TECHNIKA TECHNOSON	2028, 2029, 2039, 2083, 2107 ER 2074 2074 2074 ER 2074 2075 V 2074, 2078 2052, 2058 2074 2072 2074 2076 2030 2096 IC 2096	ABS ALIENWARE CYBERPOWE  DELL DIRECTV  DISH NETWO  DISHPRO ECHOSTAR EXPRESSVU GATEWAY GOI HEWLETT PA	2132 R 2132 2132 2123, 2128, 2129, 2133 RK 2126, 2127 2126 2126, 2127 2126 2132 2126 CKARD 2132 2008	YAMAHA  CD RECOI YAMAHA  MD YAMAHA  TAPE DEC	5000, 5013  RDER 5001  5002, 5003, 5004
HITACHI HOME ELECT INNOVATION IRRADIO JDB JVC KENWOOD KINGAVON KODA LAWSON LENCO LG LIFETEC LIMIT LOGICLAB LUXOR MAGNAVOX MAGNUM MBO	2032, 2072 FRONICS 2078 2072 2134 2078 2033, 2045, 2053, 2073, 2099 2030, 2097 2075 2075 2074 2075 2084, 2087 2072 2074 2077 2037, 2073, 2075 2087, 2072 2074 2077 2037, 2073, 2075 2072 2078	SOUNDMAST SOUNDMAX STANDARD STAR CLUSTI STARMEDIA SUPERVISION SYLVANIA SYNN TCM TEAC TEC TECHNICS TECHNIKA TECHNOSON TEVION	2028, 2029, 2039, 2083, 2107 'ER 2074 2074 2074 2075 V 2074, 2078 2074, 2078 2052, 2058 2074 2072 2074 2076 2030 2096 IC 2096 2072, 2074	ABS ALIENWARE CYBERPOWE  DELL DIRECTV  DISH NETWO  ECHOSTAR EXPRESSVU GATEWAY GOI HEWLETT PA  HITACHI HOWARD CO	2132 R 2132 2132 2132 2123, 2128, 2129, 2133 PRK 2126, 2127 2126 2126, 2127 2126 2132 2126 CKARD 2132 2008 MPUTERS 2132	YAMAHA  CD RECOLYAMAHA  MD YAMAHA  TAPE DEC YAMAHA	5000, 5013  RDER 5001  5002, 5003, 5004
HITACHI HOME ELECT INNOVATION IRRADIO JDB JVC  KENWOOD KINGAVON KODA LAWSON LENCO LG LIFETEC LIMIT LOGICLAB LUXOR MAGNAVOX MAGNUM MBO MEDION	2032, 2072 PRONICS 2078 2072 2134 2078 2033, 2045, 2053, 2073, 2099 2030, 2097 2075 2074 2075 2084, 2087 2074 2077 2077 2077 2077 2077 2077 207	SOUNDMAST SOUNDMAX STANDARD STAR CLUSTI STARMEDIA SUPERVISION SYLVANIA SYNN TCM TEAC TEC TECHNICS TECHNICS TECHNIKA TECHNOSON TEVION THOMSON	2028, 2029, 2039, 2083, 2107 **ER** 2074* 2074* 2074 ER** 2074 2075 N 2074, 2078 2052, 2058 2074 2072 2074 2076 2030 2096 IC 2096 2072, 2074 2076 2097, 2074 2076 2030 2096 IC	ABS ALIENWARE CYBERPOWE  DELL DIRECTV  DISH NETWO  DISHPRO ECHOSTAR EXPRESSVU GATEWAY GOI HEWLETT PA  HITACHI HOWARD CO.	2132 R 2132 2132 2132 2123, 2128, 2129, 2133 PRK 2126, 2127 2126 2126, 2127 2126 2132 2126 CKARD 2132 2008 MPUTERS 2132 2126	YAMAHA  CD RECOI YAMAHA  MD YAMAHA  TAPE DEC	5000, 5013  RDER 5001  5002, 5003, 5004
HITACHI HOME ELECT INNOVATION IRRADIO JDB JVC  KENWOOD KINGAVON KODA LAWSON LENCO LG LIFETEC LIMIT LOGICLAB LUXOR MAGNAVOX MAGNUM MBO	2032, 2072 PRONICS 2078 2072 2134 2078 2033, 2045, 2053, 2073, 2099 2030, 2097 2075 2074 2075 2074 2075 2074 2077 2037, 2079 2077 2037, 2073, 2075 2072 2074 2077 2037, 2073, 2075 2072 2078 2078 2078 2078 2078 2078 2078	SOUNDMAST SOUNDMAX STANDARD STAR CLUSTI STARMEDIA SUPERVISION SYLVANIA SYNN TCM TEAC TEC TECHNICS TECHNICS TECHNIKA TECHNOSON TEVION THOMSON TOKAI	2028, 2029, 2039, 2083, 2107 **TER** 2074 2074 2074 2074 2075 **N* 2074, 2078 2052, 2058 2074 2072 2074 2076 2030 2096 IC 2096 2072, 2074 2085, 2109 2076	ABS ALIENWARE CYBERPOWE  DELL DIRECTV  DISH NETWO  DISHPRO ECHOSTAR EXPRESSVU GATEWAY GOI HEWLETT PA HITACHI HOWARD CO.  HTS HUGHES	2132 R 2132 2132 2132 2128, 2129, 2133 DRK 2126, 2127 2126 2126, 2127 2126 2132 2126 CKARD 2132 2008 MPUTERS 2132 2126 2123, 2126 2123, 2128	YAMAHA  CD RECOI YAMAHA  MD YAMAHA  TAPE DEC YAMAHA  TUNER	5000, 5013  RDER 5001  5002, 5003, 5004  EK 5005, 5006
HITACHI HOME ELECT INNOVATION IRRADIO JDB JVC  KENWOOD KINGAVON KODA LAWSON LENCO LG LIFETEC LIMIT LOGICLAB LUXOR MAGNAVOX MAGNUM MBO MEDION MICROMAXX	2032, 2072 PRONICS 2078 2072 2134 2078 2033, 2045, 2053, 2073, 2099 2030, 2097 2075 2074 2075 2084, 2087 2074 2077 2037, 2079, 2075 2074 2077 2037, 2073, 2075 2072 2078 2072 2078 2072 2078 2072 2078 2072 2078	SOUNDMAST SOUNDMAX STANDARD STAR CLUSTI STARMEDIA SUPERVISION SYLVANIA SYNN TCM TEAC TEC TECHNICS TECHNICS TECHNIKA TECHNOSON TEVION THOMSON	2028, 2029, 2039, 2083, 2107 **TER** 2074 2074 2074 2074 2075 **N 2074, 2078 2052, 2058 2074 2072 2074 2072 2074 2076 2030 2096 IC 2096 2072, 2074 2085, 2109 2076 2026, 2044, 2048,	ABS ALIENWARE CYBERPOWE  DELL DIRECTV  DISH NETWO  DISHPRO ECHOSTAR EXPRESSVU GATEWAY GOI HEWLETT PA HITACHI HOWARD CO  HTS HUGHES HUMAX	2132 R 2132 2132 2132 2123, 2128, 2129, 2133 DRK 2126, 2127 2126 2126, 2127 2126 2132 2126 CCKARD 2132 2008 MPUTERS 2132 2126 2123, 2128 2123	YAMAHA  CD RECOLYAMAHA  MD YAMAHA  TAPE DEC YAMAHA	5000, 5013  RDER 5001  5002, 5003, 5004  EK 5005, 5006
HITACHI HOME ELECT INNOVATION IRRADIO JDB JVC  KENWOOD KINGAVON KODA LAWSON LENCO LG LIFETEC LIMIT LOGICLAB LUXOR MAGNAVOX MAGNUM MBO MEDION	2032, 2072 PRONICS 2078 2072 2134 2078 2033, 2045, 2053, 2073, 2099 2030, 2097 2075 2074 2075 2084, 2087 2072 2074 2077 2037, 2073, 2075 2074 2077 2037, 2073, 2075 2072 2078 2072 2078 2072 2078 2072 2078 2072 2072	SOUNDMAST SOUNDMAX STANDARD STAR CLUSTI STARMEDIA SUPERVISION SYLVANIA SYNN TCM TEAC TEC TECHNICS TECHNICS TECHNIKA TECHNOSON TEVION THOMSON TOKAI	2028, 2029, 2039, 2083, 2107 ER 2074 2074 2074 2074 2075 V 2074, 2078 2052, 2058 2074 2072 2074 2076 2030 2096 IC 2096 2072, 2074 2085, 2109 2076 2026, 2044, 2048, 2056, 2073, 2108,	ABS ALIENWARE CYBERPOWE  DELL DIRECTV  DISH NETWO  DISHPRO ECHOSTAR EXPRESSVU GATEWAY GOI HEWLETT PA HITACHI HOWARD CO  HTS HUGHES HUMAX HUSH	2132 R 2132 2132 2133 2123, 2128, 2129, 2133 RK 2126, 2127 2126 2126, 2127 2126 2132 2126 CKARD 2132 2008 MPUTERS 2132 2126 2123, 2128 2126 2123, 2128 2123	YAMAHA  CD RECOI YAMAHA  MD YAMAHA  TAPE DEC YAMAHA  TUNER	5000, 5013  RDER 5001  5002, 5003, 5004  EK 5005, 5006
HITACHI HOME ELECT INNOVATION IRRADIO JDB JVC  KENWOOD KINGAVON KODA LAWSON LENCO LG LIFETEC LIMIT LOGICLAB LUXOR MAGNAVOX MAGNUM MBO MEDION MICROMAXX	2032, 2072 PRONICS 2078 2072 2134 2078 2033, 2045, 2053, 2073, 2099 2030, 2097 2075 2074 2075 2084, 2087 2074 2077 2037, 2079, 2075 2074 2077 2037, 2073, 2075 2072 2078 2072 2078 2072 2078 2072 2078 2072 2078	SOUNDMAST SOUNDMAX STANDARD STAR CLUSTI STARMEDIA SUPERVISION SYLVANIA SYNN TCM TEAC TEC TECHNICS TECHNICS TECHNIKA TECHNOSON TEVION THOMSON TOKAI	2028, 2029, 2039, 2083, 2107 **TER** 2074 2074 2074 2074 2075 **N 2074, 2078 2052, 2058 2074 2072 2074 2072 2074 2076 2030 2096 IC 2096 2072, 2074 2085, 2109 2076 2026, 2044, 2048,	ABS ALIENWARE CYBERPOWE  DELL DIRECTV  DISH NETWO  ECHOSTAR EXPRESSVU GATEWAY GOI HEWLETT PA  HITACHI HOWARD CO  HTS HUGHES HUMAX HUSH IBUYPOWER	2132 R 2132 2132 2132 2123, 2128, 2129, 2133 PRK 2126, 2127 2126 2126 2122 2126 2132 2126 CKARD 2132 2008 MPUTERS 2132 2126 2123, 2128 2123 2132 2132	YAMAHA  CD RECOLYAMAHA  MD YAMAHA  TAPE DEC YAMAHA  TUNER YAMAHA	5000, 5013  RDER 5001  5002, 5003, 5004  EK 5005, 5006  5007, 5008, 5009, 5010, 5012, 5014
HITACHI HOME ELECT INNOVATION IRRADIO JDB JVC KENWOOD KINGAVON KODA LAWSON LENCO LG LIFETEC LIMIT LOGICLAB LUXOR MAGNAVOX MAGNUM MBO MEDION MICROMAXX MICROMEDIA	2032, 2072 FRONICS 2078 2072 2134 2078 2033, 2045, 2053, 2073, 2099 2030, 2097 2075 2075 2074 2075 2084, 2087 2072 2074 2077 2037, 2073, 2075 2072 2074 2077 2037, 2073, 2075 2072 2078 2072 2078 2072 4 2072 4 2073 2072 4	SOUNDMAST SOUNDMAX STANDARD STAR CLUSTI STARMEDIA SUPERVISION SYLVANIA SYNN TCM TEAC TEC TECHNICS TECHNICS TECHNIKA TECHNOSON TEVION THOMSON TOKAI TOSHIBA	2028, 2029, 2039, 2083, 2107 ER 2074 2074 2074 2074 2075 V 2074, 2078 2052, 2058 2074 2076 2030 2096 IC 2096 2072, 2074 2085, 2109 2076 2030 2096 IC 2096 2072, 2074 2085, 2109 2076 2030, 2044, 2048, 2056, 2073, 2108, 2111	ABS ALIENWARE CYBERPOWE  DELL DIRECTV  DISH NETWO  DISHPRO ECHOSTAR EXPRESSVU GATEWAY GOI HEWLETT PA  HITACHI HOWARD CO  HTS HUGHES HUMAX HUSH IBUYPOWER JVC	2132 R 2132 2132 2132 2123, 2128, 2129, 2133 PRK 2126, 2127 2126 2126, 2127 2126 2132 2126 CKARD 2132 2008 MPUTERS 2132 2126 2123, 2128 2123 2132 2132 2132 2132 2132 2132	YAMAHA  CD RECOLY YAMAHA  MD YAMAHA  TAPE DEC YAMAHA  TUNER YAMAHA  OTHER AL	5000, 5013  RDER 5001  5002, 5003, 5004  EK 5005, 5006  5007, 5008, 5009, 5010, 5012, 5014  JDIO
HITACHI HOME ELECT INNOVATION IRRADIO JDB JVC KENWOOD KINGAVON KODA LAWSON LENCO LG LIFETEC LIMIT LOGICLAB LUXOR MAGNAVOX MAGNUM MBO MEDION MICROMAXX MICROMEDIA	2032, 2072 FRONICS 2078 2072 2134 2078 2033, 2045, 2053, 2073, 2099 2030, 2097 2075 2075 2074 2075 2084, 2087 2072 2074 2077 2037, 2073, 2075 2072 2074 2077 2037, 2073, 2075 2072 2078 2072 2078 2072 4 2072 4 2073 2072 4	SOUNDMAST SOUNDMAX STANDARD STAR CLUSTI STARMEDIA SUPERVISION SYLVANIA SYNN TCM TEAC TEC TECHNICS TECHNIKA TECHNOSON TEVION THOMSON TOKAI TOSHIBA UNITED	2028, 2029, 2039, 2083, 2107 **TER** 2074 2074 2074 2074 2074 2075 **N** 2074, 2078 2052, 2058 2074 2072 2074 2076 2030 2096 IC 2096 2072, 2074 2085, 2109 2076 2026, 2044, 2048, 2056, 2073, 2108, 2111 2078 2078	ABS ALIENWARE CYBERPOWE  DELL DIRECTV  DISH NETWO  DISHPRO ECHOSTAR EXPRESSVU GATEWAY GOI HEWLETT PA  HITACHI HOWARD CO.  HTS HUGHES HUMAX HUSH IBUYPOWER JVC LINKSYS	2132 R 2132 2132 2132 2128, 2129, 2133 PRK 2126, 2127 2126 2126, 2127 2126 2132 2126 CKARD 2132 2008 MPUTERS 2132 2126 2123, 2128 2123 2132 2132 2132 2132 2132 2132	YAMAHA  CD RECOLY YAMAHA  MD YAMAHA  TAPE DEC YAMAHA  TUNER YAMAHA  OTHER AL ACCESSO	5000, 5013  RDER 5001  5002, 5003, 5004  EK 5005, 5006  5007, 5008, 5009, 5010, 5012, 5014  JDIO
HITACHI HOME ELECT INNOVATION IRRADIO JDB JVC  KENWOOD KINGAVON KODA LAWSON LENCO LG LIFETEC LIMIT LOGICLAB LUXOR MAGNAVOX MAGNUM MBO MEDION MICROMAXX MICROMEDIA MICROSTAR MITSUBISHI MIZUDA MUSTEK	2032, 2072 PRONICS 2078 2078 2072 2134 2078 2033, 2045, 2053, 2073, 2099 2030, 2097 2075 2074 2075 2084, 2087 2077 2037, 2073, 2075 2074 2077 2037, 2073, 2075 2072 2078 2072 2078 2072 2078 2072 2073 2072 2073 2072 2078 2072 2078 2072 2078 2072 2078 2072 2078 2072 2078 2072 2078 2072 2078 2072 2078 2072 2078 2072 2078 2072 2078 2072 2078 2072 2078 2072 2078 2075 2078	SOUNDMAST SOUNDMAX STANDARD STAR CLUSTI STARMEDIA SUPERVISION SYLVANIA SYNN TCM TEAC TEC TECHNICS TECHNICS TECHNICS TECHNISON THOMSON TOKAI TOSHIBA UNITED VOXSON WHARFEDAL	2028, 2029, 2039, 2083, 2107 ER 2074 2074 2074 2074 ER 2074 2075 V 2074, 2078 2052, 2058 2074 2072 2074 2076 2030 2096 IC 2096 2072, 2074 2085, 2109 2076 2026, 2044, 2048, 2056, 2073, 2108, 2111 2078 2078 EE 2074	ABS ALIENWARE CYBERPOWE  DELL DIRECTV  DISH NETWO  DISHPRO ECHOSTAR EXPRESSVU GATEWAY GOI HEWLETT PA  HITACHI HOWARD CO  HTS HUGHES HUMAX HUSH IBUYPOWER JVC	2132 R 2132 2132 2132 2128, 2129, 2133 PRK 2126, 2127 2126 2126, 2127 2126 2132 2126 CKARD 2132 2008 MPUTERS 2132 2126 2123, 2128 2123 2132 2132 2132 2132 2132 2132	YAMAHA  CD RECOLY YAMAHA  MD YAMAHA  TAPE DEC YAMAHA  TUNER YAMAHA  OTHER AL ACCESSO YAMAHA	5000, 5013  RDER 5001  5002, 5003, 5004  EK 5005, 5006  5007, 5008, 5009, 5010, 5012, 5014  JDIO
HITACHI HOME ELECT INNOVATION IRRADIO JDB JVC KENWOOD KINGAVON KODA LAWSON LENCO LG LIFETEC LIMIT LOGICLAB LUXOR MAGNAVOX MAGNUM MBO MEDION MICROMAXX MICROMEDIA MICROSTAR MITSUBISHI MIZUDA MUSTEK NAIKO	2032, 2072 PRONICS 2078 2072 2134 2078 2033, 2045, 2053, 2073, 2099 2030, 2097 2075 2074 2075 2084, 2087 2074 2077 2037, 2073, 2075 2074 2077 2037, 2073, 2075 2072 2078 2072 24 2073 2072 24 2073 2072 2078 2072 2078 2072 2078 2072 2078 2072 2078 2072 2078 2072 2078 2072 2078 2072 2078 2072 2078 2072 2078 2072 2078 2072 2078 2077 2037, 2073 2072 2078 2072 2078 2077	SOUNDMAST SOUNDMAX STANDARD STAR CLUSTI STARMEDIA SUPERVISION SYLVANIA SYNN TCM TEAC TEC TECHNICS TECHNICS TECHNICS TECHNOSON TEVION THOMSON TOKAI TOSHIBA UNITED VOXSON WHARFEDAL XLOGIC	2028, 2029, 2039, 2083, 2107 ER 2074 2074 2074 2074 2075 V 2074, 2078 2052, 2058 2074 2072 2074 2076 2030 2096 IC 2096 2072, 2074 2085, 2109 2076 2026, 2044, 2048, 2056, 2073, 2108, 2111 2078 2078 LE 2074 2074	ABS ALIENWARE CYBERPOWE  DELL DIRECTV  DISH NETWO  DISHPRO ECHOSTAR EXPRESSVU GATEWAY GOI HEWLETT PA  HITACHI HOWARD CO.  HTS HUGHES HUMAX HUSH IBUYPOWER JVC LINKSYS	2132 R 2132 2132 2132 2123, 2128, 2129, 2133 PRK 2126, 2127 2126 2126, 2127 2126 2132 2126 CKARD 2132 2008 MPUTERS 2132 2126 2123, 2128 2123 2132 2123 2132 2132 2132 2132	YAMAHA  CD RECOLY YAMAHA  MD YAMAHA  TAPE DEC YAMAHA  TUNER YAMAHA  OTHER AL ACCESSO	5000, 5013  RDER 5001  5002, 5003, 5004  EK 5005, 5006  5007, 5008, 5009, 5010, 5012, 5014  JDIO RIES
HITACHI HOME ELECT INNOVATION IRRADIO JDB JVC  KENWOOD KINGAVON KODA LAWSON LENCO LG LIFETEC LIMIT LOGICLAB LUXOR MAGNAVOX MAGNUM MBO MEDION MICROMAXX MICROMEDIA MICROSTAR MITSUBISHI MIZUDA MUSTEK	2032, 2072 PRONICS 2078 2078 2072 2134 2078 2033, 2045, 2053, 2073, 2099 2030, 2097 2075 2074 2075 2084, 2087 2077 2037, 2073, 2075 2074 2077 2037, 2073, 2075 2072 2078 2072 2078 2072 2078 2072 2073 2072 2073 2072 2078 2072 2078 2072 2078 2072 2078 2072 2078 2072 2078 2072 2078 2072 2078 2072 2078 2072 2078 2072 2078 2072 2078 2072 2078 2072 2078 2072 2078 2075 2078	SOUNDMAST SOUNDMAX STANDARD STAR CLUSTI STARMEDIA SUPERVISION SYLVANIA SYNN TCM TEAC TEC TECHNICS TECHNICS TECHNICS TECHNISON THOMSON TOKAI TOSHIBA UNITED VOXSON WHARFEDAL	2028, 2029, 2039, 2083, 2107 ER 2074 2074 2074 2074 ER 2074 2075 V 2074, 2078 2052, 2058 2074 2072 2074 2076 2030 2096 IC 2096 2072, 2074 2085, 2109 2076 2026, 2044, 2048, 2056, 2073, 2108, 2111 2078 2078 EE 2074	ABS ALIENWARE CYBERPOWE  DELL DIRECTV  DISH NETWO  DISHPRO ECHOSTAR EXPRESSVU GATEWAY GOI HEWLETT PA HITACHI HOWARD CO  HTS HUGHES HUMAX HUSH IBUYPOWER JVC LINKSYS MEDIA CENT	2132 R 2132 2132 2132 2123, 2128, 2129, 2133 PRK 2126, 2127 2126 2126, 2127 2126 2132 2126 CKARD 2132 2008 MPUTERS 2132 2126 2123, 2128 2123 2132 2132 2132 2132 2132 2132	YAMAHA  CD RECOLY YAMAHA  MD YAMAHA  TAPE DEC YAMAHA  TUNER YAMAHA  OTHER AL ACCESSO YAMAHA	5000, 5013  RDER 5001  5002, 5003, 5004  EK 5005, 5006  5007, 5008, 5009, 5010, 5012, 5014  JDIO RIES

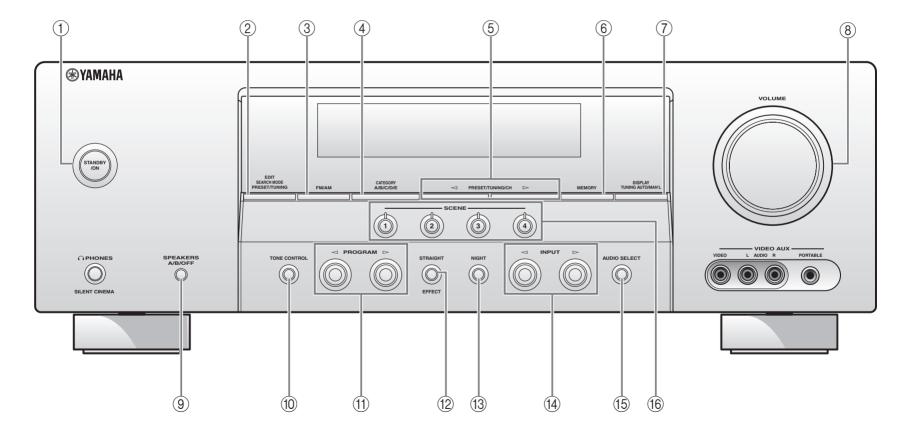




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The circled numbers and alphabets correspond to those in the Owner's Manual.

## ■ Front panel



### **■** Remote control

