



HTR-6030

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 overturn.

- 10 Ventilation Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.
- 11 Power Sources This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instructions.
- 12 Grounding or Polarization This product may be equipped with a polarized alternating current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.
- 13 Power-Cord Protection Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.
- 14 Lightning For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line
- 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,
 - b) If liquid has been spilled, or objects have fallen into the
 - c) If the product has been exposed to rain or water,

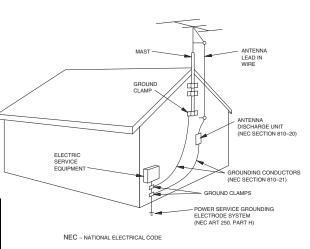
- d) If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore 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.

Contents

INTRODUCTION	
Features	2
Getting started	3
Quick start guide	4
Preparation: Check the items	
Step 1: Set up your speakers	5
Step 2: Connect your DVD player	
and other components	6
Step 3: Turn on the power and	
press SCENE 1 button	8
What do you want to do with this unit?	9

PREPARATION	
Connections	10
Rear panel	10
Placing speakers	11
Connecting speakers	12
Setting the speaker impedance	
(U.S.A. and Canada models only)	13
Information on jacks and cable plugs	14
Connecting video components	15
Connecting audio components	17
Connecting the FM and AM antennas	18
Connecting the power cable	18
Turning on and off the power	18
Front panel display	19
Basic setup	21

BASIC OPERATION	
Selecting the SCENE templates	23
Selecting the desired SCENE template	
Creating your original SCENE templates	
Playback	
Basic operations	27
Additional operations	28
Sound field programs	31
Sound field program descriptions	31
FM/AM tuning	34
Automatic tuning	34
Manual tuning	
Automatic preset tuning	35
Manual preset tuning	35
Selecting preset stations	36
Exchanging preset stations	36
XM Satellite Radio tuning	37
Connecting the XM Mini-Tuner Dock	
Activating XM Satellite Radio	
Basic XM Satellite Radio operations	
Setting XM Satellite Radio preset channels	
Displaying the XM Satellite Radio information	
Recording	42

ADVANCED OPERATION

Set menu	43
Using set menu	44
1 SOUND MENU	45
2 INPUT MENU	48
3 OPTION MENU	50
Remote control features	51
Using remote control on the SCENE feature	51
Controlling this unit, a TV, or other components	52
Setting remote control codes	
Advanced setup	55
*	

ADDITIONAL INFORMATION

Troubleshooting	56
Glossary	61
Specifications	63
Index	64

APPENDIX

(at the end of this manual)

Front panel	i
Remote controli	i
List of remote control codesii	i

About this manual

- 🕍 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 "FS" 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 Ω) 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[™] 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.

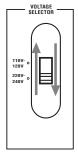
VOLTAGE SELECTOR (Asia and General models only)

Caution

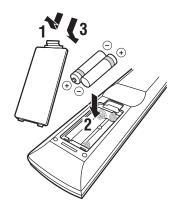
The VOLTAGE SELECTOR on the rear panel of this unit must be set for your local voltage BEFORE plugging the power cable into the AC wall outlet. Improper setting of the VOLTAGE SELECTOR may cause damage to this unit and create a potential fire hazard.

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.

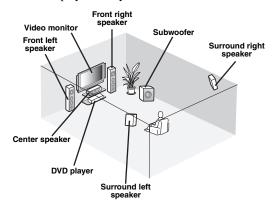
Notes

- 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.

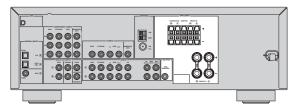
- Indoor FM antenna
- □ AM loop antenna

The following items are not included in the package of this unit

□ Speakers
□ Front speakers2
□ Center speaker1
□ Surround speakers2
Select magnetically shielded speakers. The minimum required speakers are two front speakers.
□ Active subwoofer
□ Speaker cables5 □ Subwoofer cable1
Select a monaural RCA cable. DVD player
□ Video monitor
□ Video cable
□ Digital coaxial audio cable1

Step 1: Set up your speakers

Place your speakers in the room and connect them to this unit.

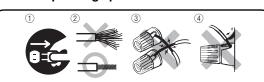


- 1 Place your speakers and subwoofer in the room.
- 2 Connect speaker cables to each speaker.



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.

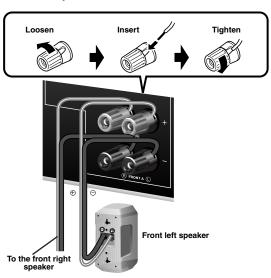
3 Connect each speaker cable to the corresponding speaker terminal of this unit.



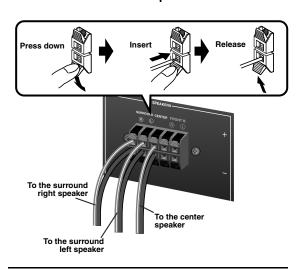
- ① Make sure that this unit and the subwoofer are unplugged from the AC wall outlets.
- ② Twist the exposed wires of the speaker cables together to prevent short circuits.
- ③ Do not let the bare speaker wires touch each other.
- ④ Do not let the bare speaker wires touch any metal part of this unit.

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

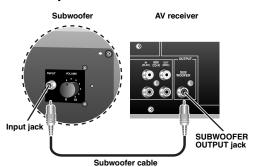
Front speakers



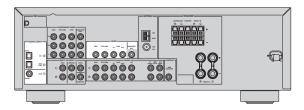
Center and surround speakers



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



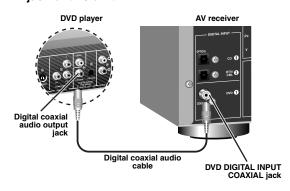
Step 2: Connect your DVD player and other components



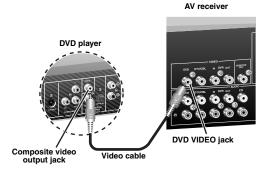


Make sure that this unit and the DVD player are unplugged from the AC wall outlets

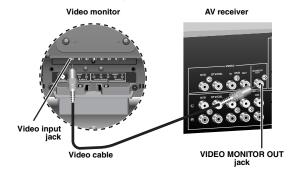
1 Connect the digital coaxial audio cable to the digital coaxial audio output jack of your DVD player and the DVD DIGITAL INPUT COAXIAL jack of this unit.



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

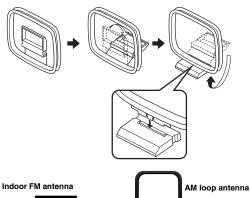


3 Connect the video cable to the video input jack of your video monitor and the VIDEO MONITOR OUT jack of this unit.

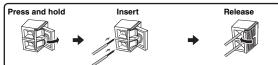


4 Connect the FM and AM antennas to this unit.

See page 18 for the details.







`\o':

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.

5 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 panel

₽ P. 16

Connecting a CD player and an MD recorder

₽ 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.

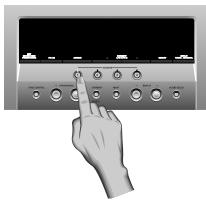
If the speakers are 6 ohm speakers, set "SP IMP." to " 6Ω MIN" before using this unit (see page 13).

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



3 Press **6 SCENE 1**.

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



`\\\`:

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..."

→ Press [®] SCENE 3 (or **® SCENE 3**) to select "TV Viewing".

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.

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

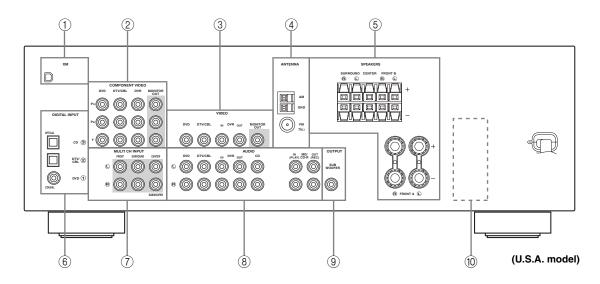
Additional features

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.

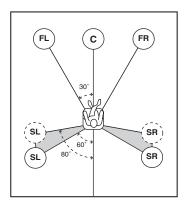
9 SUBWOOFER OUTPUT jack

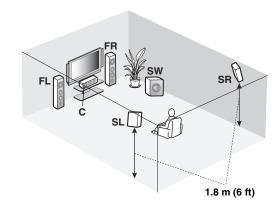
See page 12 for connection information.

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

See page 3 for details.

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)

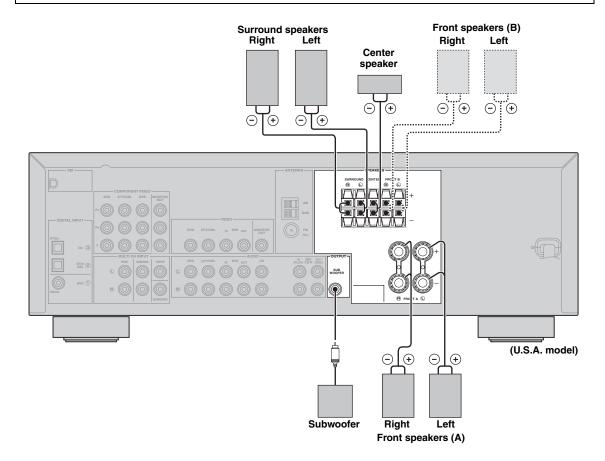
The use of a subwoofer with a built-in amplifier, such as the Yamaha Active Servo Processing Subwoofer System, is effective not only for reinforcing bass frequencies from any or all channels, but also for high fidelity sound reproduction of the LFE (low-frequency effect) channel included in Dolby Digital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

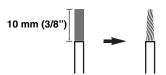
- Use speakers with the specified impedance shown on the rear panel of this unit.
- If you are to use 6 ohm speakers, be sure to set "SP IMP." to " 6Ω MIN" before using this unit (see page 13).
- Before connecting the speakers, make sure that this unit is turned off.
- Do not let the bare speaker wires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



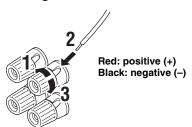
Before connecting to the SPEAKERS terminal

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.



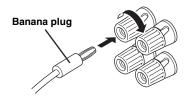
■ Connecting to the FRONT A terminals



- 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 " 6Ω 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.

3 Press **①PROGRAM**
/ ▷ repeatedly to select "SP IMP.".

The following display appears in the front panel display.

SP IMP.- 80MIN

4 Press ② STRAIGHT repeatedly to select "6Ω MIN".

The following display appears in the front panel display.

SP IMP.- 6ΩMIN

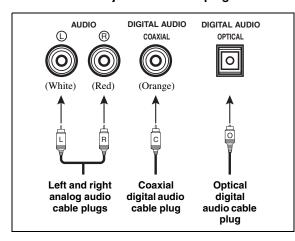
Press ① STANDBY/ON to confirm your selection and set this unit to the standby mode.

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

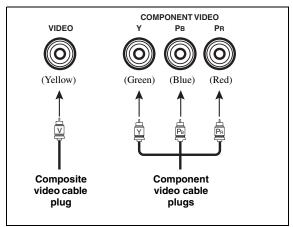
For digital audio signals transmitted via optical digital audio cables.

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 (PB, PR) 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 🔘	Υ 🔘
VIDEO	0	

Connecting video components

Connect the video components as follows.

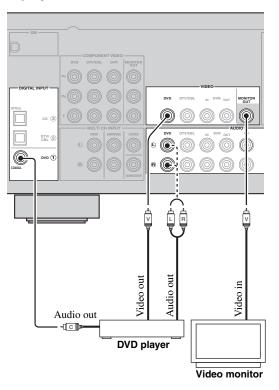
`\o'_

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).

8-5

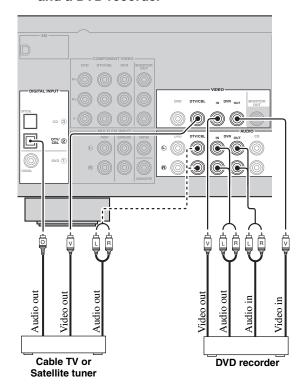
Make sure that this unit and other components are unplugged from the AC wall outlets.

Connecting a video monitor and a DVD player



indicates recommended connections
indicates alternative connections

Connecting a cable TV/satellite tuner and a DVD recorder



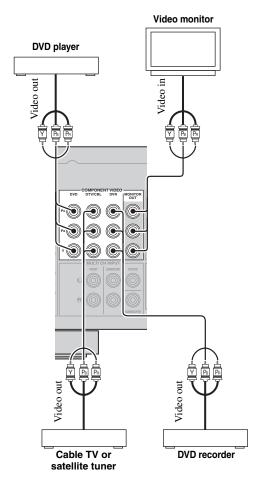
----- indicates recommended connections
----- indicates alternative connections

■ 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

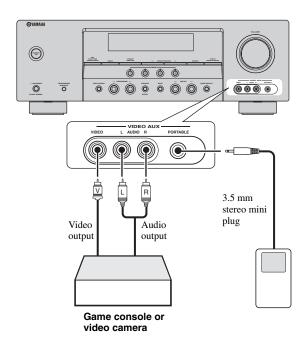
Use the VIDEO AUX jacks on the front panel to connect a game console or a video camera to this unit.

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.

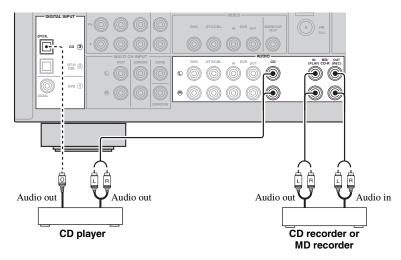
Connecting a CD player and a CD recorder/MD recorder

Note

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



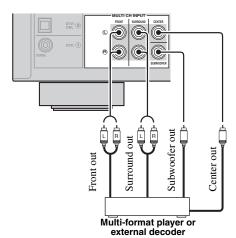
Make sure that this unit and other components are unplugged from the AC wall outlets.



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

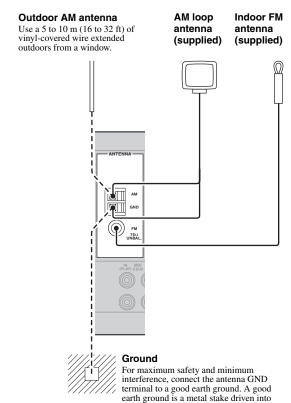
- When you select the component connected to the MULTI CH INPUT jacks as the input source (see page 28), this unit automatically turns off the digital sound field processor, and you cannot select sound field programs.
- This unit does not redirect signals input at the MULTI CH INPUT jacks to accommodate 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

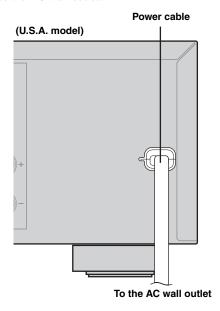
- The AM loop antenna should be placed away from this unit.
- A properly installed outdoor antenna provides clearer reception than an indoor one. If you experience poor reception quality, install an outdoor antenna. Consult the nearest authorized Yamaha dealer or service center about outdoor antennas.
- The AM loop antenna should always be connected, even if an outdoor AM antenna is connected to this unit.



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

`\oʻ:

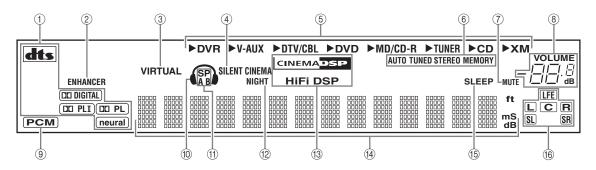
When you turn on this unit, there will be a 4 to 5-second delay before this unit can reproduce sound.

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



1 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).

(13) 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).

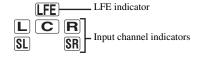
Multi-information display

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).

(6) Input channel and speaker indicators



LFE indicator

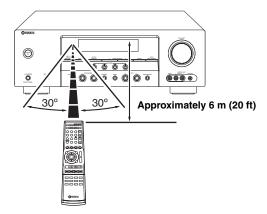
Lights up when the input signal contains the LFE signal.

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.

<u>`</u>`⊚́:

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 (P) MENU.

"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

¬ I > 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 ft² (4.8 x 4.0 m, 20 m²) M (medium) 20 x 16 ft, 300 ft² (6.3 x 5.0 m, 30 m²) L (large) 26 x 19 ft, 450 ft² (7.9 x 5.8 m, 45 m²)

[Other models]

S (small) 3.6 x 2.8 m, 10 m² M (medium) 4.8 x 4.0 m, 20 m² L (large) 6.3 x 5.0 m, 30 m² 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.
- 6 Press ⑤ ♥ to select "SPEAKERS" and then ⑥ ◄ / ▷ to select the number of speakers connected to this unit.

SPEAKERS . . 5spk

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

`\\\\

- 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 ⊚
 /> 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 "SW" 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.

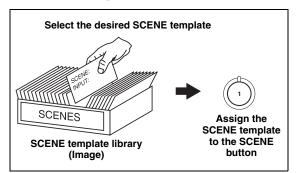
12 Press PMENU to exit from "BASIC SETUP".

Selecting the SCENE templates

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

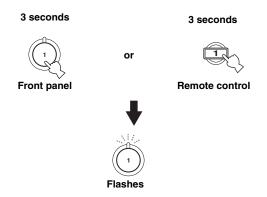
If you want to use other SCENE templates, you can select the desired SCENE templates from the SCENE template library and assign the templates to the selected SCENE buttons on the front panel and the remote control.



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.

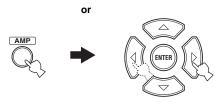


DUD Viewin9

2 Press ⓐ INPUT
/▷ (or press ⑤AMP and then ⑥
/▷) to select the desired template.



Front panel

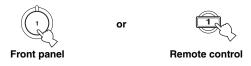


Remote control

DUD Movie View

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

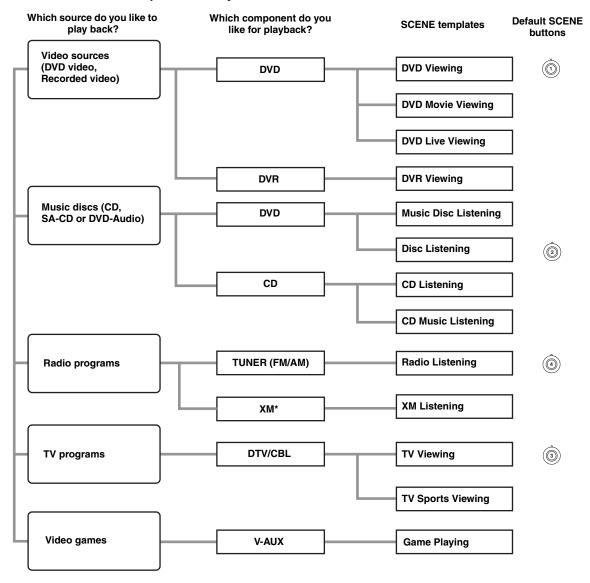
The selected SCENE template is assigned to the button.



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.

^{*} 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.

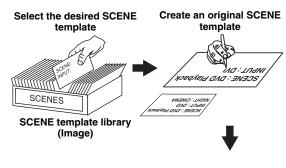
V-AUX Game

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

1 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 E SCENE button, press $\textcircled{G} \triangleleft / \triangleright$ repeatedly to recall the desired SCENE template (see page 23).

2 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.



_``⊚

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.

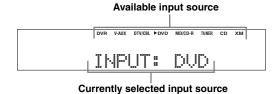
Basic operations

- 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 ⁽⁴⁾ 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.

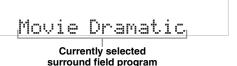


- 4 Start playback on the selected component or select a broadcast station.
 - Refer to the operating instructions for the source component.
 - See page 34 for details about FM/AM tuning instructions.
 - See page 37 for details about XM Satellite Radio tuning instructions.

- 5 Rotate ® VOLUME (or press @ VOLUME +/ -) to adjust the volume to the desired output level.

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

See page 31 for details about sound field programs.



Notes

- Choose a sound field program based on your listening preference, not merely on the name of the program.
- When you select an input source, this unit automatically selects the last sound field program used with the corresponding input source.
- Sound field programs cannot be selected when the component connected to the MULTI CH INPUT jacks is selected as the input source (see page 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.

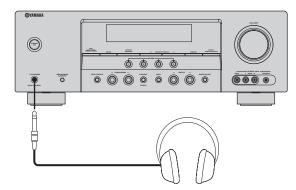
Guide to contents

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 (♠ INPUT < / > repeatedly (or press (♠ MULTI CH IN) so that "MULTI CH" appears in the front panel display.

`\o`:

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.

Press ⊚ /▷ 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.

`\b':

"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.

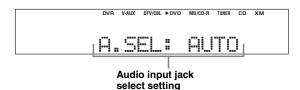
Selecting audio input jacks (AUDIO SELECT)

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.

`\\\c'

- 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 (§ AUDIO SELECT (or (§) 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

ANALOG 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 ①AMP and then press ①LEVEL repeatedly to select the speaker you want to adjust.

Display	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

`\\\

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

2 Press ⑤ /▷ 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 **(DAMP** and then press **(PMENU** 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.
CH	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.

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.

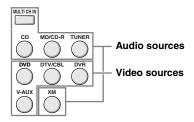
`\\\\

- 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 MSTANDBY) 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.



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).

`\<u>\</u>'

- 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.

- While listening to a source, press

 AMP and then press

 AV

 To select the desired parameter.
- 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).

`\o':

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 **® AMP** and then **® STRAIGHT**) to select "STRAIGHT".

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

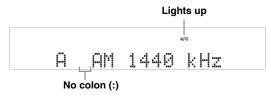
FM/AM tuning

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.

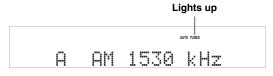
- 1 Press ⑭ INPUT
 / ▷ repeatedly so that "TUNER" is displayed in the front panel display.
- 2 Press ③ FM/AM to select the reception band (FM or AM).
- Press (TUNING AUTO/MAN'L so that the AUTO indicator lights up in the front panel display.



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

4 Press ⑤ PRESET/TUNING/CH
√ > once to begin automatic tuning.

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



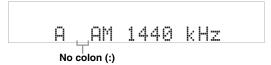
Manual tuning

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 <1/>
tune into 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.

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



Preset station number

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.

1 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.

Press ⑤ PRESET/TUNING/CH
(or ⑥ 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

`\oʻ′-

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

Exchanging preset stations

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

- 1 Select preset station "E1" using 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.

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.

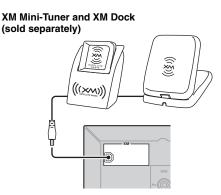
Information from XM Satellite Radio Inc.

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.



\\\\

- 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

1 Press ¼ INPUT <1/> repeatedly (or press ©XM) to select "XM" as the input source.

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



\\\ \

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.

`\\

- 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).

`\\\

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".
- Press ⑤ PRESET/TUNING/CH
 (or ⑥ PRESET/CH △ / ▽) repeatedly to search for a channel within all channels.

`\o':

- 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 **③ CATEGORY** (or **⑤ A-E/CAT.** ⊲ / ▷) repeatedly to change the channel category.
- 3 Press ⑤ PRESET/TUNING/CH
 (or ⑥ PRESET/CH △ / ▽) repeatedly to search for a channel within the selected channel category.

`\o':

You can search for a channel quickly by pressing and holding ⑤ **PRESET/TUNING/CH** \triangleleft / \triangleright (or ⑥ **PRESET/CH** \triangle / \bigvee).

■ 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.

`\o'_

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).



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

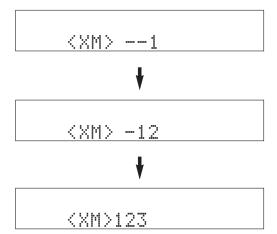
■ Direct Number Access mode

- 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.



``⊚′≤

- To enter a one-digit or two-digit channel number, press the numeric buttons (③) and then press ⑥ENT. to confirm the input number. Instead of pressing ⑥ENT. to tune into the channel immediately, you can wait a few seconds until this unit confirms the entered channel number.
- If no button is pressed within a few seconds after you enter a one-digit or two-digit number, this unit automatically confirms the entered channel number.
- Pressing a button other than the numeric buttons ((v)) or (w) ENT. cancels the Direct Number Access mode procedure.

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.

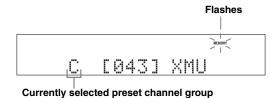
2 Press ® MEMORY (or ⊕XM MEMORY). The MEMORY indicator flashes in the front panel display for approximately 10 seconds.

Note

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

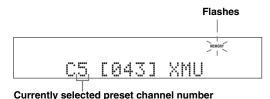
3 Press ④ CATEGORY (or ⑤ A-E/CAT.
repeatedly to select a preset channel group
(A to E) while the MEMORY indicator is flashing.

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



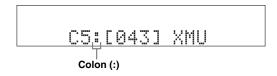
4 Press ⑤ PRESET/TUNING/CH
(or
⑥ PRESET/CH △ / ▽) repeatedly to select a preset channel number (1 to 8) while the MEMORY indicator is flashing.

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.

Englis

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 ⑦ **DISPLAY** (or ® **DISPLAY**) repeatedly to toggle between the following XM Satellite Radio information display modes.



`\o':

- The front panel display can indicate up to 14 alphanumeric characters at once. You can set whether to display the XM Satellite Radio information in the front panel display in a continuous manner or by 14 alphanumeric characters at once by using the "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.

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

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.

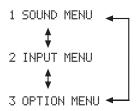
`\o':

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

- 1 Press **OAMP** and then press **PMENU** on the remote control.
 - "BASIC SETUP" appears in the front panel display.
 - · BASIC SETUP
- **2** Press $\bigcirc \land \land \lor \lor$ 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 \bigcirc \triangle / ∇ repeatedly.



- - 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.
 - Press ⑥ < to decrease the value.
- 7 Press PMENU to exit from set menu.

Engl

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

`oʻ:

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.

cligits

■ 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 `\o':

Press $\textcircled{a} \triangle / \nabla$ to select a frequency band and $\textcircled{a} \triangleleft / \triangleright$ 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 G)AUDIO 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 in the main zone. 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

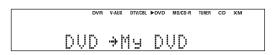
Note

You cannot select a specific item more than once.

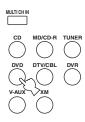
■ Input rename B) INPUT RENAME

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 and t
- 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 $\textcircled{G} \nabla$ to change the character in the following order, or press $\textcircled{G} \Delta$ 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 (G) 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 COAUDIO 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

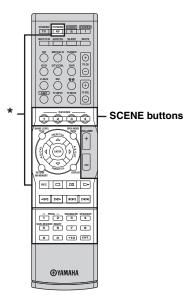
In addition to controlling this unit, the remote control can also operate other audiovisual components made by Yamaha and other manufacturers. To control your TV or other components, you must set up the appropriate remote control code for each input source (see page 54).

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.
- 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.

`\o'\:

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

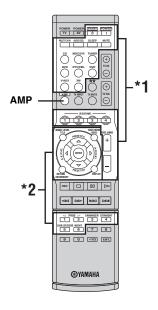
Note

* 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

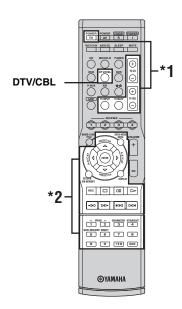
■ Controlling this unit

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.

^{*2} These buttons control your TV only when **OTV/CBL** is pressed. For details, see the "Digital TV/Cable TV" column on page 53.

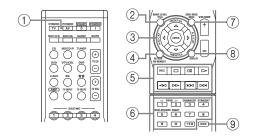
⊨nglish

Controlling other components

Press one of the input selector buttons (ⓒ) or ��� to control other components. You must set the appropriate remote control code for each input source in advance (see page 54). The following table shows the function of each control button used to control other components assigned to each input selector button. Be advised that some buttons may not correctly operate the selected component.

`\@'<u>-</u>

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



Remote control	DVD player/ recorder	VCR	Digital TV/ Cable TV	LD player	CD player	MD/CD recorder	Tuner
1 AV POWER	Power *1	Power *1	Power *2	Power *1	Power *1	Power *1	
2 TITLE	Title						Band
③ PRESET/CH ∆	Up	VCR channel up	Up				Preset up (1-8)
PRESET/CH	Down	VCR channel down	Down				Preset down (1-8)
A-E/CAT. <	Left		Left				Preset down (A-E)
A-E/CAT. ⊳	Right		Right				Preset up (A-E)
ENTER	Enter		Enter				
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	
$\triangleright \triangleright$	Search forward	Search forward	Search forward *2	Search forward	Search forward	Search forward	
00	Pause	Pause	Pause *2	Pause	Pause	Pause	
M	Skip backward	Skip backward	Skip backward *2	Skip backward	Skip backward	Skip backward	
\bowtie	Skip forward	Skip forward	Skip forward *2	Skip forward	Skip forward	Skip forward	
	Stop	Stop	Stop *2	Stop	Stop	Stop	
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

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

^{*2} 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.

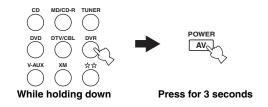
Remote control code default settings

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
**	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.



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

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

`\oʻ:

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, 6Ω MIN

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

SP IMP.	Speaker	Impedance level
	Front (A or B)	The impedance of each
8Ω MIN	Center	speaker must be 8 Ω or higher.
	Surround	_ mgner.
	Front (A or B)	The impedence of each
6Ω MIN	Center	 The impedance of each speaker must be 6 Ω or higher.
	Surround	mgc

■ 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 unit
- 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 (4)INPUT	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 9 SPEAKERS .	27
	The volume is turned down.	Turn up the volume.	_
	The sound is muted.	Press ® MUTE or @ VOLUME +/- on the remote control to resume audio output and then adjust the volume.	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 (1) MUTE or (2) VOLUME +/- 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	"SUR. LR" in "SPEAKER SET" is set to "NONE".	Set "SUR. LR" to "SML" or "LRG".	45
speakers.	This unit is in the "STRAIGHT" mode and a monaural source is being played back.	Press ② STRAIGHT 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 (4) CATEGORY (or (3) A-E/CAT.	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.
- 2 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 **®STRAIDBY/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 Theater Systems) 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. Digital Theater Systems Inc. has developed a home theater system so that you can enjoy the depth of sound and natural spatial representation of DTS digital surround in your home. This system produces practically distortion-free 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 SurroundTM 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 SurroundTM 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 P_B and P_R 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 • Minimum RMS Output Power for Front, Center, Surround
[U.S.A. and Canada models] 1 kHz, 0.9% THD, 8 Ω 100 W
[Other models] 1 kHz, 0.9% THD, 6 Ω
Maximum Power (JEITA) [U.S.A. and Canada models] 1 kHz, 10% THD, 8 Ω
• MAX Power Per Channel [U.K. and Europe models] 1 kHz, 0.7% THD, 4 Ω
• IEC Power [U.K. and Europe models] 1 kHz, 0.1% THD, 8 Ω
• Dynamic Power [U.S.A. and Canada models] (Impedance Selector: 8 Ω) (IHF, 8/6/4/2 Ω)
• Dynamic Headroom
Frequency Response CD, etc. to Front L/R
• Total Harmonic Distortion CD, etc. (2ch stereo) to Front SP OUT, 50 W/8 Ω 0.06% or less
• Signal to Noise Ratio (IHF-A Network) CD, etc. (STEREO) Input shorted (250 mV) 100 dB or more
• Residual Noise (IHF-A Network) Front L/R
• Tone Control (Front L/R)
BASS Boost/Cut
Maximum Input Signal CD, etc. 1 kHz, 0.5%THD (EFFECT ON) 2.0 V or more
• 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)

VIDEO SECTION
• Signal Level Composite
Video Maximum Input Level
Signal to Noise Ratio
• Frequency Response (MONITOR OUT) Component Signal 5 Hz to 60 MHz, –3 dB
FM SECTION
• Tuning Range [U.S.A. and Canada models]
• 50 dB Quieting Sensitivity (IHF, 100% mod.)
Mono
Signal to Noise Ratio (IHF) Mono/Stereo
Harmonic Distortion (1 kHz) Mono/Stereo
AM SECTION
Tuning Range
[U.S.A. and Canada models] 530 to 1710 kHz
[Asia and General models]
OFNEDAL
GENERAL • Power Supply
[U.S.A. and Canada models] 120 V AC, 60 Hz
[Australia model] 240 V AC, 50 Hz
[Korea model]
[China model]
[U.K. and Europe models]
110-120/220–240 V AC, 50/60 Hz
Power Consumption
[U.S.A. and Canada models]
[Other models]
Standby Power Consumption [Except Asia and General models]
Maximum Power Consumption
[Asia and General models]
5ch, 10%/THD
• Dimensions (W x H x D) 435 x 151 x 318 mm
(17-1/8" x 5-15/16" x 12-1/2")

^{*} Specifications are subject to change without notice.

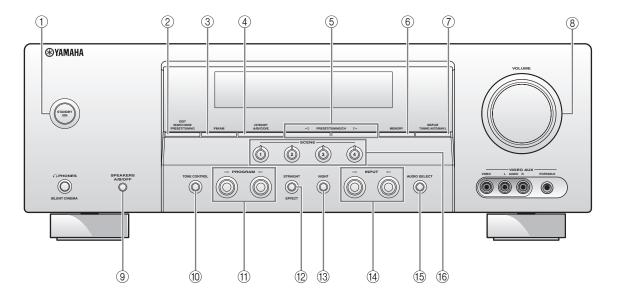
• Weight 8.0 kg (17 lbs 10 oz)

Index

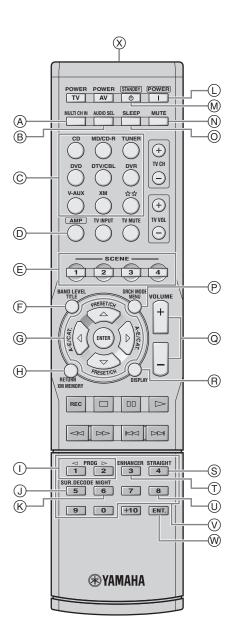
■ Numerics		Connecting the	■ F	
1 SOUND MENU	43	XM Mini-Tuner Dock37	F)D. RANGE	47
2 INPUT MENU		Connecting to the	Factory presets	
2ch Stereo		CENTER terminals13	FL SCROLL	
3 OPTION MENU		Connecting to the	FM tuning	
5ch Stereo		COMPONENT VIDEO jacks16	FRONT	
		Connecting to the	FRONT B	
■ A		FRONT A terminals13	FRONT B speaker setting	
A)DISPLAY SET	50	Connecting to the	Front panel display	
A)INPUT ASSIGN	48	FRONT B terminals13	Front panel display scroll	
A)SPEAKER SET	45	Connecting to the	Front speakers	
A.DELAY	48	MULTI CH INPUT jacks17	•	
Activating XM Satellite Radio	38	Connecting to the	■ G	
Adjusting speaker levels		SURROUND terminals13	G)AUDIO SET	48
during playback	29	Connecting to the VIDEO AUX16	Game	
Adjusting the tonal quality		Connecting video components15	Game Playing	25
All Channel Search mode		Controlling a TV52	= U	
AM tuning		Controlling other components53	■ H	
ANTENNA terminals		Creating original SCENE templates26	Hall	
Audio cable plugs		CROSSOVER46	Headphone	
Audio delay		Crossover	Headphone dynamic range	
AUDIO jacks		CT WIDTH32	Headphones indicator	
Audio jacks		■ D	HiFi DSP indicator	
AUDIO SELECT			HP D.R	
Audio select		D)CENTER GEQ47	HP LFE	47
Audio settings		D)DECODER MODE	■ 1	
Automatic preset tuning		Decoder mode	Infrared window	20
Automatic tuning	34	Decoder select mode	INI VOL.	
■ В		DIGITAL AUDIO COAXIAL jacks14	Initial volume	
	40		Input assignment	
B)INPUT RENAME B)MEMORY GUARD		DIGITAL AUDIO OPTICAL jacks14 DIGITAL INPUT jacks10	Input channel and speaker indicators	
		DIMENSION32	Input channel indicators	
B)SP LEVEL BASIC SETUP		Dimension	Input menu	
Basic setup		DIMMER50	Input rename	
BASS OUT		Dimmer	Input source indicators	
BASS 001	40	Direct Number Access mode39	Input source information	
■ C		Disc Listening25	Installing batteries	50
C)SP DISTANCE	47	Display settings50	in the remote control	3
C)VOLUME TRIM		Displaying the XM Satellite Radio		
Category Search mode		information41	■ J	
CD Music Listening		DSP LEVEL32	Jazz	31
CD Listening		DSP level32		
CENTER		DTS decoder indicator19	■ L	
Center graphic equalizer	47	DTS decoder prioritize setting49	LFE indicator	
Center speaker		DVD Live Viewing25	LFE/Bass out	46
Center width	32	DVD Movie Viewing25	Listening to unprocessed	
CINEMA DSP indicator	19	DVD Viewing25	input signals	
COAXIAL INPUT assignment	48	DVR Viewing25	Low-frequency effect level	47
COMPONENT VIDEO jacks	10, 14	Dynamic range47	- M	
Connecting a cable TV/satellite to	ıner 15		■ M	
Connecting a CD player	17	■ E	Manual preset tuning	
Connecting a DVD player		E)LFE LEVEL47	MANUAL SETUP	
Connecting a DVD recorder		E)MULTI CH SET49	Manual setup	
Connecting a video monitor		Editing sound fields parameters32	Manual tuning	
Connecting audio components		ENHANCER indicator19	MAX VOL.	
Connecting speakers		Enjoying 2-channel sources using the	Maximum volume	
Connecting the AM antennas		standard decoders32	MEM. GUARD	
Connecting the FM antennas		Exchanging preset stations36	Memory guard	
Connecting the power cable	18		Movie Dramatic	31
			IVIOVIE ADACTORS	51

MULTI CH INPUT jacks10	SP LFE	47
Multi channel input setup49	Speaker	47
Multi-channel sources and sound field	Speaker distance	47
programs with headphones33	Speaker distances	
Multi-information display19	Speaker dynamic range	
Music Disc Listening25	Speaker impedance	
Music Enh. 2ch31	Speaker level	
Music Enh. 5ch31	Speaker settings	
MUTE indicator19	SPEAKERS terminals	10
MUTE TYP48	Specifications	63
Muting type48	Straight mode	
	SUBWOOFER OUTPUT jack	
■ N	Subwoofer phase	
NIGHT indicator19	Supplied accessories	
Night listening mode28	SUR. LR	
	Surround left/right speakers	
■ 0	SWFR PHASE	46
OPTICAL INPUT assignment48		
Option menu44	■ T	
- D	TEST	47
■ P	Test tone	47
Parameter initialization50	Troubleshooting	56
PCM indicator19	TU	55
Placing speakers11	Tuner frequency step	55
Playing video sources	Tuner indicators	19
in the background30	Turning off the power	18
Pop/Rock31	Turning on the power	18
PRESET55	TV Sports	
Preset SCENE templates25	TV Sports Viewing	
Preset Search mode39	TV Viewing	
■ R		
	■ U	
Radio Listening25	UNIT	
Rear panel	Unit	
Remote control codesiii	Using the remote control	
Resetting the system60	Using your headphones	28
■ S	■ V	
SCENE 1 8	Video cable plugs	14
SCENE 2 8	VIDEO jacks	
SCENE 38	Video jacks	
SCENE 4 8	VIRTUAL indicator	
Selecting audio input jacks29	VOLTAGE SELECTOR	
Selecting preset stations36	VOLUME level indicator	
Selecting the MULTI CH INPUT	Volume Trim	
component as the input source28	Voidille 111111	
Selecting the night listening mode 28	■ X	
Selecting the SCENE templates23	XM jack	10
Set menu43	XM Listening	
Set this unit to the standby mode 18	XM Satellite Radio tuning	
Setting input source of the customized	2	
SCENE template		
on the remote control51		
Setting remote control codes54		
Setting the speaker impedance		
Setting XM Satellite Radio preset40		
SILENT CINEMA33		
SILENT CINEMA indicator19		
SLEEP indicator		
Sleep timer30		
Sound field programs31		
Sound menu43		
SP A B indicators		
SP D.R47		
SP IMP55		

■ Front panel



■ Remote control



List of remote control codes

TV TV TV TV TV TV TV TV								
ACME 0.993 BENO 0051, 0081 ACME 0.977 CATTEWN 0098 ACURA 0.207 BENA 0.13, 0277 DAYTRON 0.00, 000, 0028 GE 0.07, 000, 000, 101 ALORA 0.255 BENATONE 0.027 DECCA 0.00, 001, 0021 GEC 0.204, 007, 021, 021 ADYRON 0.001, 0210 BLACK STAR 0.214 DECCA 0.00, 007, 021, 021 GEC 0.00, 001, 001 GENEXA 0.01 CILL DECCA 0.00, 007, 001 GENEXA 0.00, 001, 001 GENEXA 0.00 GENEXA 0.00 GENEXA 0.00 DECCA DIMONT 0.00 GENEXA 0.00 0.00 DENOX 0.00 DENOX 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	TV		BELL & HOW		DAINICHI	0200, 0209, 0218	FUTURETECH	
ACMER 0207 BEOÑ 0213, 0217 DANTON 060, 061, 0208 GEO 030, 000, 000, 000, 000 ADA 0208 BESTAR 0213 DANTON 060, 061, 0208 GE 027, 000, 000, 000 0207, 0217, 021, 021 020, 0207, 021, 021 020, 0207, 021, 021 020, 0207, 021, 021 020, 0207, 021, 021 020, 021, 021 020, 021, 021 020, 021, 021 020, 021, 021 020, 021, 021 020, 021, 021 020, 021, 021 020, 021, 021, 021 020, 020, 021, 021 020, 020, 021, 021 020, 020, 021, 021 020, 020, 021, 021 020, 020, 020, 021 020, 020, 020, 021 020, 020, 020, 021 020, 020, 020, 020, 020 020, 020, 020, 020, 020 020, 020, 020, 020, 020 020, 020, 020, 020, 020, 020 020, 020, 020, 020, 020, 020, 020, 020,		0002	DENO		DANSAI		CATENNAN	
ACURNA 0008 BIENTANE 0213 DATTRON 000,000,000,000 GE 007,000,000,000 ADA 0255 BIACKSET 0214 DECCA 0204,0007,0213 GE 0214,0017 ADYSON 0210,0211 BLUESKY 0209,0218 DEM CIT. GELOSO 038,0210,0215 AGASIM 0210,0217 BLUESKY 0209,0218 DEM CIT. GELOSO 038,021,0215 AGASIM 0210,0217 BLUESKY 0209,0217 DIMENSIA 0215,0217 GENEXA 038 AKIGO 0212,020,0207 BRIONESIN 0216,022 DIMENSIA 0217,020,020,020 GENEXANIA 0216,022 020,021,021 020,021,021 GENEXANIA 020,021,021 020,000,000,000,000 020,000,000,000 020,000,000,000 020,000,000,000 020,000,000,000 020,000,000,000 020,000,000,000 020,000,000,000 020,000,000,000 020,000,000,000 020,000,000,000 020,000,000 020,000,000,000 020,000,000 020,000,000,000 020,000,000 020,000,000,000 020,000,000,000 020,00			-		DANITAN			
ADA Q55 BINATOKE Q007 DECAC Q014, Q07, Q11, Q07, Q07, Q07, Q07, Q07, Q07, Q07, Q07								
ADD ODE BLACK STAR DISTANCE 0214 ODES 0210, 0211 GELO (0.017) CRUSON (0.017) CRUSON (0.000) CRUSON (0.000) </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>GE</td> <td></td>							GE	
ADMIRAD OSS, 005, 005, 005, 001 BLUE SKY 0290, 0218 CESMET CELO, 0210, 0210 CELO, 0200, 0200 CORO, 0200, 0200 CESMET CELO, 0200, 0200 CORO, 020							GEC	
1900 2010 2010 2010 2010 2010 2014 2010 2010 2010 2014 2010					DECCA		GEC	
ADYSON 0200, 020, 020 BONTST BOOTS ORGASHI 	HOMINGIE				DESMET		GELOSO	
AGASHI 02006 BOTO 0207 DIMENSIA 0507 CENEXA 0208 0210, 1221, 2000, 2017 0208 0204 AGB 0204 BRANDTO 0210, 0205 DIXI 0208 0210, 212, 0200, 2017 0208 CENEXA 0209 0211, 0210 0209 0211, 0210 0209 0211, 0210 0209 0211, 0210 0209 0210, 0210 0209 0210, 0210 0209 0210, 0210 0209	ADYSON							
AGAZIA 0904 BRADTORD 0014001, 0210, 0226 DTS 0008 GRIENEXA 0201, 0211, 0213, 0214 CURL 0207, 0215, 0215 GRIENEXA 0208 GRIENEXA 0208, 0213, 0217 DUAL—TEC 0207, 0215, 0215 GOLDHADE COLDHADE								
AGR 0204 BRANNY 0216, 022-00 DISS 0208 CORO, 0215, 0215, 0216 GBRANTEN 0200, 0207 DUAMOTT 0207, 0205, 0215, 0215 GGLOHAND 0200, 0201, 0202 AIMA 0208, 0139, 0202 BROCKWOUZD DUAMOTT 0060, 0217, 0208, 0215 GOLDHAND 0208, 0009, 0005, 0127, 0208, 0215 AKAI 0209, 010, 0200, 020 BROCKWOUZD DUAMOTT 0060, 0217, 0208, 0210, 0207, 0208, 0210 AKIBA 0213, 0217, 0218, 0218 BCS DUA 0217 0210, 0210, 0207, 0208, 0210 AKIBA 0209, 0218 BCSH 0210, 0213, 0215, 0218 ELBE 0203, 0214, 022, 022 0217, 0204, 0208 ALBA 0200, 0201, 0208 CANDLE 0216, 0217, 0218 ELBECTRO TECH GRARTZ 0211, 0217, 0210, 0208, 0208, 0218 ALBIRA 0210, 0207, 0218 CASCADE 0218, 0217, 0218 ELECTRO TECH GRARTZ 0211, 0217, 0210, 0219, 0219, 0219, 0219, 0218 ALBIRA 0212, 0212, 0212 CASCADE							GENEXXA	
IAMA 02008, all 93,0239 BROCKWOD— DUMONT 060,005,005,005 GOLDHAN 0200,000,000,000 AKAI 0609,0065,0127, BROCKWOD— 004,002,000,000 1020,000,000 0200,000,000,000 0020,000,000,000 0020,000,000,000 0020,000,000,000 0020,000,000,000 0020,000,000,000 0020,000,000,000 0020,000,000 0020,000,000 0020,000,000 0020,000,000 0020,000,000 0020,000,000 0020,000,000 0020,000,000 0020,000,000 0020,000,000 0020,000,000 0020,000	AGB	0204		0216, 0226	DTS			
AIWA Q028, g139,Q229, g18CW30—1 G060 Q07 Q02 Q	AIKO	0127, 0200, 0207,	BRIONVEGA	0205, 0213, 0217	DUAL	0207, 0215, 0216	GIBRALTER	0060
MAX		0208	BRITANNIA	0200, 0207	DUAL-TEC	0207, 0208, 0215	GOLDHAND	0200
AM 10,000,000,000,000,000,000,000,000,000,	AIWA	0028, 0139, 0229,	BROCKWOOL)	DUMONT	0060, 0127, 0205,	GOLDSTAR	0060, 0061, 0127,
1.29, 1130, 0200,		0237		0060		0207		0128, 0200, 0201,
1	AKAI	0059, 0065, 0127,	BROKSONIC		DURABRANI)		0207, 0208, 0210,
Page								
AKBIRA 0255 BUSH 0177, 0208, 0209, 0218 C210, 0213, 0215, 0215, 0210, 0210, 0209, 0218 C210, 0213, 0215, 0218 C210, 0218, 0210, 0218 C210, 0218, 0210, 0218 C210, 0218, 0210, 0210, 0210, 0209, 0217 C210, 0209, 0217, 0218 C210, 0209, 0218, 0218 C210, 0209, 0217, 0218 C210, 0209, 0209, 0217, 0218 C210, 0209, 0217, 0218 C210, 0209, 0218, 0219,								
AKIBA 0209, 0218 0210, 0213, 0215 0218 0204 070 0209 ALARON 0200, 0207, 0208 CANDLE 0216, 0217, 0218 ELECT 00H 0204, 0205 GRAFTA 0211 ALBAR 0200, 0217, 0218 CASONIC 0006 0208 CARADA 0213, 0217 ALBIRAL 0212 CASCABC 0208 ELECTROBAND 0208, 0207 0213, 0217 ALBIRAL 0213 CASTHAY 0313, 0217 059 070, 0009 0210, 0200, 0201 AMFILYINIA 0213, 0217 CEC 0127 ELECTROBAND 069, 0010 0213, 0310, 0222 AMSTRAD 0204, 0206, 0208 CENTURION 0213, 0217 ELIN 000, 000, 000, 000 GRAIDIN 0020 0200, 0208, 0208 0200, 0207, 0208 ALLIFAX 0200, 0208, 0208 0200, 0207, 0208 ALLIFAX 0200, 0207, 0208 <							GOODMANS	
AKURA 0206, c209, c309, c308 CANDLE 0206, 0207, c308 CANDLE 0206, 0606 CENTRO C1004, c302, c302, c302 CARADA 0204, c307, c308, c302, c	A IZID A		BUSH		ELBE			
ALARON 0200 CANDLE 030,00273 ELCITT 0204,0207,0208 CRANADA 0204,0207,0208 CARJONC 0206 0208 0208 0203,0217 0213 0217 0213,0217 0203,0217 0203,0217 0213,0217 0208 0209,0218 0203,0202,0202 0208 0209,0218 0208,0209,0217 0208,0209,0217 0208,0209,0217 0209,0218 0209,0209,0209 0209,0218 0209,0218 0217 0209,0218 0209,0218 0209,0218 0209,0218 0209,0218 0209,0218 0209,0218 0209,0218 0209,0218 0209,0218 0209,0218 0209,0218 0209,0218 0209,0218 0209,0218 0209,0218 0209,0218 0209,0218					ELDE CHADE		CDM	
ALBA 0200, 0207, 0208, 0209, 0207, 0218, 0209, 0207, 0210, 0209, 0207, 0218, 0209, 0217, 0218 CASCADE 008 ELECTROBA™ CGRANDIN 0208, 0217, 0218, 0208, 0208, 0217 ALBIKAL 0213 CATHAY 0213, 0217 ELECTROBA™ GRANDIN 0208, 0209, 0217 AMPLIVISION CCE 0217 CCE 0209, 0206, 0208, 0207, 0218, 0209, 0207, 0218, 0209, 0209, 0201, 0218 CENTURION 0509, 0217 HALLMAK 0000, 0206, 0207, 0218, 0209, 0209, 0218 CENTURY 0505 HALLMAK 0000, 0206, 0207, 0218, 0209, 0209, 0218 CENTURY 0505 HALLMAK 0600, 00000, 0000, 0000, 0000, 0000, 0000, 0000, 0000, 0000, 0000, 0000, 0000, 0000, 0000,								
ALBIRAL ALBIR			CANDLE					
ALBIRAL ALISTAR (2)12 CASCADE (2)13, 0217 CORE (2)13, 0217 CORE (2)10, 0218, 0213, 0212 CORE (2)10, 0218, 0213, 0212 CORE (2)10, 0218 CELEBRIY (2)10, 0218 CELEBRIY (2)10, 0218 CELEBRIY (2)10, 0219 CELEBRIY (2)10, 0219 <th< td=""><td>ALDA</td><td></td><td></td><td></td><td>LLLCTRO IL</td><td></td><td>GRANDA</td><td></td></th<>	ALDA				LLLCTRO IL		GRANDA	
ALISTAR Q131 CATHAY Q131, Q17 ELECTROH GRUNDIC Q128, Q130, Q222, Q225 CAMPLIVISIO™ CCELEBRITY Q059 CELETROM C036, Q055 CS5 <	ALBIRAL.				ELECTROBAL		GRANDIN	
AMPLIVISION CCE 0127 CCELEBRITY 0059 ELECTROHOO CRONGO CRONGO COSO CORO CORO <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>								
AMSTRAD CORDO CELBRITY 0050 0000000 CORO,000,000 GERNPY 0060 0000 AMTRON 00204,0020,00208 CENTURY 0213,0121 ELIN 0200,0021,012 HALLMAK 0000,0001 AMTRON 0020,0021 CEG 0214,0215 ELITE 0200,0021,0218 HANPENT 0200,0027,000,000 ANAM 208 CITIZEN 0060,0061,000 ELMAN 0215 HANSEATIC 0203,0027,000,000 ANGIO 2080 CITY 0064 EMERSON 006,001,000 HANTARE 0209,0215,0217 ANSONIC 2026,0208 CLARIVOX 212,0217 ENVISION 0060,001 HCM 0206,0207,0208 ACC 0000,001 CLARRONIC 2020,0213,021 ERRES 0213,0217 HIFOX 0216 ACENEX 0118,0122,0132 CAS 2000 EURO 0213,0217 HIRARI 0206 0214 ERRES 0213,0217 HIRARI 0208,0207,0213 HIRARI 0208,0207,0213 HIRARI 0208,0207,0213					ELECTROHO			
AMTRON Q009, Q18 CENTURY Q205 CRE Q14, Q15 EIITE Q009, Q13, Q128 HAMPTON Q200, Q007, Q008, Q007, Q008, Q009, Q009 ANAM Q208 CIMLINE Q050, Q018, Q018 EILMAN Q15 HANSEATIC Q200, Q027, Q008, Q009, Q013, Q128 ANAM M062 CITIZEN Q064, Q018, Q018, Q000, Q008 HANTARE Q203, Q018, Q018, Q019, Q018,		0207	CELEBRITY	0059			GRUNPY	0062
AMTRON 062 (2) CGE 0214, 0215 (2) LLITE (2) 0090, 0213, 0218 (2) HAMPTON (200, 0207, 0208, 0207, 0208, 0207, 0208, 0207, 0208, 0207, 0208, 0207, 0208, 0207, 0208, 0207, 0208, 0207, 0208, 0207, 0208, 0208 ANAM NATIONAL (200, 0208) 1006, 0061, 0062, 0208 ELTA (200, 0208, 0206, 0208, 0207, 0208, 0209, 0213, 0214, 0208, 0208, 0208, 0208, 0208, 0208, 0208, 0208, 0208, 0208, 0208, 0209, 0213, 0218 ERRES (213, 0217 (2018, 020	AMSTRAD	0204, 0206, 0208,	CENTURION	0213, 0217	ELIN	0200, 0207, 0213,	HALIFAX	0200, 0206, 0207
ANAM Q08 CIMILINE Q08, 0218 (00,000) ELMAN Q15 (00,000) HANSEATIC Q20, 2020, 2020, 2020 ANAM NATIONAL CITIZEN 0060 (0061,0000) ELMEAN 2000, 0006, 0000, 0001, 0000 HANTAREX 0204, 0208 ANGLO 0208 CITY 0208 EMERSNO 0060, 0061, 0000, 0000 HARVARD 0020, 0207, 0208 ANSONIC 0203, 0208 CLARIVOIC 0212, 0217 ENVISION 0060, 061 HCM 0218 ACC 0060, 061 HG CLARIVOIC 0209, 0213, 0214 ETRON 0080 HIIFIVOX 0216 ACEX 0118, 0122, 0132 CM CMS 0200 EURO EEC 0206 HINARI 0200 ARCEAM DELT** CONCENTY 6006, 061 EUROMAN 0200 HINARI 0200, 0209, 0213 ARSTANA 0213, 0217 CONCENTY 6000, 061 EUROMAN 0200, 0207, 0213 HITACHI 0006, 0014, 0015, 0015, 0015, 0016, 0014, 0015, 0015, 0016, 0016, 0016, 0014, 0015, 0016, 0014, 0015, 0016, 0014, 0015, 0016, 0014, 0015, 0016, 0014, 0015, 0016, 0014, 0015, 0016, 0014, 0015, 0016, 0014		0209, 0218	CENTURY	0205		0217	HALLMARK	0060, 0061
ANAM NATIOHAL CITIZEN 0060, 0061, 0062, 0060, 0061, 0062, 0060, 0061, 0062, 0060, 0061, 0062, 0060, 0061, 0062, 0060, 0061, 0062, 0060, 0061, 0062, 0060, 0061, 0062, 0060, 0061, 0062, 0060, 0061, 0060, 0061 EMERSON 0060, 0061, 0060, 0061, 0062, 0060, 0060, 0061, 0062, 0060, 0061, 0060, 006	AMTRON	0062	CGE	0214, 0215	ELITE	0209, 0213, 0218	HAMPTON	0200, 0207
ANGIC 0662 CTTY 0064 EMERSON 0060, 0061, 0062, 0025 HANTARX 0204, 0208 ANTIECH 2006, 0208 CLARIVOX 212, 0217 ENVISION 0060, 0061 HCM 0206, 0207, 0208, ANSONIC 2030, 0208 CLARRONIC 2020, 0213, 0214 ESA 0080 HIIFVOX 0218 ACC 0060, 0061 CMS 2218 ETRON 0208 HIIGASHI 0209 ARC AN DELT CONCERTO 0600, 0061 EURO-FEEL 0206 HINARI 0208, 029, 0213, 0217 ARCAM DELT CONCERTO 0600, 0061 EUROMAN 0201 HISAWA 0209, 0218 ARISTONA 2013, 0217 CONDOR 2020, 0207, 0213 EUROMAN 0206, 0207, 0213 HITACHI 0006, 0061, 0016, 0042, 0060, 0207, 0213 ASBERG 0213 CONTECC 2000, 0207, 0213 EUROMAN 0208 HITACHI 0006, 0061, 0097, 0208, 0207, 0207, 0208, 0209, 0218 HITACHI 0006, 0061, 0097, 0208, 0207, 0208, 0209, 0218 HITACHI 0006, 00014, 0105, 0207, 0208, 0209, 0207, 0208, 0209, 0218 HITACHI<							HANSEATIC	
ANGLO 0208 CITY 0208 064, 0128, 0205 HARVARD 0062 ANITECH 0206, 0208 CLARIVOX 2012, 0217 ENVISION 0060, 0061 HCM 0206, 0207, 0208, 0208 ANSONIC 0200, 0208 CLATRONIC 0206, 0207, 0208, 0208 EERES 01213, 0217 0218 APEX 0118, 0122, 0132 CMS 0208 HIGASHI 0200 ARC EN CIEL 0216 CMS 0200 EURO-FEEL 0206 HINARI 0208, 0209, 0213, 0217, 0218 ARCAM DELTAR 0200 CONCERTO 0600, 0061 EUROHAN 0200 HISAWA 0209, 0218 ARISTONA 0213, 0217 CONDER 0200, 0207, 0213 EUROMAN 0200, 0207, 0213 HITACHI 0006, 0014, 0015, 0015, 0015, 0016, 0020, 0207, 0213 ASBERG 0213, 0215 0061, 0042, 0060, 0015, 0020, 0207, 0213 HITACHI 0006, 0014, 0015, 0020, 0020, 0020, 0207, 0213, 0021, 0020, 002	ANAM NATIC		CITIZEN					
ANTECH Q206, Q208 CLARIVOX Q212, Q217 ENVISION 0060, 0061 HCM Q206, Q207, Q208 ANSONIC Q30, Q208 CLATRONIC Q206, Q207, Q208 ERRES Q213, Q217 HIFLOX Q218 AOC Q060, 0061 CD090, Q213, Q214 ETRON Q208 HIGASHI Q200 ARC EN CIEL Q216 CMS Q200 EUROLINE Q207 HINAGSHI Q208, Q209, Q213 ARCAM DELTA CONCERTY 0060, 0061 EUROMAN Q201 HISAWA Q209, Q218 ARISTONA Q213, Q217 CONCORDE Q200 Q207, Q213 EUROPHON Q200, Q204, Q207, Q213 HITACHI 0066, 0014, 0027, Q13 ASBERG Q213 CONTEC/CVET EERRGUSON Q213, Q215 Q117, Q156, Q179, Q166, Q179, Q18 ASTRA Q205 Q212 CONTEC/CVET EFRGUSON Q212, Q217, Q226 Q116, Q171, Q156, Q179, Q18 ASTRA Q206 Q206, Q207, Q213, Q213 CONTEC/CVET EFRGUSON Q212, Q217, Q226 Q116, Q217, Q156, Q179, Q18 ATLA	ANGLO		CITTY		EMERSON			
ANSONIC 0203, 0208 CLATRONIC 0206, 0207, 0208, 0213, 0214 ERRES 0213, 0217 CORDAGO 0606, 0061 HIFVOX 0218 AOC 0060, 0061 CORDAGO 0218 ETRON 0208 HIGASHI 0200 ARC EN CIEL 0216 CMS 0200 EURO-FEEL 0206 HINARI 0208, 0209, 0213, 0217, 0218 ARCAM DELTAR CONCERTO 0606, 0061 EUROMAN 0200 HISAWA 0209, 0218 ARCAM DELTAR CONCORDE 0208 EUROMAN 0200 HISAWA 0209, 0218 ARCAM DELTAR CONCORDE 0208 EUROMAN 0200, 0207, 0213 HITACHI 0006, 0014, 0015, 0015, 0014 ARSA 0207 CONCORDE 0208 EUROMAN 0206, 0207, 0213 HITACHI 0006, 0014, 0015, 0015, 0016, 0020,					ENVICION			
AOC 066, 0061 C 0209, 0213, 0214 ESA 0080 HIFIVOX 0216 APEX 0118, 0122, 0132 CMS 0200 EURO-FEEL 0206 HINARI 0208, 0209, 0213, 0214, 0218 ARCAM 0200 COLORTYME 0060, 0061 EURO-FEEL 0206 HINARI 0208, 0209, 0213, 0214 ARCAM DELTA CONCORDE 0208 EUROMAN 0200 HISAWA 0201, 0218 ARISTONA 0213, 0217 CONCORDE 0208 EUROMAN 0200, 0204, 0207, 0213 HITACHI 0006, 0041, 0015, 0060, 0061 ASBERG 0213 CONTEC CONTEC CONTEC CONTEC EEROBOM 0200, 0204, 0207, 0213 HITACHI 0016, 0042, 0060, 0060, 0062 ASBERG 0213 CONTEC CON							псм	
APEX 0118, 0122, 0132 0218 ETRON 0208 HIGASHI 0200 ARC EN CIEL 0216 CMS 0200 EURO-FEEL 0206 HINARI 0208,0209,0213,0217,0218 ARCAM DELTA CONCERTO 0060,0061 EUROMAN 0200,0207,0213 HISAWA 0209,0218 ARISTONA 0213,0217 CONCORDE 0208 EUROMAN 0200,0204,0207, HITACHI 0006,0014,0015, ASA 0205,0211 CONTEC 0200,0207,0208 EUROPHON 0200,0204,0207, HITACHI 0006,0014,0015, ASBERG 0213 CONTEC/CONTY FERNUS 0208 1027,0156,0179, ASTRA 0200,0204,0207, CONTEC/CONTY FERGUSON 0212,0217,0226 0127,0156,0179, ASTRA 0200,0207,0213 CONTEINENTAL EDISON HIDLITY 0200,0207,0210 0127,0156,0179, ASUBA 0200,0207,0213 COSMEL 0208 FINLANDIA 0210,0217,0226 0180,0204,0207, ATLANTIC 0200,0207,0213 CRAIG 0062 FINLANDIA 0210 <td></td> <td></td> <td>CLATRONIC</td> <td></td> <td></td> <td></td> <td>HIFIVOX</td> <td></td>			CLATRONIC				HIFIVOX	
ARC EN CIEL 0216 CMS 0200 EURO-FEEL 0206 HINARI 0208, 0209, 0213, 0217, 0218 ARCAM 0200 COLORTYME 060, 0061 EUROMAN 0200 HISAWA 0207, 0218 ARCAM DELTA CONCORDE 0208 EUROMANN 0200, 0207, 0213 HITACHI 0006, 0014, 0015, 0016, 0042, 0060, 0207, 0213 ARISTONA 0213, 0217 CONDOR 0200, 0207, 0208 EUROPHON 0200, 0204, 0207, 0213 HITACHI 0006, 0014, 0015, 0016, 0042, 0060, 0207, 0213 ASBERG 0213 CONTEC/CONTC 9000, 0207, 0208 FERSUSON 0212, 0217, 0226 0127, 0156, 0179, 0156, 0179, 0156, 0179, 0156, 0179, 0156, 0179, 0208, 0209, 0208, 0208 ASTRA 0200, 0206, 0207 CONTINENTAL EDISON FIDELITY 0200, 0207, 0210 0210, 0211, 0215, 0217, 0156, 0179, 0156, 0251 ATLANTIC 0200, 0207, 0213, 0218 COSMEL 0208 FINLANDIA 0210, 0207, 0201 HORNYPHOW 0216, 0251 AUDIOTON 0207, 0208, 0209, 0207, 0213, 0208, 0209, 0207, 0208, 0209, 0207, 0208, 0209, 0207, 0208, 0209, 0201 FINLAMDIA 0213, 0218 HYPSON 0200, 0207, 0208, 0209, 0201 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$			CMS					
ARISTONA 0207 CONCORDE 0208 EUROMANN 0206, 0207, 0213 HITACHI 0006, 0014, 0015, 0016, 0042, 0060, 0060, 0060, 0006, 0007, 0006, 0007,								
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$						0200	HISAWA	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		0207	CONCORDE	0208	EUROMANN	0206, 0207, 0213	HITACHI	0006, 0014, 0015,
ASBERG 0213 CONTEC/CONY FENNER 0208 0217, 0156, 0179, 0179, 0156, 0179, 0179, 0204, 0207, 0200, 0207, 0210 0127, 0156, 0179, 0179, 0200, 0207, 0210 0180, 0204, 0207, 0207, 0200, 0207, 0200, 0207, 0210 0180, 0204, 0207, 0207, 0200, 0207, 0200, 0207, 0210 0180, 0204, 0207, 0207, 0201, 0	ARISTONA	0213, 0217	CONDOR	0200, 0207, 0213	EUROPHON	0200, 0204, 0207,		0016, 0042, 0060,
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	ASA	0205, 0211	CONTEC	0200, 0207, 0208		0213, 0215		0061, 0095, 0105,
ASUKA 0200, 0206, 0207, 0218 CONTINENTAL EDISON FIDELITY 0200, 0207, 0210 0210, 0211, 0215, 0216, 0251 ATLANTIC 0200, 0207, 0213, 0207, 0213, 0217 COSMEL 0208 FINLUX 0204, 0205, 0207, 0207, 0207, 0213 HORNYPHON 0213 ATORI 0208 CRAIG 0062 0213, 0215, 0217 HOSHAI 0209, 0207, 0208, 0209, 0209, 0209, 0209, 0208, 0209, 0207, 0208, 0209, 0207, 0208, 0209, 0207, 0208, 0209, 0213, 0214 HYGASHI 0200, 0207, 0208, 0209, 0209, 0207, 0209, 0213, 0214 HYPER 0200, 0207, 0208, 0209, 0207, 0208, 0209, 0218 AUDIOTON 0207 CS ELECTRONICS 0208, 0213, 0217 FISHER 0064, 0127, 0128, 0214 HYPER 0200, 0207, 0208, 0207, 0208, 0207, 0208, 0207, 0208, 0207, 0208, 0207, 0215 AUDIOYON 0207 CTC 0214, 0218 FORMENTI 0213, 0218 HYPSON 0206, 0207, 0213, 0214, 0215 AUTOVOX 0205, 0206, 0207 CTC 0214 FORMENTI-PHOENIX 0217, 0200, 0206, 0207, 0208, 0209, 0213, 0219, 0209, 0213, 0218 0207, 0208, 0209, 0213, 0218, 0209, 0213, 0218 BASIC LINE 0208, 0209, 0213, 0214, 0215 CXC 0062 FRONTECH 0206, 0208, 0210, 021, 0213, 0214, 0213, 0214, 0213, 0214, 0214,		0213	CONTEC/CON	IΥ				
ATLANTIC 0209, 0218 0216 FINLANDIA 0210 0216, 0251 ATLANTIC 0200, 0207, 0213, 0217 CRAIG 0062 0213, 0215, 0217 HOSHAI 0209, 0218 ATORI 0208 CROSLEY 0205, 0214, 0215 FIRSTLINE 0200, 0207, 0208, 0214 HVGASHI 0200, 0207 AUDIOSONIC 0207, 0208, 0209, 0208 CROWN 0062, 0063, 0128 O213, 0214 HVGASHI 0200, 0207, 0208, 0213, 0216 O214 O208, 0213, 0215 FIRSTLINE 0205, 0207, 0215 O214, 0215 AUDIOTON 0207 0208, 0209 CROWN 0062, 0063, 0128 FIRSTLINE 0205, 0207, 0215 O214, 0215 AUDIOVOX 0207 0208, 0209 O207, 0209 O207, 0209 FLINT 0213, 0218 HVPSON 0206, 0207, 0213, 0214 AUTOVOX 0205, 0206, 0207 CTC 0214 FORMENTI 0200, 0205, 0207 CEC 0217, 0208, 0209, 0213, 0216 O207, 0208, 0209, 0205 BAIRD 0216 0057, 0060, 0061 O200 O205, 0207 O208, 0209, 0213, 0218 BANG & OLUFSEN 0064, 0065 FORTRESS 0205 ICES 0200, 0218, 0209, 0213, 0218 BASIC LINE 0208, 0209, 0213, CYBERTRON 0209, 0218 O206, 0208, 0210, IMA 0062 BASIL LINE 0208, 0209, 0213, CYBERTRON 0209, 0218 O211, 0214 IMPERIAL 0211, 0213, 0214 BASTIDE 0207 O207 O208, 0207, 0208, 0209, 0213, 0218 O208, 0209, 0213 O218, 0209 BASTIDE 0207 O208, 0207, 0208, FUNAI 0033, 0034, 0035, INFINITY 0063 BAUR 0217 O2013, 0218, 0238 FUNAI 0033, 0034, 0035, INFINITY 0063 BEKO 0228 O2213, 0218, 0218, 0218 O2014, 0215 O2014 O2014 O2014 O2014, 0215 O2014 O2014 O2014, 0215 O2014								
ATLANTIC 0200, 0207, 0213, 0217 COSMEL O6062 FINLUX O204, 0205, 0207, 0217, 0218, 0217 HORNYPHON 0213 0213 ATORI 0208 CROSLEY 0205, 0214, 0215 FIRSTLINE 0200, 0207, 0208, D214 HUANYU 0200, 0207 AUDIOSONIC 0207, 0208, 0209, 0213, 0216, 0217, 0213, 0216, 0217 CROWN 0062, 0063, 0128, 0218, 0217 FISHER 0064, 0127, 0128, HYPER 02000, 0207, 0208, 0209, 0207, 0208, 0209, 0218 AUDIOTON 0207 CS ELECTROVICS FINT 0213, 0218 HYPSON 0206, 0207, 0213, 0214 AUDIOVOX 0062 0200, 0207, 0209, 0214 FINT 0213, 0218 HYPSON 0206, 0207, 0213, 0214 AUTOVOX 0205, 0206, 0207 CTC 0214 0215, 0217 ICE 0127, 0200, 0206, 0207, 0208, 0209, 0213, 0218 BAIRD 0216 0057, 0060, 0061, 0206, 0061, 0209, 0215 0200 0207, 0208, 0209, 0213, 0218 0200 0213, 0218 BASIC LINE 0208, 0209, 0213, 0213, 0218 CYBERTRON 0209, 0218 0206, 0208, 0210, 0214 IMA 0062 BASTIDE 0207 DAEWOO 0060, 0061, 0120, 0205, 01	ASUKA		CONTINENTA					
ATORI 0217 CRAIG 0062 FIRSTLINE 0213, 0215, 0217 HOSHAI 0209, 0218 AUDIOSONIC 0207, 0208, 0209, 0207, 0208, 0209, 0213, 0216, 0217 CROWN 0662, 0663, 0128, 0214 0213, 0214 HYGASHI 0200, 0207, 0208, 0209, 0213, 0216 AUDIOTON 0218 CS ELECTRONICS 0208, 0213, 0217 FISHER 0664, 0127, 0128, 0215 HYPER 0200, 0207, 0208, 0214, 0215 AUDIOTON 0207 0208 0200, 0207, 0209, 0207, 0209, 0207, 0209 FLINT 0213, 0218 HYPSON 0206, 0207, 0213, 0215 AUDIOVOX 0662 0214, 0218 FORMENTI 0200, 0205, 0207, 0215 0214, 0215 AWA 0200 CURTIS MATHES FORMENTI-PHOENIX 1CE 0127, 0200, 0206, 0207, 0208, 0209, 0213, 0216 BANG & OLUFSEN 0064, 0065 FORTRESS 0205 ICES 0200, 0213, 0218 BASIC LINE 0208, 0209, 0213, 0218 CYBERTRON 0209, 0218 0211, 0214 IMPERIAL 0211, 0213, 0214, 0214, 0214, 0213, 0214 BASTIDE 0207 0200, 0207, 0208, 0209, 0213, 0209, 0213, 0218 0212, 0215, 0209, 0209, 0213, 0209, 02	ATTI A NITTICI	,	COCME				HODNIVDHON	
ATORI 0208 CROSLEY 0205, 0214, 0215 FIRSTLINE 0200, 0207, 0208, 0209, 0213, 0214 HUANYU 0200, 0207 0208, 0209, 0209, 0213, 0214 AUDIOSONIC 0207, 0208, 0209, 0213, 0216, 0217, 0218, 0218 CROWN 0062, 0063, 0128, 0208, 0213, 0217 FISHER 0064, 0127, 0128, 0064, 0127, 0128, 0204, 0207, 0208, 0214, 0215 HYPER 0200, 0207, 0208, 0207, 0208, 0207, 0215 AUDIOTON 0207 0200, 0207, 0209, 0207, 0209, 0214, 0218 FINSTLINE 0064, 0127, 0128, 0064, 0127, 0128, 0214, 0215 HYPSON 0204, 0207, 0208, 0207, 0213 AUDIOTON 0207 0200, 0207, 0209, 0218 FORMENTI 0200, 0205, 0207, 0207, 0207, 0217 D217 0217 0217 0217 0217 0217 0207, 0208, 0207, 0215 0217 0217 0200, 0207, 0213, 0213, 0214 0217 0200, 0207, 0215 0214, 0215 0214, 0215 0217 0217 0217 0217 0213, 0218 0217 0217 0217 0217 0217 0217 0200, 0207, 0208, 0207, 0208, 0207, 0208, 0209, 0218 0205 0205 0206, 0208, 0210, 0208, 0209, 0218 0206, 0208, 0210, 0214 0218 0211, 0213, 0214, 0215 0215 02	AILANIIC				FINLUX			
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	ATODI				EIDCTI INE			
Delta Del					TIKSTEINE			
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Noblosoffic		CROWN		FISHER			
AUDIOTON 0207 0207, 0209, AUDIOTON 0206, 0207, 0209, AUDIOVOX 0062 0214, 0218 FORMENTI 0200, 0205, 0207, 0208, 0207 0217 AUTOVOX 0205, 0206, 0207 CTC 0214 0215, 0217 ICE 0127, 0200, 0206, 0207, 0208, 0209, 0208, 0209, 0208, 0209, 0218 BANG 0206 0215, 0216 0057, 0060, 0061, 0200 0206, 0207, 0208, 0209, 0208, 0209, 0218, 0205 ICES 0200, 0218, 0218 BASIC LINE 0208, 0209, 0213, CYBERTRON 0209, 0218 0218 0211, 0214 IMPERIAL 0211, 0213, 0214, 0218 BASTIDE 0207 0208, 0209, 0213, 0209, 0218, 0209 0218 0210, 0218 BASTIDE 0207 0208, 0209, 0218, 0209, 0218, 0209, 0218, 0219, 0218, 0218 BASTIDE 0207 0208, 0209, 0218, 0209, 0218, 0209, 0218, 0210, 0218,			CS ELECTRO		TISTIER		IIII LIK	
AUDIOVOX 0062 0214, 0218 FORMENTI DO200, 0205, 0207, 0207, 0207, 0207, 0217 0217 AUTOVOX 0205, 0206, 0207 CTC 0214 0215, 0217 ICE 0127, 0200, 0206, 0206, 0207, 0208, 0209, 0208, 0209, 0218 AWA 0200 CURTIS MATHES FORMENTI-PHOENIX 0200 0213, 0218 BANG & OLUFSEN 0057, 0060, 0061, 0065 FORTRESS 0205 ICES 0200, 0218 BASIC LINE 0208, 0209, 0213, 0298, 0209, 0213, 0299, 0218 CYBERTRON 0209, 0218 0211, 0214 IMPERIAL 0211, 0213, 0214, 0214 BASTIDE 0207 0127, 0155, 0193, 0062, 007, 0208, 007, 007, 007, 007, 007, 007, 007, 0	AUDIOTON				FLINT		HYPSON	
AUTOVOX 0205, 0206, 0207 CTC 0214 0215, 0217 ICE 0127, 0200, 0206, AWA 0200 CURTIS MATHES FORMENTI-PHOENIX 0207, 0208, 0209, BAIRD 0216 0057, 0060, 0061, 0200 CURTIS MATHES 0064, 0065 FORTRESS 0205 ICES 0200, 0218 0205 CXC 0062 FRONTECH 0206, 0208, 0210, IMA 0662 BASIC LINE 0208, 0209, 0213, 0218 0218, 0219 0218 0218 0218 0218 0219, 0218 0219, 0218 0219, 0218 0219, 0218 0219, 0218 0219, 0218 0219, 0218 0219, 0218 0219, 0218 0219, 0218 0219, 0219, 0218 0219, 0218 0219, 0219, 0218 0217 0127, 0155, 0193, 0214, 0217, 0155, 0193, 0214, 0217, 0155, 0193, 0214, 0217, 0159, 0198, 0217 0218, 0218, 0219, 0218 0217, 0151, 0218, 0218, 0219, 0218, 0219, 0218, 0219, 0219, 0218, 0219,						,		
BAIRD 0216 0057, 0060, 0061, 0061, 0061 0200 0213, 0218 BANG & OLUFSEN 0064, 0065 FORTRESS 0205 ICES 0200, 0218 BASIC LINE 0208, 0209, 0213, 0248 CYBERTRON 0209, 0218 0211, 0214 IMPERIAL 0211, 0213, 0214, 0214, 0215, 0215 BASTIDE 0207 0127, 0155, 0193, 0127, 0155, 0193, 0127 FUNAI 0033, 0034, 0035, 017, 0161, 017	AUTOVOX	0205, 0206, 0207	CTC	0214		0215, 0217	ICE	0127, 0200, 0206,
BANG & OLUFSEN 0064, 0065 FORTRESS 0205 ICES 0200, 0218 BASIC LINE 0208, 0209, 0213, CYBERTRON 0209, 0218 0211, 0214 IMA 0062 BASTIC LINE 0208, 0209, 0213, CYBERTRON 0209, 0218 0211, 0214 IMPERIAL 0211, 0213, 0214, BASTIDE 0207 0127, 0155, 0193, FUJITSU 0033, 0024, 0025, INDIANA 0213, 0217 BAUR 0217 0200, 0207, 0208, FUNAI 0033, 0034, 0035, INFINITY 063 BEKO 0228 0213, 0218, 0238 0036, 0037, 0062, INGELEN 0211	AWA	0200	CURTIS MATE	HES	FORMENTI-P	HOENIX		0207, 0208, 0209,
BASIC LINE 0205 CXC 0062 FRONTECH 0206, 0208, 0210, 0210, 0062 IMA 0062 BASIC LINE 0208, 0209, 0213, 0219, 0218 0211, 0214 IMPERIAL 0211, 0213, 0214, 0214, 0215, 0213, 0214, 0215 BASTIDE 0207 0127, 0155, 0193, 0104, 01	BAIRD	0216		0057, 0060, 0061,		0200		0213, 0218
BASIC LINE 0208, 0209, 0213, 0219, 0218 CYBERTRON 0209, 0218 0211, 0214 IMPERIAL 0211, 0213, 0214, 0215 BASTIDE 0207 0127, 0155, 0193, 0209, 0208, 0209, 0207, 0208, 0209, 0207, 0208, 0209, 0207, 0208, 0209, 0207, 0208, 0209	BANG & OLU	IFSEN			FORTRESS	0205	ICES	
BASTIDE 0218 DAEWOO 0060, 0061, 0120, 0120, 0120, 0127, 0155, 0193, 0127 FUJITSU 0023, 0024, 0025, 0024, 0025, 0127 0215 BAUR 0217 0217 0200, 0207, 0208,					FRONTECH			
BASTIDE 0207 0127, 0155, 0193, 0088, 0127 INDIANA 0213, 0217 BAUR 0217 0200, 0207, 0208, FUNAI 0033, 0034, 0035, INFINITY 0063 BEKO 0228 0213, 0218, 0238 0036, 0037, 0062, INGELEN 0211	BASIC LINE				*******		IMPERIAL	
BAUR 0217 0200, 0207, 0208, FUNAI 0033, 0034, 0035, INFINITY 0063 BEKO 0228 0213, 0218, 0238 0036, 0037, 0062, INGELEN 0211	D 4 COVER		DAEWOO		FUJITSU		DIDIAN	
BEKO 0228 0213, 0218, 0238 0036, 0037, 0062, INGELEN 0211					ETINIAT			
					runai			
DELCOR 0000 110ERGOL 0200				0213, 0210, 0230				
	BLLCOK	0000				0200	HOLKSOL	0200

INNO HIT	0201, 0204, 0207,	MAGNADYNE	3	OLEVIA	0052, 0084	PROTECH	0206, 0207, 0208,
	0208, 0209, 0213,		0204, 0205, 0214,	ONCEAS	0207		0213, 0214, 0215,
	0217, 0218		0215, 0217	ONWA	0062, 0218		0217
INNOVATION	0206, 0208	MAGNAFON	0200, 0204, 0207	ORBIT	0213	PROTON	0060, 0061
INTERBUY	0208, 0214	MAGNAVOX	0060, 0061, 0063,	ORION	0126, 0204, 0208,	PROVIEW	0050
INTERFUNK	0205, 0211, 0213,		0102, 0103, 0150		0213, 0217, 0235	PROVISION	0217
	0214, 0216, 0217	MAGNUM	0206, 0208	ORLINE	0218	PULSAR	0060
INTERNATIO	NAL	MAJESTIC	0058	ORSOWE	0204	PYE	0213, 0217
	0200	MANDOR	0206	OSAKI	0127, 0206, 0207,	PYMI	0208
INTERVISION	0206, 0207, 0218	MANESTH	0206, 0207, 0213,		0209, 0218	QUASAR	0152, 0214
IRRADIO	0201, 0208, 0209,		0217	OSIO	0201	QUELLE	0201, 0206, 0207,
	0213, 0217, 0218	MARANTZ	0060, 0061, 0063,	OSO	0209, 0218		0213, 0214, 0215,
ISUKAI	0209, 0218		0090, 0213, 0217	OSUME	0218		0217
ITC	0207, 0215	MARELLI	0205	OTTO VERSA	.ND	RADIALVA	0218
ITS	0200, 0209, 0213,	MARK	0200, 0213, 0217		0204, 0207, 0213,	RADIO SHAC	K
	0218	MATSUI	0204, 0207, 0208,		0215, 0216, 0217,		0064
ITT	0129, 0208, 0211		0210, 0213, 0217		0255	RADIO SHAC	K/REALISTIC
ITV	0208, 0217	MEDIATOR	0213, 0217	PAEL	0200, 0207		0057, 0060, 0061,
JBL	0063	MEDION	0206, 0208	PALLADIUM			0062, 0064
JC PENNEY	0057, 0060, 0061	MEGATRON	0061	PANAMA	0200, 0206, 0207,	RADIOLA	0213, 0217
JCB	0059	MELECTRON			0208	RADIOMARE	
JENSEN	0060, 0061	EEEE CTTOT	0200, 0207, 0208,	PANASONIC	0006, 0007, 0063,	TO ID TO MILE	0204, 0205, 0214
JVC	0017, 0018, 0019,		0211, 0213, 0216,	minisonie	0073, 0074, 0097,	RADIOTONE	
310	0108, 0136, 0153,		0217, 0213, 0210,		0110, 0114, 0137,	RCA	0057, 0060, 0061,
	0178, 0190, 0213,	MEMOREX	0058, 0061, 0064,		0141, 0151, 0162,	KC/1	0091, 0133, 0135,
	0218	MEMOREX	0208		0165, 0186, 0204,		0147, 0149
KAISUI	0200, 0207, 0208,	MEMPHIS	0208		0211, 0244, 0245,	REALISTIC	0064
KAISUI	0209, 0218	METZ	0205		0246, 0254	REVOX	0213, 0217
KAMOSONIC		MGA	0060, 0061	PATHE CINEN		REX	0206, 0210, 0211
KAMP	0207	MICROMAXX		FATHE CINEN	0200, 0203, 0207,	RFT	0203, 0205
					0200, 0203, 0207, 0212, 0215		
KAPSCH KARCHER	0211 0207, 0208, 0212,	MICROSTAR	0206, 0208 0204	PATHE MARC	,	RHAPSODY R-LINE	0200 0213, 0217
KARCHER		MINERVA		PATTE MAKE			0213, 0217
IZ ANNA CHIO	0217	MINOKA	0213	DATICA	0212, 0216	ROADSTAR	
KAWASHO	0059, 0060, 0061,	MITSUBISHI		PAUSA	0208	DODOTRON	0218, 0237
KENDO	0200		0048, 0060, 0061,	PERDIO	0200	ROBOTRON	0205
KENDO	0128, 0210		0104, 0112, 0113,	PHILCO	0060, 0061, 0063,	ROWA	0200
KENNEDY	0215	MINAR	0125, 0205, 0213		0128, 0205, 0214,	RTF	0205
KENWOOD	0060, 0061	MIVAR	0200, 0201, 0202,		0215	SABA	0204, 0205, 0211,
KINGSLEY	0200, 0207		0203, 0204, 0207	PHILHARMO!			0216
KLOSS NOVA	BEAM	MONTGOME	RY WARD		0207	SACCS	0212
KLOSS NOVA	BEAM 0062		RY WARD 0058	PHILHARMO: PHILIPS	0207 0040, 0060, 0063,	SACCS SAISHO	0212 0204, 0206, 0207,
KLOSS NOVA KNEISSEL	BEAM 0062 0203	MONTGOMER MTC	RY WARD 0058 0060, 0061, 0128,		0207 0040, 0060, 0063, 0072, 0115, 0116,	SAISHO	0212 0204, 0206, 0207, 0208
KLOSS NOVA KNEISSEL KOLSTER	BEAM 0062 0203 0213	MTC	RY WARD 0058 0060, 0061, 0128, 0200		0207 0040, 0060, 0063, 0072, 0115, 0116, 0124, 0130, 0150,		0212 0204, 0206, 0207, 0208 0201, 0204, 0210,
KLOSS NOVA KNEISSEL KOLSTER KONKA	BEAM 0062 0203 0213 0209, 0218		RY WARD 0058 0060, 0061, 0128, 0200 EM		0207 0040, 0060, 0063, 0072, 0115, 0116, 0124, 0130, 0150, 0175, 0184, 0187,	SAISHO SALORA	0212 0204, 0206, 0207, 0208 0201, 0204, 0210, 0211, 0215
KLOSS NOVA KNEISSEL KOLSTER KONKA KORPEL	BEAM 0062 0203 0213 0209, 0218 0213, 0217	MTC MULTI SYSTE	RY WARD 0058 0060, 0061, 0128, 0200 EM 0217		0207 0040, 0060, 0063, 0072, 0115, 0116, 0124, 0130, 0150, 0175, 0184, 0187, 0205, 0207, 0213,	SAISHO SALORA SAMBERS	0212 0204, 0206, 0207, 0208 0201, 0204, 0210, 0211, 0215 0204
KLOSS NOVA KNEISSEL KOLSTER KONKA KORPEL KORTING	BEAM 0062 0203 0213 0209, 0218 0213, 0217 0205	MTC MULTI SYSTE	RY WARD 0058 0060, 0061, 0128, 0200 EM 0217 0062, 0127, 0128,		0207 0040, 0060, 0063, 0072, 0115, 0116, 0124, 0130, 0150, 0175, 0184, 0187, 0205, 0207, 0213, 0215, 0217, 0220,	SAISHO SALORA	0212 0204, 0206, 0207, 0208 0201, 0204, 0210, 0211, 0215 0204 0060, 0061, 0083,
KLOSS NOVA KNEISSEL KOLSTER KONKA KORPEL KORTING KOYODA	BEAM 0062 0203 0213 0209, 0218 0213, 0217 0205 0208	MTC MULTI SYSTE	RY WARD 0058 0060, 0061, 0128, 0200 EM 0217 0062, 0127, 0128, 0200, 0207, 0208,		0207 0040, 0060, 0063, 0072, 0115, 0116, 0124, 0130, 0150, 0175, 0184, 0187, 0205, 0207, 0213, 0215, 0217, 0220, 0221, 0232, 0233,	SAISHO SALORA SAMBERS SAMPO	0212 0204, 0206, 0207, 0208 0201, 0204, 0210, 0211, 0215 0204 0060, 0061, 0083, 0101
KLOSS NOVA KNEISSEL KOLSTER KONKA KORPEL KORTING	BEAM 0062 0203 0213 0209, 0218 0213, 0217 0205	MTC MULTI SYSTE	RY WARD 0058 0060, 0061, 0128, 0200 EM 0217 0062, 0127, 0128,		0207 0040, 0060, 0063, 0072, 0115, 0116, 0124, 0130, 0150, 0175, 0184, 0187, 0205, 0207, 0213, 0215, 0217, 0220,	SAISHO SALORA SAMBERS	0212 0204, 0206, 0207, 0208 0201, 0204, 0210, 0211, 0215 0204 0060, 0061, 0083,
KLOSS NOVA KNEISSEL KOLSTER KONKA KORPEL KORTING KOYODA	BEAM 0062 0203 0213 0209, 0218 0213, 0217 0205 0208	MTC MULTI SYSTE MULTITECH	RY WARD 0058 0060, 0061, 0128, 0200 EM 0217 0062, 0127, 0128, 0200, 0207, 0208, 0210, 0214, 0215, 0217		0207 0040, 0060, 0063, 0072, 0115, 0116, 0124, 0130, 0150, 0175, 0184, 0187, 0205, 0207, 0213, 0215, 0217, 0220, 0221, 0232, 0233, 0252, 0253	SAISHO SALORA SAMBERS SAMPO	0212 0204, 0206, 0207, 0208 0201, 0204, 0210, 0211, 0215 0204 0060, 0061, 0083, 0101 0029, 0030, 0031, 0032, 0044, 0045,
KLOSS NOVA KNEISSEL KOLSTER KONKA KORPEL KORTING KOYODA KTV KYOTO LENCO	BEAM 0062 0203 0213 0209, 0218 0213, 0217 0205 0208 0062, 0127, 0207 0200, 0212 0208	MTC MULTI SYSTE	RY WARD 0058 0060, 0061, 0128, 0200 EM 0217 0062, 0127, 0128, 0200, 0207, 0208, 0210, 0214, 0215, 0217 0200, 0207	PHILIPS PHILIPS MAG	0207 0040, 0060, 0063, 0072, 0115, 0116, 0124, 0130, 0150, 0175, 0184, 0187, 0205, 0207, 0213, 0215, 0217, 0220, 0221, 0232, 0233, 0252, 0253 3NAVOX 0124	SAISHO SALORA SAMBERS SAMPO	0212 0204, 0206, 0207, 0208 0201, 0204, 0210, 0211, 0215 0204 0060, 0061, 0083, 0101 0029, 0030, 0031, 0032, 0044, 0045, 0046, 0047, 0060,
KLOSS NOVA KNEISSEL KOLSTER KONKA KORPEL KORTING KOYODA KTV KYOTO	BEAM 0062 0203 0213 0209, 0218 0213, 0217 0205 0208 0062, 0127, 0207 0200, 0212	MTC MULTI SYSTE MULTITECH	RY WARD 0058 0060, 0061, 0128, 0200 EM 0217 0062, 0127, 0128, 0200, 0207, 0208, 0210, 0214, 0215, 0217	PHILIPS	0207 0040, 0060, 0063, 0072, 0115, 0116, 0124, 0130, 0150, 0175, 0184, 0187, 0205, 0207, 0213, 0215, 0217, 0220, 0221, 0232, 0233, 0252, 0253	SAISHO SALORA SAMBERS SAMPO	0212 0204, 0206, 0207, 0208 0201, 0204, 0210, 0211, 0215 0204 0060, 0061, 0083, 0101 0029, 0030, 0031, 0032, 0044, 0045,
KLOSS NOVA KNEISSEL KOLSTER KONKA KORPEL KORTING KOYODA KTV KYOTO LENCO LENCO LENOIR LESA	BEAM 0062 0203 0213 0209, 0218 0213, 0217 0205 0208 0062, 0127, 0207 0200, 0212 0208 0207, 0208 0214	MTC MULTI SYSTE MULTITECH MURPHY	RY WARD 0058 0060, 0061, 0128, 0200 EM 0217 0062, 0127, 0128, 0200, 0207, 0208, 0210, 0214, 0215, 0217 0200, 0207 0061 0210	PHILIPS PHILIPS MAG	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	SAISHO SALORA SAMBERS SAMPO	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,
KLOSS NOVA KNEISSEL KOLSTER KONKA KORPEL KORTING KOYODA KTV KYOTO LENCO LENCO	BEAM 0062 0203 0213 0209, 0218 0213, 0217 0205 0208 0062, 0127, 0207 0200, 0212 0208 0207, 0208 0214 0206, 0213, 0217	MTC MULTI SYSTE MULTITECH MURPHY NAD	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,	PHILIPS PHILIPS MAG	0207 0040, 0060, 0063, 0072, 0115, 0116, 0124, 0130, 0150, 0175, 0184, 0187, 0205, 0207, 0213, 0215, 0217, 0220, 0221, 0232, 0233, 0252, 0253 SNAVOX 0124 0200, 0205, 0213,	SAISHO SALORA SAMBERS SAMPO	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,
KLOSS NOVA KNEISSEL KOLSTER KONKA KORPEL KORTING KOYODA KTV KYOTO LENCO LENCO LENOIR LESA	BEAM 0062 0203 0213 0209, 0218 0213, 0217 0205 0208 0062, 0127, 0207 0200, 0212 0208 0207, 0208 0214	MTC MULTI SYSTE MULTITECH MURPHY NAD NAONIS	RY WARD 0058 0060, 0061, 0128, 0200 EM 0217 0062, 0127, 0128, 0200, 0207, 0208, 0210, 0214, 0215, 0217 0200, 0207 0061 0210	PHILIPS PHILIPS MAG	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	SAISHO SALORA SAMBERS SAMPO	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,
KLOSS NOVA KNEISSEL KOLSTER KONKA KORPEL KORTING KOYODA KTV KYOTO LENCO LENCO LENOIR LESA LEYCO	BEAM 0062 0203 0213 0209, 0218 0213, 0217 0205 0208 0062, 0127, 0207 0200, 0212 0208 0207, 0208 0214 0206, 0213, 0217	MTC MULTI SYSTE MULTITECH MURPHY NAD NAONIS	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 PHILIPS MAG	0207 0040, 0060, 0063, 0072, 0115, 0116, 0124, 0130, 0150, 0175, 0184, 0187, 0205, 0207, 0213, 0215, 0217, 0220, 0221, 0232, 0233, 0252, 0253 SNAVOX 0124 0200, 0205, 0213, 0217 0200, 0205, 0213,	SAISHO SALORA SAMBERS SAMPO	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,
KLOSS NOVA KNEISSEL KOLSTER KONKA KORPEL KORTING KOYODA KTV KYOTO LENCO LENCO LENOIR LESA LEYCO	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,	MTC MULTI SYSTE MULTITECH MURPHY NAD NAONIS NEC	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	0207 0040, 0060, 0063, 0072, 0115, 0116, 0124, 0130, 0150, 0175, 0184, 0187, 0205, 0207, 0213, 0215, 0217, 0220, 0221, 0232, 0233, 0252, 0253 SNAVOX 0124 0200, 0205, 0213, 0217 0200, 0205, 0213, 0217	SAISHO SALORA SAMBERS SAMPO	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,
KLOSS NOVA KNEISSEL KOLSTER KONKA KORPEL KORTING KOYODA KTV KYOTO LENCO LENCO LENOIR LESA LEYCO	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,	MTC MULTI SYSTE MULTITECH MURPHY NAD NAONIS NEC	RY WARD 0058 0060, 0061, 0128, 0200 SM 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 PILOT	0207 0040, 0060, 0063, 0072, 0115, 0116, 0124, 0130, 0150, 0175, 0184, 0187, 0205, 0207, 0213, 0215, 0217, 0220, 0221, 0232, 0233, 0252, 0253 BNAVOX 0124 0200, 0205, 0213, 0217 0200, 0205, 0213, 0217 0200, 0205, 0213, 0217 0060	SAISHO SALORA SAMBERS SAMPO	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,
KLOSS NOVA KNEISSEL KOLSTER KONKA KORPEL KORTING KOYODA KTV KYOTO LENCO LENCO LENOIR LESA LEYCO	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,	MTC MULTI SYSTE MULTITECH MURPHY NAD NAONIS NEC	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 PILOT	0207 0040, 0060, 0063, 0072, 0115, 0116, 0124, 0130, 0150, 0175, 0184, 0187, 0205, 0207, 0213, 0215, 0217, 0220, 0221, 0232, 0233, 0252, 0253 SNAVOX 0124 0200, 0205, 0213, 0217 0200, 0205, 0213, 0217 0200, 0205, 0213, 0217 0060 0012, 0013, 0060,	SAISHO SALORA SAMBERS SAMPO	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,
KLOSS NOVA KNEISSEL KOLSTER KONKA KORPEL KORTING KOYODA KTV KYOTO LENCO LENCO LENOIR LESA LEYCO	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,	MTC MULTI SYSTE MULTITECH MURPHY NAD NAONIS NEC NECKERMAN	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, 0213, 0217, 0255	PHILIPS MAG PHOENIX PHONOLA PILOT	0207 0040, 0060, 0063, 0072, 0115, 0116, 0124, 0130, 0150, 0175, 0184, 0187, 0205, 0207, 0213, 0215, 0217, 0220, 0221, 0232, 0233, 0252, 0253 SNAVOX 0124 0200, 0205, 0213, 0217 0200, 0205, 0213, 0217 0200, 0205, 0213, 0217 0060 0012, 0013, 0060, 0061, 0098, 0109,	SAISHO SALORA SAMBERS SAMPO	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,
KLOSS NOVA KNEISSEL KOLSTER KONKA KORPEL KORTING KOYODA KTV KYOTO LENCO LENCO LENOIR LESA LEYCO	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,	MTC MULTI SYSTE MULTITECH MURPHY NAD NAONIS NEC NECKERMAN	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, 0213, 0217, 0255 0213, 0217	PHILIPS MAG PHOENIX PHONOLA PILOT	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 0200, 0205, 0213, 0217 0060 0012, 0013, 0060, 0061, 0098, 0109, 0117, 0128, 0181,	SAISHO SALORA SAMBERS SAMPO	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,
KLOSS NOVA KNEISSEL KOLSTER KONKA KORPEL KORTING KOYODA KTV KYOTO LENCO LENCO LENOIR LESA LEYCO	BEAM 0062 0203 0213 0219 0218 0213, 0217 0205 0208 0062, 0127, 0207 0200, 0212 0208 0214 0206, 0213, 0217 0016, 0038, 0039, 0127, 0128, 0157, 0158, 0163, 0164, 0166, 0188, 0189, 0200, 0201, 0207, 0208, 0210, 0213,	MTC MULTI SYSTE MULTITECH MURPHY NAD NAONIS NEC NECKERMAN NEI NESCO NET-TV	RY WARD 0058 0060, 0061, 0128, 0200 SM 0217 0062, 0127, 0128, 0200, 0207, 0208, 0210, 0214, 0215, 0217 0200, 0207 0061 0210 0026, 0053, 0060, 0061, 0096, 0127 IN 0205, 0207, 0213, 0217, 0255 0213, 0217, 0214	PHILIPS MAG PHOENIX PHONOLA PILOT	0207 0040, 0060, 0063, 0072, 0115, 0116, 0124, 0130, 0150, 0175, 0184, 0187, 0205, 0207, 0213, 0215, 0217, 0220, 0221, 0232, 0233, 0252, 0253 SNAVOX 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,	SAISHO SALORA SAMBERS SAMPO	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,
KLOSS NOVA KNEISSEL KOLSTER KONKA KORPEL KORTING KOYODA KTV KYOTO LENCO LENCO LENCO LENCO LESA LEYCO LG	BEAM 0062 0203 0213 0209, 0218 0213, 0217 0205 0208 0062, 0127, 0207 0200, 0212 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	MTC MULTI SYSTE MULTITECH MURPHY NAD NAONIS NEC NECKERMAN NEI NESCO	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, 0213, 0217, 0255 0213, 0217 0214 0082, 0101 0208, 0213	PHILIPS MAG PHOENIX PHONOLA PILOT	0207 0040, 0060, 0063, 0072, 0115, 0116, 0124, 0130, 0150, 0175, 0184, 0187, 0205, 0207, 0213, 0215, 0217, 0220, 0221, 0232, 0233, 0252, 0253 SINAVOX 0124 0200, 0205, 0213, 0217 0200, 0205, 0213, 0217 0060 0012, 0013, 0060, 0061, 0098, 0109, 0117, 0128, 0181, 0182, 0194, 0195, 0211, 0213, 0216,	SAISHO SALORA SAMBERS SAMPO SAMSUNG	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
KLOSS NOVA KNEISSEL KOLSTER KONKA KORPEL KORTING KOYODA KTV KYOTO LENCO LENCO LENOIR LESA LEYCO LG	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	MTC MULTI SYSTE MULTITECH MURPHY NAD NAONIS NEC NECKERMAN NEI NESCO NET-TV NEW TECH	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, 0213, 0217, 0255 0213, 0217 0214 0082, 0101 00208, 0213 0209, 0218	PHILIPS MAG PHOENIX PHONOLA PILOT PIONEER	0207 0040, 0060, 0063, 0072, 0115, 0116, 0124, 0130, 0150, 0175, 0184, 0187, 0205, 0207, 0213, 0215, 0217, 0220, 0221, 0232, 0233, 0252, 0253 SNAVOX 0124 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	SAISHO SALORA SAMBERS SAMPO SAMSUNG	0212 0204, 0206, 0207, 0208 0201, 0204, 0210, 0211, 0215 0204 0060, 0061, 0083, 0101 0029, 0030, 0031, 0032, 0044, 0045, 0046, 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
KLOSS NOVA KNEISSEL KOLSTER KONKA KORPEL KORTING KOYODA KTV KYOTO LENCO LENCO LENOIR LESA LEYCO LG	BEAM 0062 0203 0213 0219 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 0217 0206, 0208	MTC MULTI SYSTE MULTITECH MURPHY NAD NAONIS NEC NECKERMAN NEI NESCO NET-TV NEW TECH NEW WORLD	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, 0213, 0217, 0255 0213, 0217 0214 0082, 0101 0208, 0213 0209, 0218	PHILIPS MAG PHOENIX PHONOLA PILOT PIONEER	0207 0040, 0060, 0063, 0072, 0115, 0116, 0124, 0130, 0150, 0175, 0184, 0187, 0205, 0207, 0213, 0215, 0217, 0220, 0221, 0232, 0233, 0252, 0253 SNAVOX 0124 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	SAISHO SALORA SAMBERS SAMPO SAMSUNG	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
KLOSS NOVA KNEISSEL KOLSTER KONKA KORPEL KORTING KOYODA KTV KYOTO LENCO LENOIR LESA LEYCO LG LIESENK LIFE LIFETEC	BEAM 0062 0203 0213 0219 0209, 0218 0213, 0217 0205 0208 0062, 0127, 0207 0200, 0212 0208 0208 0214 0206, 0213, 0217 0016, 0038, 0039, 0127, 0128, 0157, 0158, 0164, 0166, 0188, 0189, 0200, 0201, 0207, 0208, 0210, 0213, 0214, 0215, 0217 0217 0206, 0208 0206, 0208, 0218	MTC MULTI SYSTE MULTITECH MURPHY NAD NAONIS NEC NECKERMAN NEI NESCO NET-TV NEW TECH NEW WORLD NICAMAGIC	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, 0213, 0217, 0255 0213, 0217 0214 0082, 0101 0208, 0213 0209, 0218 0200, 0207	PHILIPS MAG PHOENIX PHONOLA PILOT PIONEER PLANTRON POLAROID	0207 0040, 0060, 0063, 0072, 0115, 0116, 0124, 0130, 0150, 0175, 0184, 0187, 0205, 0207, 0213, 0215, 0217, 0220, 0221, 0232, 0233, 0252, 0253 SNAVOX 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	SAISHO SALORA SAMBERS SAMPO SAMSUNG	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,
KLOSS NOVA KNEISSEL KOLSTER KONKA KORPEL KORTING KOYODA KTV KYOTO LENCO LENCO LENOIR LESA LEYCO LG LIESENK LIFE LIFETEC LOEWE	BEAM 0062 0203 0213 0219 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, 0210, 0213, 0214, 0215, 0217 0217 0206, 0208, 0218, 0063, 0128, 0203, 0218, 0063, 0128, 0203,	MTC MULTI SYSTE MULTITECH MURPHY NAD NAONIS NEC NECKERMAN NEI NESCO NET-TV NEW TECH NEW WORLD NICAMAGIC	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, 0214, 0213, 0217, 0255 0213, 0217, 0214 0082, 0101 0208, 0213 0209, 0218 0200, 0207, 0200, 0206, 0207, 0200, 0206, 0207, 0200, 0206, 0207, 0200, 0206, 0207, 0200, 0206, 0207, 0200	PHILIPS PHILIPS MAG PHOENIX PHONOLA PILOT PIONEER PLANTRON POLAROID POPPY	0207 0040, 0060, 0063, 0072, 0115, 0116, 0124, 0130, 0150, 0175, 0184, 0187, 0205, 0207, 0213, 0215, 0217, 0220, 0221, 0232, 0233, 0252, 0253 SNAVOX 0124 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	SAISHO SALORA SAMBERS SAMPO SAMSUNG	0212 0204, 0206, 0207, 0208 0201, 0204, 0210, 0211, 0215 0204 0060, 0061, 0083, 0101 0029, 0030, 0031, 0032, 0044, 0045, 0066, 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,
KLOSS NOVA KNEISSEL KOLSTER KONKA KORPEL KORTING KOYODA KTV KYOTO LENCO LENCO LENOIR LESA LEYCO LG LIESENK LIFE LIFETEC LOEWE	BEAM 0062 0203 0213 0209, 0218 0213, 0217 0205 0208 0062, 0127, 0207 0200, 0212 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, 0210, 0213, 0214, 0215, 0217 0217 0206, 0208, 0218, 0063, 0128, 0203, 0204, 0223, 0227	MULTI SYSTE MULTITECH MURPHY NAD NAONIS NEC NECKERMAN NEI NESCO NET-TV NEW TECH NEW WORLD NICAMAGIC NIKKAI	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, 0213, 0217, 0255 0213, 0217 0214 0082, 0101 0208, 0213 0209, 0218 0200, 0207 0200, 0206, 0207, 0209, 0213, 0217, 0209, 0213, 0217,	PHILIPS MAG PHOENIX PHONOLA PILOT PIONEER PLANTRON POLAROID POPPY PORTLAND	0207 0040, 0060, 0063, 0072, 0115, 0116, 0124, 0130, 0150, 0175, 0184, 0187, 0205, 0207, 0213, 0215, 0217, 0220, 0221, 0232, 0233, 0252, 0253 SNAVOX 0124 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	SAISHO SALORA SAMBERS SAMPO SAMSUNG	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, 0176, 0183, 0185, 0200, 0201, 0206, 0207, 0208, 0213, 0217, 0239, 0241, 0242, 0243 0200, 0207 0123, 0126, 0213 0020, 0207 0123, 0126, 0213 0020, 0207 0123, 0126, 0213 0020, 0207 0049, 0060, 0064, 0127, 0128, 0200,
KLOSS NOVA KNEISSEL KOLSTER KONKA KORPEL KORTING KOYODA KTV KYOTO LENCO LENCO LENCO LENCO LENCO LESA LEYCO LG LIESENK LIFE LIFETEC LOEWE LOEWE OPTA	BEAM 0062 0203 0213 0209, 0218 0213, 0217 0205 0208 0062, 0127, 0207 0200, 0212 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, 0210, 0213, 0214, 0215, 0217 0217 0206, 0208, 0206, 0208, 0218 0063, 0128, 0203, 0204, 0223, 0227 0205, 0213, 0217	MTC MULTI SYSTE MULTITECH MURPHY NAD NAONIS NEC NECKERMAN NEI NESCO NET-TV NEW TECH NEW WORLD NICAMAGIC	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, 0213, 0217, 0255 0213, 0217 0214 0082, 0101 0208, 0213 0209, 0218 0200, 0207 0200, 0207, 0209, 0209, 0213, 0217, 0218	PHILIPS MAG PHOENIX PHONOLA PILOT PIONEER PLANTRON POLAROID POPPY PORTLAND	0207 0040, 0060, 0063, 0072, 0115, 0116, 0124, 0130, 0150, 0175, 0184, 0187, 0205, 0207, 0213, 0215, 0217, 0220, 0221, 0232, 0233, 0252, 0253 SNAVOX 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	SAISHO SALORA SAMBERS SAMPO SAMSUNG SANDRA SANDRA SANSUI SANYO	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, 0205
KLOSS NOVA KNEISSEL KOLSTER KONKA KORPEL KORTING KOYODA KTV KYOTO LENCO LENOIR LESA LEYCO LG LIESENK LIFE LIFETEC LOEWE LOEWE OPTAL LOGIK	BEAM 0062 0203 0213 0219, 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, 0217, 0208, 0210, 0217, 0206, 0208, 0210, 0217 0206, 0208 0206, 0208, 0218 0063, 0128, 0203, 0204, 0223, 0227 0205, 0213, 0217 0058 0210, 0217	MTC MULTI SYSTE MULTITECH MURPHY NAD NAONIS NEC NECKERMAN NEI NESCO NET-TV NEW TECH NEW WORLD NICAMAGIC NIKKAI NIKKO NOBLIKO	RY WARD 0058 0060, 0061, 0128, 0200 EM 0217 0062, 0127, 0128, 0200, 0207, 0208, 0217, 0218 0210, 0214, 0215, 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 0200, 0207	PHILIPS MAG PHOENIX PHONOLA PILOT PIONEER PLANTRON POLAROID POPPY PORTLAND PRANDONI-P	0207 0040, 0060, 0063, 0072, 0115, 0116, 0124, 0130, 0150, 0175, 0184, 0187, 0205, 0207, 0213, 0215, 0217, 0220, 0221, 0232, 0233, 0252, 0253 SNAVOX 0124 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	SAISHO SALORA SAMBERS SAMPO SAMSUNG SANDRA SANSUI SANYO	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, 0205
KLOSS NOVA KNEISSEL KOLSTER KONKA KORPEL KORTING KOYODA KTV KYOTO LENCO LENOIR LESA LEYCO LG LIESENK LIFE LIFETEC LOEWE LOEWE OPTA LOGIK LUMA LUMATRON	BEAM 0062 0203 0213 0219, 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 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 0207, 0205, 0213, 0217 0208, 0213, 0217	MULTI SYSTE MULTITECH MURPHY NAD NAONIS NEC NECKERMAN NEI NESCO NET-TV NEW TECH NEW WORLD NICAMAGIC NIKKAI NIKKO NOBLIKO NOGAMATIC	RY WARD 0058 0060, 0061, 0128, 0200 EM 0217 0062, 0127, 0128, 0200, 0207, 0208, 0217 0200, 0207, 0208, 0210, 0217 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, 0217, 0218 0061 0061 0000, 0207 0218	PHILIPS PHILIPS MAG PHOENIX PHONOLA PILOT PIONEER PLANTRON POLAROID POPPY PORTLAND PRANDONI-P PRECISION PRIMA	0207 0040, 0060, 0063, 0072, 0115, 0116, 0124, 0130, 0150, 0175, 0184, 0187, 0205, 0207, 0213, 0215, 0217, 0220, 0221, 0232, 0233, 0252, 0253 SNAVOX 0124 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	SAISHO SALORA SAMBERS SAMPO SAMSUNG SANDRA SANDRA SANSUI SANYO SBR SCHAUB LOR	0212 0204, 0206, 0207, 0208 0201, 0204, 0210, 0211, 0215 0204 0060, 0061, 0083, 0101 0029, 0030, 0031, 0032, 0044, 0045, 0066, 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
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	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, 0210, 0213, 0214, 0215, 0217 0206, 0208, 0210, 0213, 0214, 0215, 0217 0206, 0208, 0218, 0206, 0208, 0218, 0204, 0223, 0227, 0205, 0213, 0217 0058 0210, 0217 0058 0210, 0217 0210, 0217 0210, 0213, 0217 0210, 0213, 0217 0210, 0213, 0217 0210, 0213, 0217 0210, 0213, 0217 0210, 0213, 0217 0210, 0213, 0217 0213	MTC MULTI SYSTE MULTITECH MURPHY NAD NAONIS NEC NECKERMAN NEI NESCO NET-TV NEW TECH NEW WORLD NICAMAGIC NIKKAI NIKKO NOBLIKO NOGAMATIC NOKIA	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, 0213, 0217, 0255 0213, 0217 0214 0082, 0101 0208, 0213 0209, 0218 0200, 0207 0200, 0206, 0207, 0209, 0213, 0217, 0218 0061 0200, 0207 0218 0201 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 PROFEX	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, 0211, 0213, 0216, 0217, 0250 0206, 0213 0075 0208 0060, 0061 RINCE 0204, 0210 0208	SAISHO SALORA SAMBERS SAMPO SAMSUNG SANDRA SANSUI SANYO	0212 0204, 0206, 0207, 0208 0201, 0204, 0210, 0211, 0215 0204 0060, 0061, 0083, 0101 0029, 0030, 0031, 0032, 0044, 0045, 0066, 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, 0201, 0206, 0207, 0123, 0126, 0213 0020, 0021, 0202, 0049, 0060, 0064, 0127, 0128, 0200, 0201, 0203, 0207, 0215 0217 EENTZ 0211 0207, 0209, 0213,
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	BEAM 0062 0203 0213 0209, 0218 0213, 0217 0205 0208 0062, 0127, 0207 0200, 0212 0208 0214 0206, 0213, 0217 0016, 0038, 0039, 0127, 0128, 0164, 0166, 0188, 0189, 0200, 0201, 0207, 0208, 0214 0215, 0217 0217 0206, 0208, 0210, 0213, 0214, 0215, 0217 0217 0206, 0208, 0210, 0213, 0214, 0215, 0217 0217 0206, 0208, 0218, 0063, 0128, 0203, 0204, 0223, 0227 0205, 0213, 0217 0058 0210, 0217 0213 0060, 0201	MULTI SYSTE MULTITECH MURPHY NAD NAONIS NEC NECKERMAN NEI NESCO NET-TV NEW TECH NEW WORLD NICAMAGIC NIKKAI NIKKO NOBLIKO NOGAMATIC	RY WARD 0058 0060, 0061, 0128, 0200 SM 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 0213, 0217 0214 0082, 0101 0208, 0213 0209, 0218 0200, 0207 0200, 0206, 0207, 0209, 0213, 0217, 0218 0061 0200, 0207 02016 0129, 0211	PHILIPS PHILIPS MAG PHOENIX PHONOLA PILOT PIONEER PLANTRON POLAROID POPPY PORTLAND PRANDONI-P PRECISION PRIMA	0207 0040, 0060, 0063, 0072, 0115, 0116, 0124, 0130, 0150, 0175, 0184, 0187, 0205, 0207, 0213, 0215, 0217, 0220, 0221, 0232, 0233, 0252, 0253 SNAVOX 0124 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 0208	SAISHO SALORA SAMBERS SAMPO SAMSUNG SANDRA SANDRA SANSUI SANYO SBR SCHAUB LOR	0212 0204, 0206, 0207, 0208 0201, 0204, 0210, 0211, 0215 0204 0060, 0061, 0083, 0101 0029, 0030, 0031, 0032, 0044, 0045, 0066, 0067, 0068, 0069, 0071, 0079, 0087, 0127, 0128, 0130, 0144, 0160, 0161, 0170, 0176, 0183, 0185, 0200, 0201, 0206, 0201, 0206, 0207, 0208, 0213, 0217, 0239, 0241, 0242, 0243 0200, 0207 0123, 0126, 0213, 0127, 0128, 0200, 0207 0123, 0126, 0213, 0127, 0128, 0126, 0211, 0022, 0049, 0060, 0064, 0127, 0128, 0200, 0203, 0207, 0215 0217 ENTZ 0211 0207, 0209, 0213, 0215, 02215, 0216, 0217, 0215, 0216, 0217, 0215, 0216, 0217, 0215, 0216, 0217, 0215, 0216, 0217, 0215, 0216, 0217, 0216, 0217, 0216, 0217, 0216, 0217, 0216, 0217, 0216, 0217, 0216, 0217, 0216, 0217, 0216, 0217, 0216, 0217, 0216, 0217, 0216, 0217, 0216, 0217, 0216, 0217, 0209, 0213, 0215, 0216, 0217, 0208
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 LUXOR	BEAM 0062 0203 0213 0219 0219, 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 0217 0206, 0208 0206, 0208, 0218 0063, 0128, 0203, 0204, 0223, 0227 0205, 0213, 0217 0217 0217 0210, 0217 0217 0210, 0213, 0217 0058 0210, 0217 0213 0060, 0061 0201, 0207, 0210	MTC MULTI SYSTE MULTITECH MURPHY NAD NAONIS NEC NECKERMAN NEI NESCO NET-TV NEW TECH NEW WORLD NICAMAGIC NIKKAI NIKKO NOBLIKO NOGAMATIC NOKIA	RY WARD 0058 0060, 0061, 0128, 0200 EM 0217 0062, 0127, 0128, 0200, 0207, 0208, 0213, 0217 0062, 0053, 0060, 0061, 0096, 0127 IN 0205, 0207, 0210, 0213, 0217, 0255 0213, 0217 0214 0082, 0101 0208, 023 0209, 0213 0209, 0218 0200, 0207 0200, 0206, 0207, 0210, 0213 0219 0214 082, 0101 0208, 0213 0209, 0218 0200, 0207 0200, 0206, 0207, 0210, 0213 0219 0218 0201 0201 0201 0201 0201 0201 0201	PHILIPS MAGE PHOENIX PHONOLA PILOT PIONEER PLANTRON POLAROID POPPY PORTLAND PRANDONI-P PRECISION PRIMA PROFEX PROFI-TRONI	0207 0040, 0060, 0063, 0072, 0115, 0116, 0124, 0130, 0150, 0175, 0184, 0187, 0205, 0207, 0213, 0215, 0217, 0220, 0221, 0232, 0233, 0252, 0253 SNAVOX 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 0207 0208, 0211 0208 ICC 0213	SAISHO SALORA SAMBERS SAMPO SAMSUNG SANDRA SANSUI SANYO SBR SCHAUB LOR SCHNEIDER	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
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	BEAM 0062 0203 0213 0219 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 0206, 0208, 0218 0206, 0208, 0218 0206, 0208, 0218 0206, 0208, 0218 0206, 0208, 0218 0206, 0208, 0218 0207, 0210, 0217 0210, 0217 0213 0060, 0061 0201, 0207, 0210 0057, 0061, 0063,	MTC MULTI SYSTE MULTITECH MURPHY NAD NAONIS NEC NECKERMAN NEI NESCO NET-TV NEW TECH NEW WORLD NICAMAGIC NIKKAI NIKKO NOBLIKO NOGAMATIC NOKIA NORDMENDE	RY WARD 0058 0060, 0061, 0128, 0200 EM 0217 0062, 0127, 0128, 0200, 0207, 0208, 0210, 0214, 0215, 0217 0062, 0127, 0128, 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, 0218 0061 0200, 0207 0216 0129, 0211 E 0205, 0211, 0213, 0216	PHILIPS MAGE PHOENIX PHONOLA PILOT PIONEER PLANTRON POLAROID POPPY PORTLAND PRANDONI-P PRECISION PRIMA PROFEX PROFI-TRONI PROLINE	0207 0040, 0060, 0063, 0072, 0115, 0116, 0124, 0130, 0150, 0175, 0184, 0187, 0205, 0207, 0213, 0215, 0217, 0220, 0221, 0232, 0233, 0252, 0253 SNAVOX 0124 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 ICC 0213 0213	SAISHO SALORA SAMBERS SAMPO SAMSUNG SANDRA SANSUI SANYO SBR SCHAUB LOR SCHNEIDER SCOTCH	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, 0218 0061
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 LUXOR	BEAM 0062 0203 0213 0219 0219, 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 0217 0206, 0208 0206, 0208, 0218 0063, 0128, 0203, 0204, 0223, 0227 0205, 0213, 0217 0217 0217 0210, 0217 0217 0210, 0213, 0217 0058 0210, 0217 0213 0060, 0061 0201, 0207, 0210	MTC MULTI SYSTE MULTITECH MURPHY NAD NAONIS NEC NECKERMAN NEI NESCO NET-TV NEW TECH NEW WORLD NICAMAGIC NIKKAI NIKKO NOBLIKO NOGAMATIC NOKIA	RY WARD 0058 0060, 0061, 0128, 0200 EM 0217 0062, 0127, 0128, 0200, 0207, 0208, 0210, 0214, 0215, 0217 0062, 0127, 0128, 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, 0218 0061 0200, 0207 0216 0129, 0211 E 0205, 0211, 0213, 0216	PHILIPS MAGE PHOENIX PHONOLA PILOT PIONEER PLANTRON POLAROID POPPY PORTLAND PRANDONI-P PRECISION PRIMA PROFEX PROFI-TRONI	0207 0040, 0060, 0063, 0072, 0115, 0116, 0124, 0130, 0150, 0175, 0184, 0187, 0205, 0207, 0213, 0215, 0217, 0220, 0221, 0232, 0233, 0252, 0253 SNAVOX 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 0207 0208, 0211 0208 ICC 0213	SAISHO SALORA SAMBERS SAMPO SAMSUNG SANDRA SANSUI SANYO SBR SCHAUB LOR SCHNEIDER	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

SEG		1, 1021, 2041,
SEI-SINDYNE COOR		3, 1073, 2043,
SELECION	2106	
SELECO CO210, 0211, 0215 TELETEC CO288, 0214, 0217 YORX CO290, 0218 ZENITH 1025 SENORA CO210 CO210, 0211, 0215 TELETION CO200, 0213, 0216 CO210		9, 1074, 2039,
SENCORA COSS COSS TELETON COST C		4, 1075, 2044,
SENTRA 0218	2108	
SERINO 0.000		6, 2047
SHARP 0009, 0010, 0011, 0009, 0010, 0011, 0009, 0010, 0011, 0009, 0010, 0011, 0009, 0010, 0011, 0009, 0010, 0011, 0014, 0145, 0145, 0167, TEXET 0200, 0020, 0021, 0024, 0024, 0024, 0024, 0024, 0024, 0020, 0021,		
170 170		0.1012
10143, 0145, 0167, TEXET C0200, 0207 TV/DVD CCOMBO 1005		8, 1013
168, 169, 0198, 110MSON 0191, 0192, 0207, AIWA 1003, 2055 AIWA 1004		5
1044 1044		5, 1042, 1043,
SHORUN 0060		4, 1066
SIRCATEL 0212	1007,	7, 1043
SIEMENS 0.255		
SIERNA 0255 TOSHIBA 0027, 0043, 0053, 0054, 0078, RCA 2110 AMERICAN HIGH SIERRA 0213 0054, 0064, 0078, RCA 2013, 0135, 2050, 2050, 2016, 2014, 0215 AMSTRAD 1040, 0146, 0159, 2014, 0215 AMSTRAD 1042 SINOER 0205, 0214, 0215 0140, 0146, 0159, 710, 1011, 015 SYLVANIA 0134, 2052, 214, 215 ASHA 1043 SINUDIVNE 0204, 2005, 0215, 0217 TOWADA 0217 0207 TOSHIBA 0131, 2048, 0231, ASHA 1043 SOLAVOX 0211 TOWADA 0211, 0215 TOSHIBA 0131, 2048, 0231, ASHA 1042 SONOKO 0206, 0207, 0208, 0217 TRIDENT 0204 TVIVDVDVCR COMBO AUDIO DYNAMICS SONOLOR 0211 TRILIMPH 0204 SAMSUNG 0241, 1070, 2113 BAIRD 1042 SONY 0041, 0059, 0067, 0067, 0070,		3, 1050
SIBRRA OLIS 0054, 0064, 0064, 0078, 0078, 0078, 0078, 0078, 00799, 00799, 00799, 00799, 00799, 00799, 00799, 00799, 00799, 00799, 00799, 00799, 00799,		4, 1050
SIGNATURE 0058 0089,0090,0106 SILVA 2051 AMSTRAD 1045 SINGER 0205,0214,0215 0140,0146,0159 THOMSON 0226,2109 ASA 1045 SINUDYNE 0204,0205,0215 0140,0146,0159 THOMSON 0226,2109 ASA 1045 SINUDYNE 02017 TOWADA 0211,0215 TOSHIBA 0131, 2048,0231, ASHA 1045 SONOKO 0206,0207,0208, BASK 1045 SONOKO 0206,0207,0208, BASK 1045 SONOKO 0206,0207,0208, BASK 1045 SONOKO 0213,0217 TRINSTEC 0200 TV/DVD/VCR COMBO 1000 SONOKO 0211,0217 TRINSTER 0218 PANASONIC 0141, 1040,0257 AUDIO DYNAMICS SONOKO 0213,0217 TRINSTER 0214,0213 SAMSUNG 0241,1070,2113 BAIRD 1045 SONOKO 0213,0217 UHRR 0214,0213 SHAPP 0143, 1028,0208 BASK LINE 0214,0215 SONOKO 0085,0086,0174 0196,0199,0208, UNITED 0214,0215 O215 O225 O215		
SINUA 0.200 0.107, 0127, 0131, SYLVANIA 0.134, 2052 ANTIECH 1055 SINUDYNE 0.204, 0.205, 0.215, 0.140, 0.146, 0.159, THOMSON 0.226, 2.109 ASA 1045 SINUDYNE 0.204, 0.205, 0.215, 0.197, 0.225, 0.231, TOSHIBA 0.131, 2048, 0.231, ASHA 1.002 ASA 1045 ASHA 1.002 ASHA 1.002 ASA 1.003 ASHA 1.002 ASHA 1.002 ASA 1.003 ASHA 1.002 A		
SINUDYNE 0204, 0205, 0215, 0197, 0225, 0231, TOSHIBA 0131, 2048, 0231, ASHA 1002 10		
Name	1045,	5, 1046
SOLANOX 0211 TOWADA 0211, 0215 O200 TV/DVD/VCR COMBO O206, 0207, 0208, TRIDENT 0204 O206, 0207, 0208, TRIDENT 0204 O206, 0207, 0208 O207, 0208 O207, 0208, O207, 0208 O208, O207, 0208, O207, 0208 O208, O207, 0208, O207, O208, O207, O209, O209, O207, O209, O207, O209, O209, O207, O209, O207, O209, O209, O207, O209, O209, O207, O209, O207, O209, O209, O207, O209, O209, O207, O20		2, 1014
SOLAVOX O211 TRANSTEC O200 TV/DVD/VCR COMBO O206, 0207, 0208, TRIDENT O204 O206, 0207, 0208, O217 TRISTAR O218 PANASONIC O141, 1040, 2057 AUDIOVOX 1003 O205 O207, O241, 1070, 2113 BAIRD 1042 SAMSUNG O241, 1070, 2113 BAIRD 1042 O206, 0207, O213, 0217 UNIVERS UNIV		2, 1045, 1046,
SONOKO 0.206, 0.207, 0.208, TRIDENT 0.204 TV/DVD/VCR COMBO 1.000		
O213, 0217 TRISTAR O218 PANASONIC 0141, 1040, 2057 AUDIOVOX 1003 SONOLOR O211, 0213 TRIUMPH O204 SAMSUNG 0241, 1070, 2113 BAIRD 1042 SONTEC O213, 0217 UHER O211, 0213 SHARP 0143, 1028, 2059 BASIC LINE 1044 O204 O204, 0205, 0205, 0207, 0214, 0215 TOSHIBA 0142, 1041, 2058 BAUR 1040 O204 O204, 0205, 0205, 0207, 0214, 0215 TOSHIBA 0140, 1029, 2056 BEAUMARK 1040 O204, 0215, 0217 O204, 0216 O206, 0213, 0217 O204, 0215 O204, 0206, 0213, 0218 O204, 0206, 0213, 0217 O206, 0213, 0218 O206, 0201, 0206, 0213, 0218 O206, 0207, 0206, 0207, 0208, 0207, 0208, 0209, 0218 O206, 0207, 0209, 0218 O206, 0207, 0209, 0218 O206, 0207, 0209, 0218 O206, 0207, 0209, 0208, 0213 O206, 02013 O206, 02013 O206, 02013 O206, 02013 O206, 02013 O206, 02014, 0215, 0217 O206, 0213 O206, 0207, 0209, 0218 O206, 0207, 0209, 0207, 0209, 0208, 0208, 0218 O206, 0207, 0209, 0208, 0218 O206, 0207, 0209, 0208, 0213 O206, 0207, 0209, 0208, 0213 O206, 0208, 0213 O206, 0207, 0209, 0208, 0213 O206, 0208, 0213 O206, 0208, 0213 O206, 0207, 0209, 0208, 0208, 0213 O206, 0208, 0213 O206, 0207, 0209, 0208, 0208, 0213 O206, 0207, 0209, 0208, 0208, 0213 O206, 0207, 0209, 0208, 020		
SONOLOR C211 C213 C217 UHER C211, C213 SAMSUNG C241, 1070, 2113 BAIRD 1042		
SONY		2, 1043, 1047
0085, 0086, 0174, 0214, 0215 TOSHIBA 0140, 1029, 2056 BEAUMARK 1002 1006 1009 1028 1001 100	LINE 1044,	4, 1050
0196, 0199, 0208,	1046	
O219, 0234 UNIVERSUM O127, 0128, 0129, O2010, 2006, 0213, O209, 0218 O210, 0206, 0213, O217 O208, 0213, O217 O208, 0213, O217 O208, 0213, O217 O208, 0214, O216, 0213, O217 O218 O210, 0211, O213, O218 O210, 0213, O218 O210, 0211, O213 O218, O218 O219, O218, O218 O219, O218 O219, O218, O219, O218, O219, O218, O		2, 1014
SOUND & VISION 0201, 0206, 0213, VVCR COMBO BLAUPUNKT 1046 0209, 0218 0214, 0215, 0217 AIWA 0237, 1066 BROKSONIC 1012 BUSH 02247, 1066 BUSH 1044 0200, 0201, 0214, 0215, 0217 1067 CANDLE 1002 10		1
Note		
SOUNDESIGN 0060, 0061, 0062		2, 1013
SSS 0060, 0062 0214, 0215, 0217 067 CANDLE 1002		4, 1050, 1066
STANDARD 0207, 0208, 0209,	1003	3
STARLIGHT 0213, 0218 VICTOR 0213 GOODMANS 0240, 1069 CCE 1006 STARLIGHT 0217 VIDEOLOGIC 0200 GRUNDIG 0236, 1062 CGE 1042 STARLITE 0062 VIDEOLOGIQUE HITACHI 0156, 1039 CIMLINE 1044 STERN 0210, 0211 0218 MAGNAVOX 0150, 1033 COLORTYME 1002 SUNKAI 0208, 0218 VIDEOSAT 0214 ORION 0235, 1065 COLT 1006 SUNWOOD 0208, 0218 VIDEOSYSTEM PANASONIC 0151, 1034 CRAIG 1002 SUPRA 0200 VIDEOTECHNIC 1033, 1062, 1063 CROWN 1050 SUPRA 0208 0200 QUASAR 0152, 1035 CURTIS MATHES SUPRA 0208 0200 QUASAR 0152, 1035 CURTIS MATHES SUPRA 0208 VIDTECH 0060, 0061 RCA 0149, 1032 CURTIS MATHES SUPRA 0208 VIDTECH 0060, 0061		2, 1003
STARLIGHT 0217 VIDEOLOGIC 0200 GRUNDIG 0236, 1062 CGE 1042 STARLITE 0062 VIDEOLOGIQUE HITACHI 0156, 1039 CIMLINE 1044 STERNWY 0218 0200, 0207, 0209, JVC 0153, 1036 CITIZEN 1004 STERN 0210, 0211 0218 MAGNAVOX 0150, 1033 COLORTYME 1000 SUNKAI 0208, 0218 VIDEOSAT 0214 ORION 0235, 1065 COLT 1006 SUNWOOD 0208, 0213 VIDEOSYSTEM PANASONIC 0151, 1034 CRAIG 1002 SUPERLA 0200, 0204, 0207 0213 PHILIPS 0150, 0232, 0233, 1001 SUPRA 0200 VIDEOTECHNIC 1033, 1062, 1063 CROWN 1050 SUSUMU 0209 VIEWSONIC 0076, 0077, 0092, ROADSTAR 0152, 1035 CURTIS MATHES SUSUMU 0209 VIEWSONIC 0076, 0077, 0092, ROADSTAR 0237, 1066 D009 SYENEY 0200, 0207 VISIOLA		
STARLITE 0062 VIDEOLOGIQUE HITACHI 0150, 1039 CIMLINE 1044 STENWAY 0218 0200, 0207, 0209, JVC 0153, 1036 CITIZEN 1002 STERN 0210, 0211 0218 MAGNAVOX 0150, 1033 COLORTYME 1000 SUNKAI 0208, 0218 VIDEOSAT 0214 ORION 0235, 1065 COLT 1002 SUPERLA 0200, 0204, 0207 0213 PHILIPS 0150, 0232, 0233, 1014 SUPERLA 0200 VIDEOTECHNIC 1033, 1062, 1063 CROWN 1050 SUPRA 0208 0200 QUASAR 0152, 1035 CURTIS MATHES SUPRA 0208 VIDTECH 0060, 0061 RCA 0149, 1032 CURTIS MATHES SUSUMU 0209 VIEWSONIC 0076, 0077, 0092, ROADSTAR 0237, 1066 1009 SUTRON 0208 0200 VISIOLA 0200, 0207 ROADSTAR 0237, 1066 1005 SYLVANIA 0060, 0061, 0063, 0061, 0063, 0060, 0061, 0063		2, 1043
STENWAY 0218 0200, 0207, 0209, 0207, 0209, 0207, 0209, 0215, 1036 CITIZEN 1002 STERN 0210, 0211 0218 MAGNAVOX 0150, 1033 COLORTYME 1000 SUNKAI 0208, 0218 VIDEOSAT 0214 ORION 0235, 1065 COLT 1006 SUNWOOD 0208, 0213 VIDEOSYSTEM PANASONIC 0151, 1034 CRAIG 1002 SUPERLA 0200, 0204, 0207 0213 PHILIPS 0150, 0232, 0233, 1014 SUPRA 0200 VIDEOTECHNIC 1033, 1062, 1063 CROWN 1050 SUPRA 0208 0200 QUASAR 0152, 1035 CURTIS MATHES SUPREME 0059 VIDTECH 0060, 0061 RCA 0149, 1032 COWN 1050 SUTRON 0208 VIEWSONIC 0076, 0077, 0092, ROADSTAR 0237, 1066 0200 CYBERNEX 1002 SYLVANIA 0060, 0061, 0063, VISION 0213 SHARP 0144, 0239, 1027, CYBERNEX 1002 SYMPHONIC 0062, 0080 0213 <td></td> <td>4, 1050</td>		4, 1050
SUNKAI 0208, 0218 VIDEOSAT 0214 ORION 0235, 1065 COLT 1006 SUNWOOD 0208, 0213 VIDEOSYSTEM PANASONIC 0151, 1034 CRAIG 1002 SUPERLA 0200, 0204, 0207 0213 PHILIPS 0150, 0232, 0233, 1014 SUPRA 0200 VIDEOTECHNIC 1033, 1062, 1063 CROWN 1050 SUPRA 0208 0200 QUASAR 0152, 1035 CURTIS MATHES SUPREME 0059 VIDEOTECHNIC RCA 0149, 1032 CURTIS MATHES SURRON 0059 VIEWSONIC 0076, 0077, 0092, ROADSTAR 0237, 1066 1009 SUTRON 0208 0099, 0172, 0173 SAMSUNG 0144, 0239, 1027, CYBERNEX 1002 SYDNEY 0200, 0207 VISIOLA 0200, 0207 1068 DAEWOO 1005 SYLVANIA 0060, 0061, 0063, 0134, 0142, VORTEC 0213, 0217 SONY 0234, 1064 DANSAI 1050 SYMPHONIC 0062, 0080 0213 TATUNG 0237, 1066		2, 1003
SUNWOOD 0208, 0213 VIDEOSYSTEM PANASONIC 0151, 1034 CRAIG 1002 SUPERLA 0200, 0204, 0207 0213 PHILIPS 0150, 0232, 0233, 1014 1014 SUPERTECH 0200 VIDEOTECHNIC 1033, 1062, 1063 CROWN 1050 SUPRA 0208 0200 QUASAR 0152, 1035 CURTIS MATHES SUPREME 0059 VIDTECH 0060, 0061 RCA 0149, 1032 CURTIS MATHES SUSUMU 0209 VIEWSONIC 0076, 0077, 0092, ROADSTAR 0237, 1066 1009 SUTRON 0208 0099, 0172, 0173 SAMSUNG 0144, 0239, 1027, CYBERNEX 1002 SYDNEY 0200, 0207 VISIOLA 0200, 0207 1068 DAEWOO 1005 SYLVANIA 0060, 0061, 0063, VISION 0213 SHARP 0145, 1028 DANSAI 1067 SYMPHONIC 0062, 0080 0213, 0217 SONY 0234, 1064 DANTAX 1044 SYSLINE 0217 WALTHAM 0207, 0212 TOSHIBA	TYME 1000	0
SUPERLA 0200, 0204, 0207 0213 PHILIPS 0150, 0232, 0233, 1062, 1063 1014 SUPRA 0208 0200 QUASAR 0152, 1035 CROWN 1050 SUPREME 0059 VIDTECH 0060, 0061 RCA 0149, 1032 1000 SUSUMU 0209 VIEWSONIC 0076, 0077, 0092, 0092, 0237, 1066 0237, 1066 1009 SUTRON 0208 0099, 0172, 0173 SAMSUNG 0144, 0239, 1027, 027 CYBERNEX 1002 SYDNEY 0200, 0207 VISIOLA 0200, 0207 1068 DAEWOO 1005 SYLVANIA 0060, 0061, 0063, 0134, 0142, 0077, 0213 VORTEC 0213, 0217 SONY 0234, 1064 DANSAI 1067 SYMPHONIC 0062, 0080 0213 TATUNG 0237, 1066 DBX 1006 SYSLINE 0217 WALTHAM 0207, 0212 TOSHIBA 0146, 0237, 1029, DBX DE GRAAF 1046 SYTONG 0200 WARDS 0057, 0058, 0060, 0061, 0063 ZENITH 0154, 1037 DENON <	1006	
SUPERTECH 0200 VIDEOTECHNIC 1033, 1062, 1063 CROWN 1056 SUPRA 0208 0200 QUASAR 0152, 1035 CURTIS MATHES SUPRME 0059 VIDTECH 0060, 0061 RCA 0149, 1032 1000 SUSUMU 0209 VIEWSONIC 0076, 0077, 0092, 0092, 0027 ROADSTAR 0237, 1066 1009 SYDNEY 0200, 0207 VISIOLA 0200, 0207 1068 DAEWOO 1005 SYLVANIA 0060, 0061, 0063, 0134, 0142, 0074, 0075 VORTEC 0213, 0217 SONY 0234, 1064 DANSAI 1050 SYMPHONIC 0062, 0080 0213 TATUNG 0237, 1066 DBX 1006 SYSLINE 0217 WALTHAM 0207, 0212 TOSHIBA 0146, 0237, 1029, DBG (ABC) DE GRAAF 1046 SYTONG 0200 WARDS 0057, 0058, 0060, 0146 1066 DECCA 1042 TASHIKO 0200, 0207, 0210 WATT RADIO 0200, 0207, 0212 TOSHIBA 0146, 0237, 1029, DIMENSIA 1006 <td></td> <td>2, 1003, 1006,</td>		2, 1003, 1006,
SUPRA 0208 0200 QUASAR 0152, 1035 CURTIS MATHES SUPREME 0059 VIDTECH 0060, 0061 RCA 0149, 1032 1000 SUSUMU 0209 VIEWSONIC 0076, 0077, 0092, 0092, 0207 ROADSTAR 0237, 1066 1009 SYDNEY 0200, 0207 VISIOLA 0200, 0207 1068 DAEWOO 1005 SYLVANIA 0060, 0061, 0063, 0414, 0142, 04142, 04142, 04142, 04144 VORTEC 0213, 0217 SONY 0234, 1064 DANSAI 1050 SYMPHONIC 0060, 0080, 0134, 0142, 04144 VOXSON 0205, 0210, 0211, 0211, 0211, 0212 SYLVANIA 0148, 1031 0ANTAX 1044 SYSLINE 0217 WALTHAM 0207, 0212 0210, 0211, 0214, 0217 TOSHIBA 0146, 0237, 1029, 0E GRAF DE GRAF 1046 SYTONG 0200 WARDS 0057, 0058, 0060, 0160, 0063 ZENITH 0154, 1037 DENON 1016 TASHIKO 0200, 0207, 0210 WATT RADIO 0200, 0207, 0212 DVD/VCR COMBO DUAL 1043 TATUNG 0127, 0204,		
SUPREME 0059 VIDTECH 0060, 0061 RCA 0149, 1032 1000 SUSUMU 0209 VIEWSONIC 0076, 0077, 0092, 0092, 0099, 0172, 0173 ROADSTAR 0237, 1066 1009 SUTRON 0208 0099, 0172, 0173 SAMSUNG 0144, 0239, 1027, 0274 CYBERNEX 1002 SYDNEY 0200, 0207 VISIOLA 0200, 0207 1068 DAEWOO 1005 SYLVANIA 0060, 0061, 0063, 0134, 0142, 0088 VORTEC 0213, 0217 SONY 0234, 1064 DANSAI 1050 O148 VOXSON 0205, 0210, 0211, 0211, 0214, 0203, 0237, 1066 DBX 1000 SYMPHONIC 0062, 0080 0213 TATUNG 0237, 1066 DBX 1000 SYSLINE 0217 WALTHAM 0207, 0212 TOSHIBA 0146, 0237, 1029, DE GRAAF 1046 SYTONG 0200 WARDS 0057, 0058, 0060, 01063 ZENITH 0154, 1037 DENON 1010 TASHIKO 0200, 0207, 0210 WATT RADIO 0200, 0207, 0212, 0214 DVD/VCR COMBO D		U
SUSUMU 0209 VIEWSONIC 0076, 0077, 0092, 0092, 0099, 0172, 0173 ROADSTAR SAMSUNG 0237, 1066 1009 SUTRON 0208 0099, 0172, 0173 SAMSUNG 0144, 0239, 1027, 027 CYBERNEX 1002 SYDNEY 0200, 0207 VISIOLA 0200, 0207 1068 DAEWOO 1005 SYLVANIA 0060, 0061, 0063, 0134, 0142, 0007 VISION 0213 SHARP 0145, 1028 1067 0148 VOXSON 0205, 0210, 0211, 0211, 0214, 0204, 0207, 0212 SYLVANIA 0148, 1031 DANTAX 1046 SYMPHONIC 0062, 0080 0213 TATUNG 0237, 1066 DBX 1000 SYSLINE 0217 WALTHAM 0207, 0212 TOSHIBA 0146, 0237, 1029, DE GRAAF 1046 SYTONG 0200 WARDS 0057, 0058, 0060, 060, 060, 060, 060, 0211, 0218 ZENITH 0154, 1037 DENON 1010 TASHIKO 0200, 0207, 0210 WATT RADIO 0201, 0207, 0212, 0218 DVD/VCR COMBO DUMONT 1049 TCM 0213, 0217, 0237 WEGA		0, 1002, 1004,
SYDNEY 0200, 0207 VISIOLA 0200, 0207 1068 DAEWOO 1005 SYLVANIA 0060, 0061, 0063, 0080, 0134, 0142, 0087 VISION 0213 SHARP 0145, 1028 1067 0080, 0134, 0142, 0080, 0148 VOXSON 0205, 0210, 0211, 0211, 0214 SYLVANIA 0148, 1031 DANTAX 1044 SYMPHONIC 0062, 0080 0213 TATUNG 0237, 1066 DBX 1000 SYSLINE 0217 WALTHAM 0207, 0212 TOSHIBA 0146, 0237, 1029, 026 DE GRAAF 1046 SYTONG 0200 WARDS 0057, 0058, 0060, 016 1066 DECCA 1042 TANDY 0127, 0207, 0209, 0211, 0218 WATSON 0213, 0217, 0218 ZENITH 0154, 1037 DENON 1016 TASHIKO 0200, 0207, 0210 WAT RADIO 0200, 0207, 0212, 0218 DVD/VCR COMBO DUAL 1043 TATUNG 0127, 0204, 0207, 0207, 0209, 0213, 0217, 0237 WEGA 0205 JVC 1017, 1017, 2045, 0204, 0207, 0209, 0213, 0217, 0209, 0213, 0217, 0209, 0207, 0212, 0209, 0207, 0212, 0209, 0207, 0212, 0209, 0207, 0209, 0209	1009	
SYLVANIA 0060, 0061, 0063, 0061, 0063, 0080 VISION 0213 SHARP 0145, 1028 1067 SYMPHONIC 0062, 0080 0205, 0210, 0211, 0211, 0218 SYLVANIA 0148, 1031 DANSAI 1050 SYSLINE 0217 WALTHAM 0207, 0212 TOSHIBA 0146, 0237, 1029, 0266 DBX 1000 SYTONG 0200 WARDS 0057, 0058, 0060, 0211, 0218 1066 DECCA 1042 TANDY 0127, 0207, 0209, 0211, 0218 WATSON 0213, 0217, 0218 ZENITH 0154, 1037 DENON 1010 TASHIKO 0200, 0207, 0210 WAT RADIO 0200, 0207, 0212, 0209, 0213, 0217, 0218 DVD/VCR COMBO DUAL DUMONT 1043 TATUNG 0127, 0204, 0207, 0213, 0217, 0237 WEGA 0205 JVC 1017, 1017, 2045, 0245 DVNATECH 1005		2, 1014
0080, 0134, 0142, VORTEC 0213, 0217 SONY 0234, 1064 DANSAI 1050		5, 1038, 1061,
SYMPHONIC 0148 VOXSON 0205, 0210, 0211, 0211, 0212 SYLVANIA D148, 1031 DANTAX 1044 SYSLINE 0217 WALTHAM 0207, 0212 TOSHIBA 0146, 0237, 1029, DE GRAAF DE GRAAF 1046 SYTONG 0200 WARDS 0057, 0058, 0060, 0057, 0058, 0060, DIA 1066 DECCA 1042 TANDY 0127, 0207, 0209, 0211, 0218 WATSON 0061, 0063 ZENITH 0154, 1037 DENON 1016 TASHIKO 0200, 0207, 0210 WATT RADIO 0200, 0207, 0212, 0215 DVD/VCR COMBO DUAL 1042 TATUNG 0127, 0204, 0207, 0207, 0219 WEGA 0205 JVC 1017, 1017, 2045, 1049 DUMONT 1049 TCM 0206, 0208 WELTBLICK 0213, 0217 2045 DYNATECH 1005		
SYMPHONIC SYSLINE 0062, 0080 0213 TATUNG TOSHIBA 0237, 1066 0146, 0237, 1029, 0146, 0237, 1029, 0166 DBX 1000 DECA SYTONG 0200 WARDS 0057, 0058, 0060, 0061, 0063 1066 DECCA 1042 TANDY 0127, 0207, 0209, 0211, 0218 WATSON 0213, 0217, 0218 DIMENSIA 1000 TASHIKO 0200, 0207, 0210 WATT RADIO 0200, 0207, 0212, 0215 DVD/VCR COMBO DUAL DUMONT 1049 TCM 0206, 0208 WELTBLICK 0213, 0217 2045 DYNATECH 1005		
SYSLINE 0217 WALTHAM 0207, 0212 TOSHIBA 0146, 0237, 1029, 1029, 1046, 0237, 1029, 1046 DE GRAAF 1046 SYTONG 0200 WARDS 0057, 0058, 0060, 0061, 0063 ZENITH 0154, 1037 DENON 1016 TASHIKO 0200, 0207, 0210 WATSON 0213, 0217, 0218 DIMENSIA 1009 TASHIKO 0127, 0204, 0207, 0210 WATT RADIO 0200, 0207, 0212, 0215 DVD/VCR COMBO DUAL 1043 TATUNG 0127, 0204, 0207, 0237 WEGA 0205 JVC 1017, 1017, 2045, 1049 DVNATECH 1005 TCM 0206, 0208 WELTBLICK 0213, 0217 2045 DYNATECH 1005		
SYTONG 0200 WARDS 0057, 0058, 0060, 0061, 0063 1066 DECCA 1042 TANDY 0127, 0207, 0209, 0211, 0218 0061, 0063 ZENITH 0154, 1037 DENON 1010 TASHIKO 0200, 0207, 0210 WATSON 0213, 0217, 0218 DVD/VCR COMBO DUAL 1043 TATUNG 0127, 0204, 0207, 0213 0215 0215 DVD/VCR COMBO DUMONT 1042 TCM 0206, 0208 WELTBLICK 0213, 0217 2045 DYNATECH 1005		6, 1049
TASHIKO 0200, 0207, 0210 WATSON 0213, 0217, 0218 WATT RADIO 0200, 0207, 0212, 0215 DVD/VCR COMBO TATUNG 0127, 0204, 0207, 0237 WEGA 0205 JVC 1017, 1017, 2045, 1049 TCM 0206, 0208 WELTBLICK 0213, 0217 2045 DYNATECH 1005		2, 1043, 1046
TASHIKO TATUNG 0200, 0207, 0210 0127, 0204, 0207, 0213, 0217, 0237 WATT RADIO 0215 0200, 0207, 0212, 0215 DVD/VCR COMBO DUAL DUMONT 1043 1042 TCM 0206, 0208 WEGA 0205 JVC 1017, 1017, 2045, 2045 DYNATECH 1005		
TATUNG 0127, 0204, 0207, 0215 DVD/VCR COMBO DUMONT 1042 0213, 0217, 0237 WEGA 0205 JVC 1017, 1017, 2045, 1049 0206, 0208 WELTBLICK 0213, 0217 2045 DYNATECH 1005		
0213, 0217, 0237 WEGA 0205 JVC 1017, 1017, 2045, 1049 TCM 0206, 0208 WELTBLICK 0213, 0217 2045 DYNATECH 1005		3, 1046
TCM 0206, 0208 WELTBLICK 0213, 0217 2045 DYNATECH 1005		2, 1046, 1047,
		9
	1003	3
0215 0008, 0200, 0207, 2105 ELECTROPHONIC		
	1003	
WINCOM 0055, 0056 RCA 1022, 2042 ELTA 1050	1050	υ

EMERSON							
	1003, 1004, 1005,	KENWOOD	1000, 1001, 1007,	PANASONIC	1004, 1020, 1034,	SIEMENS	1045, 1047
	1012, 1013		1011, 1043		1040, 1048, 1054,	SIGNATURE 2	
ETTIMO		121.11				SIGIVII CKL 2	
ETZUKO	1050	KLH	1006		1072	~~~~	1008
FERGUSON	1043	KODAK	1003, 1004	PATHE MARC		SILVA	1045
FIDELITY	1042	KORPEL	1050		1043	SINGER	1004, 1006
FINLANDIA	1046, 1047, 1049	LEYCO	1050	PENNEY	1010, 1014	SINUDYNE	1046
FINLUX	1042, 1043, 1046,	LG	1003, 1042, 1045,	PENTAX	1010, 1049	SONTEC	1045
THILDM	1047, 1049	20	1071	PERDIO	1042	SONY	1016, 1019, 1055,
EID OF LINE		, reemed				SONI	
FIRST LINE	1044, 1045, 1049,	LIFETEC	1044, 1048	PHILCO	1004, 1051		1060, 1064, 1074
	1050	LLOYD'S	1005	PHILIPS	1004, 1025, 1033,	STS	1004, 1010
FISHER	1001, 1047	LOEWE	1048		1046, 1056, 1057,	SUNKAI	1044
FLINT	1044	LOEWE OPTA	1045, 1046		1059, 1062, 1063	SUNSTAR	1042
FORMENTI/PI		LOGIK	1006, 1050	PHILIPS MAG		SUNTRONIC	1042
1 OKMENTI/II	1046		1047	THEN S WING	1018	SUNWOOD	1050
		LUXOR					
FUJI	1004	LXI	1003	PHONOLA	1046	SYLVANIA	1004, 1005, 1031,
FUJITSU	1042	M ELECTRON	IC	PILOT	1003		1041
FUNAI	1005, 1042		1042	PIONEER	1011, 1046	SYMPHONIC	1005
GALAXY	1042	MAGNASONIO	1	PRINZ	1042	TAISHO	1044
GARRARD	1005		1047	PROFEX	1050	TANDY	1001
		MACNAVOV					
GBC	1050	MAGNAVOX	1004, 1018, 1033	PROFITRONIC		TASHIKO	1003, 1042
GE	1002, 1004, 1009,	MAGNIN	1003, 1014		1014	TATUNG	1007, 1042, 1043,
	1014, 1030	MANESTH	1050	PROLINE	1042		1046, 1066
GEC	1046	MARANTZ	1000, 1001, 1004,	PROSCAN	1009	TCM	1044, 1048
GELOSO	1050		1046, 1051	PROSONIC	1044	TEAC	1005, 1007
GENERAL TE		MARTA	1003	PROTEC	1006	TECHNICS	1004, 1048
GENERAL IE							
	1044, 1048	MATSUI	1044, 1045	PYE	1046, 1056	TEKNIKA	1003, 1004, 1005
GO VIDEO	1014	MATSUSHITA	1004	QUARTER	1001	TELEAVIA	1043
GOLDHAND	1050	MEDIATOR	1046	QUARTZ	1001, 1047	TELEFUNKEN	Į
GOLDSTAR	1000, 1003, 1042,	MEDION	1044, 1048	QUASAR	1004, 1035		1043
OOLDOI III	1045	MEI	1004	QUELLE	1042, 1046, 1047	TENOSAL	1050
COODIALIA				-			
GOODMANS	1042, 1045, 1050,	MEMOREX	1001, 1002, 1003,	RADIO SHAC		TENSAI	1042, 1045, 1050
	1069		1004, 1005, 1008,		1003	TEVION	1044, 1048
GRADIENTE	1005		1013, 1014, 1042,	RADIO SHAC	K/REALISTIC	THOMSON	1043, 1058
GRAETZ	1043, 1047		1045, 1047		1001, 1002, 1003,	THORN	1043, 1047
GRANADA	1046, 1047, 1049	MEMPHIS	1050		1004, 1005, 1008	TMK	1002, 1014
				D. D. D. LOV.			
GRANDIN	1042, 1045, 1050	METZ	1048	RADIOLA	1046	TOKAI	1045, 1050
GRUNDIG	1046, 1050, 1062	MGA	1014	RADIX	1003	TONSAI	1050
HANSEATIC	1045, 1046	MGN TECHNO	DLOGY	RANDEX	1003	TOSHIBA	1013, 1024, 1029,
HARLEY DAV	IDSON		1002, 1014	RCA	1002, 1004, 1009,		1043, 1046, 1066,
III III DIII	1005	MICROMAXX		110.1	1010, 1014, 1015,		1075
TIADMANIA A						TOTELHOLON	
HARMAN/KA		MICROSTAR			1022, 1032	TOTEVISION	
	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
HEADQUART		MONTGOMER		RFT	1046	UNITECH	1002, 1014
TILADQUART		MONTOOMEN					
	1001		1008	ROADSTAR	1045, 1050, 1066		1042, 1045, 1046
HINARI	1044, 1050	MOTOROLA	1004, 1008	SABA	1043	VECTOR RESI	EARCH
HINARI HISAWA	1044, 1050 1044	MOTOROLA MTC	1004, 1008	SABA SAISHO	1043 1044, 1050	VECTOR RESI	EARCH 1000
HISAWA	1044	MTC	1002, 1014	SAISHO	1044, 1050		1000
	1044 1007, 1010, 1039,		1002, 1014 1002, 1005, 1006,	SAISHO SALORA	1044, 1050 1047	VIDEO CONCI	1000 EPTS
HISAWA	1044 1007, 1010, 1039, 1042, 1043, 1046,	MTC MULTITECH	1002, 1014 1002, 1005, 1006, 1042, 1046, 1050	SAISHO	1044, 1050 1047 1002, 1014, 1021,	VIDEO CONCI	1000 EPTS 1000
HISAWA HITACHI	1044 1007, 1010, 1039, 1042, 1043, 1046, 1049	MTC MULTITECH MURPHY	1002, 1014 1002, 1005, 1006, 1042, 1046, 1050 1042	SAISHO SALORA	1044, 1050 1047 1002, 1014, 1021, 1027, 1052, 1068,	VIDEO CONCI	1000 EPTS 1000 1044, 1048
HISAWA HITACHI	1044 1007, 1010, 1039, 1042, 1043, 1046, 1049 WORK SYSTEMS	MTC MULTITECH MURPHY NATIONAL	1002, 1014 1002, 1005, 1006, 1042, 1046, 1050 1042 1048	SAISHO SALORA SAMSUNG	1044, 1050 1047 1002, 1014, 1021, 1027, 1052, 1068, 1070	VIDEO CONCI VIDEON VIDEOSONIC	1000 EPTS 1000 1044, 1048 1002, 1014
HISAWA HITACHI	1044 1007, 1010, 1039, 1042, 1043, 1046, 1049	MTC MULTITECH MURPHY	1002, 1014 1002, 1005, 1006, 1042, 1046, 1050 1042	SAISHO SALORA	1044, 1050 1047 1002, 1014, 1021, 1027, 1052, 1068,	VIDEO CONCI	1000 EPTS 1000 1044, 1048
HISAWA HITACHI	1044 1007, 1010, 1039, 1042, 1043, 1046, 1049 WORK SYSTEMS	MTC MULTITECH MURPHY NATIONAL	1002, 1014 1002, 1005, 1006, 1042, 1046, 1050 1042 1048	SAISHO SALORA SAMSUNG	1044, 1050 1047 1002, 1014, 1021, 1027, 1052, 1068, 1070	VIDEO CONCI VIDEON VIDEOSONIC	1000 EPTS 1000 1044, 1048 1002, 1014
HISAWA HITACHI HUGHES NET HYPSON	1044 1007, 1010, 1039, 1042, 1043, 1046, 1049 WORK SYSTEMS 1010 1044, 1050	MTC MULTITECH MURPHY NATIONAL NEC	1002, 1014 1002, 1005, 1006, 1042, 1046, 1050 1042 1048 1000, 1001, 1007, 1011, 1043, 1051	SAISHO SALORA SAMSUNG SANKY	1044, 1050 1047 1002, 1014, 1021, 1027, 1052, 1068, 1070 1008 1007, 1011, 1013,	VIDEO CONCI VIDEON VIDEOSONIC	1000 EPTS 1000 1044, 1048 1002, 1014 1002, 1003, 1004, 1005, 1006, 1008,
HISAWA HITACHI HUGHES NET HYPSON IMPERIAL	1044 1007, 1010, 1039, 1042, 1043, 1046, 1049 WORK SYSTEMS 1010 1044, 1050 1042	MTC MULTITECH MURPHY NATIONAL	1002, 1014 1002, 1005, 1006, 1042, 1046, 1050 1042 1048 1000, 1001, 1007, 1011, 1043, 1051 N	SAISHO SALORA SAMSUNG SANKY SANSUI	1044, 1050 1047 1002, 1014, 1021, 1027, 1052, 1068, 1070 1008 1007, 1011, 1013, 1043	VIDEO CONCI VIDEON VIDEOSONIC WARDS	1000 EPTS 1000 1044, 1048 1002, 1014 1002, 1003, 1004, 1005, 1006, 1008, 1010, 1014
HISAWA HITACHI HUGHES NET HYPSON IMPERIAL INNO HIT	1044 1007, 1010, 1039, 1042, 1043, 1046, 1049 WORK SYSTEMS 1010 1044, 1050 1042 1046, 1050	MTC MULTITECH MURPHY NATIONAL NEC NECKERMAN	1002, 1014 1002, 1005, 1006, 1042, 1046, 1050 1042 1048 1000, 1001, 1007, 1011, 1043, 1051 N 1043, 1046	SAISHO SALORA SAMSUNG SANKY	1044, 1050 1047 1002, 1014, 1021, 1027, 1052, 1068, 1070 1008 1007, 1011, 1013, 1043 1001, 1002, 1014,	VIDEO CONCI VIDEON VIDEOSONIC WARDS	1000 EPTS 1000 1044, 1048 1002, 1014 1002, 1003, 1004, 1005, 1006, 1008, 1010, 1014
HISAWA HITACHI HUGHES NET HYPSON IMPERIAL INNO HIT INNOVATION	1044 1007, 1010, 1039, 1042, 1043, 1046, 1049 WORK SYSTEMS 1010 1044, 1050 1042 1046, 1050 1044, 1048	MTC MULTITECH MURPHY NATIONAL NEC NECKERMAN NEI	1002, 1014 1002, 1005, 1006, 1042, 1046, 1050 1042 1048 1000, 1001, 1007, 1011, 1043, 1051 N 1043, 1046 1046	SAISHO SALORA SAMSUNG SANKY SANSUI SANYO	1044, 1050 1047 1002, 1014, 1021, 1027, 1052, 1068, 1070 1008 1007, 1011, 1013, 1043 1001, 1002, 1014, 1047	VIDEO CONCI VIDEON VIDEOSONIC WARDS	1000 EPTS 1000 1044, 1048 1002, 1014 1002, 1003, 1004, 1005, 1006, 1008, 1010, 1014 1045 INGHOUSE
HISAWA HITACHI HUGHES NET HYPSON IMPERIAL INNO HIT	1044 1007, 1010, 1039, 1042, 1043, 1046, 1049 WORK SYSTEMS 1010 1044, 1050 1042 1046, 1050 1044, 1048	MTC MULTITECH MURPHY NATIONAL NEC NECKERMAN	1002, 1014 1002, 1005, 1006, 1042, 1046, 1050 1042 1048 1000, 1001, 1007, 1011, 1043, 1051 N 1043, 1046	SAISHO SALORA SAMSUNG SANKY SANSUI	1044, 1050 1047 1002, 1014, 1021, 1027, 1052, 1068, 1070 1008 1007, 1011, 1013, 1043 1001, 1002, 1014,	VIDEO CONCI VIDEON VIDEOSONIC WARDS WELTBLICK WHITE WEST	1000 EPTS 1000 1044, 1048 1002, 1014 1002, 1003, 1004, 1005, 1006, 1008, 1010, 1014
HISAWA HITACHI HUGHES NET HYPSON IMPERIAL INNO HIT INNOVATION	1044 1007, 1010, 1039, 1042, 1043, 1046, 1049 WORK SYSTEMS 1010 1044, 1050 1042 1046, 1050 1044, 1048	MTC MULTITECH MURPHY NATIONAL NEC NECKERMAN NEI	1002, 1014 1002, 1005, 1006, 1042, 1046, 1050 1042 1048 1000, 1001, 1007, 1011, 1043, 1051 N 1043, 1046 1046	SAISHO SALORA SAMSUNG SANKY SANSUI SANYO	1044, 1050 1047 1002, 1014, 1021, 1027, 1052, 1068, 1070 1008 1007, 1011, 1013, 1043 1001, 1002, 1014, 1047 1046	VIDEO CONCI VIDEON VIDEOSONIC WARDS	1000 EPTS 1000 1044, 1048 1002, 1014 1002, 1003, 1004, 1005, 1006, 1008, 1010, 1014 1045 INGHOUSE
HISAWA HITACHI HUGHES NET HYPSON IMPERIAL INNO HIT INNOVATION INSTANT REP	1044 1007, 1010, 1039, 1042, 1043, 1046, 1049 WORK SYSTEMS 1010 1044, 1050 1042 1046, 1050 1044, 1048 LAY 1004	MTC MULTITECH MURPHY NATIONAL NEC NECKERMAN NEI NESCO NIKKO	1002, 1014 1002, 1005, 1006, 1042, 1046, 1050 1042 1048 1000, 1001, 1007, 1011, 1043, 1051 N 1043, 1046 1046 1050 1003	SAISHO SALORA SAMSUNG SANKY SANSUI SANYO SBR	1044, 1050 1047 1002, 1014, 1021, 1027, 1052, 1068, 1070 1008 1007, 1011, 1013, 1043 1001, 1002, 1014, 1047 1046 EENZ	VIDEO CONCI VIDEON VIDEOSONIC WARDS WELTBLICK WHITE WEST! XR-1000	1000 EPTS 1000 1044, 1048 1002, 1014 1002, 1003, 1004, 1005, 1006, 1008, 1010, 1014 1045 INGHOUSE 1013 1004, 1005, 1006
HISAWA HITACHI HUGHES NET HYPSON IMPERIAL INNO HIT INNOVATION INSTANT REP INTERBUY	1044 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 NECKERMAN NEI NESCO NIKKO NOBLEX	1002, 1014 1002, 1005, 1006, 1042, 1046, 1050 1042 1048 1000, 1001, 1007, 1011, 1043, 1051 N 1043, 1046 1046 1050 1003 1002, 1014	SAISHO SALORA SAMSUNG SANKY SANSUI SANYO SBR SCHAUB LOR	1044, 1050 1047 1002, 1014, 1021, 1027, 1052, 1068, 1070 1008 1007, 1011, 1013, 1043 1001, 1002, 1014, 1047 1046 EENZ 1042, 1043, 1047	VIDEO CONCI VIDEON VIDEOSONIC WARDS WELTBLICK WHITE WEST! XR-1000 YAMAHA	1000 EPTS 1000 1044, 1048 1002, 1014 1002, 1003, 1004, 1005, 1006, 1008, 1010, 1014 1045 INGHOUSE 1013 1004, 1005, 1006 1000, 1001, 1007
HISAWA HITACHI HUGHES NET HYPSON IMPERIAL INNO HIT INNOVATION INSTANT REP INTERBUY INTERFUNK	1044 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 NECKERMAN NEI NESCO NIKKO NOBLEX NOKIA	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	SAISHO SALORA SAMSUNG SANKY SANSUI SANYO SBR	1044, 1050 1047 1002, 1014, 1021, 1027, 1052, 1068, 1070 1008 1007, 1011, 1013, 1043 1001, 1002, 1014, 1047 1046 LENZ 1042, 1043, 1047 1042, 1044, 1045,	VIDEO CONCI VIDEON VIDEOSONIC WARDS WELTBLICK WHITE WEST! XR-1000 YAMAHA YAMISHI	1000 EPTS 1000 1044, 1048 1002, 1014 1002, 1003, 1004, 1005, 1006, 1008, 1010, 1014 1045 INGHOUSE 1013 1004, 1005, 1006 1000, 1001, 1007
HISAWA HITACHI HUGHES NET HYPSON IMPERIAL INNO HIT INNOVATION INSTANT REP INTERBUY INTERFUNK INTERVISION	1044 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 NECKERMAN NEI NESCO NIKKO NOBLEX	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	SAISHO SALORA SAMSUNG SANKY SANSUI SANYO SBR SCHAUB LOR SCHNEIDER	1044, 1050 1047 1002, 1014, 1021, 1027, 1052, 1068, 1070 1008 1007, 1011, 1013, 1043 1001, 1002, 1014, 1047 1046 EENZ 1042, 1043, 1047 1042, 1044, 1045, 1046, 1050	VIDEO CONCI VIDEON VIDEOSONIC WARDS WELTBLICK WHITE WEST! XR-1000 YAMAHA YAMISHI YOKAN	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
HISAWA HITACHI HUGHES NET HYPSON IMPERIAL INNO HIT INNOVATION INSTANT REP INTERBUY INTERFUNK INTERVISION IRRADIO	1044 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	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	SAISHO SALORA SAMSUNG SANKY SANSUI SANYO SBR SCHAUB LOR SCHNEIDER SCOTT	1044, 1050 1047 1002, 1014, 1021, 1027, 1052, 1068, 1070 1008 1007, 1011, 1013, 1043 1001, 1002, 1014, 1047 1046 EENZ 1042, 1043, 1047 1046, 1050 1012	VIDEO CONCI VIDEON VIDEOSONIC WARDS WELTBLICK WHITE WEST! XR-1000 YAMAHA YAMISHI YOKAN YOKO	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
HISAWA HITACHI HUGHES NET HYPSON IMPERIAL INNO HIT INNOVATION INSTANT REP INTERBUY INTERFUNK INTERVISION	1044 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 NECKERMAN NEI NESCO NIKKO NOBLEX NOKIA	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	SAISHO SALORA SAMSUNG SANKY SANSUI SANYO SBR SCHAUB LOR SCHNEIDER	1044, 1050 1047 1002, 1014, 1021, 1027, 1052, 1068, 1070 1008 1007, 1011, 1013, 1043 1001, 1002, 1014, 1047 1046 EENZ 1042, 1043, 1047 1042, 1044, 1045, 1046, 1050	VIDEO CONCI VIDEON VIDEOSONIC WARDS WELTBLICK WHITE WEST! XR-1000 YAMAHA YAMISHI YOKAN	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
HISAWA HITACHI HUGHES NET HYPSON IMPERIAL INNO HIT INNOVATION INSTANT REP INTERBUY INTERFUNK INTERVISION IRRADIO	1044 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	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	SAISHO SALORA SAMSUNG SANKY SANSUI SANYO SBR SCHAUB LOR SCHNEIDER SCOTT	1044, 1050 1047 1002, 1014, 1021, 1027, 1052, 1068, 1070 1008 1007, 1011, 1013, 1043 1001, 1002, 1014, 1047 1046 EENZ 1042, 1043, 1047 1046, 1050 1012	VIDEO CONCI VIDEON VIDEOSONIC WARDS WELTBLICK WHITE WEST! XR-1000 YAMAHA YAMISHI YOKAN YOKO	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
HISAWA HITACHI HUGHES NET HYPSON IMPERIAL INNO HIT INNOVATION INSTANT REP INTERBUY INTERFUNK INTERVISION IRRADIO ITT ITV	1044 1007, 1010, 1039, 1042, 1043, 1046, 1049 WORK SYSTEMS 1010 1044, 1050 1042 1046, 1050 1044, 1048 LAY 1004 1045 1046, 1047 1045 1046, 1047 1042 1045, 1050 1043, 1047	MTC MULTITECH MURPHY NATIONAL NEC NECKERMAN NEI NESCO NIKKO NOBLEX NOKIA NORDMENDE OCEANIC OKANO	1002, 1014 1002, 1005, 1006, 1042, 1046, 1050 1048 1000, 1001, 1007, 1011, 1043, 1051 N 1043, 1046 1050 1003 1002, 1014 1043, 1047 1043 1044 1043, 1044	SAISHO SALORA SAMSUNG SANKY SANSUI SANYO SBR SCHAUB LOR SCHNEIDER SCOTT SEARS	1044, 1050 1047 1002, 1014, 1021, 1027, 1052, 1068, 1070 1008 1007, 1011, 1013, 1043 1001, 1002, 1014, 1047 1046 EENZ 1042, 1043, 1047 1042, 1044, 1045, 1046, 1050 1012 1001, 1003, 1004,	VIDEO CONCI VIDEOSONIC WARDS WELTBLICK WHITE WEST! XR-1000 YAMAHA YAMISHI YOKAN YOKO ZENITH	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
HISAWA HITACHI HUGHES NET HYPSON IMPERIAL INNO HIT INNOVATION INSTANT REP INTERBUY INTERFUNK INTERFUNK INTERVISION IRRADIO ITT	1044 1007, 1010, 1039, 1042, 1043, 1046, 1049 WORK SYSTEMS 1010 1044, 1050 1042 1046, 1050 1044, 1048 LAY 1004 1045 1046, 1047 1045 1046, 1047 1042 1045, 1050 1043, 1047 1045 1045, 1050 1043, 1047	MTC MULTITECH MURPHY NATIONAL NEC NECKERMAN NEI NESCO NIKKO NOBLEX NOKIA NORDMENDE OCEANIC OKANO OLYMPUS	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	SAISHO SALORA SAMSUNG SANKY SANSUI SANYO SBR SCHAUB LOR SCHNEIDER SCOTT SEARS SEG	1044, 1050 1047 1002, 1014, 1021, 1027, 1052, 1068, 1070 1008 1007, 1011, 1013, 1043 1001, 1002, 1014, 1047 1046 EENZ 1042, 1043, 1047 1042, 1044, 1045, 1046, 1050 1012 1001, 1003, 1004, 1010 1050	VIDEO CONCI VIDEOSONIC WARDS WELTBLICK WHITE WEST! XR-1000 YAMAHA YAMISHI YOKAN YOKO ZENITH	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
HISAWA HITACHI HUGHES NET HYPSON IMPERIAL INNO HIT INNOVATION INSTANT REP INTERBUY INTERFUNK INTERVISION IRRADIO ITT ITV JC PENNEY	1044 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 1046, 1047 1042 1045, 1050 1043, 1047 1045 1000, 1001, 1002, 1003, 1004, 1006	MTC MULTITECH MURPHY NATIONAL NEC NECKERMAN NEI NESCO NIKKO NOBLEX NOKIA NORDMENDE OCEANIC OKANO OLYMPUS OPTIMUS	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 1004 1004, 1004	SAISHO SALORA SAMSUNG SANKY SANSUI SANYO SBR SCHAUB LOR SCHNEIDER SCOTT SEARS	1044, 1050 1047 1002, 1014, 1021, 1027, 1052, 1068, 1070 1008 1007, 1011, 1013, 1043 1001, 1002, 1014, 1047 1046 EENZ 1042, 1043, 1047 1042, 1044, 1045, 1046, 1050 1012 1001, 1003, 1004, 1010 1050	VIDEO CONCI VIDEON VIDEOSONIC WARDS WELTBLICK WHITE WEST! XR-1000 YAMAHA YAMISHI YOKAN YOKO ZENITH	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
HISAWA HITACHI HUGHES NET HYPSON IMPERIAL INNO HIT INNOVATION INSTANT REP INTERBUY INTERFUNK INTERVISION IRRADIO ITT ITV JC PENNEY JCL	1044 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 1045 1040, 1001, 1002, 1003, 1004, 1006	MTC MULTITECH MURPHY NATIONAL NEC NECKERMAN NEI NESCO NIKKO NOBLEX NOKIA NORDMENDE OCEANIC OKANO OLYMPUS	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,	SAISHO SALORA SAMSUNG SANKY SANSUI SANYO SBR SCHAUB LOR SCHNEIDER SCOTT SEARS SEG SEI-SINUDYN	1044, 1050 1047 1002, 1014, 1021, 1027, 1052, 1068, 1070 1008 1007, 1011, 1013, 1043 1001, 1002, 1014, 1047 1046 LENZ 1042, 1043, 1047 1042, 1044, 1045, 1046, 1050 1012 1001, 1003, 1004, 1010 1050 IE	VIDEO CONCI VIDEOSONIC WARDS WELTBLICK WHITE WEST! XR-1000 YAMAHA YAMISHI YOKAN YOKO ZENITH	1000 EPTS 1000 1044, 1048 1002, 1014 1005, 1006, 1008, 1010, 1014 1045 INGHOUSE 1013 1004, 1005, 1006 1000, 1001, 1007 1050 1045, 1050 1013, 1026, 1037
HISAWA HITACHI HUGHES NET HYPSON IMPERIAL INNO HIT INNOVATION INSTANT REP INTERBUY INTERFUNK INTERFUNK INTERVISION IRRADIO ITT ITV JC PENNEY JCL JENSEN	1044 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 1040, 1001, 1002, 1003, 1004, 1006 1004	MTC MULTITECH MURPHY NATIONAL NEC NECKERMAN NEI NESCO NIKKO NOBLEX NOKIA NORDMENDE OCEANIC OKANO OLYMPUS OPTIMUS ORION	1002, 1014 1002, 1005, 1006, 1042, 1046, 1050 1048 1000, 1001, 1007, 1011, 1043, 1051 N 1043, 1046 1050 1003 1002, 1014 1043, 1047 1043 1042, 1043 1044 1004 1000, 1001, 1007	SAISHO SALORA SAMSUNG SANKY SANSUI SANYO SBR SCHAUB LOR SCHNEIDER SCOTT SEARS SEG SEI-SINUDYN SELECO	1044, 1050 1047 1002, 1014, 1021, 1027, 1052, 1068, 1070 1008 1007, 1011, 1013, 1043 1001, 1002, 1014, 1047 1046 EENZ 1042, 1043, 1047 1042, 1044, 1045, 1046, 1050 1012 1001, 1003, 1004, 1010 1050 IEE	VIDEO CONCI VIDEON VIDEOSONIC WARDS WELTBLICK WHITE WEST! XR-1000 YAMAHA YAMISHI YOKAN YOKO ZENITH DVD ACOUSTIC SO	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
HISAWA HITACHI HUGHES NET HYPSON IMPERIAL INNO HIT INNOVATION INSTANT REP INTERBUY INTERFUNK INTERVISION IRRADIO ITT ITV JC PENNEY JCL	1044 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 1045 1040, 1001, 1002, 1003, 1004, 1006	MTC MULTITECH MURPHY NATIONAL NEC NECKERMAN NEI NESCO NIKKO NOBLEX NOKIA NORDMENDE OCEANIC OKANO OLYMPUS OPTIMUS	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,	SAISHO SALORA SAMSUNG SANKY SANSUI SANYO SBR SCHAUB LOR SCHNEIDER SCOTT SEARS SEG SEI-SINUDYN	1044, 1050 1047 1002, 1014, 1021, 1027, 1052, 1068, 1070 1008 1007, 1011, 1013, 1043 1001, 1002, 1014, 1047 1046 LENZ 1042, 1043, 1047 1042, 1044, 1045, 1046, 1050 1012 1001, 1003, 1004, 1010 1050 IE	VIDEO CONCI VIDEON VIDEOSONIC WARDS WELTBLICK WHITE WEST! XR-1000 YAMAHA YAMISHI YOKAN YOKO ZENITH	1000 EPTS 1000 1044, 1048 1002, 1014 1005, 1006, 1008, 1010, 1014 1045 INGHOUSE 1013 1004, 1005, 1006 1000, 1001, 1007 1050 1045, 1050 1013, 1026, 1037
HISAWA HITACHI HUGHES NET HYPSON IMPERIAL INNO HIT INNOVATION INSTANT REP INTERBUY INTERFUNK INTERFUNK INTERVISION IRRADIO ITT ITV JC PENNEY JCL JENSEN	1044 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 1040, 1001, 1002, 1003, 1004, 1006 1004	MTC MULTITECH MURPHY NATIONAL NEC NECKERMAN NEI NESCO NIKKO NOBLEX NOKIA NORDMENDE OCEANIC OKANO OLYMPUS OPTIMUS ORION	1002, 1014 1002, 1005, 1006, 1042, 1046, 1050 1048 1000, 1001, 1007, 1011, 1043, 1051 N 1043, 1046 1050 1003 1002, 1014 1043, 1047 1043 1042, 1043 1044 1004 1000, 1001, 1007	SAISHO SALORA SAMSUNG SANKY SANSUI SANYO SBR SCHAUB LOR SCHNEIDER SCOTT SEARS SEG SEI-SINUDYN SELECO SENTRON	1044, 1050 1047 1002, 1014, 1021, 1027, 1052, 1068, 1070 1008 1007, 1011, 1013, 1043 1001, 1002, 1014, 1047 1046 EENZ 1042, 1043, 1047 1042, 1044, 1045, 1046, 1050 1012 1001, 1003, 1004, 1010 1050 IEE	VIDEO CONCI VIDEON VIDEOSONIC WARDS WELTBLICK WHITE WEST! XR-1000 YAMAHA YAMISHI YOKAN YOKO ZENITH DVD ACOUSTIC SO	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
HISAWA HITACHI HUGHES NET HYPSON IMPERIAL INNO HIT INNOVATION INSTANT REP INTERBUY INTERFUNK INTERFUNK INTERVISION IRRADIO ITT ITV JC PENNEY JCL JENSEN	1044 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 NECKERMAN NEI NESCO NIKKO NOBLEX NOKIA NORDMENDE OCEANIC OKANO OLYMPUS OPTIMUS ORION ORSON OSAKI	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 1004 1003, 1008 1012, 1013, 1044, 1065 1042 1042, 1045, 1050	SAISHO SALORA SAMSUNG SANKY SANSUI SANYO SBR SCHAUB LOR SCHNEIDER SCOTT SEARS SEG SEI-SINUDYN SELECO	1044, 1050 1047 1002, 1014, 1021, 1027, 1052, 1068, 1070 1008 1007, 1011, 1013, 1043 1001, 1002, 1014, 1047 1046 EENZ 1042, 1043, 1047 1042, 1044, 1045, 1046, 1050 1012 1001, 1003, 1004, 1010 1050 IEE 1046 1043 1050 1008, 1023, 1028,	VIDEO CONCI VIDEON VIDEOSONIC WARDS WELTBLICK WHITE WEST! XR-1000 YAMAHA YAMISHI YOKAN YOKO ZENITH DVD ACOUSTIC SO AIWA AKAI	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 1045, 1050 1013, 1026, 1037 DUUTIONS 2078 2055, 2100 2096
HISAWA HITACHI HUGHES NET HYPSON IMPERIAL INNO HIT INNOVATION INSTANT REP INTERBUY INTERFUNK INTERVISION IRRADIO ITT ITV JC PENNEY JCL JENSEN JVC	1044 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 NECKERMAN NEI NESCO NIKKO NOBLEX NOKIA NORDMENDE OCEANIC OKANO OLYMPUS OPTIMUS ORION ORSON	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	SAISHO SALORA SAMSUNG SANKY SANSUI SANYO SBR SCHAUB LOR SCHNEIDER SCOTT SEARS SEG SEI-SINUDYN SELECO SENTRON SHARP	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 IE 1046 1043 1050 1050 108, 1023, 1028, 1053, 1073	VIDEO CONCI VIDEON VIDEOSONIC WARDS WELTBLICK WHITE WEST! XR-1000 YAMAHA YAMISHI YOKAN YOKO ZENITH DVD ACOUSTIC SO AIWA AKAI AKURA	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 1045, 1050 1013, 1026, 1037 DLUTIONS 2078 2055, 2100 2096 2076
HISAWA HITACHI HUGHES NET HYPSON IMPERIAL INNO HIT INNOVATION INSTANT REP INTERBUY INTERFUNK INTERVISION IRRADIO ITT ITV JC PENNEY JCL JENSEN JVC KAISUI	1044 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 NECKERMAN NEI NESCO NIKKO NOBLEX NOKIA NORDMENDE OCEANIC OKANO OLYMPUS OPTIMUS ORION ORSON OSAKI OTTO VERSAI	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	SAISHO SALORA SAMSUNG SANKY SANSUI SANYO SBR SCHAUB LOR SCHNEIDER SCOTT SEARS SEG SEI-SINUDYN SELECO SENTRON SHARP SHINTOM	1044, 1050 1047 1002, 1014, 1021, 1027, 1052, 1068, 1070 1008 1007, 1011, 1013, 1043 1001, 1002, 1014, 1047 1046 LENZ 1042, 1043, 1047 1042, 1044, 1045, 1046, 1050 1012 1001, 1003, 1004, 1010 1050 IE 1046 1043 1050 1050 10 1050 10 1050 10 1050 10 1050 1050 1061 1073 1073 1073 1006, 1047, 1050	VIDEO CONCI VIDEON VIDEOSONIC WARDS WELTBLICK WHITE WEST! XR-1000 YAMAHA YAMISHI YOKAN YOKO ZENITH DVD ACOUSTIC SCI AIWA AKAI AKURA ALBA	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 1045, 1050 1013, 1026, 1037 DLUTIONS 2078 2055, 2100 2096 2076 2078, 2086
HISAWA HITACHI HUGHES NET HYPSON IMPERIAL INNO HIT INNOVATION INSTANT REP INTERBUY INTERFUNK INTERVISION IRRADIO ITT ITV JC PENNEY JCL JENSEN JVC KAISUI KARCHER	1044 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 NECKERMAN NEI NESCO NIKKO NOBLEX NOKIA NORDMENDE OCEANIC OKANO OLYMPUS OPTIMUS ORION ORSON OSAKI OTTO VERSAI	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	SAISHO SALORA SAMSUNG SANKY SANSUI SANYO SBR SCHAUB LOR SCHNEIDER SCOTT SEARS SEG SEI-SINUDYN SELECO SENTRON SHARP SHINTOM SHIVAKI	1044, 1050 1047 1002, 1014, 1021, 1027, 1052, 1068, 1070 1008 1007, 1011, 1013, 1043 1001, 1002, 1014, 1046 LENZ 1042, 1043, 1047 1046, 1050 1012 1001, 1003, 1004, 1010 1050 IE 1046 1043 1050 IE 1046 1043 1050 108, 1023, 1028, 1053, 1073 1006, 1047, 1050 1047	VIDEO CONCI VIDEON VIDEOSONIC WARDS WELTBLICK WHITE WEST! XR-1000 YAMAHA YAMISHI YOKAN YOKO ZENITH DVD ACOUSTIC SO AIWA AKAI AKURA ALBA APEX	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 DLUTIONS 2078 2055, 2100 2096 2076 2078, 2086 2027, 2049
HISAWA HITACHI HUGHES NET HYPSON IMPERIAL INNO HIT INNOVATION INSTANT REP INTERBUY INTERFUNK INTERVISION IRRADIO ITT ITV JC PENNEY JCL JENSEN JVC KAISUI	1044 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 NECKERMAN NEI NESCO NIKKO NOBLEX NOKIA NORDMENDE OCEANIC OKANO OLYMPUS OPTIMUS ORION ORSON OSAKI OTTO VERSAI	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	SAISHO SALORA SAMSUNG SANKY SANSUI SANYO SBR SCHAUB LOR SCHNEIDER SCOTT SEARS SEG SEI-SINUDYN SELECO SENTRON SHARP SHINTOM	1044, 1050 1047 1002, 1014, 1021, 1027, 1052, 1068, 1070 1008 1007, 1011, 1013, 1043 1001, 1002, 1014, 1047 1046 LENZ 1042, 1043, 1047 1042, 1044, 1045, 1046, 1050 1012 1001, 1003, 1004, 1010 1050 IE 1046 1043 1050 1050 10 1050 10 1050 10 1050 10 1050 1050 1061 1073 1073 1073 1006, 1047, 1050	VIDEO CONCI VIDEON VIDEOSONIC WARDS WELTBLICK WHITE WEST! XR-1000 YAMAHA YAMISHI YOKAN YOKO ZENITH DVD ACOUSTIC SCI AIWA AKAI AKURA ALBA	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 1045, 1050 1013, 1026, 1037 DLUTIONS 2078 2055, 2100 2096 2076 2078, 2086
HISAWA HITACHI HUGHES NET HYPSON IMPERIAL INNO HIT INNOVATION INSTANT REP INTERBUY INTERFUNK INTERVISION IRRADIO ITT ITV JC PENNEY JCL JENSEN JVC KAISUI KARCHER	1044 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 NECKERMAN NEI NESCO NIKKO NOBLEX NOKIA NORDMENDE OCEANIC OKANO OLYMPUS OPTIMUS ORION ORSON OSAKI OTTO VERSAI	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	SAISHO SALORA SAMSUNG SANKY SANSUI SANYO SBR SCHAUB LOR SCHNEIDER SCOTT SEARS SEG SEI-SINUDYN SELECO SENTRON SHARP SHINTOM SHIVAKI	1044, 1050 1047 1002, 1014, 1021, 1027, 1052, 1068, 1070 1008 1007, 1011, 1013, 1043 1001, 1002, 1014, 1046 LENZ 1042, 1043, 1047 1046, 1050 1012 1001, 1003, 1004, 1010 1050 IE 1046 1043 1050 IE 1046 1043 1050 108, 1023, 1028, 1053, 1073 1006, 1047, 1050 1047	VIDEO CONCI VIDEON VIDEOSONIC WARDS WELTBLICK WHITE WEST! XR-1000 YAMAHA YAMISHI YOKAN YOKO ZENITH DVD ACOUSTIC SO AIWA AKAI AKURA ALBA APEX	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 DLUTIONS 2078 2055, 2100 2096 2076 2078, 2086 2027, 2049

AYION	2078	ORAVA	2075	YAMADA	2077	NIVEUS MED	ĪΑ
AXION BRAINWAVE		P&B	2075	YAMAHA	2000, 2001, 2003,	NIVEOS MED.	2132
BRANDT	2073, 2085	PACIFIC	2074	17 11 11 11 11	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		2073, 2081, 2090				2128
CLATRONIC	2075	PIONEER	2036, 2082	DVD DVD		PIONEER	2012, 2013, 2014
COBY	2078	PROLINE	2077	DVD-DVR		PROSCAN	2129
C-TECH	2074	PROVISION	2075	PANASONIC	2067	RCA	2116, 2124, 2129,
CYBERHOME		RCA	2031, 2042, 2050,	PIONEER	2114		2133
	2025, 2079, 2091		2051	SAMSUNG	2115	REPLAYTV	2118, 2119, 2120
DAEWOO	2092, 2098	RED STAR	2076	TOSHIBA	2068	SHARP	2009, 2010
DANSAI	2096	REOC	2074			SONIC BLUE	2119, 2120
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
DK DIGITAL	2094		2113	DVD REC	ORDER	TAGAR SYSTI	EMS
DUAL	2078	SANSUI	2074	APEX	2024		2132
D-VISION	2096	SANYO	2095	JVC	2070	TIVO	2116, 2121, 2122,
DVX	2074	SCANMAGIC	2078	LG	2070		2123, 2130, 2131
ELTA	2096	SCIENTIFIC L	ABS			TOSHIBA	2004, 2125, 2132
EUROLINE	2096		2074	PANASONIC	2020, 2065, 2066,	TOUCH	2132
FUNAI	2052, 2058	SCOTT	2088	DITH IDC	2067	ULTIMATETV	2133
GLOBAL SOL	UTIONS	SEG	2074, 2086	PHILIPS	2019, 2061, 2062,	VIEWSONIC	2132
	2074	SHARP	2034, 2043, 2059,		2063	VOODOO	2132
GLOBAL SPH	ERE		2093, 2106	PIONEER	2021	YAMAHA	2011
	2074	SILVA	2076	RCA	2018	ZT GROUP	2132
GOODMANS	2075, 2077, 2078	SINGER	2074	SONY	2022, 2064		
GRUNDIG	2077, 2098	SKYMASTER		TOSHIBA	2068		
Н&В	2075	SKYWORTH		YAMAHA	2023	. D. D. AVE	
HAAZ	2074	SM ELECTRO		YUKAI	2069	LD PLAYE	K
HE	2078		2074, 2078			YAMAHA	2002
	2032, 2072	SONY					
HITACHI	2032, 2072 TRONICS	SONY	2028, 2029, 2039,	DVR			
	RONICS		2028, 2029, 2039, 2083, 2107	DVR	2122	CD DI AVE	
HITACHI HOME ELECT	TRONICS 2078	SONY SOUNDMAST	2028, 2029, 2039, 2083, 2107	ABS	2132	CD PLAYE	
HITACHI HOME ELECT INNOVATION	2078 2072	SOUNDMAST	2028, 2029, 2039, 2083, 2107 EER 2074	ABS ALIENWARE	2132	CD PLAYE	FR 5000, 5013
HITACHI HOME ELECT INNOVATION IRRADIO	2078 2072 2134	SOUNDMAST SOUNDMAX	2028, 2029, 2039, 2083, 2107 EER 2074 2074	ABS	2132 ER	_	
HITACHI HOME ELECT INNOVATION IRRADIO JDB	2078 2072 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	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	2078 2072 2134 2078 2078 2033, 2045, 2053, 2073, 2099	SOUNDMAST SOUNDMAX STANDARD STAR CLUSTI	2028, 2029, 2039, 2083, 2107 ER 2074 2074 2074 ER 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	2078 2072 2134 2078 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 2075	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	2078 2072 2134 2078 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 KINGAVON KODA	2078 2072 2134 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 ER 2074 ER 2074 2075 V	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 LAWSON	2078 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	2132 R 2132 2132 2123, 2128, 2129, 2133 RK 2126, 2127 2126	YAMAHA CD RECOI YAMAHA	5000, 5013
HITACHI HOME ELECT INNOVATION IRRADIO JDB JVC KENWOOD KINGAVON KODA LAWSON LENCO	2078 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	2132 R 2132 2132 2123, 2128, 2129, 2133 RK 2126, 2127 2126 2126, 2127	CD RECOI YAMAHA	5000, 5013 RDER 5001
HITACHI HOME ELECT INNOVATION IRRADIO JDB JVC KENWOOD KINGAVON KODA LAWSON LENCO LG	2078 2078 2072 2134 2078 2033, 2045, 2053, 2073, 2099 2030, 2097 2075 2075 2074 2075 2084, 2087	SOUNDMAST SOUNDMAX STANDARD STAR CLUSTI STARMEDIA SUPERVISION SYLVANIA SYNN TCM	2028, 2029, 2039, 2083, 2107 ER 2074 2074 2074 ER 2074 2075 V 2074, 2078 2052, 2058 2074 2072	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	2078 2078 2072 2134 2078 2033, 2045, 2053, 2073, 2099 2030, 2097 2075 2074 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 EER 2074 2075 N 2074, 2078 2052, 2058 2074 2072	ABS ALIENWARE CYBERPOWE DELL DIRECTV DISH NETWO ECHOSTAR EXPRESSVU GATEWAY	2132 R 2132 2132 2123, 2128, 2129, 2133 RK 2126, 2127 2126 2126, 2127 2126 2132	CD RECOI YAMAHA	5000, 5013 RDER 5001
HITACHI HOME ELECT INNOVATION IRRADIO JDB JVC KENWOOD KINGAVON KODA LAWSON LENCO LG LIFETEC LIMIT	2078 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 TEC	2028, 2029, 2039, 2083, 2107 **ER 2074 2074 ER 2074 ER 2074 5075 **S 2074, 2078 2052, 2058 2074 2072 2074 2076	ABS ALIENWARE CYBERPOWE DELL DIRECTV DISH NETWO ECHOSTAR EXPRESSVU GATEWAY GOI	2132 R 2132 2132 2123, 2128, 2129, 2133 PRK 2126, 2127 2126 2126, 2127 2126 2132 2132	CD RECOI YAMAHA	5000, 5013 RDER 5001
HITACHI HOME ELECT INNOVATION IRRADIO JDB JVC KENWOOD KINGAVON KODA LAWSON LENCO LG LIFETEC LIMIT LOGICLAB	2078 2078 2072 2134 2078 2033, 2045, 2053, 2073, 2099 2030, 2097 2075 2075 2074 2074 2074 2072 2074 2074 2074	SOUNDMAST SOUNDMAX STANDARD STAR CLUSTI STARMEDIA SUPERVISION SYLVANIA SYNN TCM TEAC TEC TECHNICS	2028, 2029, 2039, 2083, 2107 **ER	ABS ALIENWARE CYBERPOWE DELL DIRECTV DISH NETWO ECHOSTAR EXPRESSVU GATEWAY	2132 R 2132 2132 2123, 2128, 2129, 2133 DRK 2126, 2127 2126 2126, 2127 2126 2132 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	2078 2078 2072 2134 2078 2033, 2045, 2053, 2073, 2099 2030, 2097 2075 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 **N* 2074, 2078 2052, 2058 2074 2072 2074 2076 2030 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 2132 2126 CKARD 2132	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	2078 2078 2072 2134 2078 2033, 2045, 2053, 2073, 2099 2030, 2097 2075 2074 2074 2075 2084, 2087 2072 2074 2077 2077 2077 2077 2077 207	SOUNDMAST SOUNDMAX STANDARD STAR CLUSTI STARMEDIA SUPERVISION SYLVANIA SYNN TCM TEAC TEC TECHNICS	2028, 2029, 2039, 2083, 2107 ER 2074 2074 2074 2074 ER 2075 V 2074, 2078 2052, 2058 2074 2072 2074 2076 2030 2096 IC	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	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	2078 2078 2072 2134 2078 2033, 2045, 2053, 2073, 2099 2030, 2097 2075 2075 2074 2075 2084, 2087 2072 2074 2074 2074 2077 2074 2077 2074 2077 2077 2077 2037, 2073, 2075 2072	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 PKK 2126, 2127 2126 2126, 2127 2126 2132 2126 CKARD 2132 2008 MPUTERS	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	2078 2078 2072 2134 2078 2033, 2045, 2053, 2073, 2099 2030, 2097 2075 2074 2075 2084, 2087 2072 2074 2074 2077 2037, 2073, 2075 2072 2074 2077 2037, 2073, 2075 2072 2078	SOUNDMAST SOUNDMAX STANDARD STAR CLUSTI STARMEDIA SUPERVISION SYLVANIA SYNN TCM TEAC TEC TECHNICS TECHNICS TECHNIKA TECHNOSON TEVION	2028, 2029, 2039, 2083, 2107 ER 2074 2074 2074 EER 2074 2075 V 2074, 2078 2052, 2058 2074 2072 2074 2076 2030 2096 IC 2096 2072, 2074	ABS ALIENWARE CYBERPOWE DELL DIRECTV DISH NETWO DISHPRO ECHOSTAR EXPRESSVU GATEWAY GOI HEWLETT PA HITACHI HOWARD CO	2132 R 2132 2132 2132, 2128, 2129, 2133 PRK 2126, 2127 2126 2126, 2127 2126 2132 2126 CKARD 2132 2008 MPUTERS 2132	YAMAHA CD RECOL YAMAHA 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	2078 2078 2072 2134 2078 2033, 2045, 2053, 2073, 2099 2030, 2097 2075 2074 2075 2084, 2087 2072 2074 2074 2077 2037, 2073, 2073, 2075 2072 2078 2078	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* 2075* ** **2074, 2078* 2052, 2058* 2074 2072 2074 2076 2030 2096 IC 2096 2072, 2074 2085, 2109	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 PKK 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	2078 2078 2072 2134 2078 2033, 2045, 2053, 2073, 2099 2030, 2097 2075 2074 2075 2084, 2087 2072 2074 2077 2037, 2073, 2075 2072 2074 2077 2037, 2073, 2075	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 2123, 2128, 2129, 2133 PKK 2126, 2127 2126 2126, 2127 2126 2132 2126 CKARD 2132 2008 MPUTERS 2132 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	TRONICS 2078 2072 2134 2078 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	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 RK 2126, 2127 2126 2126, 2127 2126 2132 2126 CKARD 2132 2008 MPUTERS 2132 2126 2123, 2128 2123	YAMAHA CD RECOL YAMAHA 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	2078 2078 2072 2134 2078 2033, 2045, 2053, 2073, 2099 2030, 2097 2075 2074 2075 2084, 2087 2072 2074 2077 2037, 2073, 2075 2072 2078 2072 2078 2072 2078 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 ER 2074 2074 2074 2074 ER 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 2R 2133 2RK 2123, 2128, 2129, 2133 2RK 2126, 2127 2126 2132 2126 CKARD 2132 2008 MPUTERS 2132 2126 2123, 2128 2128 2123 2132 2128 2123 2132	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 MICROMEDIA	2078 2078 2072 2134 2078 2033, 2045, 2053, 2073, 2099 2030, 2097 2075 2074 2074 2074 2074 2074 2074 2074 2074 2074 2074 2074 2074 2077 2037, 2073, 2075 2088, 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 2072 2078 2072 2078 2072 2073 2074 2075 2076 2077 2077 2077 2077 2077 2078 2079 2079 2070 2070 2070 2071 2072 2072 2078 2072 2078 2072 2078 2072 2078 2072 2078 2079 2070	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 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	ABS ALIENWARE CYBERPOWE DELL DIRECTV DISH NETWO DISHPRO ECHOSTAR EXPRESSVU GATEWAY GOI HEWLETT PA HITACHI HOWARD CO: HTS HUGHES HUMAX HUSH IBUYPOWER	2132 R 2132 2132 2132 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 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 MICROSTAR	2078 2078 2072 2134 2078 2033, 2045, 2053, 2073, 2099 2030, 2097 2075 2074 2075 2084, 2087 2072 2074 2074 2077 2037, 2073, 2075 2072 2078 2072 2078 2072 2078 2072 2078 2072 2072 2073 2072 2074	SOUNDMAST SOUNDMAX STANDARD STAR CLUSTI STARMEDIA SUPERVISION SYLVANIA SYNN TCM TEAC TEC TECHNICS TECHNICS TECHNIKA TECHNOSON TEVION THOMSON TOKAI TOSHIBA UNITED	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 2072, 2074 2085, 2109 2076 2026, 2044, 2048, 2056, 2073, 2108, 2111 2078	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 2133 PKK 2126, 2127 2126 2126, 2127 2126 2132 2126 CKARD 2132 2008 MPUTERS 2132 2126 2123, 2128 2123 2132 2132 2126 2123, 2128 2123 2132 2132 2126 2123, 2128	YAMAHA CD RECOLYAMAHA 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 MICROSTAR MITSUBISHI	2078 2078 2072 2134 2078 2033, 2045, 2053, 2073, 2099 2030, 2097 2075 2074 2075 2084, 2087 2072 2074 2074 2077 2037, 2073, 2075 2072 2078 2072 2078 2072 2078 2072 2078 2072 2078 2072 2073 2072 2073 2072 2073 2072 2073 2072 2073 2072 2073 2072 2073	SOUNDMAST SOUNDMAX STANDARD STAR CLUSTI STARMEDIA SUPERVISION SYLVANIA SYNN TCM TEAC TEC TECHNICS TECHNICS TECHNIKA TECHNOSON TEVION THOMSON TOKAI TOSHIBA UNITED VOXSON	2028, 2029, 2039, 2083, 2107 FER 2074 2074 2074 2074 2075 N 2074, 2078 2052, 2058 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 2133, 2128, 2129, 2133 PKK 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 RECOLYAMAHA 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 MICROMEDIA MICROSTAR MITSUBISHI MIZUDA	2078 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 TOSHIBA UNITED	2028, 2029, 2039, 2083, 2107 FER 2074 2074 2074 2074 2075 V 2074, 2078 2052, 2058 2074 2072 2074 2076 2030 2096 IC 2096 2072, 2074 2075, 2109 2076 2026, 2044, 2048, 2056, 2073, 2108, 2111 2078 2078 EE	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 RECOLYAMAHA 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	2078 2078 2078 2078 2072 2134 2078 2033, 2045, 2053, 2073, 2099 2030, 2097 2075 2074 2075 2084, 2087 2072 2074 2077 2037, 2073, 2075 2072 2078 2072 2078 2072 4 2073 2072 4 2073 2072 5 2073 2072 2078 2072 4 2073 2072 2078 2072 2078 2072 2078 2072 2078 2072 2078 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 TOSHIBA UNITED VOXSON WHARFEDAL	2028, 2029, 2039, 2083, 2107 **TER** 2074 2074 2074 2074 2075 **V* 2074, 2078 2052, 2058 2074 2072 2074 2072 2074 2076 2030 2096 IC 2096 2072, 2074 2085, 2109 2076 2026, 2044, 2048, 2056, 2073, 2108, 2111 2078 2078 2E 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 2126 2123, 2128 2123 2132 2132 2132 2132 2132 2132	YAMAHA CD RECOL 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	2078 2078 2078 2072 2134 2078 2033, 2045, 2053, 2073, 2099 2030, 2097 2075 2074 2075 2084, 2087 2072 2074 2077 2037, 2073, 2075 2072 2078 2072 2078 2072 2078 2072 2078 2072 2073 2072 2073 2075 2075 2077 2077 2077 2077 2077 2077 2077 2078 2072 2078 2072 2078 2072 2078 2072 2078 2072 2078 2072 2078 2072 2078 2072 2078 2072 2078 2075 2075 2076 2077 2077 2077 2078 2079 2070	SOUNDMAST SOUNDMAX STANDARD STAR CLUSTI STARMEDIA SUPERVISION SYLVANIA SYNN TCM TEAC TEC TECHNICS TECHNICS TECHNIKA 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 EE 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 MEDIA CENT	2132 R 2132 2132 2132 2133, 2128, 2129, 2133 PRK 2126, 2127 2126 2132 2126 2132 2126 CKARD 2132 2008 MPUTERS 2132 2126 2123, 2128 2126 2123, 2128 2123 2132 2132 2132 2132 2132 2132	YAMAHA CD RECOLYAMAHA 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	2078 2078 2078 2078 2072 2134 2078 2033, 2045, 2053, 2073, 2099 2030, 2097 2075 2074 2075 2084, 2087 2072 2074 2077 2037, 2073, 2075 2072 2078 2072 2078 2072 4 2073 2072 4 2073 2072 5 2073 2072 2078 2072 4 2073 2072 2078 2072 2078 2072 2078 2072 2078 2072 2078 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 TOSHIBA UNITED VOXSON WHARFEDAL	2028, 2029, 2039, 2083, 2107 **TER** 2074 2074 2074 2074 2075 **V* 2074, 2078 2052, 2058 2074 2072 2074 2072 2074 2076 2030 2096 IC 2096 2072, 2074 2085, 2109 2076 2026, 2044, 2048, 2056, 2073, 2108, 2111 2078 2078 2E 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 2126 2123, 2128 2123 2132 2132 2132 2132 2132 2132	YAMAHA CD RECOL 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

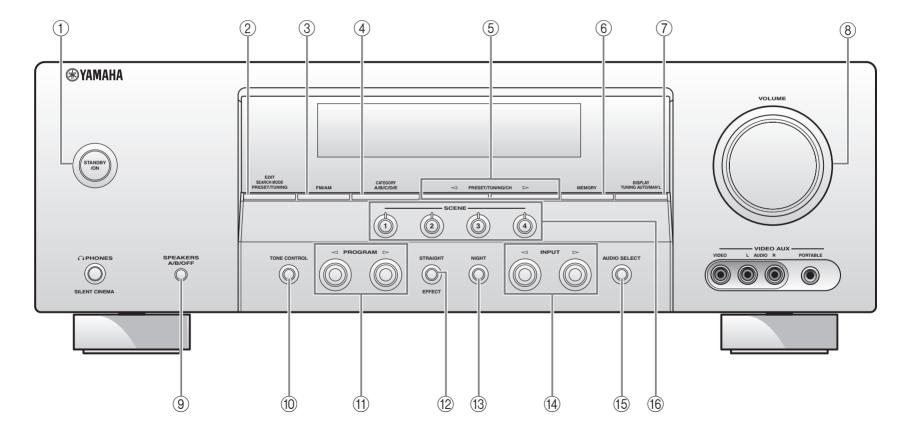




© 2007 YAMAHA CORPORATION All rights reserved.

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

■ Front panel



■ Remote control

