RX-V659

AV Receiver Ampli-tuner audio-vidéo

OWNER'S MANUAL MODE D'EMPLOI BEDIENUNGSANLEITUNG BRUKSANVISNING GEBRUIKSAANWIJZING ИНСТРУКЦИЯ ПО ЭКСПЛУАТАЦИИ

CAUTION: READ THIS BEFORE OPERATING YOUR UNIT.

- 1 To assure the finest performance, please read this manual carefully. Keep it in a safe place for future reference.
- Install this sound system in a well ventilated, cool, dry, clean place away from direct sunlight, heat sources, vibration, dust, moisture, and/or cold. Allow ventilation space of at least 30 cm on the top, 20 cm on the left and right, and 20 cm on the back of this unit.
- 3 Locate this unit away from other electrical appliances, motors, or transformers to avoid humming sounds.
- 4 Do not expose this unit to sudden temperature changes from cold to hot, and do not locate this unit in a environment with high humidity (i.e. a room with a humidifier) to prevent condensation inside this unit, which may cause an electrical shock, fire, damage to this unit, and/or personal injury.
- Avoid installing this unit where foreign object may fall onto this unit and/or this unit may be exposed to liquid dripping or splashing. On the top of this unit, do not place:
 - other components, as they may cause damage and/or discoloration on the surface of this unit.
 - burning objects (i.e. candles), as they may cause fire, damage to this unit, and/or personal injury.
 - containers with liquid in them, as they may fall and liquid may cause electrical shock to the user and/or damage to this unit.
- 6 Do not cover this unit with a newspaper, tablecloth, curtain, etc. in order not to obstruct heat radiation. If the temperature inside this unit rises, it may cause fire, damage to this unit, and/or personal injury.
- 7 Do not plug in this unit to a wall outlet until all connections are complete.
- 8 Do not operate this unit upside-down. It may overheat, possibly causing damage.
- **9** Do not use force on switches, knobs and/or cords.
- 10 When disconnecting the power cable from the wall outlet, grasp the plug; do not pull the cord.
- 11 Do not clean this unit with chemical solvents; this might damage the finish. Use a clean, dry cloth.
- 12 Only voltage specified on this unit must be used. Using this unit with a higher voltage than specified is dangerous and may cause fire, damage to this unit, and/or personal injury. YAMAHA will not be held responsible for any damage resulting from use of this unit with a voltage other than specified.
- 13 To prevent damage by lightning, keep the power cable and outdoor antennas disconnected from a wall outlet or this unit during a lightning storm.
- 14 Do not attempt to modify or fix this unit. Contact qualified YAMAHA service personnel when any service is needed. The cabinet should never be opened for any reasons.
- 15 When not planning to use this unit for long periods of time (i.e. vacation), disconnect the AC power plug from the wall outlet.
- **16** Install this unit near the AC wall outlet where the power cable plug can be reached easily.
- 17 Be sure to read the "TROUBLESHOOTING" section on common operating errors before concluding that this unit is faulty.

- 18 Before moving this unit, press MASTER ON/OFF to release it outward to the OFF position to turn off this unit, and then disconnect the power cable from the AC wall outlet.
- 19 VOLTAGE SELECTOR (Asia and General models only) The VOLTAGE SELECTOR on the rear panel of this unit must be set for your local main voltage BEFORE plugging into the AC wall outlet. Voltages are:

WARNING

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

This unit is not disconnected from the AC power source as long as it is connected to the wall outlet, even if this unit itself is turned off. In this state, this unit is designed to consume a very small quantity of power.

■ For U.K. customers

If the socket outlets in the home are not suitable for the plug supplied with this appliance, it should be cut off and an appropriate 3 pin plug fitted. For details, refer to the instructions described below.

Note

The plug severed from the mains lead must be destroyed, as a plug with bared flexible cord is hazardous if engaged in a live socket outlet.

Special Instructions for U.K. Model

IMPORTANT

THE WIRES IN MAINS LEAD ARE COLOURED IN ACCORDANCE WITH THE FOLLOWING CODE:

Blue: NEUTRAL Brown: LIVE

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured BLUE must be connected to the terminal which is marked with the letter N or coloured BLACK. The wire which is coloured BROWN must be connected to the terminal which is marked with the letter L or coloured RED.

Making sure that neither core is connected to the earth terminal of the three pin plug.

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FEATURES

Built-in 7-channel power amplifier

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

Front: 100 W + 100 W Center: 100 W

Surround: 100 W + 100 W Surround back: 100 W + 100 W

Sound field programs

- Proprietary YAMAHA technology for the creation of sound fields
- ◆ Dolby Digital/Dolby Digital EX decoder
- DTS/DTS-ES Matrix 6.1, Discrete 6.1, DTS Neo:6, DTS 96/ 24 decoder
- Dolby Pro Logic/Dolby Pro Logic II/Dolby Pro Logic IIx decoder
- Virtual CINEMA DSP
- ◆ SILENT CINEMATM

Sophisticated AM/FM tuner

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

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

◆ Radio Data System tuning capability

iPod controlling capability

 DOCK terminal to connect a YAMAHA iPod universal dock (such as YDS-10 sold separately), which supports iPod (Click and Wheel), iPod nano, and iPod mini

Other features

- YPAO (YAMAHA Parametric Room Acoustic Optimizer) for automatic speaker setup
- ◆ 192-kHz/24-bit D/A converter
- OSD (on-screen display) menus that allow you to optimize this unit to suit your individual audiovisual system
- ◆ 8 additional input jacks for discrete multi-channel input
- Pure Direct mode for pure hi-fi stereo sound with analog and PCM sources
- S-video signal input/output capability
- Component video input/output capability
 (3 COMPONENT VIDEO INs and 1 MONITOR OUT)
- Digital video signal conversion (composite video ↔ S-video
 → component video) capability for monitor out
- ◆ Optical and coaxial digital audio signal jacks
- Sleep timer
- ◆ Cinema and music night listening modes
 - Remote control with preset remote control codes, backlighting input selector buttons, and an iPod (stationed in a YAMAHA iPod universal dock connected to the DOCK terminal) controlling capability
- Zone 2 custom installation facility
- Zone switching capability between the main zone and Zone 2 using ZONE CONTROL
- Compressed Music Enhancer mode to improve the sound quality of compression artifacts (such as the MP3 format) to that of a high-quality stereo

Notes

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



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$iPod^{@}$

"iPod" is a trademark of Apple Computer, Inc., registered in the U.S. and other countries.

SILENT ™ CINEMA

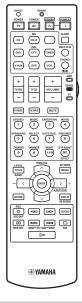
"SILENT CINEMA" is a trademark of YAMAHA CORPORATION.

GETTING STARTED

Supplied accessories

Check that you received all of the following parts.

Remote control



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



AM loop antenna (except for U.K. model)



Optimizer microphone



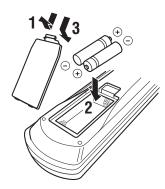
Indoor FM antenna (U.S.A., Canada, China, Asia and General models)



Indoor FM antenna (Europe, Australia and Korea models)



Installing batteries in the remote control

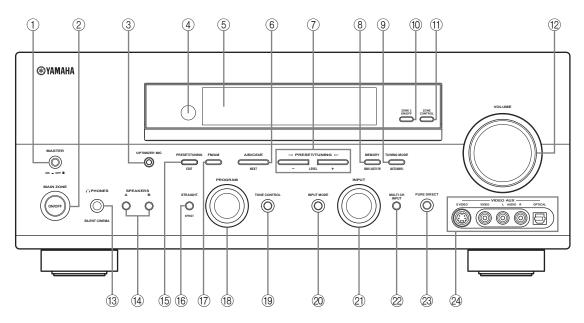


- 1 Take off the battery compartment cover.
- Insert the two supplied batteries (AA, R6, UM-3) according to the polarity markings (+ and –) on the inside of the battery compartment.
- 3 Snap the battery compartment cover back into place.

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

CONTROLS AND FUNCTIONS

Front panel



1 MASTER ON/OFF

Turns on or off this unit (see page 31).

② MAIN ZONE ON/OFF

Turns on the main zone or sets it to the standby mode (see page 31).

Notes

- In the standby mode, this unit consumes a small amount of power in order to receive infrared signals from the remote control.
- When you turn on this unit, there will be a 4 to 5-second delay before this unit can reproduce sound.
- This button is operational only when MASTER ON/OFF is pressed inward to the ON position.

③ OPTIMIZER MIC jack

Use to connect and input audio signals from the supplied optimizer microphone in the "AUTO SETUP" procedure (see page 32).

(4) Remote control sensor

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

(5) Front panel display

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

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

- Selects one of the 5 preset station groups (A to E) when "TUNER" is selected as the input source (see page 52).
- Selects the speaker channel whose output level you want to adjust when "TUNER" is not selected as the input source (see page 42).

⑦ PRESET/TUNING <1/p>, LEVEL +/-

- Selects one of the 8 preset station numbers (1 to 8) when "TUNER" is selected as the input source. The colon (:) is displayed in the front panel display (see page 52).
- Selects the tuning frequency when "TUNER" is selected as the input source. The colon (:) is not displayed in the front panel display (see page 52).
- Adjusts the level of the speaker channel selected using NEXT when "TUNER" is not selected as the input source (see page 42).

8 MEMORY (MAN'L/AUTO FM)

Stores a preset station in the memory. Hold down this button for more than 3 seconds to start automatic preset tuning (see page 54).

9 TUNING MODE (AUTO/MAN'L)

Switches between automatic tuning (the AUTO indicator is turned on) and manual tuning (the AUTO indicator is turned off) (see page 52).

① ZONE 2 ON/OFF

Turns on Zone 2 or sets it to the standby mode (see page 99).

Note

This button is operational only when MASTER ON/OFF is pressed inward to the ON position.

11) ZONE CONTROL

Switches the zone you want to control between the main zone and Zone 2 (see page 99).

`\\\

When Zone 2 is selected, the ZONE2 indicator flashes in the front panel display for approximately 5 seconds. While the indicator is flashing, perform the desired operation.

12 VOLUME

Controls the output level of all audio channels.

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

(3) PHONES (SILENT CINEMA) jack

Outputs audio signals for private listening with headphones (see page 40).

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.

(4) SPEAKERS A/B

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

15 PRESET/TUNING, EDIT

- Switches the function of PRESET/TUNING
 between selecting preset station numbers and selecting the tuning frequency.
- Edits the assignments of preset stations (see page 57).

16 STRAIGHT (EFFECT)

Turns the sound field programs off or on. When the "STRAIGHT" mode is selected, 2-channel or multichannel input signals are output directly from their respective speakers without effect processing (see page 45).

(7) FM/AM

Switches the reception band between FM and AM when "TUNER" is selected as the input source (see page 52).

(8) PROGRAM selector

Selects sound field programs or adjusts the bass/treble balance in conjunction with TONE CONTROL (see page 39).

19 TONE CONTROL

Adjusts the bass/treble balance of the front left and right, center, presence left and right and subwoofer channels in conjunction with the PROGRAM selector (see page 39).

20 INPUT MODE

Selects either digital or analog input signals exclusively or sets this unit to automatically detect the type of input signals and select the corresponding input signals when one component is connected via both digital and analog connections (see page 41).

21 INPUT selector

Selects the desired input source.

22 MULTI CH INPUT

Selects the component connected to the MULTI CH INPUT jacks as the input source (see page 44).

Note

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

23 PURE DIRECT

Turns on or off the Pure Direct mode (see page 45).

24 VIDEO AUX jacks

Input audio and video signals from a portable external source such as a game console or a video camera (see page 27).

`\o':

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

Note

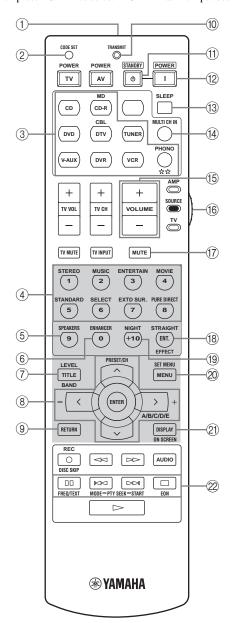
The audio signals input at the DOCK terminal on the rear panel take priority over the ones input at the VIDEO AUX jacks.

Remote control

This section describes the function of each control on the remote control used to control this unit. To operate other components, see "REMOTE CONTROL FEATURES" on page 92.

Note

The operation mode of the remote control buttons in the shaded area below depends on the component selector switch position. Set the component selector switch to AMP to control this unit. To control the TUNER functions, set the component selector switch to SOURCE and then press TUNER to select "TUNER" as the input source.



■ Controlling this unit

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

1 Infrared window

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

② CODE SET

Use to set up remote control codes (see page 94).

③ Input selector buttons

Select the input source you want to control.

Note

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

4 Sound field program selector buttons

Select sound field programs (see page 63).

- Use SELECT to play back 2-channel sources in surround (see page 49).
- Use EXTD SUR. to switch between 5.1 and 6.1/7.1-channel playback of multi-channel sources (see page 48).
- Use PURE DIRECT to turn on or off the Pure Direct mode (see page 45).

(5) SPEAKERS

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



6 ENHANCER

Turns on or off the Compressed Music Enhancer mode (see page 43).

(7) LEVEL

Selects the speaker channel to be adjusted and sets the output level (see page 42).

8 Cursor buttons ∧ / ∨ / ⟨ / ⟩, ENTER

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

9 RETURN

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

10 TRANSMIT indicator

Flashes while the remote control is sending infrared signals.

(f) STANDBY

Sets this unit to the standby mode (see page 31).

Note

This button is operational only when MASTER ON/OFF on the front panel is pressed inward to the ON position.

12 POWER

Turns on this unit (see page 31).

Note

This button is operational only when MASTER ON/OFF on the front panel is pressed inward to the ON position.

13 SLEEP

Sets the sleep timer (see page 41).

(4) MULTI CH IN

Selects the component connected to the MULTI CH INPUT jacks as the input source when using an external decoder, etc. (see page 44).

15 VOLUME +/-

Increases or decreases the volume level.

16 Component selector switch

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

AMP

Operates this unit.

SOURCE

Operates the component selected with an input selector button (see page 93).

TV

Operates the TV assigned to either DTV/CBL or PHONO (see page 92).

Notes

- To set the remote control codes for other components, see page 94.
- When you set the remote control codes for both DTV/CBL and PHONO (see page 94), priority is given to the one set for DTV/ CBL.

(7) MUTE

Mutes the audio output. Press again to restore the audio output to the previous volume level (see page 40).

(8) STRAIGHT (EFFECT)

Turns the sound field programs off or on. When the "STRAIGHT" mode is selected, 2-channel or multichannel input signals are output directly from their respective speakers without effect processing (see page 45).

19 NIGHT

Turns on or off the night listening modes (see page 40).

20 SET MENU

Enters "SET MENU" (see page 78).

② ON SCREEN

Selects the on-screen display (OSD) mode for your video monitor (see page 47).

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

FREQ/TEXT

Switches the Radio Data System display between the PS mode, PTY mode, RT mode, CT mode (if the station offers the corresponding data services) and the frequency display (see page 61).

PTY SEEK MODE

Sets this unit to the PTY SEEK mode (see page 59).

PTY SEEK START

Starts searching for a station once the desired program type is selected in the PTY SEEK mode (see page 59).

EON

Selects a program type (NEWS, AFFAIRS, INFO, or SPORT) for automatic tuning (see page 60).

Controlling the TUNER functions

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

(4) Numeric buttons

Use numbers 1 through 8 to select preset stations.

(7) BAND

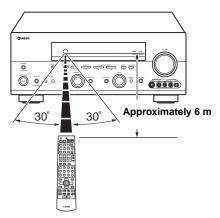
Switches the reception band between FM and AM (see page 52).

(8) Cursor buttons $\land I \lor I \lt I \gt$

Press \langle / \rangle to select a preset station group (A to E) and \wedge / \vee to select a preset station number (1 to 8) (see page 56).

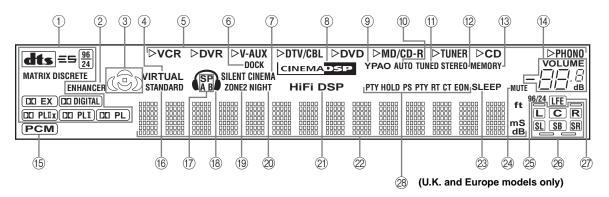
Using the remote control

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.



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

Front panel display



Decoder indicators

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

② ENHANCER indicator

Lights up when the Compressed Music Enhancer mode is turned on (see page 43).

Sound field indicators

Light up to indicate the active DSP sound fields.

Presence DSP sound field



Surround back DSP sound field

(4) VIRTUAL indicator

Lights up when Virtual CINEMA DSP is active (see page 50).

(5) Input source indicators

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

6 DOCK indicator

Lights up when you station your iPod in a YAMAHA iPod universal dock (such as YDS-10 sold separately) connected to the DOCK terminal of this unit (see page 24).

(7) SILENT CINEMA indicator

Lights up when headphones are connected and a sound field program is selected (see page 40).

(8) CINEMA DSP indicator

Lights up when you select a CINEMA DSP sound field program (see page 64).

(9) YPAO indicator

Lights up when you run "AUTO SETUP" and when the speaker settings set in "AUTO SETUP" are used without any modifications (see page 32).

(10) AUTO indicator

Lights up when this unit is in the automatic tuning mode (see page 52).

(f) TUNED indicator

Lights up when this unit is tuned into a station (see page 52).

12 STEREO indicator

Lights up when this unit is receiving a strong signal for an FM stereo broadcast while the AUTO indicator is lit (see page 52).

13 MEMORY indicator

Flashes to show that a station can be stored (see page 54).

(4) VOLUME level indicator

Indicates the current volume level.

15 PCM indicator

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

CONTROLS AND FUNCTIONS

16 STANDARD indicator

Lights up when the "SUR. STANDARD" or "SUR. ENHANCED" program is selected (see page 49).

(7) SP A B indicators

Light up according to the set of front speakers selected.

(18) Headphones indicator

Lights up when headphones are connected (see page 40).

(9) ZONE2 indicator

Lights up when Zone 2 is turned on (see page 99).

20 NIGHT indicator

Lights up when you select a night listening mode (see page 40).

21) HiFi DSP indicator

Lights up when you select a HiFi DSP sound field program (see page 64).

22 Multi-information display

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

23 SLEEP indicator

Lights up while the sleep timer is on (see page 41).

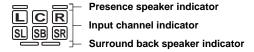
24 MUTE indicator

Flashes while the MUTE function is on (see page 40).

25 96/24 indicator

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

Input channel and speaker indicators



Input channel indicators

Indicate the channel components of the current digital input signal.

Presence and surround back speaker indicators

Light up according to the number of presence and surround back speakers set for "PRESENCE SP" (see page 80) and "SUR. B L/R SP" (see page 80) in "SOUND MENU" when "TEST" in "SOUND MENU" is set to "ON" (see page 83).



You can make settings for the presence and surround back speakers automatically by running "AUTO SETUP" (see page 32) or manually by adjusting settings for "PRESENCE SP" (see page 80) and "SUR. B L/R SP" (see page 80) in "SOUND MENU".

27 LFE indicator

Lights up when the input signal contains the LFE signal.

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

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

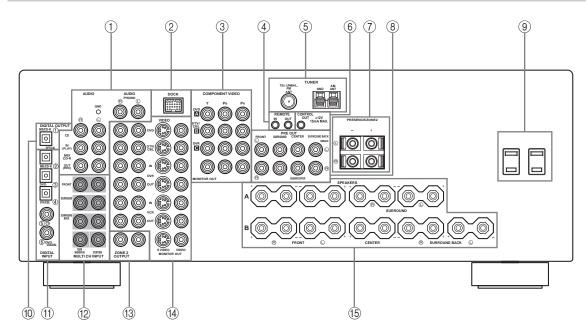
EON

Lights up when the EON data service is being received.

PTY HOLD

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

Rear panel



Audio component jacks

See page 23 for connection information.

2 DOCK terminal

Use to connect a YAMAHA iPod universal dock (such as YDS-10 sold separately) where your iPod can be stationed.

See page 24 for connection information.

③ COMPONENT VIDEO jacks

See pages 19 and 20 for connection information.

4 REMOTE jacks

See page 97 for details.

(5) Antenna terminals

See page 28 for connection information.

6 CONTROL OUT jack

This is a control expansion terminal for custom installation.

7 PRESENCE/ZONE2 speaker terminals

See page 15 for connection information.

8 PRE OUT jacks

See page 25 for connection information.

AC OUTLET(S)

Use to supply power to your other audiovisual components.

See page 29 for details.

10 DIGITAL OUTPUT jack

See page 23 for connection information.

(1) DIGITAL INPUT jacks

See page 20 for connection information.

MULTI CH INPUT jacks

See page 26 for connection information.

(13) ZONE 2 OUTPUT jacks

See page 97 for connection information.

Note

These jacks output analog signals only.

(4) Video component jacks

See pages 19 and 20 for connection information.

(5) Speaker terminals

See page 13 for connection information.

VOLTAGE SELECTOR (Asia and General models only)

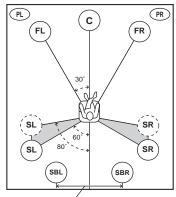
See page 29 for details.

CONNECTIONS

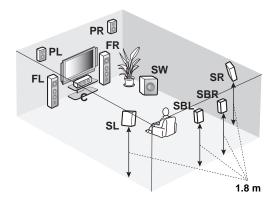
Placing speakers

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

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



30 cm (12 in) or more



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

Surround left and right speakers (SL and SR)

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

Surround back left and right speakers (SBL and SBR)

The surround back speakers supplement the surround speakers and provides more realistic front-to-back transitions. Place these speakers directly behind the listening position and at the same height as the surround speakers. They should be positioned at least 30 cm apart. Ideally, they should be positioned at the same width as that of the front speakers.

Presence left and right speakers (PL and PR)

The presence speakers supplement the sound from the front speakers with extra ambient effects produced by CINEMA DSP (see page 64). These effects include sounds that filmmakers intent to locate a little farther back behind the screen in order to create more theater-like ambience. Place these speakers at the front of the room about 0.5-1 m outside the front speakers, facing slightly inward, and about 1.8 m above the floor.

Subwoofer (SW)

The use of a subwoofer with a built-in amplifier, such as the YAMAHA Active Servo Processing Subwoofer System, is effective not only for reinforcing bass frequencies from any or all channels, but also for hi-fi stereo 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.

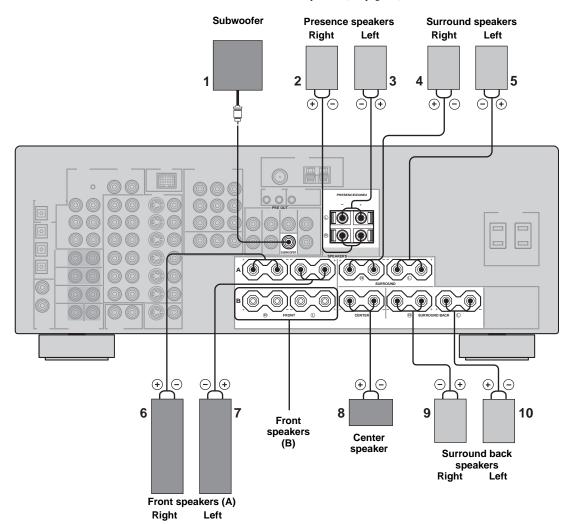
Connecting speakers

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

CAUTION

- . Before connecting the speakers, make sure that this unit is turned off (see page 31).
- Do not let the bare speaker wires touch each other or do not let them touch any metal part of this unit. This could damage this unit and/or speakers.
- Use magnetically shielded speakers. If this type of speakers still creates the interference with the monitor, place the speakers away from the monitor.
- If you are to use 4 or 6 ohm speakers, be sure to set "SP IMP." to "6ΩMIN" before using this unit (see page 30).

- A speaker cord is actually a pair of insulated cables running side by side. Cables are colored or shaped differently, perhaps with a stripe, groove or ridge. Connect the striped (grooved, etc.) cable to the "+" (red) terminals of this unit and your speaker. Connect the plain cable to the "-" (black) terminals.
- The low-frequency signals of other speakers set to "SML" (or "SMALL") or to "NONE" in "SPEAKER SET" (see pages 79 and 80) are directed to the speakers selected in "LFE/BASS OUT" (see page 81).
- You can use the PRESENCE/ZONE2 terminals to connect the Zone 2 speakers (see page 98).



CONNECTIONS

FRONT terminals

Connect one or two front speaker systems (6, 7) to these terminals. If you use only one front speaker system, connect it to the FRONT A or B terminal.

CENTER terminals

Connect a center speaker (8) to these terminals.

SURROUND terminals

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

SURROUND BACK terminals

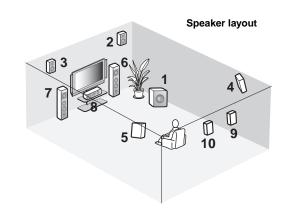
Connect a surround back speakers (9, 10) to these terminals.

PRESENCE/ZONE2 terminals

Connect presence speakers (2, 3) to these terminals.

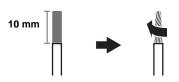
SUBWOOFER jack

Connect a subwoofer with a built-in amplifier (1) (such as the YAMAHA Active Servo Processing Subwoofer System) to this jack.



■ Connecting the speaker cable

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

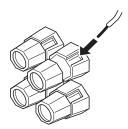


2 Loosen the knob.



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

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



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

4 Tighten the knob to secure the wire.



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

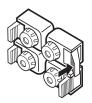
■ Connecting to the PRESENCE/ZONE2 speaker terminals

Connect presence speakers to these terminals.

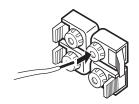
`\<u>\</u>'

You can also use these terminals to connect the Zone 2 speakers (see page 97).

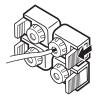
1 Open the tab.



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



3 Close the tab to secure the wire.



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

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

Banana plug



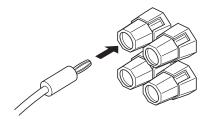
``⊚′≤

You can also use the banana plug with the PRESENCE/ZONE2 speaker terminals. Open the tab and then insert one banana plug into the hole on the side of each terminal. Do not close the tab after connecting the banana plug.

1 Tighten the knob.



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

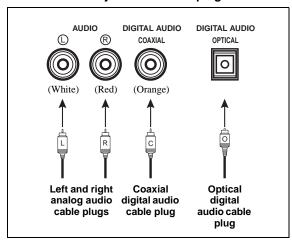


Information on jacks and cable plugs

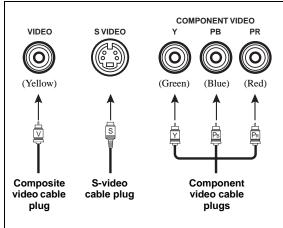
Note

You can use the digital jacks to input PCM, Dolby Digital and DTS bitstreams. When you connect components to both the COAXIAL and OPTICAL jacks, priority is given to the signals input at the COAXIAL jack. All digital input jacks are compatible with 96-kHz sampling digital signals.

Audio jacks and cable plugs



Video 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.

Note

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

This unit has three types of video jacks. Connection depends on the availability of input jacks on your video monitor. When "VIDEO CONV." is set to "ON" (see page 87), the video signals input at the VIDEO and S VIDEO jacks are converted and output at the VIDEO, S VIDEO and COMPONENT VIDEO jacks interchangeably.

VIDEO jacks

For conventional composite video signals transmitted via composite video cables.

S VIDEO jacks

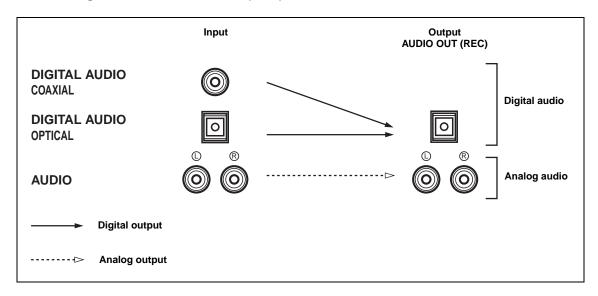
For S-video signals, separated into the luminance (Y) and chrominance (C) video signals transmitted on separate wires of S-video cables.

COMPONENT VIDEO jacks

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

Audio and video signal flow

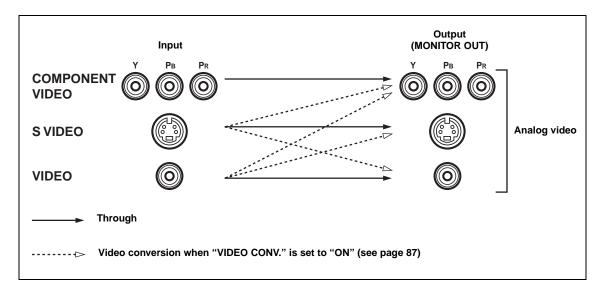
■ Audio signal flow for AUDIO OUT (REC)



Note

This unit handles digital and analog signals independently. Thus, audio signals input at the analog jacks are output only at the analog AUDIO OUT (REC) jacks. Likewise, audio signals input at the DIGITAL INPUT (OPTICAL or COAXIAL) jacks are output only at the DIGITAL OUTPUT jack.

■ Video signal flow for MONITOR OUT



Note

When video signals are input at the COMPONENT VIDEO, S VIDEO and VIDEO jacks, the priority order of the input signals is as follows where the video signals input at the COMPONENT VIDEO jacks have the top priority:

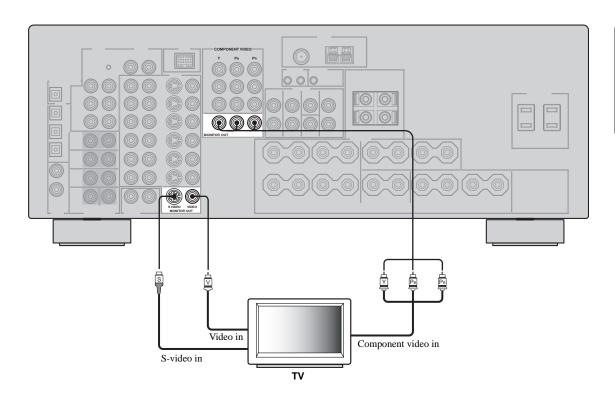
COMPONENT VIDEO > S VIDEO > VIDEO

Connecting a TV

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

CAUTION

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



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

Connect your DVD player, DVD recorder, VCR or STB (set-top box) using the same type of video connections as those made for your TV (see page 19). The cable TV receiver and the satellite receiver are examples of the STB.

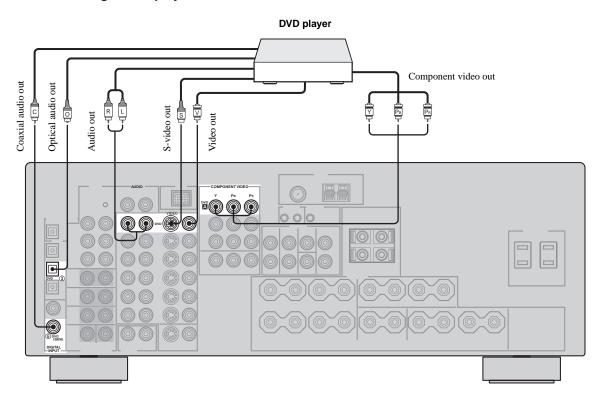
CAUTION

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

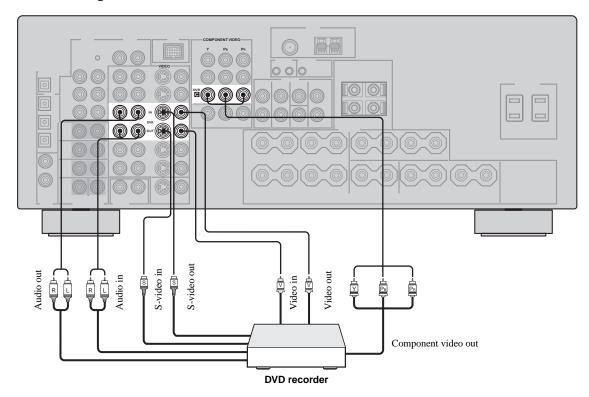
Notes

- When "VIDEO CONV." is set to "OFF" (see page 87), be sure to make the same type of video connections as those made for your TV (see page 19). For example, if you connected your TV to the VIDEO MONITOR OUT jack of this unit, connect your other components to the VIDEO jacks.
- When "VIDEO CONV." is set to "ON" (see page 87), the converted video signals are output only at the MONITOR OUT jacks. When recording a source, you must make the same type of video connections between each component.
- To make a digital connection to a component other than the default component assigned to each DIGITAL INPUT or DIGITAL OUTPUT jack, select the corresponding setting for "OPTICAL OUT", "OPTICAL IN", or "COAXIAL IN" in "I/O ASSIGNMENT" (see page 85).
- If you connect your DVD player to both the DIGITAL INPUT (OPTICAL) and the DIGITAL INPUT (COAXIAL) jacks, priority is given to the signals input at the DIGITAL INPUT (COAXIAL) jack.

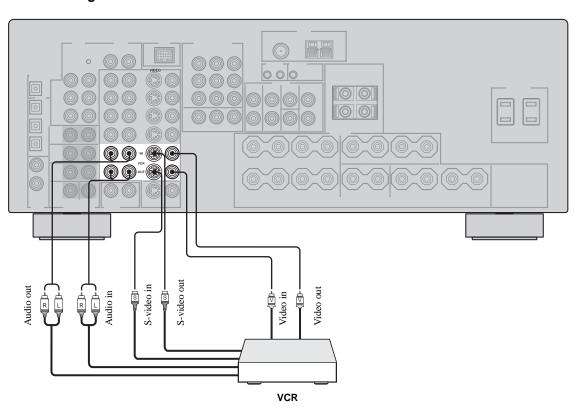
Connecting a DVD player



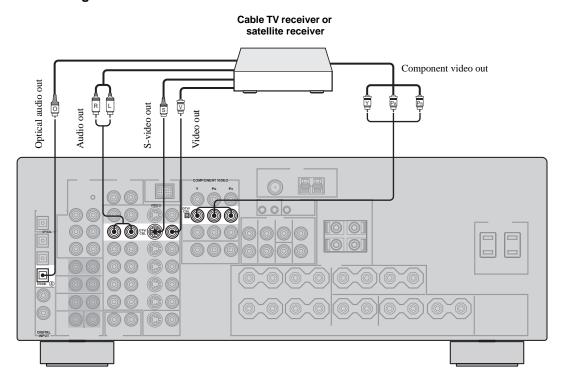
■ Connecting a DVD recorder



■ Connecting a VCR



■ Connecting an STB



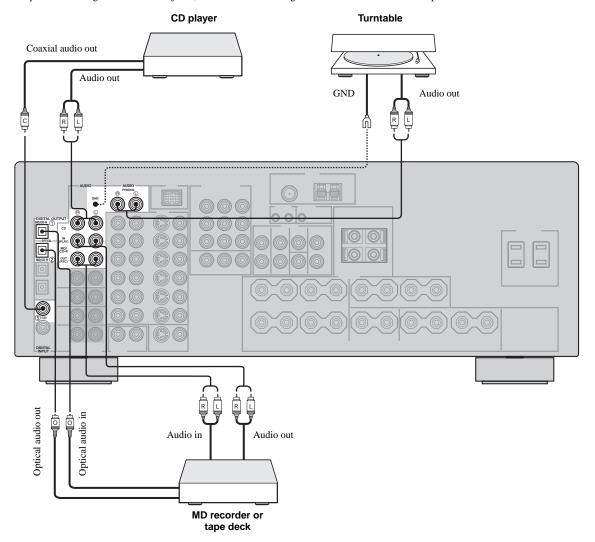
Connecting a CD player, an MD player, a tape deck or a turntable

Connect your CD player, MD player or tape deck via analog and/or digital connections.

CAUTION

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

- To make a digital connection to a component other than the default component assigned to each DIGITAL INPUT or DIGITAL OUTPUT jack, select the corresponding setting for "OPTICAL OUT", "OPTICAL IN", or "COAXIAL IN" in "I/O ASSIGNMENT" (see page 85).
- Connect your turntable to the GND terminal of this unit to reduce noise in the signal. However, you may hear less noise without the connection to the GND terminal for some turntables.
- The PHONO jacks are only compatible with a turntable with an MM or a high-output MC cartridge. To connect a turntable with a low-output MC cartridge to the PHONO jacks, use an in-line boosting transformer or an MC-head amplifier.



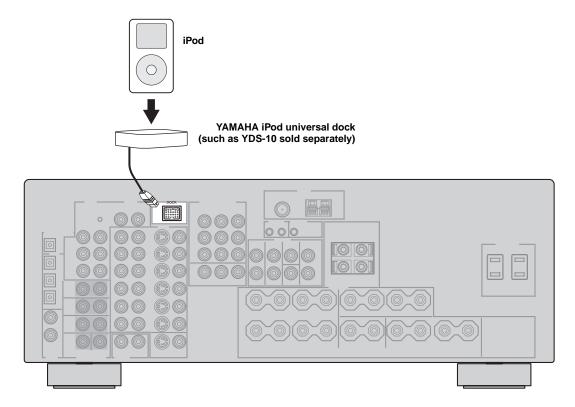
Connecting a YAMAHA iPod universal dock

This unit is equipped with the DOCK terminal on the rear panel that allows you to connect a YAMAHA iPod universal dock (such as YDS-10 sold separately) where you can station your iPod and control playback of your iPod using the supplied remote control. Connect a YAMAHA iPod universal dock (such as YDS-10 sold separately) to the DOCK terminal on the rear panel of this unit using its dedicated cable. Once the connection is complete, station your iPod in the YAMAHA iPod universal dock.

CAUTION

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

- Only iPod (Click and Wheel), iPod nano, and iPod mini are supported.
- You need a YAMAHA iPod universal dock (such as YDS-10 sold separately) and its dedicated cable compatible with the DOCK terminal of this unit.
- Once your iPod is stationed in a YAMAHA iPod universal dock (such as YDS-10 sold separately) connected to the DOCK terminal of
 this unit, this unit begins the signal transmission with your iPod.
- Once the connection between your iPod and this unit is complete, "iPod connected" appears in the front panel display and the DOCK
 indicator lights up in the front panel display. If the connection between your iPod and this unit fails, a status message appears in the
 front panel display. For a complete list of connection status messages, see the iPod section in "TROUBLESHOOTING" on page 108.
- Only analog audio and video signals of your iPod are input at the DOCK terminal, and the analog audio signals can be output at the analog AUDIO OUT (REC) jacks for recording.
- Your iPod battery is automatically charged when your iPod is stationed in a YAMAHA iPod universal dock (such as YDS-10 sold separately) connected to the DOCK terminal of this unit as long as this unit is turned on.
- Depending on the type of iPod, you may need to insert one of the iPod adapters supplied with a YAMAHA iPod universal dock (such as YDS-10 sold separately) into the dock slot before you station your iPod.



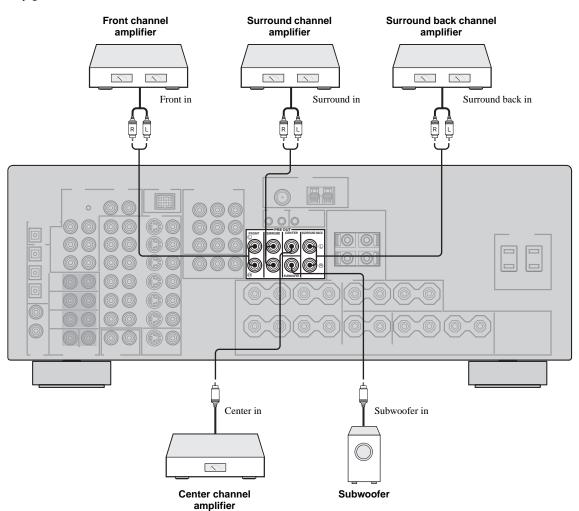
Connecting an external amplifier

This unit has more than enough power for any home use. However, if you want to add more power to the speaker output or if you want to use another amplifier, connect an external amplifier to the PRE OUT jacks.

CAUTION

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

- · When you make connections to the PRE OUT jacks, do not make connections to the SPEAKERS terminals.
- Set the volume level of the external amplifiers connected to the PRE OUT jacks to the maximum.
- The signals output at the FRONT PRE OUT and CENTER PRE OUT jacks are affected by the TONE CONTROL settings (see page 39).
- If SPEAKERS A is turned off (see page 38) and "SP B" is set to "ZONE B" (see page 89), signals are output only at the FRONT PRE OUT jacks.
- Each PRE OUT jack outputs the same channel signals as the corresponding SPEAKERS terminals.
- Adjust the volume level of the subwoofer with the control on the subwoofer. It is also possible to adjust the volume level with the supplied remote control (see page 42).
- Some signals may not be output at the SUBWOOFER PRE OUT jack depending on the settings for "SPEAKER SET" (see page 79) and "LFE/BASS OUT" (see page 81).
- To use the external amplifiers in Zone 2, select "EXT" in "ZONE2 AMP" (see page 89). For details, see "Using the external amplifier" on page 98.



Connecting a multi-format player or an external decoder

This unit is equipped with 8 additional input jacks (FRONT L/R, CENTER, SURROUND L/R, SURROUND BACK L/R 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.

CAUTION

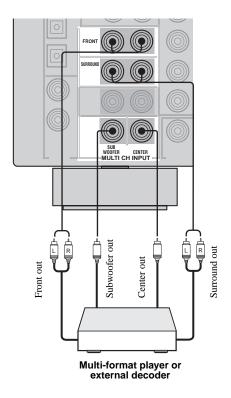
Do not connect this unit or other components to the AC power supply until all connections between components are complete.

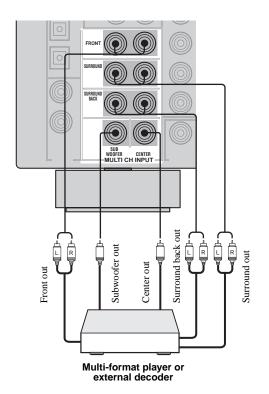
Notes

- When you select the component connected to the MULTI CH INPUT jacks as the input source (see page 44), this unit automatically turns off the digital sound field processor, and you cannot select sound field programs.
- This unit does not redirect signals input at the MULTI CH INPUT jacks to accommodate for missing speakers. We recommend that you connect at least a 5.1-channel speaker system before using this feature.
- When headphones are used, signals are output only from the front left and right channels.

For 6-channel input

For 8-channel input





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

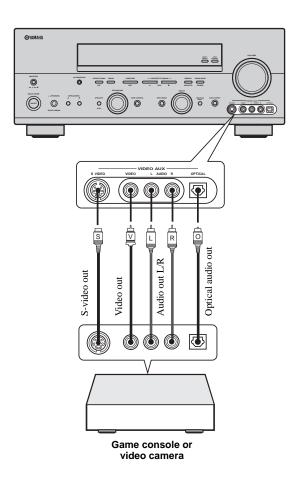
Use the VIDEO AUX jacks on the front panel to connect a game console or a video camera to this unit.

CAUTION

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

Note

The audio signals input at the DOCK terminal on the rear panel take priority over the ones input at the VIDEO AUX jacks.



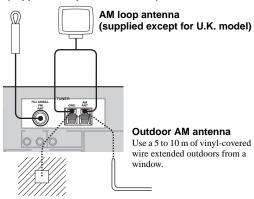
Connecting the FM and AM antennas

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

- Be sure to set the tuner frequency step (Asia and General models only) according to the frequency spacing in your area (see page 91).
- The AM loop antenna should be placed away from this unit.
- The AM loop antenna should always be connected, even if an outdoor AM antenna is connected to this unit.
- A properly installed outdoor antenna provides clearer reception than an indoor one. If you experience poor reception quality, install an outdoor antenna. Consult the nearest authorized YAMAHA dealer or service center about outdoor antennas.

Indoor FM antenna (supplied except for U.K. model)

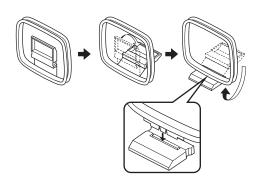


Ground (GND terminal)

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

Connecting the AM loop antenna

1 Set up the AM loop antenna.



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



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



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



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

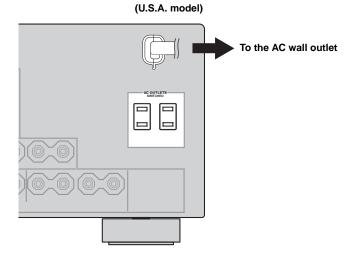


Once you have properly connected the AM loop antenna to this unit, orient the AM loop antenna for the best reception when you tune into AM stations (see page 52).



Connecting the power cable

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



VOLTAGE SELECTOR (Asia and General models only)

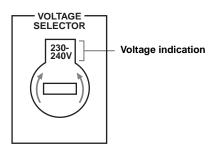
CAUTION

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.

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

Voltages are as follows:

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



■ AC OUTLET(S) (SWITCHED)

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

Use these outlet(s) to supply power to any connected components. Connect the power cable of your other components to these outlet(s). Power to these outlet(s) is supplied when the main zone or Zone 2 is turned on. However, power to these outlet(s) is cut off when the main zone and Zone 2 are turned off or when MASTER ON/ OFF on the front panel is pressed and released outward to the OFF position. For information on the maximum power or the total power consumption of the components that can be connected to these outlet(s), see "SPECIFICATIONS" on page 114.

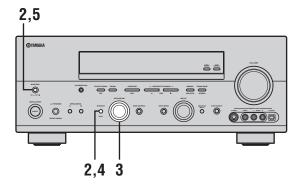
Memory back-up

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

Setting the speaker impedance

CAUTION

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



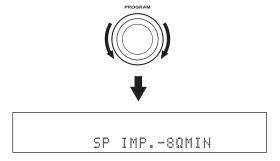
- 1 Make sure this unit is turned off.
 - See page 31 for details about turning on or off this unit.
- 2 Press and hold STRAIGHT (EFFECT) on the front panel and then press MASTER ON/OFF inward to the ON position to turn on this unit.

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



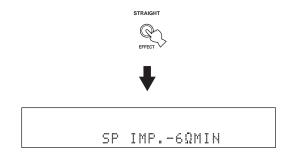
3 Rotate the PROGRAM selector on the front panel to select "SP IMP.".

The following display appears in the front panel display.



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

The following display appears in the front panel display.



Press MASTER ON/OFF on the front panel to release it outward to the OFF position to save the new setting and turn off this unit.



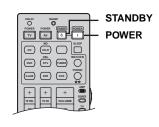
Note

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

When all connections are complete, turn on this unit.

MASTER ON/OFF





■ Turning on this unit

Press MASTER ON/OFF on the front panel inward to the ON position to turn on this unit.

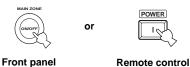


Front panel

 Press MAIN ZONE ON/OFF on the front panel (or STANDBY on the remote control) to set the main zone to the standby mode.



 Press MAIN ZONE ON/OFF on the front panel (or POWER on the remote control) to turn on the main zone.



Note

MAIN ZONE ON/OFF on the front panel as well as POWER and STANDBY on the remote control are operational only when MASTER ON/OFF is pressed inward to the ON position.

■ Turning off this unit

Press MASTER ON/OFF on the front panel again to release it outward to the OFF position to turn off this unit.



Englis

AUTO SETUP

This unit employs the YPAO (YAMAHA Parametric Room Acoustic Optimizer) technology which lets you avoid troublesome listening-based speaker setup and achieves highly accurate sound adjustments. The supplied optimizer microphone collects and analyzes the sound your speakers produce in your actual listening environment.

YPAO performs the following checks and makes appropriate adjustments to give you the best possible sound from your system.

Speaker wiring WIRING

Checks which speakers are connected and the polarity of each speaker.

Speaker distance DISTANCE

Checks the distance of each speaker from the listening position and adjusts the timing of each channel.

Speaker size SIZE

Checks the frequency response of each speaker and sets the appropriate low-frequency crossover for each channel.

Parametric equalizer EQ

Adjusts the frequency and the parametric equalizer level of each channel to reduce coloration across the channels and create a cohesive sound field. This is particularly important if you use different brands of sizes of speakers for some channels or have a room with unique sonic characteristics. In addition, the frequency response of each channel is adjusted in accordance with the sound output from your front speakers.

Volume level LEUEL

Checks and adjusts the volume level of each speaker.

Notes

- Be advised that it is normal for loud test tones to be output during the "AUTO SETUP" procedure.
- If the "AUTO SETUP" procedure stops and an error or warning message appears on your video monitor, see the "AUTO SETUP" section in "TROUBLESHOOTING" on page 109 for appropriate remedies.
- After you have completed the "AUTO SETUP" procedure, be sure to disconnect the optimizer microphone.
- The optimizer microphone is sensitive to heat. Keep it away from direct sunlight and do not place it on top of this unit.

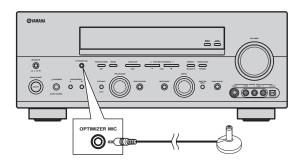
Connecting the optimizer microphone

Connect the supplied optimizer microphone to the OPTIMIZER MIC jack on the front panel and place it in a suitable location in your listening room.

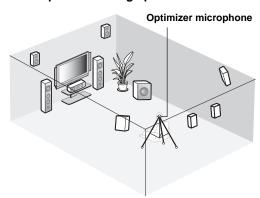
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It is recommended that you use a tripod (etc.) to affix the optimizer microphone at the same height as your ears would be when you are seated in your listening position.

 Connect the supplied optimizer microphone to the OPTIMIZER MIC jack on the front panel.



Place the optimizer microphone at your normal listening position on a flat level surface with the omni-directional microphone heading upward.



Using AUTO SETUP

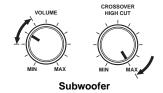
Once you have connected the supplied optimizer microphone to the OPTIMIZER MIC jack on the front panel and have placed it in a suitable location in your listening room, run "AUTO SETUP" in the OSD or in the front panel display.

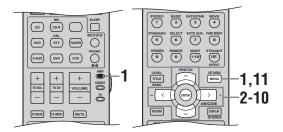
Note

To achieve the best results, make sure the room is as quiet as possible while the "AUTO SETUP" procedure is in progress. If there is too much ambient noise, the results may not be satisfactory.

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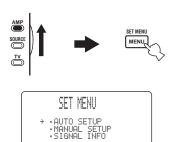
- You can run "AUTO SETUP" using the system menu that appears in the OSD or in the front panel display. This manual uses the OSD illustrations to explain the "AUTO SETUP" procedure.
- If an error occurs during the "AUTO SETUP" procedure and an
 error or warning message appears in the OSD or in the front
 panel display, see the "AUTO SETUP" section in
 "TROUBLESHOOTING" on pages 109 and 110 for a complete
 list of error and warning messages and proper remedies.
- The initial setting for each parameter is indicated in bold.
- If the volume level and the crossover frequency of your subwoofer can be adjusted, set the volume level to about half way (or slightly less) and set the crossover frequency to the maximum.





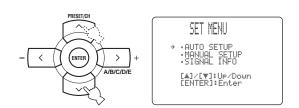
1 Set the component selector switch to AMP and then press SET MENU to enter "SET MENU".

The top "SET MENU" display appears in the OSD.



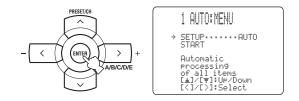
[A]/[T]:Up/Down [ENTER]:Enter

2 Press \wedge / \vee to select "AUTO SETUP".

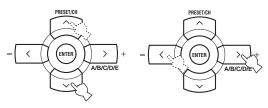


3 Press ENTER to enter "AUTO SETUP".

The "AUTO:MENU" display appears in the OSD.



4 Press ∧ / ∨ to select "SETUP" and then press < / > to select the desired setting.



Choices: AUTO, RELOAD, UNDO, DEFAULT

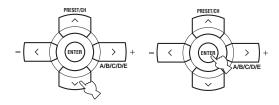
- Select "AUTO" to automatically run the entire "AUTO SETUP" procedure.
- Select "RELOAD" to reload the last "AUTO SETUP" settings and override the previous settings.
- Select "UNDO" to undo the last "AUTO SETUP" settings and restore the previous settings.
- Select "DEFAULT" to reset the "AUTO SETUP" parameters to the initial factory settings.

Note

"RELOAD" or "UNDO" is available only when you have previously run "AUTO SETUP" and confirmed the results.

5 Press ∨ to select "START" and then press ENTER to start the setup procedure.

Loud test tones are output from each speaker and "WAITING" appears in the OSD during the "AUTO:CHECK" procedure. Once all items are set, the "RESULT:EXIT" display appears in the OSD.



The display changes as follows.







[#]: Exit



The results displayed under "RESULT" are as follows:

Number of speakers SP

Displays the number of speakers connected to this unit in the following order:

Front/Back/Subwoofer

Speaker distance DIST

Displays the speaker distance from the listening position in the following order:

Closest speaker distance/Farthest speaker distance

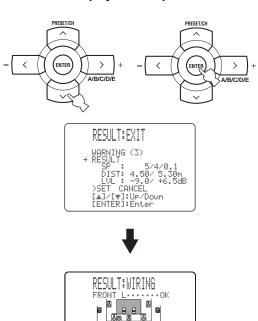
Speaker level LVL

Displays the speaker output level in the following order:

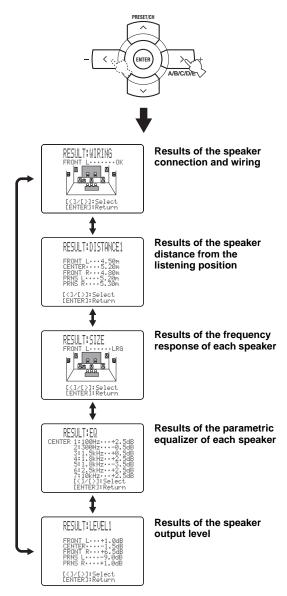
Lowest speaker output level/Highest speaker output level

Notes

- If "E-10:INTERNAL ERROR" appears during the testing procedure, restart from step 4.
- If you selected "RELOAD", "UNDO" or "DEFAULT" in step 4, no test tones are output.
- If an error occurs during the "AUTO:CHECK" procedure, the setup procedure is canceled and an error screen appears. For details, see "If an error screen appears" on page 37.
- The number on the right of "WARNING" indicates the number of warning messages. For details, see "If a warning screen appears" on page 37.
- Depending on the listening environment, "SWFR PHASE:REV" appears during the "AUTO:CHECK" procedure and "SUBWOOFER PHASE" in "SOUND MENU" (see page 81) is automatically set to "REVERSE".
- 6 Press voto select "RESULT" and then press ENTER to display the setup results in detail.



[<]/[>]:Select [ENTER]:Return 7 Press
/> repeatedly to toggle between the setup result displays.



AUTO SETUP

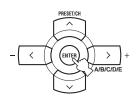


If you are not satisfied with the results or want to manually adjust each parameter, run "MANUAL SETUP" (see page 76).

Notes

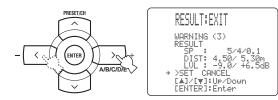
- If you change speakers, speaker positions, or the layout of your listening environment, run "AUTO SETUP" again to recalibrate your system.
- The distances displayed in the "DISTANCE" results may be longer than the actual distance depending on the characteristics of your subwoofer.
- In the "EQ" results, different values may be set for the same band to provide finer adjustments.

8 Press ENTER to return to the top "RESULT:EXIT" display.





9 Make sure the pointer is pointing at "SET" and "CANCEL" and then press
/> to select "SET" or "CANCEL".

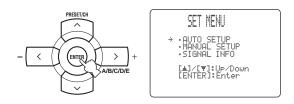


Choices: **SET**, CANCEL

- Select "SET" to confirm the "AUTO SETUP" results
- Select "CANCEL" to cancel the "AUTO SETUP" results.

10 Press ENTER to confirm your selection.

The top "SET MENU" display appears in the OSD.



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



If an error screen appears

Press $\land / \lor / \langle / \rangle$ to select "RETRY" or "EXIT" and then press ENTER.

The following display is an example where "E-9:USER CANCEL" appears in the OSD.



Choices: **RETRY**, EXIT

- Select "RETRY" to retry the "AUTO SETUP" procedure.
- Select "EXIT" to exit from the "AUTO SETUP" procedure.

■ If a warning screen appears

Warning messages inform you of potential problems detected during the "AUTO SETUP" procedure.

Note

Warnings differ from errors in that warnings do not cancel the "AUTO SETUP" procedure.

1 Make sure the pointer is pointing at "WARNING" and then press ENTER to display the detailed information about the warning.





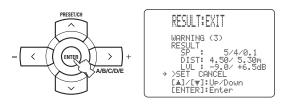
The number on the right of "WARNING" indicates the number of warning messages.

2 Press </>
/> repeatedly to toggle between the warning displays.



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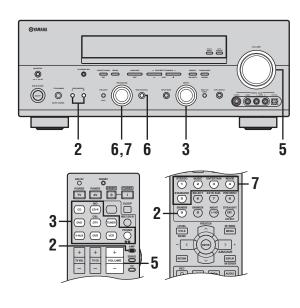
- For details about each warning message, see the "AUTO SETUP" section in "TROUBLESHOOTING" on page 109.
- When the corresponding warning message is not applicable to a speaker, "——" is displayed instead.
- 3 Press ENTER to return to the top "RESULT:EXIT" display.



PLAYBACK

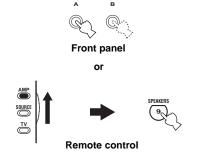
CAUTION

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

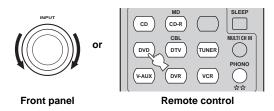


- 1 Turn on the video monitor connected to this unit.
- 2 Press SPEAKERS A or B on the front panel (or set the component selector switch to AMP and then press SPEAKERS on the remote control repeatedly).

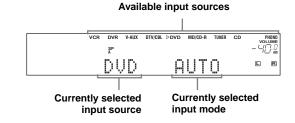
Each time you press SPEAKERS A or B, the respective speakers are turned on or off.



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



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



Note

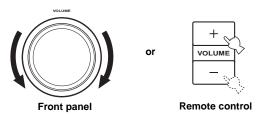
If you are to select an input source connected via digital connections, set "INPUT MODE" to "AUTO" or "DTS" (see page 41).

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

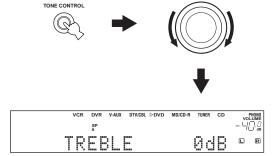
Refer to the operating instructions for the source component.

See page 52 for details about tuning instructions.

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



6 Press TONE CONTROL on the front panel repeatedly to select "TREBLE" or "BASS" and then rotate the PROGRAM selector to adjust the corresponding frequency response level.



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

Notes

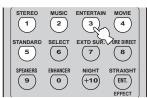
- Speaker and headphone adjustments are stored independently.
- When "TONE BYPASS" is set to "AUTO" (see page 84), and "BASS" and "TREBLE" are set to 0 dB, audio output automatically bypasses the tone control circuitry of this unit.
- If you increase or decrease the high-frequency or lowfrequency sound to an extreme level, the tonal quality of the surround speakers may not match that of the front left and right speakers.
- TONE CONTROL is not effective when the Pure Direct mode (see page 45) is selected or when the component connected to the MULTI CH INPUT jacks is selected as the input source (see page 44).
- To enjoy multi-channel sources in surround, see page 48 for details.

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

The name of the selected sound field program appears in the front panel display and in the OSD. See page 64 for details about sound field programs.



or



Remote control



Currently selected surround field program

Notes

- Choose a sound field program based on your listening preference, not merely on the name of the program.
- When you select an input source, this unit automatically selects the last sound field program used with the corresponding input source.
- Sound field programs cannot be selected when the component connected to the MULTI CH INPUT jacks is selected as the input source (see page 44).
- Sampling frequencies higher than 48 kHz (except for DTS 96/24 signals) are sampled down to 48 kHz and then sound field programs are applied.
- To display information about the currently selected input source in the OSD, see page 46 for details.

USING AUDIO FEATURES

Using SILENT CINEMA

SILENT CINEMA allows you to enjoy multi-channel music or movie sound, including Dolby Digital and DTS sources, through ordinary headphones. SILENT CINEMA activates automatically whenever you connect headphones to the PHONES jack while listening to CINEMA DSP or HiFi DSP sound field programs (see page 64). When activated, the SILENT CINEMA indicator lights up in the front panel display.

Notes

- SILENT CINEMA does not activate when the component connected to the MULTI CH INPUT jacks is selected as the input source (see page 44).
- SILENT CINEMA is not effective when the Pure Direct (see page 45) or "2ch Stereo" mode (see page 45) is selected, or when this unit is in the "STRAIGHT" mode (see page 45).

Muting the audio output

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



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- You can also rotate VOLUME on the front panel or VOLUME
 +/- on the remote control to resume the audio output.
- You can adjust the muting level by using the "MUTING TYPE" parameter in "SOUND MENU" (see page 84).
- The MUTE indicator flashes in the front panel display when the audio output is muted and disappears from the front panel display when the audio output is resumed.

Note

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

Selecting the night listening mode

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

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



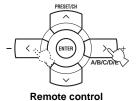
Choices: NIGHT:CINEMA, NIGHT:MUSIC, OFF

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

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

2 Press </>
/> on the remote control 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.

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

Notes

- You cannot use the night listening modes in the following cases:
 - when the Pure Direct mode (see page 45) is selected.
 - when the component connected to the MULTI CH INPUT jacks is selected as the input source (see page 44).
- 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 the input mode

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

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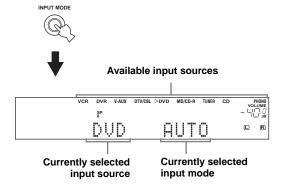
- We recommend setting "INPUT MODE" to "AUTO" in most cases
- You can adjust the default input mode of this unit by using the "INPUT MODE" parameter in "INPUT MENU" (see page 86).

Notes

- To play DTS-encoded CDs when using a digital audio connection, be sure to set "INPUT MODE" to "DTS".
- DTS decoding may not be performed correctly depending on the player even if you make a digital connection between this unit and the player.
- 1 Rotate the INPUT selector on the front panel to select the desired input source.



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



Automatically selects input signals in

the following order:

(1) Digital signals(2) Analog signals

DTS Selects only digital signals encoded in

DTS. If no DTS signals are input, no

sound is output.

ANALOG Selects only analog signals. If no

analog signals are input, no sound is

output.

Note

When "INPUT MODE" is set to "AUTO", this unit automatically switches to the appropriate decoder if a Dolby Digital or DTS signal is detected.

Using the sleep timer

Use this feature to automatically set this unit to the standby mode after a certain amount of time. The sleep timer is useful when you are going to sleep while this unit is playing or recording a source. The sleep timer also automatically turns off any external components connected to AC OUTLET(S) (see page 29).

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



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

Refer to the operating instructions for the source component.

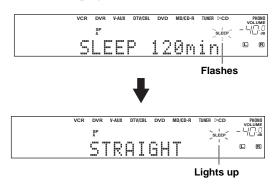
See page 52 for details about tuning instructions.

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

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



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



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



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

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The sleep timer setting can also be canceled by pressing STANDBY on the remote control (or MAIN ZONE ON/ OFF on the front panel) to set the main zone to the standby mode.

Adjusting the speaker level

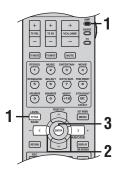
You can adjust the output level of each speaker while listening to a music source. This is also possible when playing sources input at the MULTI CH INPUT jacks.

Note

This operation will override the level adjustments made in "AUTO SETUP" (see page 32) and "SPEAKER LEVEL" (see page 82).

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This operation can also be performed using the control buttons on the front panel. Press NEXT on the front panel repeatedly to select the speaker channel whose output level you want to adjust and then press LEVEL \pm 0 on the front panel to adjust the output level.



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



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

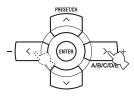
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- Once you press LEVEL on the remote control, you can also select the speaker by pressing ∧ / ∨.
- Instead of "SUR. B. R" and "SUR. B. L", "SUR. B" is displayed if "SUR. B L/R SP" is set to either "SMLx1" or "LRGx1" (see page 80).

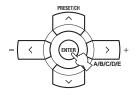
2 Press </> /> on the remote control to adjust the speaker output level.

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

Control range: -10 dB to +10 dB



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



Selecting the Compressed Music Enhancer mode

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

Notes

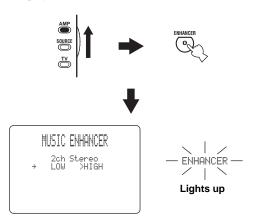
- The Compressed Music Enhancer mode is compatible with the PCM signals (32 kHz, 44.1 kHz and 48 kHz) and the analog 2channel input sources.
- The Compressed Music Enhancer mode is not effective with any of the sound field programs.
- When the Compressed Music Enhancer mode is turned on while an incompatible input source is being played back, "Not Available" appears in the front panel display and in the OSD.
- When the input source is changed to an incompatible input source while the Compressed Music Enhancer mode is turned on, the Compressed Music Enhancer mode is automatically turned off and the incompatible input source is played back in 2-channel or 7-channel stereo.



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

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

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



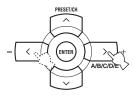
Choices: 2ch Stereo, 7ch Stereo, Off

- Select "2ch Stereo" to play back compression artifacts in 2-channel stereo.
- Select "7ch Stereo" to play back compression artifacts in 7.1-channel stereo.
- Select "Off" to turn off the Compressed Music Enhancer mode.

Note

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

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



Choices: HIGH, LOW

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

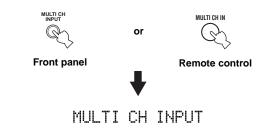
Note

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

Selecting the MULTI CH INPUT component

Use this feature to select the component connected to the MULTI CH INPUT jacks (see page 26) as the input source.

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



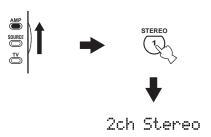
Note

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

Enjoying multi-channel sources in 2-channel stereo

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

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



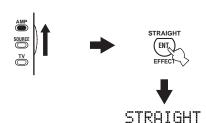
`\\\\

- You can use a subwoofer with this program when "LFE/BASS OUT" is set to "SWFR" or "BOTH" (see page 81).
- You can also select the "2ch Stereo" mode by rotating the PROGRAM selector on the front panel.

Enjoying unprocessed input sources

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

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



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

The sound effect is turned back on.

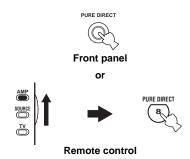
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You can also select the "STRAIGHT" mode by pressing STRAIGHT (EFFECT) on the front panel.

Enjoying pure hi-fi stereo sound

The Pure Direct mode turns off the video circuitry and the front panel display, allowing sources to bypass the decoders and DSP processors of this unit so that you can enjoy pure hi-fi sound from 2-channel PCM and analog sources.

Press PURE DIRECT on the front panel (or set the component selector switch to AMP and then press PURE DIRECT on the remote control) to turn on or off the Pure Direct mode.



Notes

- To avoid unexpected noise, do not play CDs encoded in DTS when this unit is in the Pure Direct mode.
- When multi-channel signals (Dolby Digital and DTS) are input, this unit automatically switches to the corresponding analog input. When "DTS" is selected as the input mode (see page 41), no sound will be output.
- No sound will be output from the subwoofer.
- The front panel display automatically dims.
- The following operations are not possible when this unit is in the Pure Direct mode:
 - switching the sound field program
- displaying the OSD
- adjusting the "SET MENU" parameters (except for speaker level settings)
- operating video functions (video conversion, etc.)
- The Pure Direct mode is automatically canceled whenever this unit is turned off.

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- The indicator around the PURE DIRECT button on the front panel lights up while this unit is in the Pure Direct mode.
- The front panel display turns on momentarily when an operation is performed.

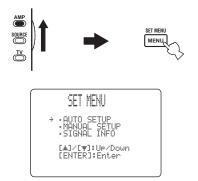
USING VIDEO FEATURES

Displaying the input source information

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

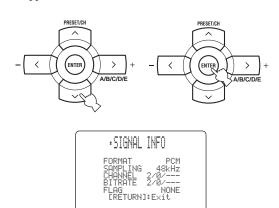
1 Set the component selector switch to AMP and then press SET MENU on the remote control.

The top "SET MENU" display appears in the OSD.



2 Press ✓ repeatedly to select "SIGNAL INFO" and then press ENTER.

The following information about the input source appears in the OSD.



Signal format FORMAT

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

Display status: Analog, Digital, DolbyD, DTS, PCM,

Note

"---" appears when this unit cannot detect any signals.

Sampling frequency SAMPLING

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

Note

"---" appears when this unit cannot detect the sampling frequency.

Channel CHANNEL

The number of source channels in the input signal (front/surround/LFE). For example, a multi-channel soundtrack with 3 front channels, 2 surround channels and LFE, is displayed as "3/2/0.1".

Note

"---" appears when there is no source channel available.

Bit rate BITRATE

The number of bits passing a given point per second.

Note

"---" appears when this unit cannot detect the bit rate.

Flag FLAG

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

3 Press SET MENU on the remote control again to exit from "SET MENU".

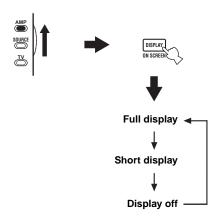


Selecting the OSD mode

You can display the operating information of this unit on a video monitor. If you display the "SET MENU" and sound field program parameter settings on a video monitor, it is much easier to see the available options and parameters than it is to read the information in the front panel display.

- 1 Turn on the video monitor connected to this unit.
- 2 Set the component selector switch to AMP and then press DISPLAY on the remote control repeatedly to toggle between the OSD modes.

The OSD mode changes in the following order.



Full display

Fully shows the sound field program parameter settings as well as the contents of the front panel display.

Short display

Briefly shows the contents of the front panel display at the bottom of the screen each time you operate this unit.

Display off

No information is displayed except for the "SET MENU" screen.



You can display a gray background in the OSD when there is not video signal being input by setting "GRAY BACK" in "OPTION MENU" to "AUTO" (see page 88).

Notes

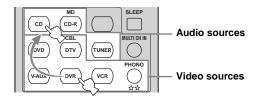
`\\\\

- The OSD signal is not output at the DVR/VCR OUT jacks and will not be recorded.
- You must set "VIDEO CONV." in "OPTION MENU" to "ON" (see page 87) to display the OSD.
- To display the OSD with the component video signals output at the COMPONENT VIDEO MONITOR OUT jacks, set the OSD mode to the full display mode.
- When "GRAY BACK" in "OPTION MENU" is set to "OFF" (see page 88), the OSD may not be displayed correctly depending on the conditions of the picture.

Playing video sources in the background

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

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



Note

If you want to enjoy an audio source input at the MULTI CH INPUT jacks together with a video source, first select the video source and then press MULTI CH INPUT on the front panel (or MULTI CH IN on the remote control) to select the component connected to the MULTI CH INPUT jacks as the input source (see page 44).

ENJOYING SURROUND SOUND

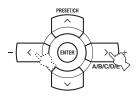
Enjoying multi-channel sources in surround

If you connected surround back speakers, use this feature to enjoy 6.1/7.1-channel playback for multi-channel sources using the Dolby Pro Logic IIx, Dolby Digital EX or DTS-ES decoders.

1 Set the component selector switch to AMP and then press EXTD SUR. on the remote control repeatedly to switch between 5.1 and 6.1/7.1-channel playback.



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



Auto AUTO

When a signal flag that can be recognized by this unit is input, this unit selects the optimum decoder to play back the signal in 6.1/7.1 channels.

If this unit cannot recognize the flag or no flag is present in the input signal, it cannot automatically be played in 6.1/7.1 channels.

Decoders

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

Decoder	Functions
PLIIxMovie	Plays back Dolby Digital or DTS signals in 7.1 channels using the Pro Logic IIx movie decoder.
PLIIxMusic	Plays back Dolby Digital or DTS signals in 6.1/7.1 channels using the Pro Logic IIx music decoder.
EX/ES	Plays back Dolby Digital or DTS signals in 6.1/7.1 channels using the Dolby Digital EX or DTS-ES decoder.
EX	Plays back Dolby Digital or DTS signals in 6.1/7.1 channels using the Dolby Digital EX decoder.

Off OFF

Decoders are not used to create 6.1/7.1 channels.

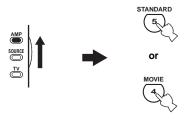
Notes

- "PLIIxMovie" is available only when "SUR. B L/R SP" (see page 80) is set to "SMLx2" or "LRGx2".
- Some 6.1/7.1-channel compatible discs do not have a signal flag
 that can be automatically detected by this unit. When playing
 these kinds of discs in 6.1/7.1 channels, select a decoder
 manually from "PLIIx Music", "EX/ES" or "EX".
- 6.1/7.1-channel playback is not possible even if you press EXTD SUR. in the following cases:
 - when "SUR. L/R SP" (see page 80) or "SUR. B L/R SP" (see page 80) is set to "NONE".
 - when the component connected to the MULTI CH INPUT jacks is being played.
 - when the source being played does not contain surround left and right channel signals.
 - when a Dolby Digital KARAOKE source is being played.
 - when the "2ch Stereo" (see page 45) or Pure Direct (see page 45) mode is selected.
- When this unit is turned off, this setting will be reset to "AUTO".
- The Pro Logic IIx decoder is not available when "SUR. B L/R SP" is set to "NONE" (see page 80).

Enjoying 2-channel sources in surround

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

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



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



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



You can also select a decoder by pressing < > > on the remote control while the decoder type is displayed in the front panel display.

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

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

Note

The Pro Logic IIx decoder is not available when "SUR. B L/R SP" is set to "NONE" (see page 80).

Using Virtual CINEMA DSP

Virtual CINEMA DSP allows you to enjoy the CINEMA DSP programs without surround speakers. It creates virtual speakers to reproduce the natural sound field. If you set "SUR. L/R SP" to "NONE" (see page 80), Virtual CINEMA DSP activates automatically whenever you select a CINEMA DSP sound field program (see page 64).

Note

Virtual CINEMA DSP will not activate even when "SUR. L/R SP" is set to "NONE" (see page 80) in the following cases:

- when the component connected to the MULTI CH INPUT jacks is selected as the input source (see page 44).
- when headphones are connected to the PHONES jack.
- when the Pure Direct (see page 45) or "2ch Stereo" mode (see page 45) is selected, or when this unit is in the "STRAIGHT" mode (see page 45).

RECORDING

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

CAUTION

The DTS signal is a digital bitstream. Attempting to digitally record the DTS bitstream will result in noise being recorded. Therefore, if you want to use this unit to record sources encoded in DTS, the following considerations and adjustments need to be made. To play DTS-encoded DVDs and CDs (when using a digital audio connection) on your DTS-compatible player, follow its operating instructions to make a setting so that the analog signal will be output from the player.

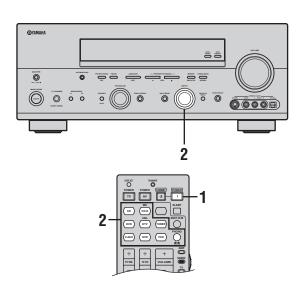
Notes

- · 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 39), VOLUME, the speaker level (see page 82) and the sound field programs (see page 64) do not affect recorded material.
- The source connected to the MULTI CH INPUT jacks of this unit cannot be recorded.
- S-video and composite video signals pass independently through the video circuits of this unit. Therefore, when recording or dubbing video signals input from a video source component that provides only an S-video or a composite video signal, you can record only an S-video or a composite video signal on your VCR.
- Digital signals input at the DIGITAL INPUT jacks are not output at the analog AUDIO OUT (REC) jacks for recording. Likewise, analog signals input at the AUDIO IN jacks are not output at the DIGITAL OUTPUT jack. Therefore, if your source component is connected to provide only digital or analog signals, you can only record digital or analog signals.
- A given input source is not output on the same OUT (REC) channel.
- Check the copyright laws in your country to record from CDs, radio, etc. Recording of copyrighted material may infringe copyright laws.
- The analog audio signals input at the DOCK terminal can be output at the analog AUDIO OUT (REC) jacks for recording.

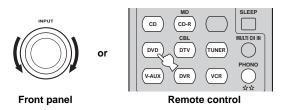
`\<u>\</u>'

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 Rotate the INPUT selector on the front panel (or press one of the input selector buttons on the remote control) to select the source component you want to record from.



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

FM/AM TUNING

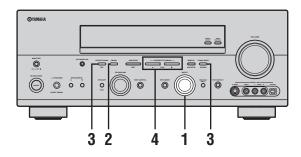
There are 2 tuning methods: automatic and manual. Automatic tuning is effective when station signals are strong and there is no interference. If the signal from the station you want to select is weak, tune into it manually. You can also use the automatic and manual preset tuning features to store up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

Note

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

Automatic tuning

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



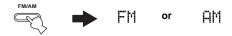
1 Rotate the INPUT selector to select "TUNER" as the input source.



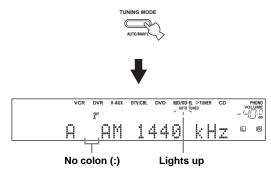
Front panel

2 Press FM/AM to select the reception band.

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



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



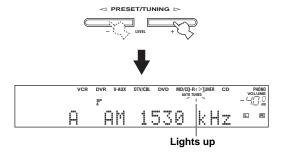
If a colon (:) appears in the front panel display, tuning is not possible. Press PRESET/TUNING (EDIT) to turn the colon (:) off.



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

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

- Press ➤ to tune into a higher frequency.

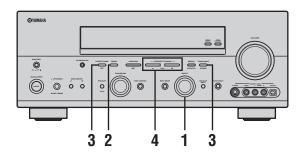


Manual tuning

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

Note

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



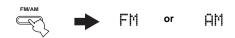
1 Rotate the INPUT selector to select "TUNER" as the input source.



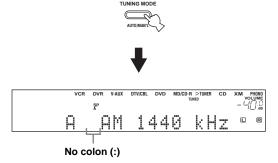
Front panel

2 Press FM/AM to select the reception band.

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



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



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

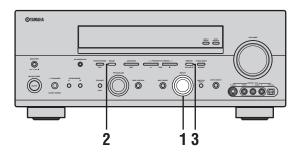


Hold down the button to continue searching.



Automatic preset tuning

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



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



Front panel

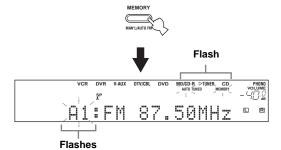
2 Press FM/AM to select "FM" as the reception hand

"FM" appears in the front panel display.



Press and hold MEMORY (MAN'L/AUTO FM) 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 specify the preset number from which this unit stores FM stations and/or begins tuning toward lower frequencies. For details, see "Automatic preset tuning options" on page 55.

Notes

- Any stored station data existing under a preset station number is cleared when you store a new station under the same preset station number.
- If the number of received stations does not reach 40 (E8), automatic preset tuning automatically stops after searching for all the available stations.
- Only FM stations with sufficient signal strength are stored automatically by automatic preset tuning. If the station you want to store is weak in signal strength, tune into it manually and store it as described in "Manual preset tuning" on page 55.

Automatic preset tuning options

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

Note

First carry out steps 1 through 3 in "Automatic preset tuning" on page 54.

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

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



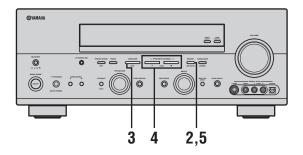
 Press PRESET/TUNING so that the colon (:) disappears from the front panel display and then press PRESET/TUNING

to begin tuning toward lower frequencies.



Manual preset tuning

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



Tune into a station automatically or manually. See pages 52 and 53 for tuning instructions.



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

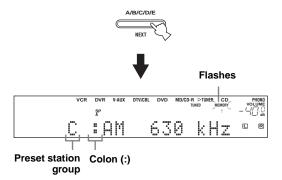
2 Press MEMORY (MAN'L/AUTO FM).

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



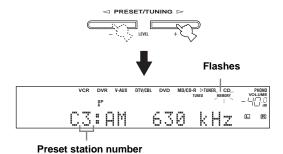
3 Press A/B/C/D/E repeatedly to select a preset station group (A to E) while the MEMORY indicator is flashing.

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



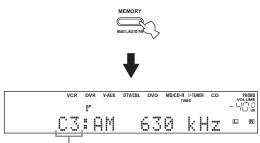
4 Press PRESET/TUNING √ > to select a preset station number (1 to 8) while the MEMORY indicator is flashing.

- Press ➤ to select a higher preset station number.



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

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



The displayed station has been stored as C3.

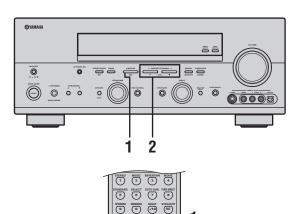
6 Repeat steps 1 through 5 to store other stations.

Notes

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

Selecting preset stations

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

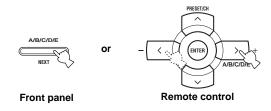




When performing this operation with the remote control, set the component selector switch to SOURCE and then press TUNER to select "TUNER" as the input source.

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

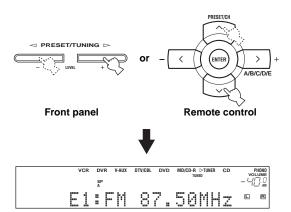
The preset station group letter appears in the front panel display and changes each time you press the button.



Englis

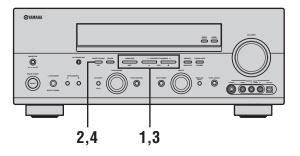
2 Press PRESET/TUNING / > on the front panel (or PRESET/CH / ∨ on the remote control) to select the desired preset station number (1 to 8).

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



Exchanging preset stations

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

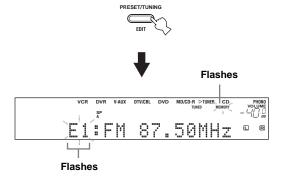


1 Select preset station "E1" using A/B/C/D/E and PRESET/TUNING <1/▶.

See "Selecting preset stations" on page 56.

2 Press and hold EDIT for more than 3 seconds.

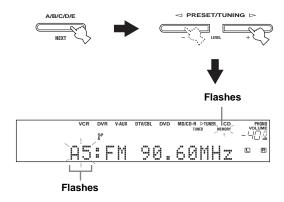
"E1" and the MEMORY indicator flash in the front panel display.



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

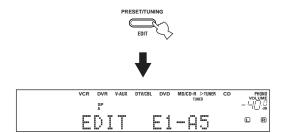
"A5" and the MEMORY indicator flash in the front panel display.

See "Selecting preset stations" on page 56.



4 Press EDIT again.

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

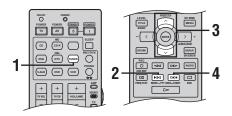


RADIO DATA SYSTEM TUNING (U.K. AND EUROPE MODELS ONLY)

Radio Data System (U.K. and Europe models only) is a data transmission system used by FM stations in many countries. The Radio Data System function is carried out among the network stations. This unit can receive various Radio Data System data such as PS (program service), PTY (program type), RT (radio text), CT (clock time), and EON (enhanced other networks) when receiving Radio Data System broadcasting stations.

Selecting the Radio Data System program

Use this feature to select one of the 15 Radio Data System program types and search for all the available preset stations of the selected program type.

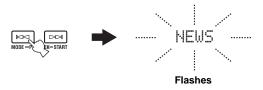


Press TUNER on the remote control to select "TUNER" as the input source.



Press PTY SEEK MODE on the remote control to set this unit to the PTY SEEK mode.

The name of the program type or "NEWS" flashes in the front panel display.

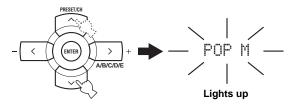


`\<u>\</u>

To cancel the PTY SEEK mode, press PTY SEEK MODE on the remote control again.

3 Press PRESET/CH ∧ / ∨ on the remote control to select the desired program type.

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



Program type	Descriptions
NEWS	News
AFFAIRS	Current affairs
INFO	General information
SPORT	Sports
EDUCATE	Education
DRAMA	Drama
CULTURE	Culture
SCIENCE	Science
VARIED	Light entertainment
POP M	Popular music
ROCK M	Rock music
M.O.R. M	Middle-of-the-road music (easy-listening)
LIGHT M	Light classics
CLASSICS	Serious classics
OTHER M	Other music

4 Press PTY SEEK START on the remote control to start searching for all the available Radio Data System preset stations.

The name of the selected program type flashes and the PTY HOLD indicator lights up in the front panel display while this unit is searching for stations.



To stop searching for stations, press PTY SEEK START on the remote control again.

Notes

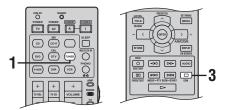
- This unit stops searching for stations when a station broadcasting the selected program type is found.
- If the station found is not the one you desire, press PTY SEEK START again to resume searching for another station broadcasting the same program type.

Using the Radio Data System station network

Use this feature to receive the EON (enhanced other networks) data service of the Radio Data System station network. Once you select one of the 4 Radio Data System program types (NEWS, AFFAIRS, INFO, or SPORT), this unit automatically searches for all the available preset stations that are scheduled to broadcast the EON data service of the selected program type for a certain duration of time. When the scheduled EON data service starts, this unit automatically switches to the local station broadcasting the EON data service and then switches back to the national station once the EON data service ends.

Notes

- You can use this feature only when the EON data service is available.
- The EON indicator lights up in the front panel display only when the EON data service is being received from a Radio Data System station.



1 Press TUNER on the remote control to select "TUNER" as the input source.

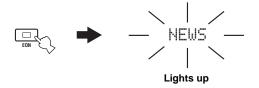


2 Make sure the EON indicator is lit in the front panel display.

If the EON indicator is not lit in the front panel display, select another Radio Data System program so that the EON indicator lights up.

3 Press EON on the remote control repeatedly to select one of the 4 Radio Data System program types (NEWS, AFFAIRS, INFO or SPORT).

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



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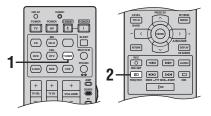
To cancel the EON feature, press EON on the remote control repeatedly until the name of the program type disappears and "EON OFF" appears in the front panel display.

Displaying the Radio Data System information

Use this feature to display the 4 types of the Radio Data System information: PS (program service), PTY (program type), RT (radio text) and CT (clock time). The corresponding indicators light up in the front panel display.

Notes

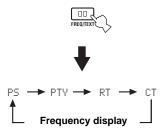
- You can select one of the Radio Data System modes only when the corresponding Radio Data System indicator lights up in the front panel display. It may take a while for this unit to receive all of the Radio Data System data from the station.
- You can select only the available Radio Data System modes being offered by the station.
- If the signals being received are not strong enough, this unit
 may not be able to utilize the Radio Data System data. In
 particular, the "RT" mode requires a large amount of data and
 may not be available even when the other Radio Data System
 modes are available.
- In case of poor reception conditions, press TUNING MODE (AUTO/MAN'L) on the front panel so that the AUTO indicator disappears from the front panel display.
- If the signal strength is weakened by external interference while this unit is receiving the Radio Data System data, the reception may be cut off unexpectedly and "...WAIT" appears in the front panel display.
- When the "RT" mode is selected, this unit can display the program information by a maximum of 64 alphanumeric characters, including the umlaut symbol. Unavailable characters are displayed with the "_" (underscore).
- If the reception is cut off when the "CT" mode is selected, "CT WAIT" appears in the front panel display.



1 Press TUNER on the remote control to select "TUNER" as the input source.



Press FREQ/TEXT on the remote control repeatedly to select the desired Radio Data System display mode.



- Select "PS" to display the name of the Radio Data System program currently being received.
- Select "PTY" to display the type of the Radio Data System program currently being received.
- Select "RT" to display the information on the Radio Data System program currently being received.
- Select "CT" to display the current time.

SOUND FIELD PROGRAMS

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

Elements of a sound field

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

Early reflections

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

Reverberations

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

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

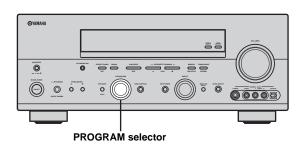
If you could create the appropriate early reflections and subsequent reverberations in your listening room, you would be able to create your own listening environment. The acoustics in your room could be changed to those of a concert hall, a dance floor, or a room with virtually any size at all. This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

Selecting sound field programs

Notes

- Choose a sound field program based on your listening preference, not merely on the name of the program.
- · When you select an input source, this unit automatically selects the last sound field program used with the corresponding input source.
- Sound field programs cannot be selected when the component connected to the MULTI CH INPUT jacks is selected as the input source (see page 44).
- Sampling frequencies higher than 48 kHz (except for DTS 96/24 signals) are sampled down to 48 kHz and then sound field programs are applied.

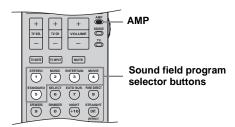
Front panel operations



Rotate the PROGRAM selector on the front panel.

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

Remote control operations



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

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

Sound field program descriptions

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

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The YAMAHA CINEMA DSP modes are compatible with all Dolby Digital, DTS, and Dolby Surround sources. Set "INPUT MODE" to "AUTO" (see page 41) to enable this unit to automatically switch to the appropriate digital decoder according to the input signal.

Notes

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

■ For movie/video sources

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

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Rotate the PROGRAM selector on the front panel (or set the component selector switch to AMP and then press one of the sound field program selector buttons on the remote control) to select the desired sound field program (see page 63).

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

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

■ For music sources

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

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Rotate the PROGRAM selector on the front panel (or set the component selector switch to AMP and then press one of the sound field program selector buttons on the remote control) to select the desired sound field program (see page 63).

Remote control button	Sound field program	Features	Sources
1	STEREO 2ch Stereo	Plays back 2-channel sources.	2-CH
'	STEREO 7ch Stereo	Plays back 2-channel sources from all speakers in 7.1 channels, providing a larger sound field ideal for background music at parties, etc.	2-011
	MUSIC Hall in Vienna	HiFi DSP processing. The program reproduces a classic shoe-box type concert hall with approximately 1700 seats. Pillars and ornate carvings create extremely complex reflections which produce a very full, rich sound.	
2	MUSIC The Bttm Line	HiFi DSP processing. This program reproduces the stage front in "The Bottom Line", a famous New York jazz club where 300 people can be seated.	
	MUSIC The Roxy Thtr	HiFi DSP processing. This program reproduces the dynamic rock music environment of "The Roxy Theatre", one of the hottest rock clubs in L.A.The listener's imaginary seat is at the center-left of the hall.	MULTI 2-CH
3	ENTERTAINMENT Disco	HiFi DSP processing. This program reproduces the acoustic environment of a lively disco in the heart of a big city to create a highly concentrated and energetic sound.	
5	SUR. STANDARD	Standard processing for the selected decoder.	•
	SUR. ENHANCED	Enhanced processing for the selected decoder.	

Changing sound field parameter settings

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

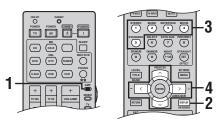
Notes

- Use the "PARAM. INI" feature in "OPTION MENU" to initialize the parameters of each sound field program within a sound field program group (see page 88).
- When you set a sound field parameter to a value other than the initial factory settings, an asterisk mark (*) appears by the sound field parameter name in the OSD.
- You cannot change the sound field parameter values when "MEMORY GUARD" in "OPTION MENU" is set to "ON" (see page 88). If you want to change the sound field parameter values, set "MEMORY GUARD" to "OFF".

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- For details about the function and control range of each sound field parameter, see page 67.
- Repeat steps 3 and 4 as necessary to change other sound field program parameter settings.
- The available sound field parameters for some of the sound field programs may be displayed on more than one page in the OSD.
 In this case, press ∧ / ∨ to scroll through pages.
- If you press and hold </>

 to change the sound field parameter value, the initial factory settings are shown momentarily in the front panel display.

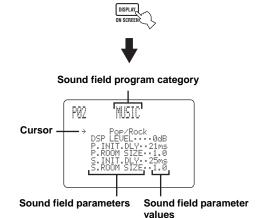


1 Set the component selector switch to AMP.



Turn on the video monitor and then press DISPLAY on the remote control.

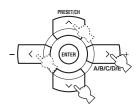
The following display is shown in the OSD.



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



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



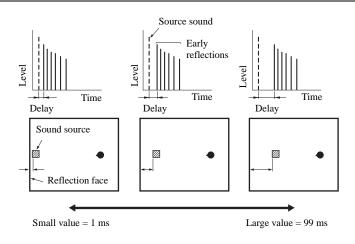
Sound field parameter descriptions

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

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To change sound field parameter settings to suit your listening environment, see page 66 for details.

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



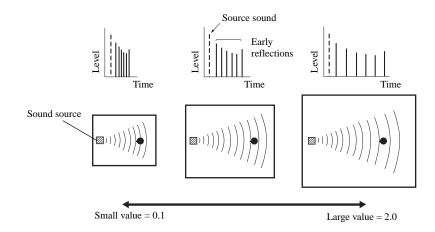
Sound field parameter

ROOM SIZE P.ROOM SIZE S.ROOM SIZE SB ROOM SIZE

Features

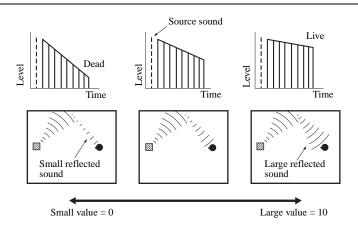
Room size. Presence, surround, and surround back room size. Adjusts the apparent size of the surround sound field. The larger the value, the larger the surround sound field becomes. As the sound is repeatedly reflected around a room, the larger the hall is, the longer the time between the original reflected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

Control range: 0.1 to 2.0



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

Control range: 0 to 10



Sound field parameter

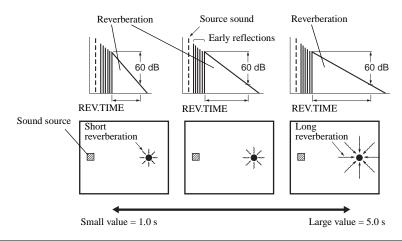
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REV. TIME

Features

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

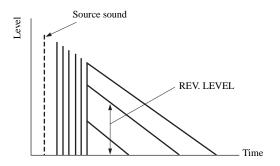
Control range: 1.0 to 5.0 s



REV. DELAY

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

Control range: 0 to 250 ms



Sound field parameter	Features
REV. LEVEL	Reverberation level. Adjusts the volume of the reverberation sound. The larger the value, the stronger the reverberation becomes.
	Control range: 0 to 100%
	Source sound (dB) Reverberation REV.DELAY REV.TIME
DIALG.LIFT	Dialog lift. Adjust the height of the front and center channel sounds by assigning some of the front and center channel elements to the presence speakers. The larger the parameter, the higher the position of the front and center channel sound.
	Choices: 0 , 1, 2, 3, 4, 5
2ch Stereo DIRECT	2-channel stereo direct. Bypasses the decoders and DSP processors of this unit for pure hi-fi stereo sound when playing 2-channel analog sources.
	Choices: AUTO, OFF
	• The "AUTO" setting bypasses the decoders and DSP processors only when "BASS" and "TREBLE" are set to 0 dB (see page 39). • When multi-channel signals (Dolby Digital and DTS) are input, they are downmixed to 2 channels and output from the front left and right speakers. • The low-frequency signals input from the front left and right speakers are redirected to the subwoofer in the following cases: - "LFE/BASS OUT" is set to "BOTH" (see page 81). - "FRONT SP" is set to "SMALL" (see page 79) and "LFE/BASS OUT" is set to "SWFR" (see page 81).
7ch Stereo CT LEVEL SL LEVEL SR LEVEL SB LEVEL PL LEVEL PR LEVEL	7-channel stereo center, surround left, surround right, surround back, presence left and presence right levels. Adjusts the volume level of each channel in the 7-channel stereo mode.
	Control range: 0 to 100%

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

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The "PRO LOGIC IIx Music", "PRO LOGIC II Music", and "DTS Neo:6 Music" parameters can be set only when "SUR. STANDARD" is selected. Set the component selector switch to AMP and then press STANDARD on the remote control repeatedly to select "SUR. STANDARD" (see page 49).

Sound field program speaker layouts

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

Note

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

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Except for "2ch Stereo", "7ch Stereo", and "STRAIGHT", you can select a decoder to output sound from the surround back speakers (see page 48).

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

L	Front left speaker	SL	Surround left speaker	SBR	Surround back right speaker
С	Center speaker	SR	Surround right speaker	PL	Presence left speaker
R	Front right speaker	SBL	Surround back left speaker	PR	Presence right speaker
	Speaker from which sound is being o	output	Speaker from v	which	no sound is being output

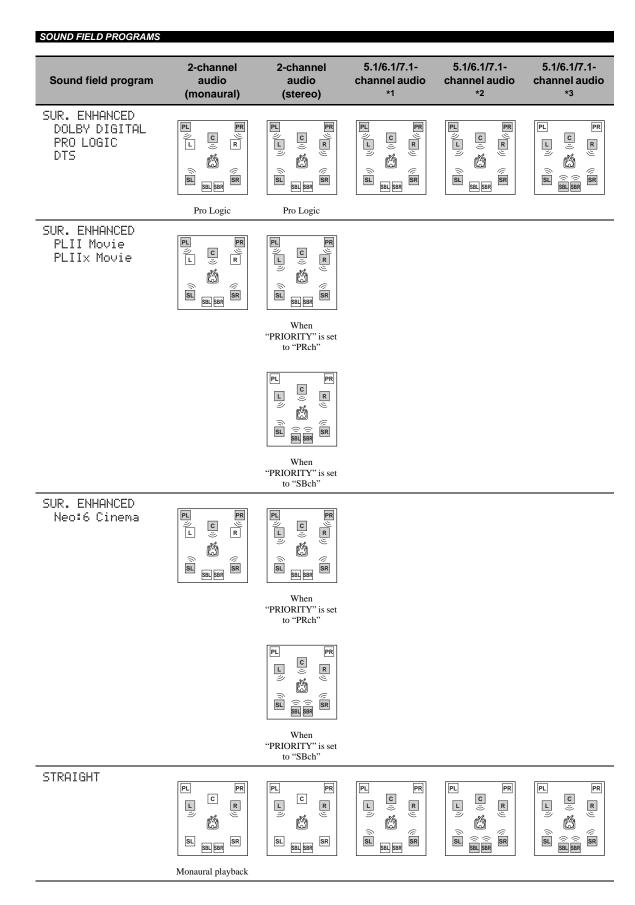
^{*1} When the DC EX / DC PL IIx / ES indicators are turned off in the front panel display

^{*3} When the DC EX / DC PL IIx / ES indicators are lit up and "PRIORITY" is set to "SBch" (see page 81)

Sound field program	2-channel audio (monaural)	2-channel audio (stereo)	5.1/6.1/7.1- channel audio *1	5.1/6.1/7.1- channel audio *2	5.1/6.1/7.1- channel audio *3
STEREO 2ch Stereo	PL C R	PL PR L C R	PL C R	PL C R	PL PR C R
STEREO 7ch Stereo		PR R 2) (6 SR (6 SR		PL C PR C	PR R () ((SR SS) ((SS) SS) ((SS) SS)
MUSIC Hall in Vienna The Bttm Line The Roxy Thtr ENTERTAINMENT Disco	PL C R) (SER		PL C S SR SSR		PR R () (6 BR (6 BB) (6

^{*2} When the DC EX / DC PL IIx / ES indicators are lit up and "PRIORITY" is set to "PRch" (see page 81)

				SOUND	FIELD PROGRAMS
Sound field program	2-channel audio (monaural)	2-channel audio (stereo)	5.1/6.1/7.1- channel audio *1	5.1/6.1/7.1- channel audio *2	5.1/6.1/7.1- channel audio *3
MUSIC Pop/Rock ENTERTAINMENT TV Sports Mono Movie Game	PL ((SR SBLSBR				P. R. J. (1: SR
MOVIE THEATER Spectacle Sci-Fi Adventure General	PL C W R R SR SR SR			PL C W (SR SBL SBR	PL C) ((SR
SUR. STANDARD DOLBY DIGITAL PRO LOGIC DTS	PL C R SL SBL SBR SR Pro Logic	PL C R	PL C R J J (SR SR SR SR SR	PR PR N (S. S. S	FL C)) ((SS
SUR. STANDARD PLII Movie PLII Music PLII Game PLIIX Movie PLIIX Music PLIIX Game	PL PR R R SEL SER SR	PL PR R SER SER SER Pro Logic II			
	PL PR R SR SR SR SUBJECT SERVICE	PL PR R SI SIR SIR SIR			
SUR. STANDARD Neo:6 Cinema Neo:6 Music	PL PR L © R SL SBL SBR SR	PL PR R SR SR SR SR SR SR			
	PL C R				



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Sound field program	2-channel	2-channel	5.1/6.1/7.1-	5.1/6.1/7.1-	5.1/6.1/7.1-
	audio	audio	channel audio	channel audio	channel audio
	(monaural)	(stereo)	*1	*2	*3
Pure Direct	PL C R SL SBL SBR SR Monaural playback	PL C R			

SET MENU

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

■ Auto setup AUTO SETUP

Use this feature to automatically adjust speaker and system parameters (see page 32).

■ Manual setup MANUAL SETUP

Use this feature to manually adjust speaker and system parameters.

Sound menu 1 SOUND MENU

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

Parameter	Features	Page
A)SPEAKER SET	Selects the size of each speaker, the speakers for low-frequency signal output, and the crossover frequency.	79
B)SPEAKER LEVEL	Adjusts the output level of each speaker.	82
C)SP DISTANCE	Adjusts the delay time of each speaker.	82
D)EQUALIZER	Adjusts the tonal quality of the center speaker.	83
E)LFE LEVEL	Adjusts the output level of the LFE channel for Dolby Digital or DTS signals.	84
F)DYNAMIC RANGE	Adjusts the dynamic range of Dolby Digital or DTS signals.	84
G)AUDIO SET	Adjusts the muting level, audio delay and tone bypass settings.	84

Input menu 2 INPUT MENU

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

Parameter	Features	Page
A)I/O ASSIGNMENT	Assigns the input/output jacks of this unit according to the component to be used.	85
B)INPUT MODE	Selects the initial input mode of the source.	86
C)INPUT RENAME	Changes the name of the input source.	86
D)VOLUME TRIM	Adjusts the output volume of each jack.	87

Option menu 3 OPTION MENU

Use this menu to manually adjust the optional system parameters.

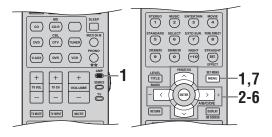
Parameter	Features	Page
A)DISPLAY SET	Adjusts the brightness of the display and converts video signals.	87
B)MEMORY GUARD	Locks sound field program parameters and other "SET MENU" settings.	88
C)PARAM. INI	Initializes the parameters of a group of sound field programs.	88
D)MULTI ZONE SET	Specifies the location of the speakers connected to the SPEAKERS B terminals or selects how the ZONE 2 speakers will be amplified.	89

■ Signal information SIGNAL INFO

Use this feature to check audio signal information (see page 46).

Using SET MENU

Use the remote control to access and adjust each parameter.



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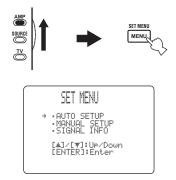
- You can change the "SET MENU" parameters while this unit is reproducing sound.
- If you press one of the sound field program selector buttons during the "SET MENU" operation, the "SET MENU" operation is canceled.
- Repeat the following procedure to select and adjust each parameter setting.
- Press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

Note

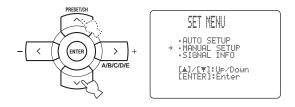
You cannot change some "SET MENU" parameters when "NIGHT:CINEMA" or "NIGHT:MUSIC" is selected as the night listening mode (see page 40).

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

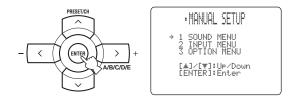
The top "SET MENU" display appears in the OSD.



2 Press \wedge / \vee to select "MANUAL SETUP".

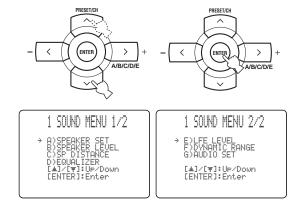


3 Press ENTER to enter "MANUAL SETUP". The "MANUAL SETUP" display appears in the OSD.



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

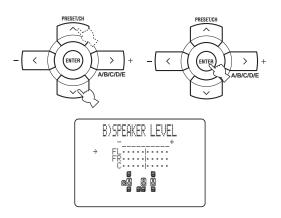
The following displays are examples where "SOUND MENU" is selected.



English

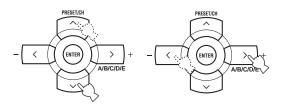
5 Press ∧ / ∨ repeatedly and then press ENTER to select and enter the desired submenu.

The following display is an example where "SPEAKER LEVEL" is selected.



Press \(\lambda \) \(\subseteq \) to select the desired parameter and then \(\lambda \rangle \) to change the parameter settings.

- Press > to increase the value.



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



Memory back-up

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

1 SOUND MENU

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





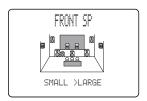
■ Speaker settings ADSPEAKER SET

Use this feature to manually adjust any speaker settings.

`\o':

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

Front speakers FRONT SP Choices: SMALL, LARGE



- Select "SMALL" (small) if you have small front speakers that do not reproduce low-frequency signals effectively. The low-frequency signals of the front left and right channels are directed to the speakers selected in "LFE/BASS OUT" (see page 81).
- Select "LARGE" (large) if you have large front speakers that reproduce low-frequency signals effectively. All the front left and right channel signals are directed to the front left and right speakers.

Note

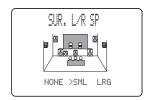
If "LFE/BASS OUT" is set to "FRNT" (see page 81), the LFE signals found in Dolby Digital or DTS sources, the low-frequency signals of the front left and right channels, and the low-frequency signals of other speakers set to "SML" (or "SMALL") or to "NONE" are all directed to the front left and right speakers regardless of the "FRONT SP" setting.

Center speaker CENTER SP Choices: NONE, SML, LRG

CENTER SP

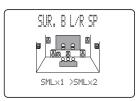
- Select "NONE" (none) if you did not connect a center speaker. The low-frequency signals of the center channel are directed to the speakers selected in "LFE/ BASS OUT", and the rest of the center channel signals are directed to the front left and right speakers.
- Select "SML" (small) if you have a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

Surround left/right speakers SUR. L/R SP Choices: NONE, **SML**, LRG



- Select "NONE" (none) if you did not connect surround speakers. This unit is set to the Virtual CINEMA DSP mode (see page 50) and "SUR. B L/R SP" is automatically set to "NONE". The low-frequency signals of the surround left and right channels are directed to the speakers selected in "LFE/BASS OUT".
- Select "SML" (small) if you have small surround left and right speakers that do not reproduce low-frequency signals effectively. The low-frequency signals of the surround left and right channels are directed to the speakers selected in "LFE/BASS OUT".
- Select "LRG" (large) if you have large surround left and right speakers that reproduce low-frequency signals effectively. All the surround channel signals are directed to the surround left and right speakers.

Surround back speakers SUR. B L/R SP Choices: NONE, SMLx1, **SMLx2**, LRGx1, LRGx2

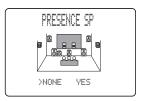


- Select "NONE" (none) if you did not connect surround back speakers. The low-frequency signals of the surround back channel are directed to the speakers selected in "LFE/BASS OUT", and the rest of the surround back channel signals are directed to the surround left and right speakers.
- Select "SMLx1" (small x 1) if you have a small surround back speaker that does not reproduce lowfrequency signals effectively. The low-frequency signals of the surround back left and right channels are directed to the speakers selected in "LFE/BASS OUT" and the rest of the signals are directed to the surround back left speaker.
- Select "SMLx2" (small x 2) if you have two small surround back speakers that do not reproduce lowfrequency signals effectively. The low-frequency signals of the surround back left and right channels are directed to the speakers selected in "LFE/BASS OUT".
- Select "LRGx1" (large x 1) if you have a large surround back speaker that reproduces low-frequency signals effectively. All the surround back left and right channel signals are directed to the surround back left speaker.
- Select "LRGx2" (large x 2) if you have two large surround back speakers that reproduce low-frequency signals effectively. All the surround back left and right channel signals are directed to the surround back left and right speakers.

Presence speakers PRESENCE SP

Use this feature if you want to use the presence speakers connected to this unit.

Choices: NONE, YES



- Select "NONE" (none) if you did not connect presence speakers.
- Select "YES" (yes) if you connected presence speakers and want to use them.

English

Bass out LFE/BASS OUT

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



 Select "SWFR" (subwoofer) if you connected a subwoofer. The LFE signals as well as the lowfrequency signals of other speakers set to "SML" (or "SMALL") or to "NONE" are directed to the subwoofer.

SWFR FRNT>BOTH

- Select "FRNT" (front) if you did not connect a subwoofer. The LFE signals, the low-frequency signals of the front left and right channels, and the lowfrequency signals of other speakers set to "SML" (or "SMALL") or to "NONE" are all directed to the front left and right speakers regardless of the "FRONT SP" setting (see page 79).
- Select "BOTH" (both) if you connected a subwoofer.
 The low-frequency signals of any source are output
 from the subwoofer. The LFE signals as well as the
 low-frequency signals of other speakers set to "SML"
 (or "SMALL") or to "NONE" are directed to the
 subwoofer. The low-frequency signals of the front left
 and right channels are directed to the front left and
 right speakers and the subwoofer regardless of the
 "FRONT SP" setting (see page 79).

Crossover CROSS OVER

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 79 and 80). 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 79 and 80).

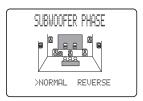
Choices: 40Hz, 60Hz, **80Hz**, 90Hz, 100Hz, 110Hz, 120Hz, 160Hz, 200Hz



Subwoofer phase SUBWOOFER PHASE

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

Choices: NORMAL, REVERSE

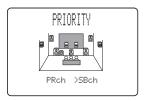


- Select "NORMAL" if you do not want to reverse the phase of your subwoofer.
- Select "REVERSE" to reverse the phase of your subwoofer.

Presence/Surround back channel priority PRIORITY

Use this feature to prioritize either the presence or the surround back speakers when playing sources that contain surround back channel signals using the CINEMA DSP sound field programs.

Choices: PRch, SBch



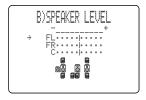
- Select "PRch" to use the presence speakers even when surround back channel signals are input. The signals for the surround back channel will be output from the surround speakers.
- Select "SBch" to use the surround back speakers when a surround back channel signals is detected in a CINEMA DSP program. The presence channel signals are output from the front speakers.

■ Speaker level B)SPEAKER LEVEL

Use this feature to manually balance the speaker levels between the front left or surround left speakers and each speaker selected in "SPEAKER SET" (see page 79).

Control range: -10.0 to +10.0 dB

Control step: 0.5 dB Initial setting: 0 dB



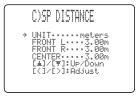
- Select "FL" to adjust the balance of the front left speaker.
- Select "FR" to adjust the balance of the front right speaker.
- Select "C" to adjust the balance of the center speaker.
- Select "SL" to adjust the balance of the surround left speaker.
- Select "SR" to adjust the balance of the surround right speaker.
- Select "SBL" to adjust the balance of the surround back left speaker.
- Select "SBR" to adjust the balance of the surround back right speaker.
- Select "SWFR" to adjust the balance of the subwoofer.
- Select "PL" to adjust the balance of the presence left speaker.
- Select "PR" to adjust the balance of the presence right speaker.

Notes

- "C", "SL", "SR", "SBL", "SBR", "SWFR", "PL" and "PR" cannot be adjusted if "CENTER SP" (see page 80), "SUR. L/R SP" (see page 80), "SUR. B L/R SP" (see page 80), "LFE/BASS OUT" (see page 81) and "PRESENCE SP" (see page 80) are set to "NONE" respectively.
- Instead of "SBL" and "SBR", "SB" is displayed if "SUR. B L/R SP" is set to either "SMLx1" or "LRGx1" (see page 80).

■ Speaker distance COSP DISTANCE

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



Unit UNIT

Choices: meters (m), feet (ft)

Initial setting:

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

[Other models]: meters (m)

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

Speaker distances

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

Control step: 0.10 m (0.5 ft)

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

Initial setting: 3.00 m (10.0 ft)

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

Initial setting: 3.00 m (10.0 ft)

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

Initial setting: 3.00 m (10.0 ft)

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

Initial setting: 3.00 m (10.0 ft)

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

Initial setting: 3.00 m (10.0 ft)

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

Initial setting: 2.10 m (7.0 ft)

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

Initial setting: 2.10 m (7.0 ft)

- Select "SWFR" to adjust the distance of the subwoofer.
 Initial setting: 3.00 m (10.0 ft)
- Select "PRNS L" to adjust the distance of the presence left speaker.

Initial setting: 3.00 m (10.0 ft)

 Select "PRNS R" to adjust the distance of the presence right speaker.

Initial setting: 3.00 m (10.0 ft)

English

Notes

- "CENTER", "SUR. L", "SUR. R", "SB L", "SB R", "SWFR",
 "PRNS L" and "PRNS R" cannot be adjusted if "CENTER SP"
 (see page 80), "SUR. L/R SP" (see page 80), "SUR. B L/R SP"
 (see page 80), "LFE/BASS OUT" (see page 81) and
 "PRESENCE SP" (see page 80) are set to "NONE"
 respectively.
- Instead of "SB L" and "SB R", "SUR. B" is displayed if "SUR. B L/R SP" is set to either "SMLx1" or "LRGx1" (see page 80).

■ Center graphic equalizer DDEQUALIZER

Use this feature to select the parametric equalizer or the graphic equalizer.

Equalizer select EQ TYPE SELECT

Use this feature to select the type of equalizer. Choices: AUTO PEQ, **CENTER GEQ**, EQ OFF



- Select "AUTO PEQ" to use the parametric equalizer adjusted in "AUTO SETUP" (see page 32).
- Select "CENTER GEQ" to adjust the built-in 5frequency band graphic equalizer for the center speaker so that the tonal quality of the center speaker matches that of the front left and right speakers.
- Select "EQ OFF" to deactivate the equalizing feature.

Notes

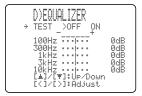
- "AUTO PEQ" is automatically selected when you run "AUTO SETUP" (see page 32).
- If you press \(/ \scale
 \) while "CENTER GEQ" is selected, the OSD changes to the following screen.

Center graphic equalizer CENTER GEQ

When you select "CENTER GEQ" in "EQ TYPE SELECT", 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 left and right 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: 0.0 dB



`\<u>\</u>'

Press \land / \lor to select a frequency band and \lt / \gt to adjust the selected frequency band.

Test tone TEST

Use this feature to make adjustments of "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 front left and center speakers, and adjust the tonal quality of the center speaker.

■ Low-frequency effect level E)LFE 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

E)LFE LEVEL

→ SPEAKER......9dB
HEADPHONE....2dB

[▲]/[♥]:UP/Down
[〈]/[〉]:Adjust

Speaker SPEAKER

Adjusts the speaker LFE level.

Headphone HEADPHONE

Adjusts the headphone LFE level.

Note

Depending on the settings of "LFE/BASS OUT" (see page 81), some signals may not be output at the SUBWOOFER OUTPUT jack.

■ Dynamic range FODYNAMIC 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.

F)DYNAMIC RANGE

SP: MIN STD>MAX
HP: MIN STD>MAX

[*]/[*]:UP/Down
[<]/[/]:Select

Speaker SP

Adjusts the speaker compression.

Headphone HP

Adjusts the headphone compression.

Choices: MIN, STD, MAX

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

■ Audio settings GDAUDIO SET

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

G)AUDIO SET

→ MUTING TYPE-FULL
AUDIO DELAY-0ms
TONE BYPASS-AUTO

[4]/[♥]:Up/Down
[<]//>
[<]//>
[<]//>
[<]//>
[<]//

Muting type MUTING TYPE

Use this feature to adjust how much the mute function reduces the output volume (see page 40).

Choices: FULL, -20dB

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

Audio delay AUDIO DELAY

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

Control range: **0** to 160 ms

Control step: 1 ms

Tone bypass TONE BYPASS

Use this feature to select whether audio output bypasses tone control circuitry when "TREBLE" and "BASS" are set to 0 dB (see page 39).

Choices: AUTO, OFF

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

2 INPUT MENU

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



■ Input/output assignment

A)I/O ASSIGNMENT

Use this feature to assign the input/output 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/output jacks are reassigned, you can select the corresponding component by using the INPUT selector on the front panel (or the input selector buttons on the remote control).

For COMPONENT VIDEO jacks A, B and C

CMPNT-V INPUT [A] CMPNT-V INPUT [B] CMPNT-V INPUT [C]

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



For OPTICAL OUTPUT jack 1 OPTICAL OUT (1) Choices: PHONO, CD, MD/CD-R, DVD, DTV/CBL, V-AUX, VCR, DVR



For OPTICAL INPUT jacks 2, 3 and 4

OPTICAL IN (2)
OPTICAL IN (3)
OPTICAL IN (4)

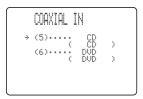
Choices: (2) PHONO, CD, **MD/CD-R**, DVD, DTV/CBL, VCR, DVR
(3) PHONO, CD, MD/CD-R, **DVD**, DTV/CBL, VCR, DVR
(4) PHONO, CD, MD/CD-R, DVD, **DTV/CBL**, VCR, DVR



For COAXIAL INPUT jacks 5 and 6

COAXIAL IN (5)

Choices: (5) PHONO, **CD**, MD/CD-R, DVD, DTV/CBL, V-AUX, VCR, DVR (6) PHONO, CD, MD/CD-R, **DVD**, DTV/CBL, V-AUX, VCR, DVR



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

■ Input mode B) INPUT MODE

Use this feature to set this unit to reset "INPUT MODE" back to "AUTO" (see page 41) regardless of the previous setting or to recall the last input mode ("AUTO", "DTS" or "ANALOG") used for that source whenever you turn on this unit.

Choices: AUTO, LAST



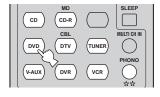
- Select "AUTO" to reset "INPUT MODE" back to "AUTO" (see page 41) regardless of the previous setting whenever you turn on this unit. This unit automatically selects input signals in the following order:
 - (1) Digital signals
 - (2) Analog signals
- Select "LAST" to set this unit to automatically recall the last input mode ("AUTO", "DTS" or "ANALOG") used for that source whenever you turn on this unit.

■ Input rename COINPUT RENAME

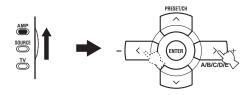
Use this feature to change the name of the input source that appears in the OSD and in the front panel display.



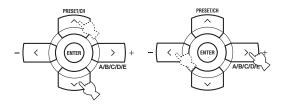
1 Press one of the input selector buttons on the remote control to select the input source you want to change the name of.



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



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



Notes

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

 to change the character in the following order, or press

 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 SET MENU on the remote control to exit from "INPUT RENAME".



Englis

■ Volume Trim DOVOLUME TRIM

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

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

Control range: -6.0 to +6.0 dB

Control step: 0.5 dB Initial setting: 0.0 dB

D)VOLUME TRIM

DVD -> 0.0dB

[<]/[>):Adjust

[RETURN]:Exit

3 OPTION MENU

Use this menu to adjust the optional system parameters.



■ Display settings ADDISPLAY SET



Dimmer DIMMER

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

Control range: –4 to **0**

Control step: 1

- Press > to make the front panel display brighter.

Video conversion UIDEO CONU.

Use this feature to set whether to convert the video signals input at the VIDEO and S VIDEO jacks.

Choices: **ON**, OFF

- Select "ON" to convert composite and S-video signals interchangeably and up-convert composite and S-video signals to component video signals.
- Select "OFF" not to convert any signals.

- The converted video signals are only output at the MONITOR OUT jacks. When recording a video source, you must make the same type of video connections between each component.
- When composite video or S-video signals from a VCR are converted to component video signals, the picture quality may suffer depending on your VCR.
- You must set "VIDEO CONV." to "ON" to display the OSD.
- Unconventional signals input at the composite video or S-video jacks cannot be converted or may be output abnormally. In such cases, set "VIDEO CONV." to "OFF".

SET MENU

OSD shift OSD SHIFT

Use this feature to adjust the vertical position of the OSD. Control range: –5 (upward) to +5 (downward)

Control step: 1 Initial setting: 0

- Press < to raise the position of the OSD.
- Press > to lower the position of the OSD.

Gray back GRAY BACK

Use this feature to display a gray background in the OSD when there is no video signal being input.

Choices: AUTO, OFF

- Select "AUTO" to display a gray background in the OSD when there is no video signal being input.
- Select "OFF" not to display any background in the OSD.

Notes

- Depending on the video signals being input or the system setting of your video monitor (NTSC or PAL), the OSD may be displayed abnormally. In such cases, set "GRAY BACK" to "OFF".
- Even when "GRAY BACK" is set to "OFF", the OSD may not be displayed correctly depending on the conditions of the picture.

■ Memory guard B)MEMORY GUARD

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



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

Note

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

■ Parameter initialization COPARAM. INI

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

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

An asterisk (*) appears to the left of the sound field program names that have been changed from their initial factory settings.

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



- You cannot automatically revert to the previous parameter settings once you initialize a sound field program group.
- You cannot separately initialize individual sound field programs.
- You cannot initialize any sound field program groups when "MEMORY GUARD" is set to "ON" (see page 88).

■ Zone set D)MULTI ZONE SET

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

Speaker B setting SP B

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

Choices: FRONT, ZONE B



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

Notes

- If you connect headphones to the PHONES jack of this unit, the sound is output from both headphones and the SPEAKERS B terminals when "SP B" is set to "ZONE B".
- If a DSP program is selected when "SP B" is set to "ZONE B", this unit automatically enters the Virtual CINEMA DSP mode (see page 50).

Zone 2 amplifier ZONE2 AMP

Use this feature to select either the external or the internal amplifier to amplify the Zone 2 speakers.

Choices: INT, EXT



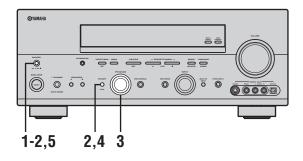
- Select "INT" (internal amplifier) to use the internal amplifier of this unit if you connected your Zone 2 speakers directly to the PRESENCE/ZONE2 speaker terminals of this unit.
- Select "EXT" (external amplifier) if you do not use the Zone 2 speakers or if you connected your Zone 2 speakers to the external amplifier in Zone 2 connected to the ZONE 2 OUTPUT jacks of this unit.

ADVANCED SETUP

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

Notes

- The settings you make are reflected next time you press MASTER ON/OFF inward to the ON position to turn on this unit (see page 31).
- Only MASTER ON/OFF, STRAIGHT (EFFECT) and the PROGRAM selector are effective while you are using the advanced setup menu
- All the other operations cannot be made while you are using the advanced setup menu.
- The advanced setup menu is only available in the front panel display.



1 Press MASTER ON/OFF on the front panel to release it outward to the OFF position to turn off this unit.



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

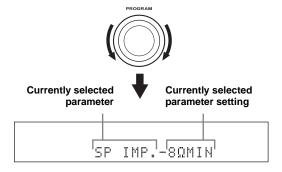
This unit turns on, and the advanced setup menu appears in the front panel display.



Rotate the PROGRAM selector on the front panel to select the parameter you want to adjust.

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

See page 91 for a complete list of available parameters.



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



5 Press MASTER ON/OFF on the front panel to release it outward to the OFF position to save the new setting and turn off this unit.



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

English

■ Speaker impedance SP IMP.

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

Choices: **8** Ω **MIN**, 6 Ω MIN

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

SP IMP.	Speaker	Impedance level
	Front	If you use one set (A or B), the impedance of each speaker must be 8 Ω or higher.
8ΩΜΙΝ	Hom	If you use two sets (A and B), the impedance of each speaker must be 16Ω or higher.*
	Center	The immediance of soul
	Surround	 The impedance of each speaker must be 8 Ω or higher.
	Surround back	g
	Front	If you use one set (A or B), the impedance of each speaker must be 4 Ω or higher.
6ΩΜΙΝ	Hom	If you use two sets (A and B), the impedance of each speaker must be $8~\Omega$ or higher.
	Center	
	Surround	 The impedance of each speaker must be 6 Ω or higher.
•	Surround back	8

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

■ Factory presets PRESET

Use this feature to reset all the parameters of this unit to the initial factory settings (see page 103).

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.

■ Remote control AMP ID REMOTE AMP

Use this feature to set the AMP ID of this unit for remote control recognition (see page 95).

Choices: ID1, ID2

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

Note

You need to set the corresponding remote control AMP library code for the remote control (see page 95).

■ Remote control TUNER ID REMOTE TUN

Use this feature to set the TUNER ID of this unit for remote control recognition (see page 95).

Choices: ID1, ID2

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

Note

You need to set the corresponding remote control TUNER library code for the remote control (see page 95).

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

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

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

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

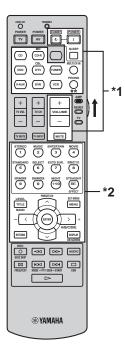
REMOTE CONTROL FEATURES

In addition to controlling this unit, the remote control can also operate other audiovisual components made by YAMAHA and other manufacturers. To control your TV or other components, you must set up the appropriate remote control code for each input source (see page 94).

Controlling this unit, a TV, or other components

■ Controlling this unit

Set the component selector switch to AMP to control this unit

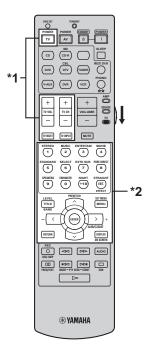


Notes

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

■ Controlling a TV

Set the component selector switch to TV to control your TV. To control your TV, you must set the appropriate remote control code for DTV/CBL or PHONO (see page 94). When you set the remote control codes for both DTV/CBL and PHONO, priority is given to the one set for DTV/CBL.



Notes

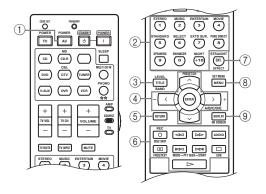
*1 These buttons always control your TV regardless of the component selector switch position.

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

^{*2} These buttons control your TV only when the component selector switch is set to TV. For details, see the "Digital TV/ Cable TV" column on page 93.

Controlling other components

Set the component selector switch to SOURCE to control other components selected with the input selector buttons or the blank button on the right of MD/CD-R. You must set the appropriate remote control code for each input source (see page 94). The following table shows the function of each control button used to control other components assigned to each input selector button or the blank button on the right of MD/CD-R. Be advised that some buttons may not correctly operate the selected component.



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

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

^{*2} These buttons control your VCR or DVD recorder only when you set the appropriate remote control code for DVR (see page 94).

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

^{*4} Press and hold to search backward or forward.

Setting the remote control code

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

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

Remote Control Code Default Settings

Input source	Library (component category)	Manufacturer	Default code
CD	CD	YAMAHA	61907
MD/CD-R	MD	YAMAHA	70888
DVD	DVD	YAMAHA	40539
DTV/CBL	_	-	_
TUNER	TUNER	YAMAHA	81916
V-AUX	-	-	_
DVR	DVR	YAMAHA	51544
VCR	-	-	_
PHONO	_	-	_
Blank button	TAPE	YAMAHA	70524

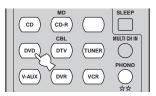
Note

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

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The blank button is the one on the right of MD/CD-R.

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



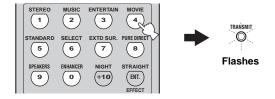
Press CODE SET using a ballpoint pen or a similar object.

The TRANSMIT indicator on the remote control flashes twice.



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

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



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

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

Setting library codes

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

Setting remote control AMP ID library codes

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

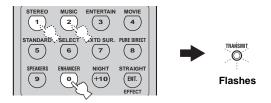
1 Press CODE SET using a ballpoint pen or a similar object.

The TRANSMIT indicator on the remote control flashes twice.



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

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



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

^{*1} The remote control setting

Notes

- You need to set the corresponding remote control AMP ID of this unit in the advanced setup (see page 91).
- When using multiple YAMAHA receivers/amplifiers, you
 may be able to operate the other components
 simultaneously with the default code setting. In this case,
 set one of the alternative codes to operate this unit
 separately.

Setting remote control TUNER ID library codes

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

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



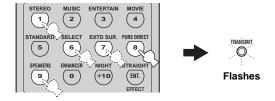
Press CODE SET using a ballpoint pen or a similar object.

The TRANSMIT indicator on the remote control flashes twice.



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

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



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

^{*1} The remote control setting

- You need to set the corresponding remote control TUNER
 ID of this unit in the advanced setup (see page 91).
- When using multiple YAMAHA receivers/amplifiers, you
 may be able to operate the other components
 simultaneously with the default code setting. In this case,
 set one of the alternative codes to operate this unit
 separately.

^{*2} The setting of this unit (see page 91)

^{*2} The setting of this unit (see page 91)

Resetting all remote control codes

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

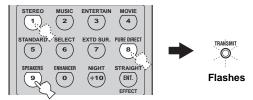
1 Press CODE SET using a ballpoint pen or a similar object.

The TRANSMIT indicator on the remote control flashes twice.



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

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





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

USING MULTI-ZONE CONFIGURATION

This unit allows you to configure a multi-zone audio system. The Zone 2 feature allows you to set this unit to reproduce separate input sources in the main zone and the second zone (Zone 2). You can control this unit from the second zone using the supplied remote control.

Only analog signals are sent to the second zone. Any source you want to listen to in the second zone must be connected to the analog AUDIO IN jacks of this unit.

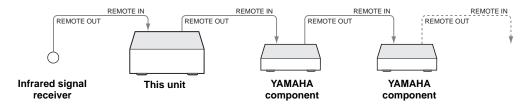
Connecting Zone 2

You need the following additional equipment to use the multi-zone functions of this unit:

- · An infrared signal receiver in the second zone.
- An infrared signal emitter in the main zone. This emitter transmits the infrared signals from the remote control via the infrared signal receiver in the second zone to a CD player or a DVD player, etc. in the main zone.
- · An amplifier and speakers in the second zone.

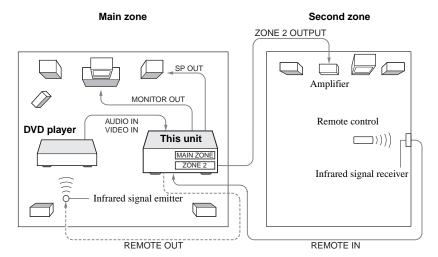
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- Since there are many possible ways to connect and use this unit in a multi-zone configuration, we recommend that you consult with your nearest authorized YAMAHA dealer or service center about the Zone 2 connections that best meet your requirements.
- Some YAMAHA models are able to connect directly to the REMOTE jacks of this unit. If you own these products, you may not need
 to use an infrared signal emitter. Up to 6 YAMAHA components can be connected as shown below.



Using the external amplifier

To use the external amplifiers in Zone 2, select "EXT" in "ZONE2 AMP" (see page 89).

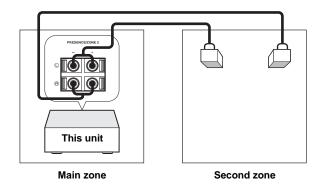


Notes

- When you do not use the main zone, press MAIN ZONE ON/OFF on the front panel to turn off the main zone. Adjust the volume control on the amplifier in the second zone.
- To avoid unexpected noise, DO NOT USE the Zone 2 feature with CDs encoded in DTS.

Using the internal amplifier of this unit

To use the internal amplifiers of this unit, select "INT" in "ZONE2 AMP" (see page 89).



IMPORTANT SAFETY NOTICE

The PRESENCE/ZONE2 speaker terminals of this Receiver should not be connected to a Passive Loudspeaker Selector Box or more than one loudspeaker per channel.

Connection to a Passive Loudspeaker Selector Box or multiple speakers per channel could create an abnormally low impedance load resulting in amplifier damage. See this owner's manual for correct usage.

Compliance with minimum speaker impedance information for all channels must be maintained at all times. This information is found on the back panel of your Receiver.

Controlling Zone 2

You can select and control Zone 2 by using the control buttons on the front panel or on the remote control. The available operations are listed as follows:

- Selecting the input source of Zone 2
- Tuning into FM or AM when "TUNER" is selected as the input source of Zone 2 (see page 52)
- Enjoying music stored on your iPod stationed in a YAMAHA iPod universal dock (such as YDS-10 sold separately) connected to the DOCK terminal of this unit when "V-AUX" is selected as the input source (see page 101)
- Adjusting the volume level of the Zone 2 speakers connected directly to the PRESENCE/ZONE2 speaker terminals of this unit when "ZONE2 AMP" in "OPTION MENU" is set to "INT" (see page 89)

Note

You must complete each step while the ZONE2 indicator is flashing in the front panel display. Otherwise, the Zone 2 mode is automatically canceled and this unit returns to the normal operation mode. In this case, repeat the Zone 2 selection procedure.

■ Controlling Zone 2 with the front panel

1 Press ZONE 2 ON/OFF to turn on Zone 2.



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ZONE 2 ON/OFF is operational only when MASTER ON/OFF on the front panel is pressed inward to the ON position. Once MASTER ON/OFF on the front panel is pressed inward to the ON position, you can also press POWER or STANDBY on the remote control to turn on the main zone and Zone 2 or set them to the standby mode.

2 Press ZONE CONTROL to control Zone 2.

The ZONE2 indicator flashes in the front panel display for approximately 5 seconds.



3 Rotate the INPUT selector to select the desired input source while the ZONE2 indicator is flashing in the front panel display.



- Select "TUNER" as the input source to use the TUNER features in Zone 2. For details about the TUNER operations, see "FM/AM TUNING" on page 52.
- Select "V-AUX" as the input source to use iPod features in Zone 2. For details about the iPod operations, see "USING iPod®" on page 101.

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To adjust the volume level of Zone 2, set "ZONE2 AMP" in "OPTION MENU" to "INT" (see page 89) and then rotate VOLUME.

4 Press ZONE 2 ON/OFF to set Zone 2 to the standby mode.



Setting the remote control to the Zone 2 mode

Note

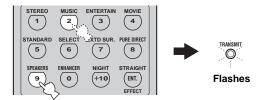
The remote control is originally set to the main mode to control the main zone. To control Zone 2 with the remote control, you must first set the remote control to the Zone 2 mode.

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

The TRANSMIT indicator on the remote control flashes twice.



Press the numeric buttons to enter the code number "9992".

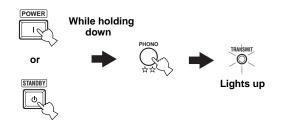


■ Controlling Zone 2 with the remote control

Notes

- The remote control is originally set to the main mode to control the main zone, and the TRANSMIT indicator on the remote control is turned off when the remote control is set to the main mode.
- When the remote control is set to the Zone 2 mode, POWER, STANDBY, VOLUME +/-, MUTE, and the input selector buttons are set to control Zone 2. However, the rest of the remote control buttons remain in the main mode.
- The remote control automatically exits from the Zone 2 mode in the following cases:
- when you do not make any operations within 10 seconds after the remote control is set to the Zone 2 mode.
- when you press a remote control button other than POWER, STANDBY, VOLUME +/-, MUTE, and the input selector buttons.

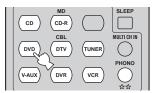
- 1 Press and hold POWER or STANDBY and then press PHONO to set the remote control to the Zone 2 mode.
 - Press POWER when the main zone is turned on.
 - Press STANDBY when the main zone is turned off. The TRANSMIT indicator on the remote control lights up while the remote control is set to the Zone 2 mode.



2 Press POWER to turn on Zone 2.



Press one of the input selector buttons to select the desired input source of Zone 2.



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To adjust the volume level of Zone 2, set "ZONE2 AMP" in "OPTION MENU" to "INT" (see page 89) and then rotate VOLUME.

4 Press STANDBY to set Zone 2 to the standby mode.



USING iPod®

Once you have stationed your iPod in a YAMAHA iPod universal dock (such as YDS-10 sold separately) connected to the DOCK terminal of this unit (see page 24), you can enjoy playback of your iPod using the supplied remote control. You can also use the Compressed Music Enhancer mode of this unit to improve the sound quality of the compression artifacts (such as the MP3 format) stored on your iPod (see page 43).

Notes

- · Only iPod (Click and Wheel), iPod nano, and iPod mini are supported.
- · Compatibility with your iPod may vary depending on the software version of your iPod.
- The controls on your iPod are not operational when you operate your iPod using the OSD of this unit.
- There are some characters that cannot be displayed in the front panel or in the OSD of this unit.
- The name of the song being played appears in the front panel display up to 14 alphanumeric characters.

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- For a complete list of the remote control functions used to control your iPod, see the "iPod" column in "Controlling other components" on page 93.
- For a complete list of status messages that appear in the front panel display and in the OSD, see the "iPod" section in "TROUBLESHOOTING" on page 108.

Setting the remote control code

You need to first assign the remote control code to V-AUX on the remote control to control your iPod when "V-AUX" is selected as the input source.

1 Press V-AUX on the remote control to select "V-AUX" as the input source.



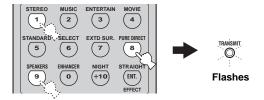
2 Press CODE SET on the remote control using a ball point pen or a similar object.

The TRANSMIT indicator on the remote control flashes twice.



3 Press the numeric buttons to enter the code number "81981".

The TRANSMIT indicator on the remote control flashes twice, and the remote control code for V-AUX is set.



Controlling iPod

Once the remote control code is assigned to V-AUX on the remote control, you can control your iPod when "V-AUX" is selected as the input source. The operations of your iPod can be done with or without the aid of the OSD of this unit.

■ Controlling iPod without using the OSD

Once "V-AUX" is selected as the input source, you can perform the basic operations of your iPod (see page 93) using the supplied remote control without the aid of the OSD of this unit.

Note

Operations can be also done with the controls on your iPod.

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For a complete list of the remote control buttons used to control your iPod, see the "iPod" column in "Controlling other components" on page 93.

Controlling iPod using the OSD

Once "V-AUX" is selected as the input source, you can perform the advanced operations of your iPod using the supplied remote control with the aid of the OSD of this unit. You can also browse the songs stored on your iPod in the OSD. Further, you can change or adjust settings for your iPod to suit your personal preferences.

Notes

- Operations cannot be done with the controls on your iPod.
- The YAMAHA logo appears in the display window of your iPod.
- The "Setup" parameters can be changed or adjusted only in the OSD.
- Press ENTER on the remote control to toggle between the "Setup" parameter settings.
- You cannot browse the photos or video clips stored on your iPod in the OSD. Instead, you must use the controls on your iPod to select the desired photos or video clips. For details, see "Controlling iPod without using the OSD" on page 101.

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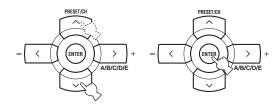
- Press MENU on the remote control to move back to the previous menu level.
- For a complete list of the remote control buttons used to control your iPod, see the "iPod" column in "Controlling other components" on page 93.
- A character that cannot be recognized by this unit will be replaced with an underscore "_".

1 Press DISPLAY on the remote control.

The following display appears in the OSD.



Press ∧ / ∨ on the remote control to select the desired menu and then press ENTER to enter the selected menu.



Choices: Playlists (playlists), Artists (artists),
Albums (albums), Songs (songs),
Genres (genres), Composers (composers),
Setup (setup)

- Playlists > Songs
- Artists > Albums > Songs
- Albums > Songs
- Songs
- Genres > Artists > Albums > Songs
- Composers > Albums > Songs
- Setup > Shuffle, Repeat, Onscreen, FL Scroll

Shuffle Shuffle

Use this feature to set this unit to play songs or albums in a random order.

Choices: Off, Songs, Albums

- Select "Off" to deactivate this feature.
- Select "Songs" to set this unit to play songs in a random order.
- Select "Albums" to set this unit to play albums in a random order.

Note

When "Shuffle" is set to a setting other than "Off", the highlighted letter "S" appears in the top right corner while songs or albums are being shuffled.

Repeat Repeat

Use this feature to set this unit to repeat one song or a sequence of songs.

Choices: Off, One, All

- Select "Off" to deactivate this feature.
- Select "One" to set this unit to repeat one song.
- Select "All" to set this unit to repeat a sequence of songs.

Note

When "Repeat" is set to a setting other than "Off", the highlighted letter "R" appears in the top right corner while one song or a sequence of songs are being repeated.

On-screen display time Onscreen

Use this feature to set the amount of time for which the OSD is displayed after you perform a certain operation on your iPod.

Choices: Always, 5s, 10s

- Select "Always" to display the OSD unceasingly while you are operating your iPod.
- Select "5s" to turn off the OSD 5 seconds after you perform a certain operation on your iPod.
- Select "10s" to turn off the OSD 10 seconds after you perform a certain operation on your iPod.

Front panel display scroll FL Scroll

Use this feature to set whether to display the iPod operation status in the front panel display in a continuous manner or by 14 alphanumeric characters at once.

Choices: Cont, Once

- Select "Cont" to display the iPod operation status in the front panel display in a continuous manner.
- Select "Once" to display the iPod operation status in the front panel display by 14 alphanumeric characters at once.

RESETTING THE SYSTEM

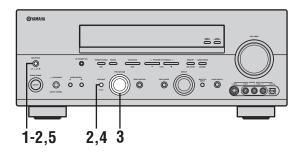
Use this feature to reset all the parameters of this unit to the initial factory settings.

Notes

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

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To cancel the initialization procedure at any time without making any changes, press MASTER ON/OFF on the front panel to release it outward to the OFF position.



1 Press MASTER ON/OFF on the front panel to release it outward to the OFF position to turn off this unit.

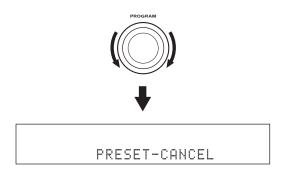


Press and hold STRAIGHT (EFFECT) on the front panel and then press MASTER ON/OFF inward to the ON position to turn on this unit.

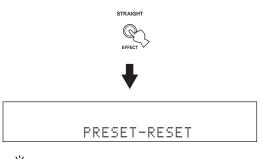
This unit turns on, and the advanced setup menu appears in the front panel display.



3 Rotate the PROGRAM selector on the front panel to select "PRESET".



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



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

5 Press MASTER ON/OFF on the front panel to release it outward to the OFF position to confirm your selection and turn off this unit.



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.	30
	The protection circuitry has been activated.	Make sure that all speaker wire connections on this unit and on all speakers are secure and that the wire for each connection does not touch anything other than its respective connection.	13
	This unit has been exposed to a strong external electric shock (such as lightning or strong static electricity).	Set this unit to the standby mode, disconnect the power cable, plug it back in after 30 seconds and then use it normally.	_
No sound	Incorrect input or output cable connections.	Connect the cables properly. If the problem persists, the cables may be defective.	19-27
	"INPUT MODE" is set to "DTS" or "ANALOG".	Set "INPUT MODE" to "AUTO".	41
	No appropriate input source has been selected.	Select an appropriate input source with the INPUT selector on the front panel (or the input selector buttons on the remote control) and MULTI CH INPUT on the front panel (or MULTI CH IN on the remote control).	38, 44
	Speaker connections are not secure.	Secure the connections.	13
	The front speakers to be used have not been selected properly.	Select the front speakers with SPEAKERS A and/or B on the front panel or SPEAKERS on the remote control.	38
	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.	40
	"INPUT MODE" is set to "ANALOG" while playing a source encoded in DTS.	Set "INPUT MODE" to "AUTO" or "DTS".	41
	Signals this unit cannot reproduce are being input from a source component, such as a CD-ROM.	Play a source whose signals can be reproduced by this unit.	_
No picture	The output and input for the picture are connected to different types of video jacks.	Set "VIDEO CONV." to "ON".	87

Problem	Cause	Remedy	See page
The sound suddenly	The protection circuitry has been activated	Check that the speaker impedance setting is correct.	30, 91
goes off.	because of a short circuit, etc.	Check that the speaker wires are not touching each other and then turn this unit back on.	_
	The sleep timer has turned off this unit.	Turn on this unit, and play the source again.	_
	The sound is muted.	Press MUTE or VOLUME +/- on the remote control to resume audio output.	40
Sound is heard from the speaker on one	Incorrect cable connections.	Connect the cables properly. If the problem persists, the cables may be defective.	
side only.	Incorrect settings in "SPEAKER LEVEL".	Adjust the "SPEAKER LEVEL" settings.	82
Only the center speaker outputs substantial sound.	When playing a monaural source with a CINEMA DSP program, the source signal is directed to the center channel, and the front and surround speakers output effect sounds.		
No sound is heard from the center	"CENTER SP" in "SET MENU" is set to "NONE".	Set "CENTER SP" to "SML" or "LRG".	80
speaker.	One of the HiFi DSP programs (except for "7ch Stereo") has been selected.	Try another sound field program.	63
No sound is heard from the surround	"SUR. L/R SP" in "SET MENU" is set to "NONE".	Set "SUR. L/R SP" to "SML" or "LRG".	80
speakers.	This unit is in the "STRAIGHT" mode and a monaural source is being played back.	Press STRAIGHT (EFFECT) on the front panel so that "STRAIGHT" disappears from the front panel display.	45
No sound is heard from the surround back speakers.	"SUR. L/R SP" in "SET MENU" is set to "NONE" and "SUR. B L/R SP" is automatically set to "NONE".	Set "SUR. L/R SP" and "SUR. B L/R SP" to a setting other than "NONE".	80
	"SUR. B L/R SP" in "SET MENU" is set to "NONE".	Set "SUR. B L/R SP" to a setting other than "NONE".	80
No sound is heard from the subwoofer.	"LFE/BASS OUT" in "SET MENU" is set to "FRNT" when a Dolby Digital or DTS signal is being played.	Set "LFE/BASS OUT" to "SWFR" or "BOTH".	81
	"LFE/BASS OUT" in "SET MENU" is set to "SWFR" or "FRNT" when a 2- channel source is being played.	Set "LFE/BASS OUT" to "BOTH".	81
	The source does not contain low-frequency signals.		

Problem	Cause	Remedy	See page
Dolby Digital or DTS sources cannot be played. (Dolby Digital	The connected component is not set to output Dolby Digital or DTS digital signals.	Make an appropriate setting following the operating instructions for your component.	_
or DTS indicator in the front panel display does not light up.)	"INPUT MODE" is set to "ANALOG".	Set "INPUT MODE" to "AUTO" or "DTS".	41
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 is low while a record is being played.	The record is being played on a turntable with an MC cartridge.	Connect your turntable to this unit through an MC-head amplifier.	23
The volume level cannot be increased, or the sound is distorted.	The component connected to the AUDIO OUT (REC) jacks of this unit is turned off.	Turn on the power of the component.	_
The sound effect cannot be recorded.	It is not possible to record the sound effect with a recording component.		
A source cannot be recorded by a digital	The source component is not connected to the DIGITAL INPUT jacks of this unit.	Connect the source component to the DIGITAL INPUT jacks.	20, 23
recording component connected to the DIGITAL OUTPUT jack.	Some components cannot record the Dolby Digital or DTS sources.		
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.	23
The sound field parameters and some other settings of this unit cannot be changed.	"MEMORY GUARD" in "SET MENU" is set to "ON".	Set "MEMORY GUARD" to "OFF".	88
This unit does not operate properly.	The internal microcomputer has been frozen by an external electric shock (such as lightning or excessive static electricity) or by a power supply with low voltage.	Disconnect the power cable from the AC wall outlet and then plug it in again after about 30 seconds.	_
"CHECK SP WIRES" appears in the front panel display.	Speaker cables are short-circuited.	Make sure all speaker cables are connected correctly.	13
There is noise interference from digital or radio frequency equipment.	This unit is too close to the digital or high-frequency equipment.	Move this unit further away from such equipment.	_
The picture is disturbed.	The video source uses scrambled or encoded signals to prevent dubbing.		
This unit suddenly enters the standby mode.	The internal temperature becomes too high and the overheat protection circuitry has been activated.	Wait about 1 hour for this unit to cool down and then turn it back on.	_

■ Tuner

	Problem	Cause	Remedy	See page
	FM stereo reception is	The characteristics of FM stereo	Check the antenna connections.	28
	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.	53
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.	53
	Previously preset stations can no longer be tuned into.	This unit has been disconnected for a long period.	Set preset stations.	54, 55
	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.	53
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.	_

TROUBLESHOOTING

■ Remote control

Problem	Cause	Remedy	See page
The remote control does not work nor function properly.	Wrong distance or angle.	The remote control functions within a maximum range of 6 m and no more than 30 degrees off-axis from the front panel.	8
	Direct sunlight or lighting (from an inverter type of fluorescent lamp, etc.) is striking the remote control sensor of this unit.	Reposition this unit.	_
	The batteries are weak.	Replace all batteries.	3
	The remote control code is not correctly set.	Set the remote control code correctly using "LIST OF REMOTE CONTROL CODES" at the end of this manual.	94
		Try setting another code for the same manufacturer using "LIST OF REMOTE CONTROL CODES" at the end of this manual.	94
	The library code of the remote control and the remote control ID of this unit do not match.	Match the remote control ID of this unit with the corresponding remote control library code.	91, 95
	Even if the remote control code is correctly set, there are some models that do not respond to the remote control.		

■ iPod

Note

In case of a transmission error without a status message appearing in the front panel and in the OSD, check the connection to your iPod (see page 24).

Status message	Cause	Remedy	See page
Loading	This unit is in the middle of recognizing the connection with your iPod.		
	This unit is in the middle of acquiring song lists from your iPod.		
Connect error	There is a problem with the signal path from your iPod to this unit.	Turn off this unit and reconnect the YAMAHA iPod universal dock to the DOCK terminal of this unit.	24
		Try resetting your iPod.	_
Unknown type	The iPod being used is not supported by this unit.	Only iPod (Click and Wheel), iPod nano, and iPod mini are supported.	_
iPod connected	Your iPod is properly stationed in a YAMAHA iPod universal dock (such as YDS-10 sold separately) connected to the DOCK terminal of this unit, and the connection between your iPod and this unit is complete.		
Disconnected	Your iPod was removed from a YAMAHA iPod universal dock (such as YDS-10 sold separately) connected to the DOCK terminal of this unit.	Station your iPod back in a YAMAHA iPod universal dock (such as YDS-10 sold separately) connected to the DOCK terminal of this unit.	24
Unable to play	This unit cannot play back the songs currently stored on your iPod.	Check that the songs currently stored on your iPod are playable.	_
		Store some other playable music files on your iPod.	

■ AUTO SETUP

Before AUTO SETUP

Error message	Cause	Remedy	See page
Connect MIC!	Optimizer microphone is not connected.	Connect the supplied optimizer microphone to the OPTIMIZER MIC jack on the front panel.	32
Unplu9 HP!	Headphones are connected.	Unplug the headphones.	_

During AUTO SETUP

Error message	Cause	Remedy	See page	
E-1:NO FRONT SP	Front L/R channel signals are not detected.	Select the front speakers with SPEAKERS A or B.	38	
		Check the front L/R speaker connections.	13	
E-2:NO SURR.SP	A surround channel signal is not detected.	Check the surround speaker connections.	13	
E-3:NO PRNS SP	A presence channel signal is not detected.	Check the presence speaker connections.	13	
E-4:SBR->SBL	Only right surround back channel signal is detected.	Connect the surround back speaker to the LEFT SURROUND BACK SPEAKERS terminal if you only have one surround back speaker.	13	
E-5:NOISY	Background noise is too loud.	Try running "AUTO SETUP" in a quiet environment.	_	
		Turn off noisy electric equipment like air conditioners or move them away from the optimizer microphone.	_	
E-6:CHECK SUR.	Surround back speakers are connected, though surround L/R speakers are not.	Connect surround speakers when you use surround back speakers.	13	
E-7:NO MIC	The optimizer microphone was unplugged during the "AUTO SETUP" procedure.	Connect the supplied optimizer microphone to OPTIMIZER MIC jack on the front panel.	32	
E-8:NO SIGNAL	The optimizer microphone does not detect	Check the microphone setting.	32	
	test tones.	Check the speaker connections and placement.	13	
E-9:USER CANCEL	The "AUTO SETUP" procedure was cancelled due to user activity.	Run "AUTO SETUP" again.	32	
E-10: INTERNAL ERROR	An internal error occurred.	Run "AUTO SETUP" again.	32	

TROUBLESHOOTING

After AUTO SETUP

Warning message	Cause	Remedy	See page
W-1:OUT OF PHASE	Speaker polarity is not correct. This message may appear depending on the speakers even when the speakers are connected correctly.	Check the speaker connections for proper polarity (+ or –).	13
W-2:0VER 24m (80ft)	The distance between the speaker and the listening position is over 24 m.	Bring the speaker closer to the listening position.	_
W-3:LEVEL ERROR	The difference of volume level among speakers is excessive. (No level correction is made.)	Readjust the speaker installation so that all speakers are set in locations with similar conditions.	_
		Check the speaker connections.	13
		Use speakers of similar quality.	_
		Adjust the output volume of the subwoofer.	33

Notes

- If the "ERROR" or "WARNING" screens appears, check the cause of the problem, then run "AUTO SETUP" again.
- If warning "W-1" appears, corrections are made, but they may not be optimal.
 If warning "W-2" or "W-3" appears, no corrections are made.
- If error "E-10" occurs repeatedly, please contact a qualified YAMAHA service center.

GLOSSARY

Audio information

■ Dolby Digital

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

■ Dolby Digital EX

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

■ Dolby Pro Logic II

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

■ Dolby Pro Logic IIx

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

■ Dolby Surround

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

■ DTS 96/24

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

■ DTS (Digital Theater Systems) Digital Surround

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

■ ITU-R

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

■ LFE 0.1 channel

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

■ Neo:6

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

■ PCM (Linear PCM)

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

Sampling frequency and number of quantized bits

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

Video information

■ Component video signal

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

■ Composite video signal

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

■ S-video signal

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

Sound field program information

■ CINEMA DSP

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

■ SILENT CINEMA

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

■ Virtual CINEMA DSP

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

SPECIFICATIONS

AUDIO SECTION	VIDEO SECTION
• Minimum RMS Output Power for Front, Center, Surround,	Video Signal TypePAL/NTSC
Surround back 20 Hz to 20 kHz, 0.06% THD, 8 Ω100 W	• Signal to Noise Ratio 50 dB or more
Maximum Power (EIAJ) [Asia, China, Korea and General models] 140 W. 140	• Frequency Response (MONITOR OUT) Component 5 Hz to 60 MHz, –3 dB
1 kHz, 10% THD, 8 Ω140 W	FM SECTION (except for U.K. model)
 Dynamic Power (IHF) 8/6/4/2 Ω135/170/200/245 W Maximum Output Power [Europe and Asia models] 1 kHz, 0.7% THD, 4 Ω	• Tuning Range [U.S.A. and Canada models]
	• Usable Sensitivity (IHF)
IEC Output Power [Europe and Asia models] 1 kHz, 0.06% THD, 8 Ω110 W	• Signal to Noise Ratio (IHF)
Damping Factor (IHF)	Mono/Stereo
20 Hz to 20 kHz, 8 Ω	• Harmonic Distortion (1 kHz)
Frequency Response	Mono/Stereo
CD terminal to Front L/R 10 Hz to 100 kHz, -3 dB	Stereo Separation (1 kHz)
 Total Harmonic Distortion PHONO to REC OUT (20 Hz to 20 kHz, 1 V) 0.02% or less CD, etc. to Front L/R (20 Hz to 20 kHz, 50 W, 8 Ω)	 Frequency Response
Signal to Noise Ratio (IHF-A Network) Phono (5 mV) to REC OUT [Europe, Australia, Asia and Korea models]	[U.S.A. and Canada models] 530 to 1710 kHz [Asia and General models] 530/531 to 1710/1611 kHz [Other models] 531 to 1611 kHz • Usable Sensitivity 300 μV/m
Residual Noise (IHF-A Network)	GENERAL
Front L/R	• Power Supply
• Channel Separation (1 kHz/10 kHz) PHONO (shorted) to Front L/R 60 dB/55 dB or more CD (5.1 k Ω terminated) to Front L/R 60 dB/45 dB or more	[U.S.A. and Canada models]
• Tone Control (Front L/R)	[Europe model] AC 230 V, 50 Hz
BASS Boost/Cut	[General model] AC 110/120/220/230–240 V, 50/60 Hz
BASS Turnover Frequency	[Asia model] AC 220/230–240 V, 50/60 Hz
TREBLE Turnover Frequency	Power Consumption
• Phones Output	[U.S.A. and Canada models]
Input Sensitivity/Input Impedance	Standby Power Consumption 0.1 W or less
PHONO	AC Outlets
CD, etc. $200 \text{ mV/47 k}\Omega$ MULTI CH INPUT $200 \text{ mV/47 k}\Omega$	[Australia model]
Output Level/Output Impedance DECOUT	[Europe, Asia and General models] 2 (Total 50 W maximum)
REC OUT	• Dimensions (W x H x D)
SUBWOOFER 4 V/1.7 k Ω	(17.1 x 6.7 x 16.6 in)
ZONE 2 OUTPUT	• Weight

LIST OF REMOTE CONTROL CODES LISTE DES CODES DE COMMANDE LISTE DER FERNBEDIENUNGSCODES LISTA ÖVER FJÄRRSTYRNINGSKODER LIJST MET AFSTANDSBEDIENINGSCODES СПИСОК КОДОВ ДИСТАНЦИОННОГО УПРАВЛЕНИЯ

1		TELEWEST	11068			DCLAD	10047 11175
CABLE TV	/ RECEIVER	TELEWEST THOMSON	11110, 11734	SATELLIT	E RECEIVER	BSKYB BT	10847, 11175 11296
ABC	10003	TORX	10003	@SAT	11300	BUBU SAT	10713
ADB	11230, 11269	TOSHIBA	11509	@SKY	11334	BUSH	11284, 11471,
AICHI DENSH		TRI-VISION	11257	ABSAT	10713	20011	11672
AMSTRAD	11222	UNITED CABI		ADB	10642, 11259,	CANAL DIGIT	
AUNA	11230, 11269		10003		11367, 11473,		10853, 11622
AUSTAR	10276	UPC	11582		11491	CANAL+	10853
BIRMINGHAN		US ELECTRON		AIWA	11514, 11515	CANALSATEL	
	MUNICATIONS		10276	AKAI	10200		10853, 11339,
	10276			ALBA	10713, 11284		11853
BRITISH TELI				ALLSAT	10200, 11017,	CENTREX	11457
	10003	CABLE/PV			11043	CGV	11413
CABLE & WIF	RELESS	COMBINA	ΓΙΟΝ	ALLSONIC	10369	CHESS	10114, 10713,
	11068	FRANCE TELI	ECOM11734	ALLTECH	10713		11334
DX ANTENNA	A	FREEBOX	11482	ALLVISION	11232, 11334,	CITYCOM	10299, 10818,
	11500, 11502	MOTOROLA	11106		11412		11075, 11176,
FASTWEB	11630	NOKIA	11569	AMITRONICA	. 10713		11232
FRANCE TEL	ECOM	NOOS	11624	AMPERE	10132	COLOMBIA	10132
	10817, 11734	SUPERCABLE		AMSTRAD	10132, 10713,	COLUMBIA	10132
FREEBOX	11482	THOMSON	11734		10847, 10885,	COMAG	10132, 11232,
FUJITSU	11497	UPC	11582		11113, 11175		11366, 11412,
GENERAL IN	STRUMENT			ANGLO	10713		11413, 11579
	10003, 10276			ANKARO	10369, 10713,	CONDOR	10369
GOLDEN CHA	ANNEL	DBS/PVR			11279	CONRAD	10132, 10369
	11110	COMBINA	ΓΙΟΝ	ANTSAT	11017, 11083	COSHIP	11457
HOMECHOIC	E11590	@SAT	11300	ARCON	11043, 11075,	CYRUS	10200
JERROLD	10003, 10276	ATSAT	11300		11279	D-BOX	10873
MACAB	10817		BROADCASTING	ARNION	11300	DAEWOO	10713, 11111,
MADRITEL	11230		11175	ASAT	10200		11296, 11743
MASPRO	11510	CANALSATEL	LITE	ASCI	10114, 11334,	DELTASAT	11075
MOTOROLA			11339		11461	DGTEC	11242
	11483	COMAG	11412	ASLF	10713	DIGENIUS	10299, 11161
MR ZAP	11112	DIGIFUSION	11645	ASSCOM	10853	DIGIALITY	11685
MR. ZAP	11112	DIRECTV	10099, 10639	ASTON	11129	DIGIFUSION	
NEC	11496	DREAM MULT	TIMEDIA	ASTRA	10713	DIGIQUEST	11457, 11473
NOKIA	11569		11237	ASTRO	10133, 10173,	DIGISAT	11232
NOOS	10817, 11624	ECHOSTAR	10610		10369, 10658,	DIGISKY	11457
NTL	10003, 11060,	FORCE	11194		11099, 11100,	DIGITALL WO	
ONO	11068	FOXTEL	11356	ATEG ATE	11113	DILLI	11227
ONO OPTUS	11068 10276	GBSAT	11214	ATSAT ATSKY	11300 11334	DIJAM DIRECTV	11296
PACE		HUMAX	11176, 11427,	AUDIOLINE	11429	DISTRATEL	10099, 10639 10885, 11283,
PACE	11060, 11068,		11670, 11675	AURORA	10879	DISTRATEL	10883, 11283,
PANASONIC	11577 10375, 11488	KATHREIN	11221, 11561	AUSTAR	10642, 10879,	DMT	11704
PHILIPS	10817	MAXIMUM	11334	AUSTAK	11259	DNT	10200
PIONEER	11021, 11500	NOKIA	11310, 11311	AXIS	10369, 11111	DREAM MULT	
PVP STEREO	11021, 11300	OPENTEL	11412	B@YTRONIC	,	DICE/MY MICE	11237
VISUAL MATI	RIX	PACE	11423, 11623	BENTLEY WA		DUNE	10369
. 150.15 111111	10003	PANASONIC	11320	SELLED WA	11017	DX ANTENNA	
SAGEM	10817, 11112,	PHILIPS	10099	BEST	10369	ECHOSTAR	10167, 10610,
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TECHNOWEL TECHSAN TECHSAN TECHWOOD TEKCOMM TELE SYSTEM TELECIEL TELEKA TELESTAR TELESYSTEM TELETECH TELEVES TELEWIRE	11429 T10132 11017 10114, 11284 11017 M ELECTRONIC 11611 11043 10262 10114, 11099, 11100, 11251, 11334 4 11251, 11409 10114 10132, 11214, 11300 11232	HDTV DEC PIONEER SHARP OTHER VII ACCESSO ABS ALIENWARE	11413 10114, 10369, 10504, 10818, 11075, 11232, 11251, 11334, 11412, 11413 CORDER 11010 11010 DEO PRIES 11272 11272	AKITO AKURA ALBA	20729, 20745, 20753, 21207 20037, 20218, 20455 20037 20009, 20037, 20218, 20264, 20412, 20668, 20714, 21037, 21982 20009, 20037, 20163, 20218, 20355, 20371, 20418, 20443, 20487, 20668, 20714, 21037 20865	BLUE SKY BUESKY BOOTS BOXLIGHT BPL BRANDT	20170, 20195, 20200, 20327, 20455 20037, 20218, 20455, 20487, 20556, 20668, 20714, 20715, 20808, 21037, 21191 21388 20009 20736 20037, 20896 20109, 20335, 20560, 20625, 20714
TECHNOWEL TECHSAN TECHWOOD TEKCOMM TELE SYSTEI TELECIEL TELEKA TELESTAR TELESYSTEM TELETECH TELEVES TELEWIRE TEVEBOX	11429 T10132 11017 10114, 11284 11017 M ELECTRONIC 11611 11043 10262 10114, 11099, 11100, 11251, 11334 4 11251, 11409 10114 10132, 11214, 11300 11232 11681	HDTV DEC PIONEER SHARP OTHER VII ACCESSO ABS ALIENWARE CYBERPOWE	11413 10114, 10369, 10504, 10818, 11075, 11232, 11251, 11334, 11412, 11413 CORDER 11010 11010 DEO RIES 11272 11272 R11272	AKITO AKURA ALBA ALL-TEL ALL-STAR	20729, 20745, 20753, 21207 20037, 20218, 20455 20037 20009, 20037, 20218, 20264, 20412, 20668, 20714, 21037, 21982 20009, 20037, 20163, 20218, 20355, 20371, 20418, 20443, 20487, 20668, 20714, 21037 20865 20037	BLUESKY BOOTS BOXLIGHT BPL	20170, 20195, 20200, 20327, 20455 20037, 20218, 20455, 20487, 20556, 20668, 20714, 20715, 20808, 21037, 21191 21388 20009 20736 20109, 20335, 20560, 20625, 20714 20037, 20418,
TECHNOWEL TECHSAN TECHSAN TECHWOOD TEKCOMM TELE SYSTEM TELECIEL TELEKA TELESTAR TELESYSTEM TELETECH TELEVES TELEWIRE	11429 T10132 11017 10114, 11284 11017 M ELECTRONIC 11611 11043 10262 10114, 11099, 11100, 11251, 11334 M 11251, 11409 10114 10132, 11214, 11300 11232 11681 10713, 11409,	HDTV DEC PIONEER SHARP OTHER VII ACCESSO ABS ALIENWARE CYBERPOWE GATEWAY	11413 10114, 10369, 10504, 10818, 11075, 11232, 11251, 11334, 11412, 11413 CORDER 11010 11010 DEO PRIES 11272 11272 R11272 R11272 11272	AKITO AKURA ALBA ALL-TEL ALLSTAR AMPLIVISION	20729, 20745, 20753, 21207 20037, 20218, 20455 20037 20009, 20037, 20218, 20264, 20412, 20668, 20714, 21037, 21982 20009, 20037, 20163, 20218, 20355, 20371, 20418, 20443, 20487, 20668, 20714, 21037 20865 20037	BLUESKY BOOTS BOXLIGHT BPL BRANDT BRINKMANN	20170, 20195, 20200, 20327, 20455 20037, 20218, 20455, 20487, 20556, 20668, 20714, 20715, 20808, 21037, 21191 21388 20009 20736 20037, 20896 20109, 20335, 20560, 20625, 20714 20037, 20418, 20486, 20668
TECHNOWER TECHSON TECHWOOD TEKCOMM TELE SYSTER TELECIEL TELEKA TELESTAR TELESYSTER TELETECH TELEVES TELEWIRE TEVEBOX TEVION	11429 T10132 11017 10114, 11284 11017 M ELECTRONIC 11611 11043 10262 10114, 11099, 11100, 11251, 11334 M 11251, 11409 10114 10132, 11214, 11300 11232 11681 10713, 11409, 11622	HDTV DEC PIONEER SHARP OTHER VII ACCESSO ABS ALIENWARE CYBERPOWE GATEWAY HAUPPAUGE	11413 10114, 10369, 10504, 10818, 11075, 11232, 11251, 11334, 11412, 11413 CORDER 11010 11010 DEO PRIES 11272 11272 11272 111272 11408	AKITO AKURA ALBA ALL-TEL ALL-STAR	20729, 20745, 20753, 21207 20037, 20218, 20455 20037 20009, 20037, 20218, 20264, 20412, 20668, 20714, 21037, 21982 20009, 20037, 20163, 20218, 20355, 20371, 20418, 20443, 20487, 20668, 20714, 21037 20865 20037 N 20370 20009, 20037,	BLUESKY BOOTS BOXLIGHT BPL BRANDT BRINKMANN BTC	20170, 20195, 20200, 20327, 20455 20037, 20218, 20455, 20487, 20556, 20668, 20714, 20715, 20808, 21037, 21191 21388 20009 20736 20037, 20896 20109, 20335, 20560, 20625, 20714 20037, 20418, 20486, 20668 20218
TECHNOWEL TECHSAN TECHWOOD TEKCOMM TELE SYSTEI TELECIEL TELEKA TELESTAR TELESYSTEM TELETECH TELEVES TELEWIRE TEVEBOX	11429 T10132 11017 10114, 11284 11017 M ELECTRONIC 11611 11043 10262 10114, 11099, 11100, 11251, 11334 4 11251, 11409 10114 10132, 11214, 11300 11232 11681 10713, 11409, 11622 10292, 10711,	HDTV DEC PIONEER SHARP OTHER VII ACCESSO ABS ALIENWARE CYBERPOWE GATEWAY	11413 10114, 10369, 10504, 10818, 11075, 11232, 11251, 11334, 11412, 11413 CORDER 11010 11010 DEO PRIES 11272 11272 11272 111272 11408	AKITO AKURA ALBA ALL-TEL ALLSTAR AMPLIVISION	20729, 20745, 20753, 21207 20037, 20218, 20455 20037 20099, 20037, 20218, 20264, 20412, 20668, 20714, 21037, 21982 20009, 20037, 20163, 20218, 20355, 20371, 20418, 20443, 20487, 20668, 20714, 21037 20865 20037 N 20370 20009, 20037, 20218, 20264,	BLUESKY BOOTS BOXLIGHT BPL BRANDT BRINKMANN	20170, 20195, 20200, 20327, 20455 20037, 20218, 20455, 20487, 20556, 20668, 20714, 20715, 20808, 21037, 21191 21388 20009 20736 20037, 20896 20109, 20335, 20560, 20625, 20714 20037, 20418, 20486, 20668 20218 20009, 20037,
TECHNOWER TECHSON TECHWOOD TEKCOMM TELE SYSTER TELECIEL TELEKA TELESTAR TELESYSTER TELETECH TELEVES TELEWIRE TEVEBOX TEVION	11429 T10132 11017 10114, 11284 11017 M ELECTRONIC 11611 11043 10262 10114, 11099, 11100, 11251, 11334 M 11251, 11409 10114 10132, 11214, 11300 11232 11681 10713, 11409, 11622 10292, 10711, 10713, 10820,	HDTV DEC PIONEER SHARP OTHER VII ACCESSO ABS ALIENWARE CYBERPOWE GATEWAY HAUPPAUGE	11413 10114, 10369, 10504, 10818, 11075, 11232, 11251, 11334, 11412, 11413 CORDER 11010 11010 DEO PRIES 11272 11272 11272 111272 11408	AKITO AKURA ALBA ALL-TEL ALLSTAR AMPLIVISION	20729, 20745, 20753, 21207 20037, 20218, 20455 20037 20218, 20264, 20412, 20668, 20714, 21037, 21982 20009, 20037, 20163, 20218, 20355, 20371, 20418, 20457, 20668, 20714, 21037 20865 20037 N 20370 20009, 20037, 20218, 203571, 20418, 20447, 20668, 20714, 21037 20865 20037 N 20370 20009, 20037, 20218, 20264, 20371, 20412,	BLUESKY BOOTS BOXLIGHT BPL BRANDT BRINKMANN BTC	20170, 20195, 20200, 20327, 20455 20037, 20218, 20455, 20487, 20556, 20668, 20714, 20715, 20808, 21037, 21191 21388 20009 20736 20037, 20896 20109, 20335, 20560, 20625, 20714 20037, 20418, 20486, 20668 20218 20009, 20037, 20208, 20218,
TECHNOWER TECHSON TECHWOOD TEKCOMM TELE SYSTER TELECIEL TELEKA TELESTAR TELESYSTER TELETECH TELEVES TELEWIRE TEVEBOX TEVION	11429 T10132 11017 10114, 11284 11017 M ELECTRONIC 11611 11043 10262 10114, 11099, 11100, 11251, 11334 4 11251, 11409 10114 10132, 11214, 11300 11232 11681 10713, 11409, 11622 10292, 10711,	HDTV DEC PIONEER SHARP OTHER VII ACCESSO ABS ALIENWARE CYBERPOWE GATEWAY HAUPPAUGE	11413 10114, 10369, 10504, 10818, 11075, 11232, 11251, 11334, 11412, 11413 CORDER 11010 11010 DEO RIES 11272 11272 11272 11272 11272 111272 111272 111272 111272 111272 111272 111272 111272 111272	AKITO AKURA ALBA ALL-TEL ALLSTAR AMPLIVISION	20729, 20745, 20753, 21207 20037, 20218, 20455 20037 20099, 20037, 20218, 20264, 20412, 20668, 20714, 21037, 21982 20009, 20037, 20163, 20218, 20355, 20371, 20418, 20443, 20487, 20668, 20714, 21037 20865 20037 N 20370 20009, 20037, 20218, 20264,	BLUESKY BOOTS BOXLIGHT BPL BRANDT BRINKMANN BTC	20170, 20195, 20200, 20327, 20455 20037, 20218, 20455, 20487, 20556, 20668, 20714, 20715, 20808, 21037, 21191 21388 20009 20736 20037, 20896 20109, 20335, 20560, 20625, 20714 20037, 20418, 20486, 20668 20218 20009, 20037,
TECHNOWER TECHSON TECHWOOD TEKCOMM TELE SYSTER TELECIEL TELEKA TELESTAR TELESYSTER TELETECH TELEVES TELEWIRE TEVEBOX TEVION	11429 T10132 11017 10114, 11284 11017 M ELECTRONIC 11611 11043 10262 10114, 11099, 11100, 11251, 11334 M 11251, 11409 10114 10132, 11214, 11300 11232 11681 10713, 11409, 11622 10292, 10711, 10713, 10820,	HDTV DEC PIONEER SHARP OTHER VII ACCESSO ABS ALIENWARE CYBERPOWE GATEWAY HAUPPAUGE HEWLETT PAGE	11413 10114, 10369, 10504, 10818, 11075, 11232, 11251, 11334, 11412, 11413 CORDER 11010 11010 DEO RIES 11272 11272 11272 11272 11408 CCKARD 11272 MPUTERS	AKITO AKURA ALBA ALL-TEL ALLSTAR AMPLIVISION	20729, 20745, 20753, 21207 20037, 20218, 20455 20037 20218, 20264, 20412, 20668, 20714, 21037, 21982 20009, 20037, 20163, 20218, 20355, 20371, 20418, 20457, 20668, 20714, 21037 20865 20037 N 20370 20009, 20037, 20218, 203571, 20418, 20447, 20668, 20714, 21037 20865 20037 N 20370 20009, 20037, 20218, 20264, 20371, 20412,	BLUESKY BOOTS BOXLIGHT BPL BRANDT BRINKMANN BTC	20170, 20195, 20200, 20327, 20455 20037, 20218, 20455, 20487, 20556, 20668, 20714, 20715, 20808, 21037, 21191 21388 20009 20736 20037, 20896 20109, 20335, 20560, 20625, 20714 20037, 20418, 20486, 20668 20218 20009, 20037, 20208, 20218,
TECHNOWER TECHSON TECHWOOD TEKCOMM TELE SYSTER TELECIEL TELEKA TELESTAR TELESYSTER TELETECH TELEVES TELEWIRE TEVEBOX TEVION	11429 T10132 11017 10114, 11284 11017 M ELECTRONIC 11611 11043 10262 10114, 11099, 11100, 11251, 11334 4 11251, 11409 10114 10132, 11214, 11300 11232 11681 10713, 11409, 11622 10292, 10711, 10713, 10820, 10847, 10853,	HDTV DEC PIONEER SHARP OTHER VII ACCESSO ABS ALIENWARE CYBERPOWE GATEWAY HAUPPAUGE HEWLETT PACHOWARD COM	11413 10114, 10369, 10504, 10818, 11075, 11232, 11251, 11334, 11412, 11413 CORDER 11010 11010 DEO RIES 11272 11272 11272 11272 11408 CKARD 11272 MPUTERS 11272	AKITO AKURA ALBA ALL-TEL ALLSTAR AMPLIVISION	20729, 20745, 20753, 21207 20037, 20218, 20455 20037 20009, 20037, 20218, 20264, 20412, 20668, 20714, 21037, 21982 20009, 20037, 20163, 20218, 20355, 20371, 20418, 20443, 20487, 20668, 20714, 21037 20865 20037 N 20370 20009, 20037, 20218, 20264, 20371, 20412, 20433, 20516,	BLUESKY BOOTS BOXLIGHT BPL BRANDT BRINKMANN BTC	20170, 20195, 20200, 20327, 20455 20037, 20218, 20455, 20487, 20556, 20668, 20714, 20715, 20808, 21037, 21191 21388 20009 20736 20037, 20896 20109, 20335, 20560, 20625, 20714 20037, 20418, 20486, 20668 20218 20009, 20037, 20208, 20218, 20264, 20355,
TECHNOWER TECHSON TECHWOOD TEKCOMM TELE SYSTER TELECIEL TELEKA TELESTAR TELESYSTER TELETECH TELEVES TELEWIRE TEVEBOX TEVION	11429 T10132 11017 10114, 11284 11017 M ELECTRONIC 11611 11043 10262 10114, 11099, 11100, 11251, 11334 M 11251, 11409 10114 10132, 11214, 11300 11232 11681 10713, 11409, 11622 10292, 10711, 10713, 10820, 10847, 10853, 11046, 11175, 11291, 11498,	HDTV DEC PIONEER SHARP OTHER VII ACCESSO ABS ALIENWARE CYBERPOWE GATEWAY HAUPPAUGE HEWLETT PACH HOWARD COLUMN	11413 10114, 10369, 10504, 10818, 11075, 11232, 11251, 11334, 11412, 11413 CORDER 11010 11010 DEO PRIES 11272 11272 11272 11408 CKARD 11272 11272 11272 11272 11272 11272 11272 11272 11272	AKITO AKURA ALBA ALL-TEL ALLSTAR AMPLIVISION AMSTRAD	20729, 20745, 20753, 21207 20037, 20218, 20455 20037 20209, 20037, 20218, 20412, 20668, 20714, 21037, 21982 20009, 20037, 20163, 20218, 20355, 20371, 20418, 20443, 20487, 20668, 20714, 21037 20865 20037 20370 20009, 20037, 20218, 20264, 20371, 20412, 20433, 20516, 21037 20009, 20250	BLUESKY BOOTS BOXLIGHT BPL BRANDT BRINKMANN BTC	20170, 20195, 20200, 20327, 20455 20037, 20218, 20455, 20487, 20556, 20668, 20714, 20715, 20808, 21037, 21191 21388 20009 20736 20037, 20896 20109, 20335, 20560, 20625, 20714 20037, 20418, 20486, 20688 20218 20009, 20037, 20208, 20218, 20264, 20355, 20361, 20371, 20374, 20487,
TECHNOWEI TECHSAN TECHWOOD TEKCOMM TELE SYSTEI TELECIEL TELEKA TELESTAR TELESYSTEN TELETECH TELEVES TELEWIRE TEVEBOX TEVION THOMSON	11429 T10132 11017 10114, 11284 11017 M ELECTRONIC 11611 11043 10262 10114, 11099, 11100, 11251, 11334 M 11251, 11409 10114 10132, 11214, 11300 11232 11681 10713, 11409, 11622 10292, 10711, 10713, 10820, 10847, 10853, 11046, 11175, 11291, 11498, 11534, 11900	HDTV DEC PIONEER SHARP OTHER VII ACCESSO ABS ALIENWARE CYBERPOWE GATEWAY HAUPPAUGE HEWLETT PAI HOWARD COI	11413 10114, 10369, 10504, 10818, 11075, 11232, 11251, 11334, 11412, 11413 CORDER 11010 11010 DEO PRIES 11272 11272 11272 11408 CKARD 11272 MPUTERS 11272 11272 11272 11272 11272 11272	AKITO AKURA ALBA ALL-TEL ALLSTAR AMPLIVISION AMSTRAD	20729, 20745, 20753, 21207 20037, 20218, 20455 20037 20218, 20264, 20412, 20668, 20714, 21037, 21982 20009, 20037, 20163, 20218, 20355, 20371, 20418, 20443, 20487, 20668, 20714, 21037 20865 20037 20009, 2037, 20218, 20250, 20371, 20418, 20443, 20443, 20516, 20371, 20418, 20264, 20371, 20412, 20433, 20516, 21037 20009, 20250 20045, 20250 2004	BLUESKY BOOTS BOXLIGHT BPL BRANDT BRINKMANN BTC	20170, 20195, 20200, 20327, 20455 20037, 20218, 20455, 20487, 20556, 20668, 20714, 20715, 20808, 21037, 21191 21388 20009 20736 20037, 20896 20109, 20335, 20560, 20625, 20714 20037, 20418, 20486, 20668 20218 20009, 20037, 20208, 20218, 20264, 20355, 20361, 20371, 20374, 20487, 20556, 20614,
TECHNOWER TECHSON TECHWOOD TEKCOMM TELE SYSTER TELECIEL TELEKA TELESTAR TELESTAR TELESYSTEM TELETECH TELEVES TELEWIRE TEVEBOX TEVION THOMSON	11429 T10132 11017 10114, 11284 11017 M ELECTRONIC 11611 11043 10262 10114, 11099, 11100, 11251, 11334 M 11251, 11409 10114 10132, 11214, 11300 11232 11681 10713, 11409, 11622 10292, 10711, 10713, 10820, 10847, 10853, 11046, 11175, 11291, 11498, 11534, 11900 11672	HDTV DEC PIONEER SHARP OTHER VII ACCESSO ABS ALIENWARE CYBERPOWE GATEWAY HAUPPAUGE HEWLETT PACHOWARD COLOR HP HUSH IBUYPOWER	11413 10114, 10369, 10504, 10818, 11075, 11232, 11251, 11334, 11412, 11413 CORDER 11010 11010 DEO PRIES 11272 11272 11272 11408 CKARD 11272 MPUTERS 11272 11272 11272 11272 11272 11272 11272 11272	AKITO AKURA ALBA ALL-TEL ALLSTAR AMPLIVISION AMSTRAD ANAM ANAM NATIO	20729, 20745, 20753, 21207 20037, 20218, 20455 20037 20218, 20264, 20412, 20668, 20714, 21037, 21982 20009, 20037, 20163, 20218, 20355, 20371, 20418, 20457, 20668, 20714, 21037 20865 20037 N 20370 20009, 20037, 20218, 20350, 20371, 20418, 20443, 20487, 20668, 20714, 21037 20865 20037 N 20370 20009, 20037, 20218, 20264, 20371, 20412, 20433, 20516, 21037 20009, 20250 NNAL2 0250	BLUESKY BOOTS BOXLIGHT BPL BRANDT BRINKMANN BTC	20170, 20195, 20200, 20327, 20455 20037, 20218, 20455, 20487, 20556, 20668, 20714, 20715, 20808, 21037, 21191 21388 20009 20736 20037, 20896 20109, 20335, 20560, 20625, 20714 20037, 20418, 20486, 20668 20218 20099, 20371, 20208, 20218, 20264, 20357, 20361, 20371, 20374, 20487, 20556, 20614, 20617, 20660,
TECHNOWEL TECHSAN TECHSAN TECHSAN TECHSAN TELESYSTEM TELECIEL TELEKA TELESTAR TELESYSTEM TELETECH TELEVES TELEWIRE TEVEBOX TEVION THOMSON	11429 .T10132 .11017 .10114, 11284 .11017 .M ELECTRONIC .11611 .11043 .10262 .10114, 11099, .11100, 11251, .11334 .11251, 11409 .10114 .10132, 11214, .11300 .11232 .11681 .10713, 11409, .11622 .10292, 10711, .10713, 10820, .10847, 10853, .11046, 11175, .11291, 11498, .11534, 11900 .11672 .10132	HDTV DEC PIONEER SHARP OTHER VII ACCESSO ABS ALIENWARE CYBERPOWE GATEWAY HAUPPAUGE HEWLETT PACH HOWARD COIL HP HUSH IBUYPOWER LINKSYS	11413 10114, 10369, 10504, 10818, 11075, 11232, 11251, 11334, 11412, 11413 CORDER 11010 11010 DEO RIES 11272 11272 11272 11408 CKARD 11272 MPUTERS 11272 11272 11272 11272 11272 11272 11272 11272	AKITO AKURA ALBA ALL-TEL ALLSTAR AMPLIVISION AMSTRAD ANAM ANAM NATION ANDERSSON	20729, 20745, 20753, 21207 20037, 20218, 20455 20037 20218, 20264, 20412, 20668, 20714, 21037, 21982 20009, 20037, 20163, 20218, 20355, 20371, 20418, 20457, 20668, 20714, 21037 20865 20037 N 20370 20009, 20037, 20163, 20487, 20668, 20714, 21037 20865 20037 N 20370 20009, 20037, 20218, 20250 20371, 20412, 20433, 20516, 21037 20009, 20250 DNAL2 20250 21149, 21163	BLUESKY BOOTS BOXLIGHT BPL BRANDT BRINKMANN BTC	20170, 20195, 20200, 20327, 20455 20037, 20218, 20455, 20487, 20556, 20668, 20714, 20715, 20808, 21037, 21191 21388 20009 20736 20037, 20896 20109, 20335, 20560, 20625, 20714 20037, 20418, 20486, 20668 20218 2009, 2037, 20208, 20218, 20371, 20418, 20486, 20668, 2058, 20560, 2065, 20714 20371, 20418, 20486, 20668, 2058, 20560, 20650, 20650, 20650, 20650, 20660, 20666, 20668, 20698, 20647, 20208, 20371, 20374, 20487, 20556, 206614, 20617, 20660, 20668, 20698,
TECHNOWEL TECHSAN TECHSON TECHSON TECHSON TELE SYSTEM TELECIEL TELEKA TELESTAR TELESYSTEM TELETECH TELEVES TELEWIRE TEVEBOX TEVION THOMSON TINY TIOKO TOKAI	11429 T10132 11017 10114, 11284 11017 M ELECTRONIC 11611 11043 10262 10114, 11099, 11100, 11251, 11334 4 11251, 11409 10114 10132, 11214, 11300 11232 11681 10713, 11409, 11622 10292, 10711, 10713, 10820, 10847, 10853, 11046, 11175, 11291, 11498, 11534, 11900 11672 10132 10132 10132	HDTV DEC PIONEER SHARP OTHER VII ACCESSO ABS ALIENWARE CYBERPOWE GATEWAY HAUPPAUGE HEWLETT PACHOWARD COLOR HP HUSH IBUYPOWER	11413 10114, 10369, 10504, 10818, 11075, 11232, 11251, 11334, 11412, 11413 CORDER 11010 11010 DEO RIES 11272 11272 11272 11272 11408 CKARD 11272 MPUTERS 11272 11272 11272 11272 11272 11272 11272 11272 11272 11272 11272 11272 11272 11272 11272 11272 11272 11272 11272	AKITO AKURA ALBA ALL-TEL ALLSTAR AMPLIVISION AMSTRAD ANAM ANAM NATIO ANDERSSON ANGLO	20729, 20745, 20753, 21207 20037, 20218, 20455 20037 20218, 20454, 20412, 20668, 20714, 21037, 21982 20009, 20037, 20163, 20218, 20355, 20371, 20418, 20443, 20487, 20668, 20714, 21037 20865 20037 N 20370 20009, 20037, 20163, 20218, 20250, 20370, 20009, 20037, 20218, 20264, 20371, 20412, 20433, 20516, 21037 20009, 20250 2009, 20250 201149, 21163 20009, 20264	BLUESKY BOOTS BOXLIGHT BPL BRANDT BRINKMANN BTC	20170, 20195, 20200, 20327, 20455 20037, 20218, 20455, 20487, 20556, 20668, 20714, 20715, 20808, 21037, 21191 21388 20009 20736 20037, 20896 20109, 20335, 20560, 20625, 20714 20037, 20418, 20486, 20668 20218 20009, 20037, 20208, 20218, 20264, 20355, 20361, 20371, 20374, 20487, 20556, 20614, 20371, 20374, 20487, 20556, 20614, 20371, 20374, 20487, 20556, 20614, 20617, 20660, 20668, 20698, 20714, 20778,
TECHNOWEL TECHSAN TECHSAN TECHSAN TECHSAN TELESYSTEM TELECIEL TELEKA TELESTAR TELESYSTEM TELETECH TELEVES TELEWIRE TEVEBOX TEVION THOMSON	11429 JT10132 11017 10114, 11284 11017 M ELECTRONIC 11611 11043 10262 10114, 11099, 11100, 11251, 11334 M 11251, 11409 10114 10132, 11214, 11300 11232 11681 10713, 11409, 11622 10292, 10711, 10713, 10820, 10847, 10853, 11046, 11175, 11291, 11498, 11534, 11900 11672 10132 10200 10587, 10713,	HDTV DEC PIONEER SHARP OTHER VII ACCESSO ABS ALIENWARE CYBERPOWE GATEWAY HAUPPAUGE HEWLETT PAI HOWARD CO! HP HUSH IBUYPOWER LINKSYS MEDIA CENT	11413 10114, 10369, 10504, 10818, 11075, 11232, 11251, 11334, 11412, 11413 CORDER 11010 11010 DEO RIES 11272 11272 11272 11408 CKARD 11272 MPUTERS 11272 11272 11272 11272 11272 11272 11272 11272	AKITO AKURA ALBA ALL-TEL ALLSTAR AMPLIVISION AMSTRAD ANAM ANAM NATION ANDERSSON	20729, 20745, 20753, 21207 20037, 20218, 20455 20037 20218, 20264, 20412, 20668, 20714, 21037, 21982 20009, 20037, 20163, 20218, 20355, 20371, 20418, 20457, 20668, 20714, 21037 20865 20037 N 20370 20009, 20037, 20163, 20487, 20668, 20714, 21037 20865 20037 N 20370 20009, 20037, 20218, 20250 20371, 20412, 20433, 20516, 21037 20009, 20250 DNAL2 20250 21149, 21163	BLUESKY BOOTS BOXLIGHT BPL BRANDT BRINKMANN BTC BUSH	20170, 20195, 20200, 20327, 20455 20037, 20218, 20455, 20487, 20556, 20668, 20714, 20715, 20808, 21037, 21191 21388 20009 20736 20037, 20896 20109, 20335, 20560, 20625, 20714 20037, 20418, 20486, 20688 20218 20009, 20037, 20208, 20218, 20264, 20355, 20361, 20371, 20374, 20487, 20556, 20614, 20371, 20374, 20487, 20566, 20668, 20698, 20714, 20718, 20617, 20666, 20698, 20714, 20778, 21037, 21243
TECHNOWEL TECHSAN TECHSON TECHSON TECHSON TELE SYSTEM TELECIEL TELEKA TELESTAR TELESYSTEM TELETECH TELEVES TELEWIRE TEVEBOX TEVION THOMSON TINY TIOKO TOKAI	11429 T10132 11017 10114, 11284 11017 M ELECTRONIC 11611 11043 10262 10114, 11099, 11100, 11251, 11334 4 11251, 11409 10114 10132, 11214, 11300 11232 11681 10713, 11409, 11622 10292, 10711, 10713, 10820, 10847, 10853, 11046, 11175, 11291, 11498, 11534, 11900 11672 10132 10132 10132	HDTV DEC PIONEER SHARP OTHER VII ACCESSO ABS ALIENWARE CYBERPOWE GATEWAY HAUPPAUGE HEWLETT PACH HOWARD COIL HP HUSH IBUYPOWER LINKSYS	11413 10114, 10369, 10504, 10818, 11075, 11232, 11251, 11334, 11412, 11413 CORDER 11010 11010 DEO RIES 11272 11272 11272 11272 11408 CKARD 11272 MPUTERS 11272 11272 11272 11272 11272 11272 11272 11272 11272 11272 11272 11272 11272 11272 11272 11272 11272 11272 11272	AKITO AKURA ALBA ALL-TEL ALLSTAR AMPLIVISION AMSTRAD ANAM ANAM NATION ANDERSSON ANGLO	20729, 20745, 20753, 21207 20037, 20218, 20455 20037 20218, 20454, 20412, 20668, 20714, 21037, 21982 20009, 20037, 20163, 20218, 20355, 20371, 20418, 20443, 20487, 20668, 20714, 21037 20865 20037 N 20370 20009, 20037, 20163, 20218, 20250, 20370, 20009, 20037, 20218, 20264, 20371, 20412, 20433, 20516, 21037 20009, 20250 2009, 20250 201149, 21163 20009, 20264	BLUESKY BOOTS BOXLIGHT BPL BRANDT BRINKMANN BTC	20170, 20195, 20200, 20327, 20455 20037, 20218, 20455, 20487, 20556, 20668, 20714, 20715, 20808, 21037, 21191 21388 20009 20736 20037, 20896 20109, 20335, 20560, 20625, 20714 20037, 20418, 20486, 20668 20218 20009, 20037, 20208, 20218, 20264, 20355, 20361, 20371, 20374, 20487, 20556, 20614, 20371, 20374, 20487, 20556, 20614, 20371, 20374, 20487, 20556, 20614, 20617, 20660, 20668, 20698, 20714, 20778,

CANTON	****						
CILITIOIT	20218	DICK SMITH	ELECTRONICS	FIRSTLINE	20009, 20037,	GRANADA	20037, 20108,
CARAD	20610, 20668,		20698		20208, 20361,		20163, 20208,
		DIGATRON	20037				20226, 20473,
	21037				20374, 20411,		
CARENA	20037, 20455	DIGILINE	20105, 20668		20556, 20668,		20516, 20548,
CARVER	20054, 20170	DIGITAL LIFE	E 20780, 20872,		20714, 20808,		20560
CASCADE		DIOINIE EN E	20891			GRANDIN	
	20009, 20037				21037, 21191,	UKANDIN	20009, 20037,
CASIO	20037	DIGITOR	20037, 20698		21307, 21363,		20163, 20374,
CATHAY	20037	DIGIX	20880		21388		20455, 20610,
CCE		DIXI		EIGHED			
	20037		20009, 20037	FISHER	20208, 20370,		20668, 20714,
CELEBRITY	20000	DL	20891		20555		20715, 20865,
CELESTIAL	20820, 20821	DMTECH	21338	FLINT	20037, 20218,		20880, 21037,
				121111			
CENTREX	20780	DOMEOS	20668		20264, 20455,		21191, 21374,
CENTRUM	21037	DOMLAND	20394		20610		21388
CENTURION	20037	DREAM VISIO	ON	FORCE	21149	GRUNDIG	20037, 20195,
		DICEANI VISIC				GRONDIG	
CGE	20074, 20370,		21704	FORMENTI	20037		20443, 20487,
	20418	DSE	20698	FORTRESS	20093		20556, 20587,
CHANGHONG	3 20821	DUAL	20037, 20352,	FRABA	20037, 20370		20740, 21223
		DUAL				***	
CIMLINE	20009, 20218		20394	FRIAC	20009, 20037,	H&B	20808
CITIZEN	20060	DVX	20891		20370, 20610	HAIER	20698, 20891
				EDONTECH			
CITY	20009	DYNATRON	20037	FRONTECH	20009, 20163,	HALLMARK	20178
CLARIVOX	20037	E-ELITE	20218		20264	HANIMEX	20218
CLATRONIC	20009, 20037,	ECCO	20773	FUJIMARO	20865	HANSEATIC	20009, 20037,
CLAIRONIC						HANSLATIC	
	20218, 20264,	EDISON-MINI	ERVA	FUJITSU	20009, 20683,		20361, 20377,
	20370, 20371,		20487		20853		20394, 20556,
		EILI	20735	ELITELL CEN			
	20606, 20714	EIKI		FUJITSU GEN			20634, 20714,
CLAYTON	21037	ELBE	20292, 20411,		20009, 20683		20808
CONDOR	20009, 20037,		20435, 20516,	FUJITSU SIEM	/FNS	HANTAREX	20009, 20037,
CONDOR				1 CJ115C SILN		III II	
	20264, 20370,		20610		21298		20516, 20829,
	20411, 20418	ELBE-SHARP	20516	FUNAI	20264, 20668		20865, 21338
CONTA		ELECTROBAN			20037	HANTOR	20037
CONIA	20754	ELECTRODAN		GALAXI			
CONRAC	20808		20000	GALAXIS	20037, 20370	HARMAN/KA	RDON
CONTEC	20009, 20037	ELECTROGRA	APH	GATEWAY	21755, 21756		20054
		LLLCTROOK				IIA D CDED	
CONTINENTA	AL EDISON		21755	GBC	20009, 20218,	HARSPER	20865
	20109, 20487	ELEKTA	20264		20374	HARWA	20773, 21196,
COSMEL	20037	ELIN	20009, 20037,	GE	20093, 20178,		21269
		ELIN		OL			
CROSLEY	20054, 20074		20361, 20548		20560, 20625,	HARWOOD	20009, 20037,
CROWN	20009, 20037,	ELITE	20218		20735		20412, 20487
				CEC		HANDDMA	
	20053, 20208,	ELTA	20009, 20264	GEC	20037, 20163,	HAVERMY	20093
	20370, 20412,	EMERSON	20037, 20178,		20361, 20516	HCM	20009, 20037,
	20418, 20486,		20361, 20370,	GELOSO	20009, 20374		20218, 20264,
	20487, 20606,		20371, 20486,	GENERAL TE	CHNIC		20412, 20418
	20712, 20714,		20714, 21909		20009	HELIOS	20865
	20715, 21037	ENVISION	21365	GENESIS	20009	HEMA	20009
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CS ELECTRO	NICS	ERRES	20037	GENEXXA	20009, 20163,	HIKONA	20218
	20218	ESC	20037		20218	HINARI	20009, 20037,
CURTIS MAT		ETRON		GERICOM	20808, 20865,		
CUKIIS MAI			20001, 20009	GERICOM			20219 20264
	20054, 20060,						20218, 20264,
		EUROFEEL	20264		20880, 21206,		20218, 20264, 20355
					20880, 21206,	HISAWA	20355
CVDEDTDOM	20093, 20145	EUROMAN	20037, 20264	COLDEUNIA	20880, 21206, 21217, 21298	HISAWA	20355 20218, 20455,
CYBERTRON	20093, 20145 20218	EUROMAN EUROPA	20037, 20264 20037	GOLDFUNK	20880, 21206, 21217, 21298 20668		20355 20218, 20455, 20610, 20714
CYBERTRON CYTRONIX	20093, 20145	EUROMAN	20037, 20264	GOLDFUNK GOLDSTAR	20880, 21206, 21217, 21298	HISAWA HISENSE	20355 20218, 20455,
CYTRONIX	20093, 20145 20218 21298	EUROMAN EUROPA EUROPHON	20037, 20264 20037 20516		20880, 21206, 21217, 21298 20668 20001, 20037,		20355 20218, 20455, 20610, 20714 20508, 20556,
CYTRONIX D-VISION	20093, 20145 20218 21298 20556	EUROMAN EUROPA EUROPHON EVOLUTION	20037, 20264 20037 20516 21756		20880, 21206, 21217, 21298 20668 20001, 20037, 20109, 20163,	HISENSE	20355 20218, 20455, 20610, 20714 20508, 20556, 20780, 21363
CYTRONIX	20093, 20145 20218 21298 20556 20009, 20037,	EUROMAN EUROPA EUROPHON	20037, 20264 20037 20516 21756 20037		20880, 21206, 21217, 21298 20668 20001, 20037, 20109, 20163, 20178, 20361,		20355 20218, 20455, 20610, 20714 20508, 20556,
CYTRONIX D-VISION	20093, 20145 20218 21298 20556 20009, 20037,	EUROMAN EUROPA EUROPHON EVOLUTION	20037, 20264 20037 20516 21756 20037		20880, 21206, 21217, 21298 20668 20001, 20037, 20109, 20163, 20178, 20361,	HISENSE	20355 20218, 20455, 20610, 20714 20508, 20556, 20780, 21363
CYTRONIX D-VISION	20093, 20145 20218 21298 20556 20009, 20037, 20218, 20374,	EUROMAN EUROPA EUROPHON EVOLUTION EXQUISIT FENNER	20037, 20264 20037 20516 21756 20037 20009, 20374		20880, 21206, 21217, 21298 20668 20001, 20037, 20109, 20163, 20178, 20361, 20377, 20606,	HISENSE	20355 20218, 20455, 20610, 20714 20508, 20556, 20780, 21363 20037, 20105, 20108, 20109,
CYTRONIX D-VISION	20093, 20145 20218 21298 20556 20009, 20037, 20218, 20374, 20556, 20634,	EUROMAN EUROPA EUROPHON EVOLUTION EXQUISIT	20037, 20264 20037 20516 21756 20037 20009, 20374 20037, 20053,	GOLDSTAR	20880, 21206, 21217, 21298 20668 20001, 20037, 20109, 20163, 20178, 20361, 20377, 20606, 20714, 20715	HISENSE	20355 20218, 20455, 20610, 20714 20508, 20556, 20780, 21363 20037, 20105, 20108, 20109, 20145, 20163,
CYTRONIX D-VISION	20093, 20145 20218 21298 20556 20009, 20037, 20218, 20374,	EUROMAN EUROPA EUROPHON EVOLUTION EXQUISIT FENNER	20037, 20264 20037 20516 21756 20037 20009, 20374		20880, 21206, 21217, 21298 20668 20001, 20037, 20109, 20163, 20178, 20361, 20377, 20606,	HISENSE	20355 20218, 20455, 20610, 20714 20508, 20556, 20780, 21363 20037, 20105, 20108, 20109,
CYTRONIX D-VISION	20093, 20145 20218 21298 20556 20009, 20037, 20218, 20374, 20556, 20634, 20865, 20880,	EUROMAN EUROPA EUROPHON EVOLUTION EXQUISIT FENNER	20037, 20264 20037 20516 21756 20037 20009, 20374 20037, 20053, 20109, 20195,	GOODING	20880, 21206, 21217, 21298 20668 20001, 20037, 20109, 20163, 20178, 20361, 20377, 20606, 20714, 20715 20487	HISENSE	20355 20218, 20455, 20610, 20714 20508, 20556, 20780, 21363 20037, 20105, 20108, 20109, 20145, 20163, 20178, 20225,
CYTRONIX D-VISION DAEWOO	20093, 20145 20218 21298 20556 20009, 20037, 20218, 20374, 20556, 20634, 20865, 20880, 21307, 21909	EUROMAN EUROPA EUROPHON EVOLUTION EXQUISIT FENNER	20037, 20264 20037 20516 21756 20037 20009, 20374 20037, 20053, 20109, 20195, 20335, 20443,	GOLDSTAR	20880, 21206, 21217, 21298 20668 20001, 20037, 20109, 20163, 20178, 20361, 20377, 20606, 20714, 20715 20487 20009, 20035,	HISENSE	20355 20218, 20455, 20610, 20714 20508, 20556, 20780, 21363 20037, 20105, 20108, 20109, 20145, 20163, 20178, 20225, 20473, 20480,
CYTRONIX D-VISION DAEWOO DAINICHI	20093, 20145 20218 21298 20556 20009, 20037, 20218, 20374, 20556, 20634, 20865, 20880, 21307, 21909 20218	EUROMAN EUROPA EUROPHON EVOLUTION EXQUISIT FENNER	20037, 20264 20037 20516 21756 20037 20009, 20374 20037, 20053, 20109, 20195, 20335, 20443, 20548, 20560,	GOODING	20880, 21206, 21217, 21298 20668 20001, 20037, 20109, 20163, 20178, 20361, 20377, 20606, 20714, 20715 20487 20009, 20035, 20037, 20218,	HISENSE	20355 20218, 20455, 20610, 20714 20508, 20556, 20780, 21363 20037, 20105, 20108, 20109, 20145, 20163, 20178, 20225, 20473, 20480, 20481, 20492,
CYTRONIX D-VISION DAEWOO	20093, 20145 20218 21298 20556 20009, 20037, 20218, 20374, 20556, 20634, 20865, 20880, 21307, 21909	EUROMAN EUROPA EUROPHON EVOLUTION EXQUISIT FENNER	20037, 20264 20037 20516 21756 20037 20009, 20374 20037, 20053, 20109, 20195, 20335, 20443,	GOODING	20880, 21206, 21217, 21298 20668 20001, 20037, 20109, 20163, 20178, 20361, 20377, 20606, 20714, 20715 20487 20009, 20035,	HISENSE	20355 20218, 20455, 20610, 20714 20508, 20556, 20780, 21363 20037, 20105, 20108, 20109, 20145, 20163, 20178, 20225, 20473, 20480,
CYTRONIX D-VISION DAEWOO DAINICHI	20093, 20145 20218 21298 20556 20009, 20037, 20218, 20374, 20556, 20634, 20865, 20880, 21307, 21909 20218 20009, 20035,	EUROMAN EUROPA EUROPHON EVOLUTION EXQUISIT FENNER FERGUSON	20037, 20264 20037 20516 21756 20037 20009, 20374 20007, 20053, 20109, 20195, 20335, 20443, 20548, 20560, 20625, 21037	GOODING	20880, 21206, 21217, 21298 20668 20001, 20037, 20109, 20163, 20178, 20361, 20377, 20606, 20714, 20715 20487 20009, 20035, 20037, 20218, 20264, 20335,	HISENSE	20355 20218, 20455, 20610, 20714 20508, 20556, 20780, 21363 20037, 20105, 20108, 20109, 20145, 20163, 20178, 20225, 20473, 20480, 20481, 20492, 20516, 20548,
CYTRONIX D-VISION DAEWOO DAINICHI DANSAI	20093, 20145 20218 21298 20556 20009, 20037, 20218, 20374, 20556, 20634, 20865, 20880, 21307, 21909 20218 20009, 20035, 20037, 20208	EUROMAN EUROPA EUROPHON EVOLUTION EXQUISIT FENNER	20037, 20264 20037 20516 21756 20037 20009, 20374 20037, 20053, 20109, 20195, 20335, 20443, 20548, 20560, 20625, 21037 20037, 20163,	GOODING	20880, 21206, 21217, 21298 20668 20001, 20037, 20109, 20163, 20178, 20361, 20377, 20606, 20714, 20715 20487 20009, 20035, 20037, 20218, 20264, 20335, 20360, 20371,	HISENSE	20355 20218, 20455, 20610, 20714 20508, 20556, 20780, 21363 20037, 20105, 20108, 20109, 20145, 20163, 20178, 20225, 20473, 20480, 20481, 20492, 20516, 20548, 20578, 20634,
CYTRONIX D-VISION DAEWOO DAINICHI DANSAI DANSETTE	20093, 20145 20218 21298 20556 20009, 20037, 20218, 20374, 20556, 20634, 20865, 20880, 21307, 21909 20218 20009, 20035, 20037, 20208 20412	EUROMAN EUROPA EUROPHON EVOLUTION EXQUISIT FENNER FERGUSON	20037, 20264 20037 20516 21756 20037 20009, 20374 20037, 20053, 20109, 20195, 20335, 20443, 20548, 20560, 20625, 21037 20037, 20163, 20264, 20361,	GOODING	20880, 21206, 21217, 21298 20668 20001, 20037, 20109, 20163, 20178, 20361, 20377, 20606, 20714, 20715 20487 20009, 20035, 20037, 20218, 20264, 20335, 20360, 20371, 20374, 20480,	HISENSE	20355 20218, 20455, 20610, 20714 20508, 20556, 20780, 21363 20037, 20105, 20108, 20109, 20145, 20163, 20178, 20225, 20473, 20480, 20481, 20492, 20516, 20548, 20578, 20634, 20744, 20797,
CYTRONIX D-VISION DAEWOO DAINICHI DANSAI	20093, 20145 20218 21298 20556 20009, 20037, 20218, 20374, 20556, 20634, 20865, 20880, 21307, 21909 20218 20009, 20035, 20037, 20208	EUROMAN EUROPA EUROPHON EVOLUTION EXQUISIT FENNER FERGUSON	20037, 20264 20037 20516 21756 20037 20009, 20374 20037, 20053, 20109, 20195, 20335, 20443, 20548, 20560, 20625, 21037 20037, 20163,	GOODING	20880, 21206, 21217, 21298 20668 20001, 20037, 20109, 20163, 20178, 20361, 20377, 20606, 20714, 20715 20487 20009, 20035, 20037, 20218, 20264, 20335, 20360, 20371,	HISENSE	20355 20218, 20455, 20610, 20714 20508, 20556, 20780, 21363 20037, 20105, 20108, 20109, 20145, 20163, 20178, 20225, 20473, 20480, 20481, 20492, 20516, 20548, 20578, 20634,
CYTRONIX D-VISION DAEWOO DAINICHI DANSAI DANSETTE DANTAX	20093, 20145 20218 21298 20556 20009, 20037, 20218, 20374, 20556, 20634, 20865, 20880, 21307, 21909 20218 20009, 20035, 20037, 20208 20412 20714, 20715	EUROMAN EUROPA EUROPHON EVOLUTION EXQUISIT FENNER FERGUSON	20037, 20264 20037 20516 21756 20037 20099, 20374 20099, 20374 20037, 20053, 20109, 20195, 20335, 20443, 20548, 20560, 20625, 21037 20037, 20163, 20264, 20361, 20371, 20412,	GOODING	20880, 21206, 21217, 21298 20668 20001, 20037, 20109, 20163, 20178, 20361, 20377, 20606, 20714, 20715 20487 20009, 20035, 20037, 20218, 20264, 20335, 20360, 20371, 20374, 20480, 20487, 20516,	HISENSE	20355 20218, 20455, 20610, 20714 20508, 20556, 20780, 21363 20037, 20105, 20108, 20109, 20145, 20163, 20178, 20225, 20473, 20480, 20481, 20492, 20516, 20548, 20578, 20634, 20744, 20797, 21037, 21149,
CYTRONIX D-VISION DAEWOO DAINICHI DANSAI DANSETTE DANTAX DAVIS	20093, 20145 20218 21298 20556 20009, 20037, 20218, 20374, 20556, 20634, 20865, 20880, 21307, 21909 20218 20009, 20035, 20037, 20208 20412 20714, 20715 20736	EUROMAN EUROPA EUROPHON EVOLUTION EXQUISIT FENNER FERGUSON	20037, 20264 20037 20516 21756 20037 20099, 20374 20097, 20053, 20109, 20195, 20335, 20443, 20548, 20560, 20625, 21037 20037, 20163, 20264, 20361, 20371, 20412,	GOODING	20880, 21206, 21217, 21298 20668 20001, 20037, 20109, 20163, 20178, 20361, 20377, 20606, 20714, 20715 20487 20009, 20035, 20037, 20218, 20264, 20335, 20360, 20371, 20374, 20480, 20487, 20516, 20556, 20560,	HISENSE	20355 20218, 20455, 20610, 20714 20508, 20556, 20780, 21363 20037, 20105, 20108, 20109, 20145, 20163, 20178, 20225, 20473, 20480, 20481, 20492, 20516, 20548, 20578, 20634, 20744, 20797, 21037, 21149, 21194, 21576
CYTRONIX D-VISION DAEWOO DAINICHI DANSAI DANSETTE DANTAX DAVIS DAYTEK	20093, 20145 20218 21298 20556 20009, 20037, 20218, 20374, 20556, 20634, 20865, 20880, 21307, 21909 20218 20009, 20035, 20037, 20208 20412 20714, 20715 20736 21207	EUROMAN EUROPA EUROPHON EVOLUTION EXQUISIT FENNER FERGUSON	20037, 20264 20037 20516 21756 20037 20009, 20374 20037, 20053, 20109, 20195, 20335, 20443, 20548, 20560, 20625, 21037 20037, 20163, 20264, 20361, 20371, 20412, 20512 20163, 20208,	GOODING	20880, 21206, 21217, 21298 20668 20001, 20037, 20109, 20163, 20178, 20361, 20377, 20606, 20714, 20715 20487 20009, 20035, 20037, 20218, 20264, 20335, 20360, 20371, 20374, 20480, 20487, 20516, 20556, 20560, 20634, 20668,	HISENSE	20355 20218, 20455, 20610, 20714 20508, 20556, 20780, 21363 20037, 20105, 20108, 20109, 20145, 20163, 20178, 20225, 20473, 20480, 20481, 20492, 20516, 20548, 20578, 20634, 20744, 20797, 21037, 21149, 21194, 21576 AN
CYTRONIX D-VISION DAEWOO DAINICHI DANSAI DANSETTE DANTAX DAVIS	20093, 20145 20218 21298 20556 20009, 20037, 20218, 20374, 20556, 20634, 20865, 20880, 21307, 21909 20218 20009, 20035, 20037, 20208 20412 20714, 20715 20736	EUROMAN EUROPA EUROPHON EVOLUTION EXQUISIT FENNER FERGUSON	20037, 20264 20037 20516 21756 20037 20099, 20374 20097, 20053, 20109, 20195, 20335, 20443, 20548, 20560, 20625, 21037 20037, 20163, 20264, 20361, 20371, 20412,	GOODING	20880, 21206, 21217, 21298 20668 20001, 20037, 20109, 20163, 20178, 20361, 20377, 20606, 20714, 20715 20487 20009, 20035, 20037, 20218, 20264, 20335, 20360, 20371, 20374, 20480, 20487, 20516, 20556, 20560,	HISENSE	20355 20218, 20455, 20610, 20714 20508, 20556, 20780, 21363 20037, 20105, 20108, 20109, 20145, 20163, 20178, 20225, 20473, 20480, 20481, 20492, 20516, 20548, 20578, 20634, 20744, 20797, 21037, 21149, 21194, 21576
DAINICHI DANSAI DANSETTE DANTAX DAYIS DAYTEK DAYTON	20093, 20145 20218 21298 20556 20009, 20037, 20218, 20374, 20556, 20634, 20865, 20880, 21307, 21909 20218 20009, 20035, 20037, 20208 20412 20714, 20715 20736 21207 20009, 21207	EUROMAN EUROPA EUROPHON EVOLUTION EXQUISIT FENNER FERGUSON FIDELITY	20037, 20264 20037 20516 21756 20037 20009, 20374 20037, 20053, 20109, 20195, 20335, 20443, 20548, 20560, 20625, 21037 20037, 20163, 20264, 20361, 20371, 20412, 20512 20163, 20208, 20346, 20548	GOODING	20880, 21206, 21217, 21298 20668 20001, 20037, 20109, 20163, 20178, 20361, 20377, 20606, 20714, 20715 20487 20009, 20035, 20237, 20218, 20264, 20335, 20360, 20371, 20374, 20480, 20487, 20556, 20566, 20566, 20634, 20668, 20714, 20808,	HISENSE HITACHI HITACHI FUJI	20355 20218, 20455, 20610, 20714 20508, 20556, 20780, 21363 20037, 20105, 20108, 20109, 20145, 20163, 20178, 20225, 20473, 20480, 20481, 20492, 20516, 20548, 20578, 20634, 20744, 20797, 21037, 21149, 21194, 21576 AN 20108
DAINICHI DANSAI DANSETTE DANTAX DAVIS DAYTEK DAYTON DAYTRON	20093, 20145 20218 21298 20556 20009, 20037, 20218, 20374, 20556, 20634, 20865, 20880, 21307, 21909 20218 20009, 20035, 20037, 20208 20412 20714, 20715 20736 21207 20009, 21207 20374	EUROMAN EUROPA EUROPHON EVOLUTION EXQUISIT FENNER FERGUSON	20037, 20264 20037 20516 21756 20037 20009, 20374 20037, 20053, 20109, 20195, 20335, 20443, 20548, 20560, 20625, 21037 20037, 20163, 20264, 20361, 20371, 20412, 20512 20163, 20208, 20346, 20548 20037, 20105,	GOODING	20880, 21206, 21217, 21298 20668 20001, 20037, 20109, 20163, 20377, 20606, 20714, 20715 20487 20009, 20035, 20037, 20218, 20360, 20371, 20374, 20480, 20487, 20516, 20556, 20560, 20634, 20668, 20714, 20808, 20880, 21037,	HISENSE	20355 20218, 20455, 20610, 20714 20508, 20556, 20780, 21363 20037, 20105, 20108, 20109, 20145, 20163, 20178, 20225, 20473, 20480, 20481, 20492, 20516, 20548, 20578, 20634, 20744, 20797, 21037, 21149, 21194, 21576 AN 20108 20009, 20218,
DAINICHI DANSAI DANTAX DAVIS DAYTEK DAYTON DAYTRON DE GRAAF	20093, 20145 20218 21298 20556 20009, 20037, 20218, 20374, 20556, 20634, 20865, 20880, 21307, 21909 20218 20009, 20035, 20037, 20208 20412 20714, 20715 20736 21207 20009, 21207 20037, 4	EUROMAN EUROPA EUROPHON EVOLUTION EXQUISIT FENNER FERGUSON FIDELITY	20037, 20264 20037 20516 21756 20037 20009, 20374 20037, 20053, 20109, 20195, 20335, 20443, 20548, 20560, 20625, 21037 20037, 20163, 20264, 20361, 20371, 20412, 20512 20163, 20208, 20346, 20548 20037, 20105, 20346, 20411,	GOODING GOODMANS	20880, 21206, 21217, 21298 20668 20001, 20037, 20109, 20163, 20178, 20361, 20377, 20606, 20714, 20715 20487 20009, 20035, 20037, 20218, 20264, 20337, 20218, 20360, 20371, 20374, 20480, 20487, 20516, 20556, 20560, 20634, 20668, 20714, 20880, 21037, 21163, 21909	HISENSE HITACHI HITACHI FUJI HITSU	20355 20218, 20455, 20610, 20714 20508, 20556, 20780, 21363 20037, 20105, 20108, 20109, 20145, 20163, 20178, 20225, 20473, 20480, 20481, 20492, 20516, 20548, 20578, 20634, 20744, 20797, 21194, 21576 AN 20108 20009, 20218, 20455, 20610
DAINICHI DANSAI DANSETTE DANTAX DAVIS DAYTEK DAYTON DAYTRON	20093, 20145 20218 21298 20556 20009, 20037, 20218, 20374, 20556, 20634, 20865, 20880, 21307, 21909 20218 20009, 20035, 20037, 20208 20412 20714, 20715 20736 21207 20009, 21207 20374	EUROMAN EUROPA EUROPHON EVOLUTION EXQUISIT FENNER FERGUSON FIDELITY	20037, 20264 20037 20516 21756 20037 20009, 20374 20037, 20053, 20109, 20195, 20335, 20443, 20548, 20560, 20625, 21037 20037, 20163, 20264, 20361, 20371, 20412, 20512 20163, 20208, 20346, 20548 20037, 20105,	GOODING	20880, 21206, 21217, 21298 20668 20001, 20037, 20109, 20163, 20377, 20606, 20714, 20715 20487 20009, 20035, 20037, 20218, 20360, 20371, 20374, 20480, 20487, 20516, 20556, 20560, 20634, 20668, 20714, 20808, 20880, 21037,	HISENSE HITACHI HITACHI FUJI	20355 20218, 20455, 20610, 20714 20508, 20556, 20780, 21363 20037, 20105, 20108, 20109, 20145, 20163, 20178, 20225, 20473, 20480, 20481, 20492, 20516, 20548, 20578, 20634, 20744, 20797, 21037, 21149, 21194, 21576 AN 20108 20009, 20218,
DAINICHI DANSAI DANSETTE DANTAX DAYTEK DAYTON DAYTRON DE GRAAF DECCA	20093, 20145 20218 21298 20556 20009, 20037, 20218, 20374, 20556, 20634, 20865, 20880, 21307, 21909 20218 20009, 20035, 20037, 20208 20412 20714, 20715 20736 21207 20009, 21207 20374 20208, 20548 20037, 20516	EUROMAN EUROPA EUROPHON EVOLUTION EXQUISIT FENNER FERGUSON FIDELITY	20037, 20264 20037 20516 21756 20037 20009, 20374 20037, 20053, 20109, 20195, 20335, 20443, 20548, 20560, 20625, 21037 20037, 20163, 20264, 20361, 20371, 20412, 20512 20163, 20208, 20346, 20548 20037, 20105, 20346, 20411, 20473, 20480,	GOODING GOODMANS	20880, 21206, 21217, 21298 20668 20001, 20037, 20109, 20163, 20178, 20361, 20377, 20606, 20714, 20715 20487 20009, 20035, 20377, 20218, 20264, 20337, 20218, 20374, 20480, 20487, 20516, 20556, 20560, 20634, 20668, 20714, 20880, 21037, 21163, 21909 20370	HISENSE HITACHI HITACHI FUJI HITSU HOEHER	20355 20218, 20455, 20610, 20714 20508, 20556, 20780, 21363 20037, 20105, 20108, 20178, 20225, 20473, 20480, 20481, 20492, 20516, 20578, 20634, 20744, 20797, 21037, 21149, 21596 AN 20108 20009, 20218, 20455, 20610 20714, 20865
DAINICHI DANSAI DANSETTE DANTAX DAVIS DAYTEK DAYTON DAYTRON DE GRAAF DECCA DENKO	20093, 20145 20218 21298 20556 20009, 20037, 20218, 20374, 20556, 20634, 20865, 20880, 21307, 21909 20218 20009, 20035, 20037, 20208 20412 20714, 20715 20736 21207 20009, 21207 20009, 21207 20009, 21207 20374 20208, 20548 20037, 20516 20264	EUROMAN EUROPA EUROPHON EVOLUTION EXQUISIT FENNER FERGUSON FIDELITY	20037, 20264 20037 20516 21756 20037 20099, 20374 20037, 20053, 20109, 20195, 20335, 20443, 20548, 20560, 20625, 21037 20037, 20163, 20264, 20361, 20371, 20412, 20512 20163, 20208, 20346, 20548 200346, 20548 20346, 20411, 20473, 20480, 20492, 20516,	GOODING GOODMANS GORENJE GPM	20880, 21206, 21217, 21298 20668 20001, 20037, 20109, 20163, 20178, 20361, 20377, 20606, 20714, 20715 20487 20009, 20035, 20037, 20218, 20264, 20335, 20360, 20371, 20374, 20480, 20487, 20516, 20556, 20560, 20634, 20668, 20714, 20880, 21037, 21163, 21909 20370 20218	HISENSE HITACHI HITACHI FUJI HITSU	20355 20218, 20455, 20610, 20714, 20508, 20556, 20780, 21363, 20037, 20105, 20108, 20109, 20145, 20163, 20178, 20225, 20473, 20481, 20492, 20516, 20548, 20744, 20797, 21037, 21149, 21194, 21576 AN 20108 20009, 20218, 20455, 206610, 20714, 20865 RONICS
DAINICHI DANSAI DANSETTE DANTAX DAVIS DAYTEK DAYTON DE GRAAF DECCA DENKO DENON	20093, 20145 20218 21298 20556 20009, 20037, 20218, 20374, 20556, 20634, 20865, 20880, 21307, 21909 20218 20009, 20035, 20037, 20208 20412 20714, 20715 20736 21207 20009, 21207 20374 20208, 20548 20037, 20516 20264 20145, 20511	EUROMAN EUROPA EUROPHON EVOLUTION EXQUISIT FENNER FERGUSON FIDELITY	20037, 20264 20037 20516 21756 20037 20099, 20374 20037, 20053, 20109, 20195, 20335, 20443, 20548, 20560, 20625, 21037 20037, 20163, 20264, 20361, 20371, 20412, 20512 20163, 20208, 20346, 20548 20037, 20105, 20346, 20411, 20473, 20480, 20492, 20516, 20631, 20714,	GOODING GOODMANS GORENJE GPM GRADIENTE	20880, 21206, 21217, 21298 20668 20001, 20037, 20109, 20163, 20178, 20361, 20377, 20606, 20714, 20715 20487 20009, 20035, 20037, 20218, 20264, 20335, 20360, 20371, 20374, 20480, 20487, 20556, 20560, 20634, 2068, 20714, 20808, 20800, 21037, 21163, 21909 20370 20218 20053, 20170	HISENSE HITACHI HITACHI FUJI HITSU HOEHER HOME ELECT	20355 20218, 20455, 20610, 20714 20508, 20556, 20780, 21363 20037, 20105, 20108, 20109, 20145, 20163, 20178, 20225, 20473, 20481, 20492, 20516, 20548, 20578, 20634, 20744, 20797, 21037, 21149, 21194, 21576 AN 20108 20009, 20218, 20455, 20610 20714, 20865 RONICS 20606
DAINICHI DANSAI DANSETTE DANTAX DAVIS DAYTEK DAYTON DAYTRON DE GRAAF DECCA DENKO	20093, 20145 20218 21298 20556 20009, 20037, 20218, 20374, 20556, 20634, 20865, 20880, 21307, 21909 20218 20009, 20035, 20037, 20208 20412 20714, 20715 20736 21207 20009, 21207 20009, 21207 20009, 21207 20374 20208, 20548 20037, 20516 20264	EUROMAN EUROPA EUROPHON EVOLUTION EXQUISIT FENNER FERGUSON FIDELITY	20037, 20264 20037 20516 21756 20037 20099, 20374 20037, 20053, 20109, 20195, 20335, 20443, 20548, 20560, 20625, 21037 20037, 20163, 20264, 20361, 20371, 20412, 20512 20163, 20208, 20346, 20548 200346, 20548 20346, 20411, 20473, 20480, 20492, 20516,	GOODING GOODMANS GORENJE GPM	20880, 21206, 21217, 21298 20668 20001, 20037, 20109, 20163, 20178, 20361, 20377, 20606, 20714, 20715 20487 20009, 20035, 20037, 20218, 20264, 20335, 20360, 20371, 20374, 20480, 20487, 20516, 20556, 20560, 20634, 20668, 20714, 20880, 21037, 21163, 21909 20370 20218	HISENSE HITACHI HITACHI FUJI HITSU HOEHER	20355 20218, 20455, 20610, 20714 20508, 20556, 20780, 21363 20037, 20105, 20108, 20109, 20145, 20163, 20178, 20225, 20473, 20481, 20492, 20516, 20548, 20578, 20634, 20744, 20797, 21037, 21149, 21194, 21576 AN 20108 20009, 20218, 20455, 20610 20714, 20865 RONICS 20606
DAINICHI DANSAI DANSETTE DANTAX DAVIS DAYTEK DAYTON DE GRAAF DECCA DENKO DENON	20093, 20145 20218 21298 20556 20009, 20037, 20218, 20374, 20556, 20634, 20865, 20880, 21307, 21909 20218 20009, 20035, 20037, 20208 20412 20714, 20715 20736 21207 20009, 21207 20374 20208, 20548 20037, 20516 20264 20145, 20511 20037, 20587,	EUROMAN EUROPA EUROPHON EVOLUTION EXQUISIT FENNER FERGUSON FIDELITY	20037, 20264 20037 20516 21756 20037 20099, 20374 20037, 20053, 20109, 20195, 20335, 20443, 20548, 20560, 20625, 21037 20037, 20163, 20264, 20361, 20371, 20412, 20512 20163, 20208, 20346, 20548 20037, 20105, 20346, 20411, 20473, 20480, 20492, 20516, 20631, 20714,	GOODING GOODMANS GORENJE GPM GRADIENTE	20880, 21206, 21217, 21298 20668 20001, 20037, 20109, 20163, 20377, 20606, 20714, 20715 20487 20009, 20035, 20037, 20218, 20264, 20335, 20360, 20371, 20374, 20480, 20487, 20556, 20566, 20634, 2068, 20714, 20808, 2080, 21037, 21163, 21909 20370 20218 20053, 20170 20163, 20361,	HISENSE HITACHI HITACHI FUJI HITSU HOEHER HOME ELECT	20355 20218, 20455, 20610, 20714 20508, 20556, 20780, 21363 20037, 20105, 20108, 20109, 20145, 20163, 20178, 20255, 20473, 20480, 20481, 20492, 20516, 20548, 20578, 20634, 20744, 20797, 21037, 21149, 21576 AN 20108 20009, 20218, 20455, 20610 20714, 20865 RONICS 20606 20037
DAINICHI DANSAI DANSETTE DANTAX DAYIS DAYTEK DAYTON DAYTRON DE GRAAF DECCA DENKO DENVER	20093, 20145 20218 21298 20556 20009, 20037, 20218, 20374, 20556, 20634, 20865, 20880, 21307, 21909 20218 20009, 20035, 20037, 20208 20412 20714, 20715 20736 21207 20009, 21207 20374 20208, 20548 20037, 20516 20264 20145, 20511 20037, 20587, 21189	EUROMAN EUROPA EUROPHON EVOLUTION EXQUISIT FENNER FERGUSON FIDELITY	20037, 20264 20037 20516 21756 20037 20099, 20374 20037, 20053, 20109, 20195, 20335, 20443, 20548, 20560, 20625, 21037 20037, 20163, 20264, 20361, 20371, 20412, 20512 20163, 20208, 20346, 20548 20037, 20105, 20346, 20411, 20473, 20480, 20492, 20516, 20631, 20714,	GOODING GOODMANS GORENJE GPM GRADIENTE	20880, 21206, 21217, 21298 20668 20001, 20037, 20109, 20163, 20178, 20361, 20377, 20606, 20714, 20715 20487 20009, 20035, 20037, 20218, 20264, 20335, 20360, 20371, 20374, 20480, 20487, 20516, 20556, 20560, 20634, 20668, 20714, 20880, 21037, 21163, 21909 20370 20218 20053, 20170 20163, 20361, 20371, 20487,	HITACHI FUJI HITSU HOEHER HOME ELECT HORNYPHON HUANYU	20355 20218, 20455, 20610, 20714 20508, 20556, 20780, 21363 20037, 20105, 20108, 20109, 20145, 20163, 20178, 20225, 20473, 20480, 20516, 20548, 20578, 20634, 20744, 20797, 21037, 21149, 21194, 21576 AN 20108 20009, 20218, 20455, 20610 20714, 20865 RONICS 20606 20037 20374
DAINICHI DANSAI DANSETTE DANTAX DAVIS DAYTEK DAYTON DE GRAAF DECCA DENKO DENON	20093, 20145 20218 21298 20556 20009, 20037, 20218, 20374, 20556, 20634, 20865, 20880, 21307, 21909 20218 20009, 20035, 20037, 20208 20412 20714, 20715 20736 21207 20009, 21207 20374 20208, 20548 20037, 20516 20264 20145, 20511 20037, 20587,	EUROMAN EUROPA EUROPHON EVOLUTION EXQUISIT FENNER FERGUSON FIDELITY	20037, 20264 20037 20516 21756 20037 20099, 20374 20037, 20053, 20109, 20195, 20335, 20443, 20548, 20560, 20625, 21037 20037, 20163, 20264, 20361, 20371, 20412, 20512 20163, 20208, 20346, 20548 20037, 20105, 20346, 20411, 20473, 20480, 20492, 20516, 20631, 20714,	GOODING GOODMANS GORENJE GPM GRADIENTE	20880, 21206, 21217, 21298 20668 20001, 20037, 20109, 20163, 20377, 20606, 20714, 20715 20487 20009, 20035, 20037, 20218, 20264, 20335, 20360, 20371, 20374, 20480, 20487, 20556, 20566, 20634, 2068, 20714, 20808, 2080, 21037, 21163, 21909 20370 20218 20053, 20170 20163, 20361,	HISENSE HITACHI HITACHI FUJI HITSU HOEHER HOME ELECT	20355 20218, 20455, 20610, 20714 20508, 20556, 20780, 21363 20037, 20105, 20108, 20109, 20145, 20163, 20178, 20225, 20473, 20480, 20481, 20492, 20516, 20548, 20578, 20634, 20744, 20797, 21037, 21149, 21576 AN 20108 20108 20009, 20218, 20455, 20610 20714, 20865 RONICS 20606 20037
DAINICHI DANSAI DANSETTE DANTAX DAYIS DAYTEK DAYTON DAYTRON DE GRAAF DECCA DENKO DENVER	20093, 20145 20218 21298 20556 20009, 20037, 20218, 20374, 20556, 20634, 20865, 20880, 21307, 21909 20218 20009, 20035, 20037, 20208 20412 20714, 20715 20736 21207 20009, 21207 20374 20208, 20548 20037, 20516 20264 20145, 20511 20037, 20587, 21189 20009, 20037	EUROMAN EUROPA EUROPHON EVOLUTION EXQUISIT FENNER FERGUSON FIDELITY	20037, 20264 20037 20516 21756 20037 20099, 20374 20037, 20053, 20109, 20195, 20335, 20443, 20548, 20560, 20625, 21037 20037, 20163, 20264, 20361, 20371, 20412, 20512 20163, 20208, 20346, 20548 20037, 20105, 20346, 20411, 20473, 20480, 20492, 20516, 20631, 20714,	GOODING GOODMANS GORENJE GPM GRADIENTE	20880, 21206, 21217, 21298 20668 20001, 20037, 20109, 20163, 20178, 20361, 20377, 20606, 20714, 20715 20487 20009, 20035, 20037, 20218, 20264, 20335, 20360, 20371, 20374, 20480, 20487, 20516, 20556, 20560, 20634, 20668, 20714, 20880, 21037, 21163, 21909 20370 20218 20053, 20170 20163, 20361, 20371, 20487,	HISENSE HITACHI HITACHI FUJI HITSU HOEHER HOME ELECT HORNYPHON HUANYU HUGOSON	20355 20218, 20455, 20610, 20714 20508, 20556, 20780, 21363 20037, 20105, 20108, 20109, 20145, 20163, 20178, 20225, 20473, 20480, 20516, 20548, 20578, 20634, 20744, 20797, 21037, 21194, 21576 AN 20108 20009, 20218, 20455, 20610 20714, 20865 RONICS 20606 20037 20374 20890, 21217
DAINICHI DANSAI DANSETTE DANTAX DAVIS DAYTEK DAYTON DAYTRON DE GRAAF DECCA DENKO DENON DENVER DESMET DIAMANT	20093, 20145 20218 21298 20556 20009, 20037, 20218, 20374, 20556, 20634, 20865, 20880, 21307, 21909 20218 20009, 20035, 20037, 20208 20412 20714, 20715 20736 21207 20009, 21207 20374 20208, 20548 20037, 20516 20264 20145, 20511 20037, 20587, 21189 20009, 20037 20037	EUROMAN EUROPA EUROPHON EVOLUTION EXQUISIT FENNER FERGUSON FIDELITY	20037, 20264 20037 20516 21756 20037 20099, 20374 20037, 20053, 20109, 20195, 20335, 20443, 20548, 20560, 20625, 21037 20037, 20163, 20264, 20361, 20371, 20412, 20512 20163, 20208, 20346, 20548 20037, 20105, 20346, 20411, 20473, 20480, 20492, 20516, 20631, 20714,	GOODING GOODMANS GORENJE GPM GRADIENTE	20880, 21206, 21217, 21298 20668 20001, 20037, 20109, 20163, 20178, 20361, 20377, 20606, 20714, 20715 20487 20009, 20035, 20037, 20218, 20264, 20335, 20360, 20371, 20374, 20480, 20487, 20516, 20556, 20560, 20634, 20668, 20714, 20880, 21037, 21163, 21909 20370 20218 20053, 20170 20163, 20361, 20371, 20487,	HISENSE HITACHI HITACHI FUJI HITSU HOEHER HOME ELECT HORNYPHON HUANYU HUGOSON HUMAX	20355 20218, 20455, 20610, 20714 20508, 20556, 20780, 21363 20037, 20105, 20108, 20108, 20178, 20225, 20473, 20480, 20516, 20516, 20548, 20578, 20634, 20744, 20797, 21037, 21149, 21576 AN 20108 20009, 20218, 20455, 20610 20714, 20865 RONICS 20606 20037 20374 20890, 21217 21295
DAINICHI DANSAI DANSETTE DANTAX DAVIS DAYTEK DAYTON DE GRAAF DECCA DENKO DENON DENVER DESMET	20093, 20145 20218 21298 20556 20009, 20037, 20218, 20374, 20556, 20634, 20865, 20880, 21307, 21909 20218 20009, 20035, 20037, 20208 20412 20714, 20715 20736 21207 20009, 21207 20374 20208, 20548 20037, 20516 20264 20145, 20511 20037, 20587, 21189 20009, 20037	EUROMAN EUROPA EUROPHON EVOLUTION EXQUISIT FENNER FERGUSON FIDELITY	20037, 20264 20037 20516 21756 20037 20099, 20374 20037, 20053, 20109, 20195, 20335, 20443, 20548, 20560, 20625, 21037 20037, 20163, 20264, 20361, 20371, 20412, 20512 20163, 20208, 20346, 20548 20037, 20105, 20346, 20411, 20473, 20480, 20492, 20516, 20631, 20714,	GOODING GOODMANS GORENJE GPM GRADIENTE	20880, 21206, 21217, 21298 20668 20001, 20037, 20109, 20163, 20178, 20361, 20377, 20606, 20714, 20715 20487 20009, 20035, 20037, 20218, 20264, 20335, 20360, 20371, 20374, 20480, 20487, 20516, 20556, 20560, 20634, 20668, 20714, 20880, 21037, 21163, 21909 20370 20218 20053, 20170 20163, 20361, 20371, 20487,	HISENSE HITACHI HITACHI FUJI HITSU HOEHER HOME ELECT HORNYPHON HUANYU HUGOSON	20355 20218, 20455, 20610, 20714 20508, 20556, 20780, 21363 20037, 20105, 20108, 20109, 20145, 20163, 20178, 20225, 20473, 20480, 20516, 20548, 20578, 20634, 20744, 20797, 21037, 21194, 21576 AN 20108 20009, 20218, 20455, 20610 20714, 20865 RONICS 20606 20037 20374 20890, 21217

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PRANDONI-P PRIMA PRINSTON PRINZ PROFEX PROFI	20037, 20487, 20698 RINCE 20361, 20516 20264, 20412 21037 20361 20009, 20163, 20361 20009 20037 20037, 20411,	SAISHO SAIVOD SAKAI SALORA SALSA SAMBERS	20830, 21313 20009, 20264, 20516 20037, 20668, 20712, 21037, 21163, 21982 20163 20163, 20208, 20361, 20480, 20516, 20548, 20631 20335 20516	SIESTA SILVA SILVA SCHNE SILVER SILVERCREST SINGER SINOTEC SINUDYNE SKY SKYSONIC	20556 20370 20037, 20361 IDER 20037 20361, 20715 21037 20009, 20335, 20433, 20435 20773 20516 20037, 20880 20696	TARGA TASHIKO TATUNG TCM	20218 21307 20163 20037, 20516, 21756 20714, 20808 20009, 20037, 20170, 20178, 20264, 20412, 20418, 20455, 20512, 20668, 20698, 20712, 21037, 21149,
PRANDONI-P PRIMA PRINSTON PRINZ PROFEX PROFI PROFITRONIC	20037, 20487, 20698 RINCE 20361, 20516 20264, 20412 21037 20361 20009, 20163, 20361 20009 20037 20037, 20411, 20625, 20634,	SAISHO SAIVOD SAKAI SALORA SALSA SAMBERS SAMPO	20830, 21313 20009, 20264, 20516 20037, 20668, 20712, 21037, 21163, 21982 20163 20163, 20208, 20361, 20480, 20516, 20548, 20631 20335 20516 21755	SIESTA SILVA SILVA SCHNE SILVER SILVERCREST SINGER SINOTEC SINUDYNE SKY	20556 20370 20037, 20361 IDER 20037 20361, 20715 21037 20009, 20335, 20433, 20435 20773 20516 20037, 20880 20696 20865, 20880,	TARGA TASHIKO TATUNG TCM TEAC	20218 21307 20163 20037, 20516, 21756 20714, 20808 20009, 20037, 20170, 20178, 20264, 20412, 20418, 20455, 20512, 20668, 20698, 20712, 21037, 21149, 21755, 21909
PRANDONI-P PRIMA PRINSTON PRINZ PROFEX PROFI PROFITRONIC	20037, 20487, 20698 RINCE 20361, 20516 20264, 20412 21037 20361 20009, 20163, 20361 20009 20037 20037 20037, 20411, 20625, 20634, 21037	SAISHO SAIVOD SAKAI SALORA SALSA SAMBERS	20830, 21313 20009, 20264, 20516 20037, 20668, 20712, 21037, 21163, 21982 20163 20163, 20208, 20361, 20480, 20516, 20548, 20631 20335 20516 21755 20009, 20037,	SIESTA SILVA SILVA SCHNE SILVER SILVERCREST SINGER SINOTEC SINUDYNE SKY SKYSONIC	20556 20370 20037, 20361 IDER 20037 20361, 20715 21037 20009, 20335, 20433, 20435 20773 20516 20037, 20880 20696 20865, 20880, 21318, 21374,	TARGA TASHIKO TATUNG TCM TEAC	20218 21307 20163 20037, 20516, 21756 20714, 20808 20009, 20037, 20170, 20178, 20264, 20412, 20418, 20455, 20512, 20668, 20712, 21037, 21149, 21755, 21909 20009, 20037
PRANDONI-P PRIMA PRINSTON PRINZ PROFEX PROFI PROFITRONIC	20037, 20487, 20698 RINCE 20361, 20516 20264, 20412 21037 20361 20009, 20163, 20361 20009 20037 20037, 20411, 20625, 20634, 21037 20037, 20668,	SAISHO SAIVOD SAKAI SALORA SALSA SAMBERS SAMPO	20830, 21313 20009, 20264, 20516 20037, 20668, 20712, 21037, 21163, 21982 20163 20163, 20208, 20361, 20480, 20516, 20548, 20631 20335 20516 21755 20009, 20037, 20060, 20163,	SIESTA SILVA SILVA SCHNE SILVER CREST SINGER SINOTEC SINUDYNE SKY SKYSONIC SLIDING	20556 20370 20037, 20361 IDER 20037 20361, 20715 21037 20009, 20335, 20433, 20435 20773 20516 20037, 20880 20696 20865, 20880, 21318, 21374,	TARGA TASHIKO TATUNG TCM TEAC TEC TECH LINE	20218 21307 20163 20037, 20516, 21756 20714, 20808 20009, 20037, 20170, 20178, 20264, 20412, 20418, 20455, 20512, 20668, 20698, 20712, 21037, 21149, 21755, 21909 20009, 20037, 20668
PRANDONI-P PRIMA PRINSTON PRINZ PROFEX PROFI PROFITRONIC	20037, 20487, 20698 RINCE 20361, 20516 20264, 20412 21037 20361 20009, 20163, 20361 20009 20037 20037 20037, 20411, 20625, 20634, 21037	SAISHO SAIVOD SAKAI SALORA SALSA SAMBERS SAMPO	20830, 21313 20009, 20264, 20516 20037, 20668, 20712, 21037, 21163, 21982 20163 20163, 20208, 20361, 20480, 20516, 20548, 20631 20335 20516 21755 20009, 20037,	SIESTA SILVA SILVA SCHNE SILVER SILVERCREST SINGER SINOTEC SINUDYNE SKY SKYSONIC	20556 20370 20037, 20361 IDER 20037 20361, 20715 21037 20009, 20335, 20433, 20435 20773 20516 20037, 20880 20696 20865, 20880, 21318, 21374,	TARGA TASHIKO TATUNG TCM TEAC	20218 21307 20163 20037, 20516, 21756 20714, 20808 20009, 20037, 20170, 20178, 20264, 20412, 20418, 20455, 20512, 20668, 20712, 21037, 21149, 21755, 21909 20009, 20037
PRANDONI-P PRIMA PRINSTON PRINZ PROFEX PROFI PROFITRONIC	20037, 20487, 20698 RINCE 20361, 20516 20264, 20412 21037 20361 20009, 20163, 20361 20009 20037 20037, 20411, 20625, 20634, 21037 20037, 20668, 20714	SAISHO SAIVOD SAKAI SALORA SALSA SAMBERS SAMPO	20830, 21313 20009, 20264, 20516 20037, 20668, 20712, 21037, 21163, 21982 20163 20163, 20208, 20361, 20480, 20516, 20548, 20631 20335 20516 21755 20009, 20037, 20060, 20163, 20178, 20208,	SIESTA SILVA SILVA SCHNE SILVER CREST SINGER SINOTEC SINUDYNE SKY SKYSONIC SLIDING	20556 20370 20037, 20361 IDER 20037 20361, 20715 21037 20009, 20335, 20433, 20435 20773 20516 20037, 20880 20696 20865, 20880, 21318, 21374, 21388 20668	TARGA TASHIKO TATUNG TCM TEAC TEC TECH LINE	20218 21307 20163 20037, 20516, 21756 20714, 20808 20009, 20037, 20170, 20178, 20264, 20412, 20418, 20455, 20512, 20668, 20698, 20712, 21037, 21149, 21755, 21909 20009, 20037, 20668
PRANDONI-P PRIMA PRINSTON PRINZ PROFEX PROFI PROFITRONIC PROLINE	20037, 20487, 20698 RINCE 20361, 20516 20264, 20412 21037 20361 20009, 20163, 20361 20009 20037, 20411, 20625, 20634, 21037 20037, 20668, 20714 20009, 20037,	SAISHO SAIVOD SAKAI SALORA SALSA SAMBERS SAMPO	20830, 21313 20009, 20264, 20516 20037, 20668, 20712, 21037, 21163, 21982 20163 20163, 20208, 20361, 20480, 20516, 20548, 20631 20335 20516 21755 20009, 20037, 20060, 20163, 20178, 20208, 20264, 20370,	SIESTA SILVA SILVA SCHNE SILVER CREST SINGER SINOTEC SINUDYNE SKY SKYSONIC SLIDING	20556 20370 20037, 20361 IDER 20037 20361, 20715 21037 20009, 20335, 20433, 20435 20773 20516 20037, 20880 20696 20865, 20880, 21318, 21374, 21388 20668 20487	TARGA TASHIKO TATUNG TCM TEAC TEC TECH LINE TECHNICS	20218 21307 20163 20037, 20516, 21756 20714, 20808 20009, 20037, 20170, 20178, 20264, 20412, 20418, 20455, 20512, 20668, 20698, 20712, 21037, 21149, 21755, 21909 20009, 20037 20037, 20668 20250, 20556, 20650
PRANDONI-P PRIMA PRINSTON PRINZ PROFEX PROFI PROFITRONIC PROLINE	20037, 20487, 20698 RINCE 20361, 20516 20264, 20412 21037 20361 20009, 20163, 20361 20009 20037, 20411, 20625, 20634, 21037 20037, 20668, 20714 20009, 20037, 2064, 20418,	SAISHO SAIVOD SAKAI SALORA SALSA SAMBERS SAMPO	20830, 21313 20009, 20264, 20516 20037, 20668, 20712, 21037, 21163, 21982 20163 20163, 20208, 20361, 20480, 20516, 20548, 20631 20335 20516 21755 20009, 20037, 20060, 20163, 20178, 20208, 20264, 20370, 20482, 20556,	SIESTA SILVA SILVA SCHNE SILVER CREST SINOTEC SINOTEC SINUDYNE SKY SKYSONIC SLIDING SLX SMARAGD SOEMTRON	20556 20370 20037, 20361 IDER 20037 20361, 20715 21037 20009, 20335, 20433, 20435 20773 20516 20037, 20880 20696 20865, 20880, 21318, 21374, 21388 20668 20487 20865, 21298	TARGA TASHIKO TATUNG TCM TEAC TEC TECH LINE TECHNICS TECHNISAT	20218 21307 20163 20037, 20516, 21756 20714, 20808 20009, 20037, 20170, 20178, 20264, 20412, 20418, 20455, 20512, 20668, 20698, 20712, 21037, 21149, 21755, 21909 20009, 20037 20037, 20668 20250, 20556, 20650
PRANDONI-P PRIMA PRINSTON PRINZ PROFEX PROFI PROFITRONIC PROLINE	20037, 20487, 20698 RINCE 20361, 20516 20264, 20412 21037 20361 20009, 20163, 20361 20009 20037, 20411, 20625, 20634, 21037 20037, 2048, 20714 20009, 20037, 20668, 20714 20009, 20037, 20668, 20714 20009, 20037, 20668, 20714 20009, 20037, 20668, 20714 20009, 20037, 20668, 20714 20009, 20037, 20668, 20714 20009, 20037, 20668, 20714	SAISHO SAIVOD SAKAI SALORA SALSA SAMBERS SAMPO	20830, 21313 20009, 20264, 20516 20037, 20668, 20712, 21037, 21163, 21982 20163 20163, 20208, 20361, 20480, 20516, 20548, 20631 20335 20516 21755 20009, 20037, 2060, 20163, 20178, 20208, 20264, 20370, 20482, 20556, 20587, 20618,	SIESTA SILVA SILVA SCHNE SILVER CREST SINGER SINOTEC SINUDYNE SKY SKYSONIC SLIDING	20556 20370 20037, 20361 IDER 20037 20361, 20715 21037 20009, 20335, 20433, 20435 20773 20516 20037, 20880 20696 20865, 20880, 21318, 21374, 21388 20668 20487 20865, 21298 20037, 20163,	TARGA TASHIKO TATUNG TCM TEAC TEC TECH LINE TECHNICS TECHNISAT TECHNISSON	20218 21307 20163 20037, 20516, 21756 20714, 20808 20009, 20037, 20170, 20178, 20264, 20412, 20418, 20455, 20512, 20668, 20698, 20712, 21037, 21149, 21755, 21909 20009, 20037 20037, 20668 20250, 20556, 20650 20556
PRANDONI-P PRIMA PRINSTON PRINZ PROFEX PROFI PROFITRONIC PROLINE PROSONIC PROTECH	20037, 20487, 20698 RINCE 20361, 20516 20264, 20412 21037 20361 20009, 20163, 20361 20009 20037 20037, 20411, 20625, 20634, 21037 20037, 20668, 20714 20009, 20037, 2064, 20418, 20486, 20668, 21037	SAISHO SAIVOD SAKAI SALORA SALSA SAMBERS SAMPO SAMSUNG	20830, 21313 20009, 20264, 20516 20037, 20668, 20712, 21037, 21163, 21982 20163 20163, 20208, 20361, 20480, 20516, 20548, 20631 20335 20516 21755 20009, 20037, 2060, 20163, 20178, 20028, 20264, 20370, 20482, 20556, 20587, 20618,	SIESTA SILVA SILVA SCHNE SILVER SILVERCREST SINOTEC SINUDYNE SKY SKYSONIC SLIDING SLX SMARAGD SOEMTRON SOLAVOX	20556 20370 20037, 20361 IDER 20037 20361, 20715 21037 20009, 20335, 20433, 20435 20773 20516 20037, 20880 20696 20865, 20880, 21318, 21374, 21388 20668 20487 20865, 21298 20037, 20163, 20361, 20548	TARGA TASHIKO TATUNG TCM TEAC TEC TECH LINE TECHNICS TECHNISAT	20218 21307 20163 20037, 20516, 21756 20714, 20808 20009, 20037, 20170, 20178, 20264, 20412, 20418, 20455, 20512, 20668, 20712, 21037, 21149, 21755, 21909 20009, 20037 20037, 20668 20250, 20556, 20658 20714
PRANDONI-P PRIMA PRINSTON PRINZ PROFEX PROFI PROFITRONIC PROLINE PROSONIC PROTECH	20037, 20487, 20698 RINCE 20361, 20516 20264, 20412 21037 20361 20009, 20163, 20361 20009 20037, 20411, 20625, 20634, 21037 20037, 20668, 20714 20009, 20037, 20668, 20714 20046, 20468, 20486, 20668, 21037 20178	SAISHO SAIVOD SAKAI SALORA SALSA SAMBERS SAMPO	20830, 21313 20009, 20264, 20516 20037, 20668, 20712, 21037, 21163, 21982 20163 20163, 20208, 20361, 20480, 20516, 20548, 20631 20335 20516 21755 20009, 20037, 20060, 20163, 20178, 20208, 20264, 20370, 20482, 20556, 20587, 20618, 20644	SIESTA SILVA SILVA SCHNE SILVER CREST SINGER SINOTEC SINUDYNE SKY SKYSONIC SLIDING SLX SMARAGD SOEMTRON SOLAVOX	20556 20370 20037, 20361 IDER 20037 20361, 20715 21037 20009, 20335, 20433, 20435 20773 20516 20037, 2080 20696 20865, 20880, 21318, 21374, 21388 20668 20487 20865, 21298 20037, 20163, 20361, 20548 20218	TARGA TASHIKO TATUNG TCM TEAC TEC TECH LINE TECHNICS TECHNISAT TECHNISSON TECHNOSONIO	20218 21307 20163 20037, 20516, 21756 207114, 20808 20009, 20037, 20170, 20178, 20264, 20412, 20418, 20455, 20512, 20668, 20712, 21037, 21149, 21755, 21909 20009, 20037, 2068 20250, 20556, 20650 20556 20714 C
PRANDONI-P PRIMA PRINSTON PRINZ PROFEX PROFI PROFITRONIC PROLINE PROSONIC PROTECH	20037, 20487, 20698 RINCE 20361, 20516 20264, 20412 21037 20361 20009, 20163, 20361 20009 20037, 20411, 20625, 20634, 21037 20037, 20668, 20714 20009, 20037, 20668, 20714 20009, 20037, 20668, 20714 200486, 20668, 2018 20178 20037, 20556,	SAISHO SAIVOD SAKAI SALORA SALSA SAMBERS SAMPO SAMSUNG	20830, 21313 20009, 20264, 20516 20037, 20668, 20712, 21037, 21163, 21982 20163 20163, 20208, 20361, 20480, 20516, 20548, 20335 20516 21755 20009, 20037, 20060, 20163, 20178, 20208, 20264, 20370, 20482, 20556, 20587, 20618, 20644 20037, 20727, 20729, 20861	SIESTA SILVA SILVA SCHNE SILVER CREST SINGER SINOTEC SINUDYNE SKY SKYSONIC SLIDING SLX SMARAGD SOEMTRON SOLAVOX	20556 20370 20037, 20361 IDER 20037 20361, 20715 21037 20009, 20335, 20433, 20435 20773 20516 20037, 2080 20696 20865, 20880, 21318, 21374, 21388 20668 20487 20865, 21298 20037, 20163, 20361, 20548 20218 20037	TARGA TASHIKO TATUNG TCM TEAC TEC TECH LINE TECHNICS TECHNISAT TECHNISSON TECHNOSONIC	20218 21307 20163 20037, 20516, 21756 20714, 20808 20009, 20037, 20170, 20178, 20264, 20412, 20418, 20455, 20512, 20668, 20698, 20712, 21037, 21149, 21755, 21909, 20037, 20037, 20668 20250, 20556, 20650 20556 20714 CC 20556 21163
PRANDONI-P PRIMA PRINSTON PRINZ PROFEX PROFI PROFITRONIC PROLINE PROSONIC PROTECH PROTON PROVISION	20037, 20487, 20698 RINCE 20361, 20516 20264, 20412 21037 20361 20009, 20163, 20361 20009 2 20037, 20411, 20625, 20634, 21037 20037, 20668, 20714 20009, 20037, 20668, 20714 20486, 20668, 21037 20178 20037, 20556, 20714	SAISHO SAIVOD SAKAI SALORA SALSA SAMBERS SAMPO SAMSUNG SANSUI SANTON	20830, 21313 20009, 20264, 20516 20037, 20668, 20712, 21037, 21163, 21982 20163 20163, 20208, 20361, 20480, 20516, 20548, 20631 20335 20516 21755 20009, 20037, 20060, 20163, 20178, 20208, 20264, 20370, 20482, 20556, 20587, 20618, 20644 20037, 20727, 20729, 20861 20009	SIESTA SILVA SILVA SCHNE SILVER CREST SINOTEC SINOTEC SINUDYNE SKY SKYSONIC SLIDING SLX SMARAGD SOEMTRON SOLAVOX SONAWA SONIKO SONITRON	20556 20370 20037, 20361 IDER 20037 20361, 20715 21037 20009, 20335, 20433, 20435 20773 20516 20037, 20880 20696 20865, 20880, 21318, 21374, 21388 20668 20487 20865, 21298 20037, 20163, 20361, 20548 20218 20037 20208, 20370	TARGA TASHIKO TATUNG TCM TEAC TEC TECH LINE TECHNICS TECHNISAT TECHNISSON TECHNOSONIC TECHWOOD TECNIMAGEN	20218 21307 20163 20037, 20516, 21756 20714, 20808 20009, 20037, 20170, 20178, 20264, 20412, 20418, 20455, 20512, 20668, 20712, 21037, 21149, 21755, 21909 20009, 20037 20037, 20668 20250, 20556, 20556 20714 C 20556 21163 20556
PRANDONI-P PRIMA PRINSTON PRINZ PROFEX PROFI PROFITRONIC PROLINE PROSONIC PROTECH PROTON PROVISION PROXIMA	20037, 20487, 20698 RINCE 20361, 20516 20264, 20412 21037 20361 20009, 20163, 20361 20009 20037, 20411, 20625, 20634, 21037 20037, 20668, 20714 20009, 20037, 20668, 21037 20178 20037, 20556, 20714 20714 20735	SAISHO SAIVOD SAKAI SALORA SALSA SAMBERS SAMPO SAMSUNG	20830, 21313 20009, 20264, 20516 20037, 20668, 20712, 21037, 21163, 21982 20163 20163, 20208, 20361, 20480, 20516, 20548, 20631 20335 20516 21755 20009, 20037, 20060, 20163, 20178, 20208, 20264, 20370, 20482, 20556, 20587, 20618, 20644 20037, 20727, 20729, 20861 20009 20088, 20108,	SIESTA SILVA SILVA SCHNE SILVER CREST SINOTEC SINUDYNE SKY SKYSONIC SLIDING SLX SMARAGD SOEMTRON SOLAVOX SONAWA SONIKO SONITRON SONOKO	20556 20370 20037, 20361 IDER 20037 20361, 20715 21037 20009, 20335, 20433, 20435 20773 20516 20037, 20880 20696 20865, 20880, 21318, 21374, 21388 20668 20487 20865, 21298 20037, 20163, 20361, 20548 20218 20037 20208, 20370 20009, 20037	TARGA TASHIKO TATUNG TCM TEAC TEC TECH LINE TECHNICS TECHNISAT TECHNISSON TECHNOSONIC TECHWOOD TECNIMAGEN TEDELEX	20218 21307 20163 20037, 20516, 21756 20714, 20808 20009, 20037, 20170, 20178, 20264, 20412, 20418, 20455, 20512, 20668, 20512, 20668, 20712, 21037, 21149, 21755, 21909 20009, 20037 20037, 20668 20250, 20556, 20556 20714 C 20556 21163 20556 20009, 20891
PRANDONI-P PRIMA PRINSTON PRINZ PROFEX PROFI PROFITRONIC PROLINE PROSONIC PROTECH PROTON PROVISION	20037, 20487, 20698 RINCE 20361, 20516 20264, 20412 21037 20361 20009, 20163, 20361 20009 2 20037, 20411, 20625, 20634, 21037 20037, 20668, 20714 20009, 20037, 20668, 20714 20486, 20668, 21037 20178 20037, 20556, 20714	SAISHO SAIVOD SAKAI SALORA SALSA SAMBERS SAMPO SAMSUNG SANSUI SANTON	20830, 21313 20009, 20264, 20516 20037, 20668, 20712, 21037, 21163, 21982 20163 20163, 20208, 20361, 20480, 20516, 20548, 20631 20335 20516 21755 20009, 20037, 20060, 20163, 20178, 20208, 20264, 20370, 20482, 20556, 20587, 20618, 20644 20037, 20727, 20729, 20861 20009	SIESTA SILVA SILVA SCHNE SILVER CREST SINOTEC SINOTEC SINUDYNE SKY SKYSONIC SLIDING SLX SMARAGD SOEMTRON SOLAVOX SONAWA SONIKO SONITRON	20556 20370 20037, 20361 IDER 20037 20361, 20715 21037 20009, 20335, 20433, 20435 20773 20516 20037, 20880 20696 20865, 20880, 21318, 21374, 21388 20668 20487 20865, 21298 20037, 20163, 20361, 20548 20218 20037 20208, 20370	TARGA TASHIKO TATUNG TCM TEAC TEC TECH LINE TECHNICS TECHNISAT TECHNISSON TECHNOSONIC TECHWOOD TECNIMAGEN	20218 21307 20163 20037, 20516, 21756 20714, 20808 20009, 20037, 20170, 20178, 20264, 20412, 20418, 20455, 20512, 20668, 20712, 21037, 21149, 21755, 21909 20009, 20037 20037, 20668 20250, 20556, 20556 20714 C 20556 21163 20556
PRANDONI-P PRIMA PRINSTON PRINZ PROFEX PROFI PROFITRONIC PROLINE PROSONIC PROTECH PROTON PROVISION PROXIMA	20037, 20487, 20698 RINCE 20361, 20516 20264, 20412 21037 20361 20009, 20163, 20361 20009 20037, 20411, 20625, 20634, 21037 20037, 20668, 20714 20009, 20037, 20668, 21037 20178 20037, 20556, 20714 20714 20735	SAISHO SAIVOD SAKAI SALORA SALSA SAMBERS SAMPO SAMSUNG SANSUI SANTON	20830, 21313 20009, 20264, 20516 20037, 20668, 20712, 21037, 21163, 21982 20163 20163, 20208, 20361, 20480, 20516, 20548, 20631 20335 20516 21755 20009, 20037, 20060, 20163, 20178, 20208, 20264, 20370, 20482, 20556, 20587, 20618, 20644 20037, 20727, 20729, 20861 20009 20088, 20108,	SIESTA SILVA SILVA SCHNE SILVER CREST SINOTEC SINUDYNE SKY SKYSONIC SLIDING SLX SMARAGD SOEMTRON SOLAVOX SONAWA SONIKO SONITRON SONOKO	20556 20370 20037, 20361 IDER 20037 20361, 20715 21037 20009, 20335, 20433, 20435 20773 20516 20037, 20880 20696 20865, 20880, 21318, 21374, 21388 20668 20487 20865, 21298 20037, 20163, 20361, 20548 20218 20037 20208, 20370 20009, 20037	TARGA TASHIKO TATUNG TCM TEAC TEC TECH LINE TECHNICS TECHNISAT TECHNISSON TECHNOSONIC TECHWOOD TECNIMAGEN TEDELEX	20218 21307 20163 20037, 20516, 21756 20714, 20808 20009, 20037, 20170, 20178, 20264, 20412, 20418, 20455, 20512, 20668, 20512, 20668, 20712, 21037, 21149, 21755, 21909 20009, 20037 20037, 20668 20250, 20556, 20556 20714 C 20556 21163 20556 20009, 20891
PRANDONI-P PRIMA PRINSTON PRINZ PROFEX PROFI PROFITRONIC PROLINE PROSONIC PROTECH PROTON PROVISION PROXIMA	20037, 20487, 20698 RINCE 20361, 20516 20264, 20412 21037 20361 20009, 20163, 20361 20009 20037, 20411, 20625, 20634, 21037 20037, 2048, 20714 20009, 20037, 20668, 20714 20009, 20037, 20668, 21037 20178 20037, 20556, 20714 20735 20037, 20556, 20714, 20735 20037, 20574, 20574, 20574	SAISHO SAIVOD SAKAI SALORA SALSA SAMBERS SAMPO SAMSUNG SANSUI SANTON	20830, 21313 20009, 20264, 20516 20037, 20668, 20712, 21037, 21163, 21982 20163 20163, 20208, 20361, 20480, 20516, 20548, 20631 20335 20516 21755 20009, 20037, 20060, 20163, 20178, 20208, 20264, 20370, 20482, 20556, 20587, 20618, 20644 20037, 20727, 20729, 20861 20009 20088, 20108, 20170, 20208,	SIESTA SILVA SILVA SCHNE SILVER CREST SINOTEC SINUDYNE SKY SKYSONIC SLIDING SLX SMARAGD SOEMTRON SOLAVOX SONAWA SONIKO SONITRON SONOKO	20556 20370 20037, 20361 IDER 20037 20361, 20715 21037 20009, 20335, 20433, 20435 20773 20516 20037, 20880 20696 20865, 20880, 21318, 21374, 21388 20668 20487 20865, 21298 20037, 20163, 20361, 20548 20218 20037 20208, 20370 20009, 20037 20163, 20208,	TARGA TASHIKO TATUNG TCM TEAC TEC TECH LINE TECHNICS TECHNISAT TECHNISSON TECHNOSONIC TECHWOOD TECNIMAGEN TEDELEX TEKNIKA	20218 21307 20163 20037, 20516, 21756 20714, 20808 20009, 20037, 20170, 20178, 20264, 20412, 20418, 20455, 20512, 20668, 20712, 21037, 21149, 21755, 21909 20009, 20037 20037, 20668 20250, 20556, 20650 20556 20714 C 20556 21163 20556 21163 20556 20099, 20891 20054, 20060 20394
PRANDONI-P PRIMA PRINSTON PRINZ PROFEX PROFI PROFITRONIC PROLINE PROSONIC PROTECH PROTON PROVISION PROXIMA PYE QUADRAL	20037, 20487, 20698 RINCE 20361, 20516 20264, 20412 21037 20361 20009, 20163, 20361 20009 20037, 20411, 20625, 20634, 21037 20037, 20668, 20714 20009, 20037, 20486, 20486, 20688, 2018	SAISHO SAIVOD SAKAI SALORA SALSA SAMBERS SAMPO SAMSUNG SANSUI SANTON SANYO	20830, 21313 20009, 20264, 20516 20037, 20668, 20712, 21037, 21163, 21982 20163 20163, 20208, 20361, 20480, 20516, 20548, 20631 20335 20516 21755 20009, 20037, 20060, 20163, 20178, 20208, 20264, 20370, 20482, 20556, 20587, 20618, 20644 20037, 20727, 20729, 20861 20009 20088, 20108, 20170, 20208, 20370, 20555, 20704, 20735	SIESTA SILVA SILVA SCHNE SILVER CREST SINOTEC SINUDYNE SKY SKYSONIC SLIDING SLX SMARAGD SOEMTRON SOLAVOX SONAWA SONIKO SONIKO SONITRON SONOKO SONOLOR	20556 20370 20037, 20361 IDER 20037 20361, 20715 21037 20009, 20335, 20433, 20435 20773 20516 20037, 2080 20696 20865, 20880, 21318, 21374, 21388 20668 20487 20865, 21298 20037, 20163, 20361, 20548 20218 20037 20208, 20370 20009, 20037 20163, 20208, 20361, 20548 20361, 20548 20099, 20037 20163, 20208, 20370 20009, 20037 20163, 20208, 20361, 20548 20091, 20548 20091, 20548 20091, 20548 20091, 20548 20091, 20548 20091, 20548 20091, 20548 20091, 20548 20091, 20548 20091, 20548	TARGA TASHIKO TATUNG TCM TEAC TEC TECH LINE TECHNICS TECHNISAT TECHNISSON TECHNOSONIC TECHWOOD TECNIMAGEN TEDELEX TEKNIKA TELECOR	20218 21307 20163 20037, 20516, 21756 20714, 20808 20009, 20037, 20170, 20178, 20264, 20412, 20418, 20455, 20512, 20668, 20698, 20712, 21037, 21149, 21755, 21909 20009, 20037 20037, 20668 20250, 20556, 20650 20556 20714 C 20556 21163 20556 20099, 20891 20054, 20060 20394 20037, 2074,
PRANDONI-P PRIMA PRINSTON PRINZ PROFEX PROFI PROFITRONIC PROLINE PROSONIC PROTECH PROTON PROVISION PROXIMA PYE	20037, 20487, 20698 RINCE 20361, 20516 20264, 20412 21037 20361 20009, 20163, 20361 20009 20037, 20411, 20625, 20634, 21037 20037, 20668, 20714 20009, 2037, 20668, 21037 20178 20037, 20556, 20714 20735 20037, 20374, 20556 20218 20009, 20250,	SAISHO SAIVOD SAKAI SALORA SALSA SAMBERS SAMPO SAMSUNG SANSUI SANTON SANYO	20830, 21313 20009, 20264, 20516 20037, 20668, 20712, 21037, 21163, 21982 20163 20163, 20208, 20361, 20480, 20516, 20548, 20631 20335 20516 21755 20009, 20037, 20060, 20163, 20178, 20208, 20264, 20370, 20482, 20556, 20587, 20618, 20644 20037, 20727, 20729, 20861 20009 20088, 20108, 20170, 20208, 20370, 20555, 20704, 20735 20037, 20556	SIESTA SILVA SILVA SILVER SILVERCREST SINGER SINOTEC SINUDYNE SKY SKYSONIC SLIDING SLX SMARAGD SOEMTRON SOLAVOX SONAWA SONIKO SONITRON SONOKO SONOLOR SONTEC	20556 20370 20037, 20361 IDER 20037 20361, 20715 21037 20009, 20335, 20433, 20435 20773 20516 20037, 20880 20696 20865, 20880, 21318, 21374, 21388 20668 20487 20865, 21298 20037, 20163, 20361, 20548 20218 20037 20208, 20370 20099, 20037, 20163, 20208, 20361, 20548 20099, 20037, 20163, 20208, 20361, 20548 20099, 20037, 20163, 20208, 20361, 20548	TARGA TASHIKO TATUNG TCM TEAC TEC TECH LINE TECHNICS TECHNISAT TECHNISSON TECHNOSONIC TECHWOOD TECNIMAGEN TEDELEX TEKNIKA TELECOR	20218 21307 20163 20037, 20516, 21756 20714, 20808 20009, 20037, 20170, 20178, 20264, 20412, 20418, 20455, 20512, 20668, 20712, 21037, 21149, 21755, 21909 20009, 20037, 20668 20250, 20556, 20650 20556 20714 CC 20556 21163 20556 21163 20556 20009, 20891 20054, 20060 20394 20037, 20074, 20109, 20335,
PRANDONI-P PRIMA PRINSTON PRINZ PROFEX PROFI PROFITRONIC PROLINE PROSONIC PROTECH PROTON PROVISION PROXIMA PYE QUADRAL QUASAR	20037, 20487, 20698 RINCE 20361, 20516 20264, 20412 21037 20361 20009, 20163, 20361 20009 20037, 20411, 20625, 20634, 21037 20037, 20668, 20714 20009, 2037, 20556, 20714 20735 20037, 20556, 20714 20735 20037, 20374, 20556 20714 20735 20037, 20374, 20556 20718 2009, 20250, 20650, 20865	SAISHO SAIVOD SAKAI SALORA SALSA SAMBERS SAMPO SAMSUNG SANSUI SANTON SANYO SBR SCEPTRE	20830, 21313 20009, 20264, 20516 20037, 20668, 20712, 21037, 21163, 21982 20163 20163, 20208, 20361, 20480, 20516, 20548, 20631 20335 20516 21755 20009, 20037, 20060, 20163, 20178, 20208, 20264, 20370, 20482, 20556, 20587, 20618, 20644 20037, 20727, 20729, 20861 20009 20088, 20108, 20170, 20208, 20370, 20555, 20704, 20735 20037, 20556 21217	SIESTA SILVA SILVA SCHNE SILVER CREST SINOTEC SINUDYNE SKY SKYSONIC SLIDING SLX SMARAGD SOEMTRON SOLAVOX SONAWA SONIKO SONIKO SONITRON SONOKO SONOLOR	20556 20370 20037, 20361 IDER 20037 20361, 20715 21037 20009, 20335, 20433, 20435 20773 20516 20037, 20880 20696 20865, 20880, 21318, 21374, 21388 20668 20487 20865, 21298 20037, 20163, 20361, 20548 20218 20037 20208, 20370 20009, 20037 20163, 20208, 20361, 20548 20361, 20548 20097 20163, 20208, 20361, 20548 20361, 20548 20009, 20037 20163, 20208, 20361, 20548 20009, 20037 20163, 20208, 20361, 20548 20009, 20037, 20370 20000, 20037, 20370 20000, 20037, 20370	TARGA TASHIKO TATUNG TCM TEAC TEC TECH LINE TECHNICS TECHNISAT TECHNISSON TECHNOSONIC TECHWOOD TECNIMAGEN TEDELEX TEKNIKA TELECOR	20218 21307 20163 20037, 20516, 21756 20714, 20808 20009, 20037, 20170, 20178, 20264, 20412, 20418, 20455, 20512, 20668, 20698, 20712, 21037, 21149, 21755, 21909 20009, 20037 20037, 20668 20250, 20556, 20650 20556 20714 CC 20556 21163 20556 20104, 20060 20394 20037, 20074, 20109, 20335, 20346, 20486,
PRANDONI-P PRIMA PRINSTON PRINZ PROFEX PROFI PROFITRONIC PROLINE PROSONIC PROTECH PROTON PROVISION PROXIMA PYE QUADRAL	20037, 20487, 20698 RINCE 20361, 20516 20264, 20412 21037 20361 20009, 20163, 20361 20009 2 20037, 20411, 20625, 20634, 21037 20037, 20414 20009, 20037, 20668, 20714 20009, 20037, 20566, 20714 20735 20037, 20556, 20714 20735 20037, 20374, 20556 20218 20009, 20250, 20650, 20865 20037, 2074,	SAISHO SAIVOD SAKAI SALORA SALSA SAMBERS SAMPO SAMSUNG SANSUI SANTON SANYO	20830, 21313 20009, 20264, 20516 20037, 20668, 20712, 21037, 21163, 21982 20163 20163, 20208, 20361, 20480, 20516, 20548, 20631 20335 20516 21755 20009, 20037, 20060, 20163, 20178, 20208, 20264, 20370, 20482, 20556, 20587, 20618, 20644 20037, 20727, 20729, 20861 20009 20088, 20108, 20170, 20208, 20370, 20555, 20704, 20735 20037, 20556 21217 ENZ	SIESTA SILVA SILVA SILVER SILVERCREST SINGER SINOTEC SINUDYNE SKY SKYSONIC SLIDING SLX SMARAGD SOEMTRON SOLAVOX SONAWA SONIKO SONITRON SONOKO SONOLOR SONTEC	20556 20370 20037, 20361 IDER 20037 20361, 20715 21037 20009, 20335, 20433, 20435 20773 20516 20037, 20880 20696 20865, 20880, 21318, 21374, 21388 20668 20487 20865, 21298 20037, 20163, 20361, 20548 20218 20037 20208, 20370 20009, 20037 20163, 20208, 20361, 20548 20370 20009, 20037 20163, 20208, 20361, 20548 20370 20009, 20037 20163, 20208, 20361, 20548 20009, 20037 20009, 20037, 20370 20000, 20037, 20053, 20093, 20093, 20093, 20093	TARGA TASHIKO TATUNG TCM TEAC TEC TECH LINE TECHNICS TECHNISAT TECHNISSON TECHNOSONIC TECHWOOD TECNIMAGEN TEDELEX TEKNIKA TELECOR	20218 21307 20163 20037, 20516, 21756 20714, 20808 20009, 20037, 20170, 20178, 20264, 20412, 20418, 20455, 20512, 20668, 20512, 20668, 20712, 21037, 21149, 21755, 21909 20009, 20037 20037, 20668 20250, 20556, 20556 20714 C 20556 201163 20556 20009, 20891 20054, 20060 20394 20037, 20074, 20109, 20335, 20160, 20356, 20556, 20556
PRANDONI-P PRIMA PRINSTON PRINZ PROFEX PROFI PROFITRONIC PROLINE PROSONIC PROTECH PROTON PROVISION PROXIMA PYE QUADRAL QUASAR	20037, 20487, 20698 RINCE 20361, 20516 20264, 20412 21037 20361 20009, 20163, 20361 20009 20037, 20411, 20625, 20634, 21037 20037, 20418, 20486, 20668, 21037 2014 20735 20037, 20556, 20714 20735 20037, 20556, 20714 20735 20037, 20556, 20714 20735 20037, 20556 20218 20009, 20250, 20865 20037, 20074, 20200, 20327,	SAISHO SAIVOD SAKAI SALORA SALSA SAMBERS SAMPO SAMSUNG SANSUI SANTON SANYO SBR SCEPTRE	20830, 21313 20009, 20264, 20516 20037, 20668, 20712, 21037, 21163, 21982 20163 20163, 20208, 20361, 20480, 20516, 20548, 20631 20335 20516 21755 20009, 20037, 20060, 20163, 20178, 20208, 20264, 20370, 20482, 20556, 20587, 20618, 20644 20037, 20727, 20729, 20861 20009 20088, 20108, 20170, 20208, 20370, 20555, 20704, 20735 20037, 20556 21217 ENZ 20361, 20374,	SIESTA SILVA SILVA SILVER SILVERCREST SINGER SINOTEC SINUDYNE SKY SKYSONIC SLIDING SLX SMARAGD SOEMTRON SOLAVOX SONAWA SONIKO SONITRON SONOKO SONOLOR SONTEC	20556 20370 20037, 20361 IDER 20037 20361, 20715 21037 20009, 20335, 20433, 20435 20773 20516 20037, 20880 20696 20865, 20880, 21318, 21374, 21388 20668 20487 20865, 21298 20037, 20163, 20361, 20548 20218 20037 20208, 20370 20009, 20037 20163, 20208, 20361, 20548 20090, 20037 20163, 20208, 20370 20009, 20037 20163, 20208, 20361, 20548 20000, 20037, 20370 20000, 20037, 20370 20000, 20037, 20370 20000, 20037, 20053, 20093, 20145, 20156,	TARGA TASHIKO TATUNG TCM TEAC TEC TECH LINE TECHNICS TECHNISAT TECHNISSON TECHNOSONIC TECHWOOD TECNIMAGEN TEDELEX TEKNIKA TELECOR	20218 21307 20163 20037, 20516, 21756 20714, 20808 20009, 20037, 20170, 20178, 20264, 20412, 20418, 20455, 20512, 20668, 20698, 20712, 21037, 21149, 21755, 21909 20009, 20037, 20037, 20668 20250, 20556, 20556 20714 20556 21163 20556 20059, 20556 2014 20556 20059, 20556 20714 20556 20059, 20556 20714 20556 20059, 20556 20714 20556 20059, 20556 20059, 20556 20163 20556 20079, 2037, 2074, 20109, 20335, 20346, 20486, 20498, 20560, 20625, 20714,
PRANDONI-P PRIMA PRINSTON PRINZ PROFEX PROFI PROFITRONIC PROLINE PROSONIC PROTECH PROTON PROVISION PROXIMA PYE QUADRAL QUASAR	20037, 20487, 20698 RINCE 20361, 20516 20264, 20412 21037 20361 20009, 20163, 20361 20009 20037, 20411, 20625, 20634, 21037 20037, 20668, 20714 20009, 20037, 20418, 20486, 20668, 21037 20178 20037, 20556, 20714 2073, 20556 20714 2073, 20556 20714 2073, 20556 20714 2073, 20556 20714 2073, 2074, 2075,	SAISHO SAIVOD SAKAI SALORA SALSA SAMBERS SAMPO SAMSUNG SANSUI SANTON SANYO SBR SCEPTRE	20830, 21313 20009, 20264, 20516 20037, 20668, 20712, 21037, 21163, 21982 20163 20163, 20208, 20361, 20480, 20516, 20548, 20631 20335 20516 21755 20009, 20037, 20060, 20163, 20178, 20208, 20264, 20370, 20482, 20556, 20587, 20618, 20644 20037, 20727, 20729, 20861 20009 20088, 20108, 20170, 20208, 20370, 20555, 20704, 20735 20037, 20556 21217 ENZ 20361, 20374, 20486, 20548,	SIESTA SILVA SILVA SILVER SILVERCREST SINGER SINOTEC SINUDYNE SKY SKYSONIC SLIDING SLX SMARAGD SOEMTRON SOLAVOX SONAWA SONIKO SONITRON SONOKO SONOLOR SONTEC	20556 20370 20037, 20361 IDER 20037 20361, 20715 21037 20009, 20335, 20433, 20435 20773 20516 20037, 20880 20696 20865, 20880, 21318, 21374, 21388 20668 20487 20865, 21298 20037, 20163, 20348 20218 20037 20208, 20370 20009, 20037 20163, 20208, 20370 20009, 20037 20163, 20208, 20370 20009, 20037 20163, 20208, 20370 20009, 20037 20163, 20208, 20370 20000, 20037, 20370 20000, 20037, 20370 20000, 20037, 20370 20000, 20037, 20370 20000, 20037, 20370 20000, 20037, 20370 20000, 20037, 20370 20000, 20037, 20370 20000, 20037, 20370 20000, 20037, 20370 20000, 20037, 20370 20000, 20037, 20370 20000, 20037, 20370 20000, 20037, 20370 20000, 20037, 20370 20000, 20037, 20370 20000, 20037, 20370 20000, 20037, 20370 20000, 20037, 20353, 20093, 20145, 20156, 20170, 20250,	TARGA TASHIKO TATUNG TCM TEAC TEC TECH LINE TECHNISSON TECHNOSONIO TECHNOSONIO TECHWOOD TECNIMAGEN TEDELEX TEKNIKA TELECOR TELEFUNKEN	20218 21307 20163 21307 20163 20037, 20516, 21756 20714, 20808 20009, 20037, 20170, 20178, 20264, 20412, 20418, 20455, 20512, 20668, 20712, 21037, 21149, 21755, 21909 20009, 20037 20037, 20668 20250, 20556, 20650 20556 20714 C 20556 21163 20556 21163 20556 20009, 20891 20054, 20060 20394 20037, 20074, 20109, 20335, 20346, 20486, 20498, 20560, 20625, 20714, 20896
PRANDONI-P PRIMA PRINSTON PRINZ PROFEX PROFI PROFITRONIC PROLINE PROSONIC PROTECH PROTON PROVISION PROXIMA PYE QUADRAL QUASAR QUELLE	20037, 20487, 20698 RINCE 20361, 20516 20264, 20412 21037 20361 20009, 20163, 20361 20009 20037, 20411, 20625, 20634, 21037 20037, 20668, 20714 20009, 20037, 20556, 20714 20718 207	SAISHO SAIVOD SAKAI SALORA SALSA SAMBERS SAMPO SAMSUNG SANSUI SANTON SANYO SBR SCEPTRE	20830, 21313 20009, 20264, 20516 20037, 20668, 20712, 21037, 21163, 21982 20163 20163, 20208, 20361, 20480, 20516, 20548, 20631 20335 20516 21755 20009, 20037, 20060, 20163, 20178, 20208, 20264, 20370, 20482, 20556, 20587, 20618, 20644 20037, 20727, 20729, 20861 20009 20088, 20108, 20170, 20208, 20370, 20555, 20704, 20735 20037, 20556 21217 ENZ 20361, 20374, 20486, 20548, 20606, 20714,	SIESTA SILVA SILVA SILVER SILVERCREST SINGER SINOTEC SINUDYNE SKY SKYSONIC SLIDING SLX SMARAGD SOEMTRON SOLAVOX SONAWA SONIKO SONITRON SONOKO SONOLOR SONTEC	20556 20370 20037, 20361 IDER 20037 20361, 20715 21037 20009, 20335, 20433, 20435 20773 20516 20037, 2080 20696 20865, 20880, 21318, 21374, 21388 20668 20487 20865, 21298 20037, 20163, 20361, 20548 20218 20037 20208, 20370 20009, 20037, 20163, 20208, 20361, 20548 20218 20037 20208, 20370 20009, 20037, 20163, 20208, 20361, 20548 20097, 20053, 20093, 20145, 20156, 20170, 20250, 20353, 21100,	TARGA TASHIKO TATUNG TCM TEAC TEC TECH LINE TECHNICS TECHNISSON TECHNOSONIC TECHNOSONIC TECHNOSONIC TECHWOOD TECNIMAGEN TEDELEX TEKNIKA TELEFUNKEN	20218 21307 20163 21307 20163 20037, 20516, 21756 20714, 20808 20009, 20037, 20170, 20178, 20264, 20412, 20418, 20455, 20512, 20668, 20698, 20712, 21037, 21149, 21755, 21909 20009, 20037 20037, 20668 20250, 20556, 20650 20556 20714 CC 20556 21163 20556 21163 20556 20009, 20891 20054, 20060 20394 20037, 2074, 20109, 20335, 20346, 20486, 20498, 20560, 20625, 20714, 20896 20037
PRANDONI-P PRIMA PRINSTON PRINZ PROFEX PROFI PROFITRONIC PROLINE PROSONIC PROTECH PROTON PROVISION PROXIMA PYE QUADRAL QUASAR QUELLE R-LINE	20037, 20487, 20698 RINCE 20361, 20516 20264, 20412 21037 20361 20009, 20163, 20361 20009 2 20037, 20411, 20625, 20634, 21037 20037, 2068, 20714 20009, 2037, 20556, 20714 20735 20037, 20556, 20714 20735 20037, 20556, 20714 20735 20037, 20556, 20714 20735 20037, 20556, 20714 20735 20037, 20556, 20714 20735 20037, 2074, 20200, 2037, 20556 20218 20009, 20250, 20650, 20865 20037, 2074, 20200, 2037, 2074, 20200, 2037, 2074, 20200, 2037, 2074, 20200, 2037, 2074, 20200, 2037, 2074, 20361, 20512, 20668, 21037 20037	SAISHO SAIVOD SAKAI SALORA SALSA SAMBERS SAMPO SAMSUNG SANSUI SANTON SANYO SBR SCEPTRE	20830, 21313 20009, 20264, 20516 20037, 20668, 20712, 21037, 21163, 21982 20163 20163, 20208, 20361, 20480, 20516, 20548, 20631 20335 20516 21755 20009, 20037, 20060, 20163, 20178, 20208, 20264, 20370, 20482, 20556, 20587, 20618, 20644 20037, 20727, 20729, 20861 20009 20088, 20108, 20170, 20208, 20370, 20555, 20704, 20735 20037, 20556 21217 ENZ 20361, 20374, 20486, 20548,	SIESTA SILVA SILVA SILVER SILVERCREST SINGER SINOTEC SINUDYNE SKY SKYSONIC SLIDING SLX SMARAGD SOEMTRON SOLAVOX SONAWA SONIKO SONITRON SONOKO SONOLOR SONTEC	20556 20370 20037, 20361 IDER 20037 20361, 20715 21037 20009, 20335, 20433, 20435 20773 20516 20037, 20880 20696 20865, 20880, 21318, 21374, 21388 20668 20487 20865, 21298 20037, 20163, 20348 20218 20037 20208, 20370 20009, 20037 20163, 20208, 20370 20009, 20037 20163, 20208, 20370 20009, 20037 20163, 20208, 20370 20009, 20037 20163, 20208, 20370 20000, 20037, 20370 20000, 20037, 20370 20000, 20037, 20370 20000, 20037, 20370 20000, 20037, 20370 20000, 20037, 20370 20000, 20037, 20370 20000, 20037, 20370 20000, 20037, 20370 20000, 20037, 20370 20000, 20037, 20370 20000, 20037, 20370 20000, 20037, 20370 20000, 20037, 20370 20000, 20037, 20370 20000, 20037, 20370 20000, 20037, 20370 20000, 20037, 20370 20000, 20037, 20353, 20093, 20145, 20156, 20170, 20250,	TARGA TASHIKO TATUNG TCM TEAC TEC TECH LINE TECHNISAT TECHNISSON TECHNOSONIC TECHNOSONIC TECHSIA TECHIC TECHUOD TECNIMAGEN TELECOR TELEFUNKEN TELEFUSION TELEGAZI	20218 21307 20163 20037, 20516, 21756 20714, 20808 20009, 20037, 20170, 20178, 20264, 20412, 20418, 20455, 20512, 20668, 20698, 20712, 21037, 21149, 21755, 21909 20009, 20037 20037, 20668 20250, 20556, 20556 20714 CC 20556 21163 20556 20109, 20891 20054, 20060 20394 20037, 20074, 20109, 20335, 20346, 20486, 20498, 20560, 20625, 20714, 20896 20037 20037
PRANDONI-P PRIMA PRINSTON PRINZ PROFEX PROFI PROFITRONIC PROLINE PROSONIC PROTECH PROTON PROVISION PROXIMA PYE QUADRAL QUASAR QUELLE	20037, 20487, 20698 RINCE 20361, 20516 20264, 20412 21037 20361 20009, 20163, 20361 20009 20037, 20411, 20625, 20634, 21037 20037, 20668, 20714 20009, 20037, 20556, 20714 20718 207	SAISHO SAIVOD SAKAI SALORA SALSA SAMBERS SAMPO SAMSUNG SANSUI SANTON SANYO SBR SCEPTRE	20830, 21313 20009, 20264, 20516 20037, 20668, 20712, 21037, 21163, 21982 20163 20163, 20208, 20361, 20480, 20516, 20548, 20631 20335 20516 21755 20009, 20037, 20060, 20163, 20178, 20208, 20264, 20370, 20482, 20556, 20587, 20618, 20644 20037, 20727, 20729, 20861 20009 20088, 20108, 20170, 20208, 20370, 20555, 20704, 20735 20037, 20556 21217 ENZ 20361, 20374, 20486, 20548, 20606, 20714,	SIESTA SILVA SILVA SILVER SILVERCREST SINGER SINOTEC SINUDYNE SKY SKYSONIC SLIDING SLX SMARAGD SOEMTRON SOLAVOX SONAWA SONIKO SONITRON SONOKO SONOLOR SONTEC	20556 20370 20037, 20361 IDER 20037 20361, 20715 21037 20009, 20335, 20433, 20435 20773 20516 20037, 2080 20696 20865, 20880, 21318, 21374, 21388 20668 20487 20865, 21298 20037, 20163, 20361, 20548 20218 20037 20208, 20370 20009, 20037, 20163, 20208, 20361, 20548 20218 20037 20208, 20370 20009, 20037, 20163, 20208, 20361, 20548 20097, 20053, 20093, 20145, 20156, 20170, 20250, 20353, 21100,	TARGA TASHIKO TATUNG TCM TEAC TEC TECH LINE TECHNICS TECHNISSON TECHNOSONIC TECHNOSONIC TECHNOSONIC TECHWOOD TECNIMAGEN TEDELEX TEKNIKA TELEFUNKEN	20218 21307 20163 21307 20163 20037, 20516, 21756 20714, 20808 20009, 20037, 20170, 20178, 20264, 20412, 20418, 20455, 20512, 20668, 20698, 20712, 21037, 21149, 21755, 21909 20009, 20037 20037, 20668 20250, 20556, 20556 20714 CC 20556 21163 20556 20109, 20891 20054, 20060 20394 20037, 20074, 20109, 20335, 20346, 20486, 20498, 20560, 20625, 20714, 20896 20037 20037

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SAMSUNG	30045, 30240		30352	XR-1000	30000, 30072		41128, 41165
SANKY	30048	TCHIBO	30348	YAMAHA	30038	CAMBRIDGE A	
SANSUI	30000, 30041,	TCM	30348	YAMISHI	30072, 30278	C. IIVIDIGID GE	41109
Britiser	30067, 30072,	TEAC	30000, 30037,	YOKAN	30072, 30270	CCE	40730
	30106	12.10	30041, 30278,	YOKO	30037, 30240	CELESTIAL	41020
SANYO	30048, 30067,		30307, 30637,	ZENITH	30000, 30033,	CENTREX	40672, 41004
5.1.10	30104, 30240		30642		30034, 30637	CENTRUM	40713, 40779,
SAVILLE	30240, 30278,	TEC	30072	ZT GROUP	31972		41005
	30352	TECH LINE	30072	ZX	30348, 3035	CGV	40751, 41115
SBR	30081	TECHNICS	30081, 30162,			CINEA	40831, 40841
SCHAUB LOR	ENZ		30226			CINETEC	40713
	30000, 30041,	TEDELEX	30642	DVD PLAY	ER	CINEVISION	40833, 40869,
	30104, 30106,	TEKNIKA	30000, 30037	3D LAB	40539		41483
	30315, 30348	TELEAVIA	30041	A-TREND	40714	CLASSIC	40730
SCHNEIDER	30000, 30037,	TELEFUNKEN	30041, 30206,	ACOUSTIC SO	LUTIONS	CLATRONIC	40672, 40788,
	20042 20072						
	30042, 30072,		30278, 30320,		40713, 40730,		40818, 41165
	30042, 30072, 30081, 30240,		30278, 30320, 30321, 30642		40713, 40730, 41450	CLAYTON	40818, 41165 40713
		TELERENT		AEG		CLAYTON COBY	
	30081, 30240,	TELERENT TELETECH	30321, 30642	AEG	41450		40713
SCOTT	30081, 30240, 30278, 30348,		30321, 30642 30226	AEG AIRIS	41450 40770, 40788,		40713 40730, 40852,
SCOTT SEARS	30081, 30240, 30278, 30348, 30352, 30642		30321, 30642 30226 30000, 30072,		41450 40770, 40788, 40790	COBY	40713 40730, 40852, 41107, 41165
	30081, 30240, 30278, 30348, 30352, 30642 30043, 30045	TELETECH	30321, 30642 30226 30000, 30072, 30278		41450 40770, 40788, 40790 40672, 41005,	CODEX	40713 40730, 40852, 41107, 41165 41233
	30081, 30240, 30278, 30348, 30352, 30642 30043, 30045 30000, 30037,	TELETECH TENOSAL	30321, 30642 30226 30000, 30072, 30278 30072 30000, 30072, 30278	AIRIS	41450 40770, 40788, 40790 40672, 41005, 41107	COBY CODEX COMPACKS	40713 40730, 40852, 41107, 41165 41233 41107, 41265 40852
SEARS	30081, 30240, 30278, 30348, 30352, 30642 30043, 30045 30004, 30037, 30042, 30104 30278 30072, 30081,	TELETECH TENOSAL TENSAI TEVION	30321, 30642 30226 30000, 30072, 30278 30072 30000, 30072,	AIRIS AIWA	41450 40770, 40788, 40790 40672, 41005, 41107 40533, 40641	COBY CODEX COMPACKS CONIA	40713 40730, 40852, 41107, 41165 41233 41107, 41265 40852 L EDISON 40831
SEARS SEAWAY	30081, 30240, 30278, 30348, 30352, 30642 30043, 30045 30000, 30037, 30042, 30104 30278 30072, 30081, 30240, 30278,	TELETECH TENOSAL TENSAI TEVION TEXET	30321, 30642 30226 30000, 30072, 30278 30072 30000, 30072, 30278 30348, 30642 30278	AIRIS AIWA	41450 40770, 40788, 40790 40672, 41005, 41107 40533, 40641 40766, 40770, 40788, 40790, 40898, 41115,	COBY CODEX COMPACKS CONIA CONTINENTAL CRAIG	40713 40730, 40852, 41107, 41165 41233 41107, 41265 40852 L EDISON 40831 40831
SEARS SEAWAY SEG	30081, 30240, 30278, 30348, 30352, 30642 30043, 30045 30000, 30037, 30042, 30104 30278 30072, 30081, 30240, 30278, 30637, 30642	TELETECH TENOSAL TENSAI TEVION TEXET THOMAS	30321, 30642 30226 30000, 30072, 30278 30072 30000, 30072, 30278 30348, 30642 30278 30000	AIRIS AIWA AKAI	41450 40770, 40788, 40790 40672, 41005, 41107 40533, 40641 40766, 40770, 40788, 40790, 40898, 41115, 41233	COBY CODEX COMPACKS CONIA CONTINENTAL CRAIG CROWN	40713 40730, 40852, 41107, 41165 41233 41107, 41265 40852 L EDISON 40831 40831 40770, 41115
SEARS SEAWAY SEG SEI	30081, 30240, 30278, 30348, 30352, 30642 30043, 30045 30000, 30037, 30042, 30104 30278 30072, 30081, 30240, 30278, 30637, 30642 30081	TELETECH TENOSAL TENSAI TEVION TEXET	30321, 30642 30226 30000, 30072, 30278 30072 30000, 30072, 30278 30348, 30642 30278 30000 30041, 30067,	AIRIS AIWA AKAI	41450 40770, 40788, 40790 40672, 41005, 41107 40533, 40641 40766, 40770, 40788, 40790, 40898, 41115, 41233 41005	COBY CODEX COMPACKS CONIA CONTINENTAL CRAIG CROWN CRYPTO	40713 40730, 40852, 41107, 41165 41233 41107, 41265 40852 L EDISON 40831 40831 40770, 41115 41228
SEARS SEAWAY SEG SEI SELECO	30081, 30240, 30278, 30348, 30352, 30642 30043, 30045 30000, 30037, 30042, 30104 30278 30072, 30081, 30240, 30278, 30637, 30642 30081 30037, 30041	TELETECH TENOSAL TENSAI TEVION TEXET THOMAS	30321, 30642 30226 30000, 30072, 30278 30072 30000, 30072, 30278 30348, 30642 30278 30000 30041, 30067, 30278, 30320,	AIRIS AIWA AKAI	41450 40770, 40788, 40790 40672, 41005, 41107 40533, 40641 40766, 40770, 40788, 40790, 40898, 41115, 41233 41005 40898, 41140,	COBY CODEX COMPACKS CONIA CONTINENTA: CRAIG CROWN CRYPTO CYBERCOM	40713 40730, 40852, 41107, 41165 41233 41107, 41265 40852 L EDISON 40831 40831 40770, 41115 41228 40831
SEARS SEAWAY SEG SEI SELECO SEMP	30081, 30240, 30278, 30348, 30352, 30642 30043, 30045 30000, 30037, 30042, 30104 30278 30072, 30081, 30240, 30278, 30641, 30241, 30240, 30278, 30081 30081 30037, 30041	TELETECH TENOSAL TENSAI TEVION TEXET THOMAS THOMSON	30321, 30642 30226 30000, 30072, 30278 30070, 30072, 30278 30348, 30642 30278 30000 30041, 30067, 30278, 30320, 30321	AIRIS AIWA AKAI	41450 40770, 40788, 40790 40672, 41005, 41107 40533, 40641 40766, 40770, 40788, 40790, 40898, 41115, 41233 41005 40898, 41140, 41170, 41233,	COBY CODEX COMPACKS CONIA CONTINENTAL CRAIG CROWN CRYPTO	40713 40730, 40852, 41107, 41165 41233 41107, 41265 40852 L EDISON 40831 40870, 41115 41228 40831 40714, 40816,
SEARS SEAWAY SEG SEI SELECO SEMP SENTRA	30081, 30240, 30278, 30348, 30352, 30642 30043, 30045 30000, 30037, 30042, 30104 30278 30072, 30081, 30240, 30278, 30637, 30642 30037, 30041 30045 30072	TELETECH TENOSAL TENSAI TEVION TEXET THOMAS	30321, 30642 30226 30000, 30072, 30278 30072 30000, 30072, 30278 30348, 30642 30278 30041, 30067, 30241, 30067, 30278, 30320, 30321 30037, 30041,	AIRIS AIWA AKAI AKI AKURA	41450 40770, 40788, 40790 40672, 41005, 41107 40533, 40641 40766, 40770, 40788, 40790, 40898, 41115, 41233 41005 40898, 41140, 41170, 41233, 41367	COBY CODEX COMPACKS CONIA CONTINENTA CRAIG CROWN CRYPTO CYBERCOM CYBERHOME	40713 40730, 40852, 41107, 41165 41233 41107, 41265 40852 L EDISON 40831 40831 40710, 41115 41228 40831 40714, 40816, 41023
SEARS SEAWAY SEG SEI SELECO SEMP SENTRA SHARP	30081, 30240, 30278, 30348, 30352, 30642 30043, 30045 30000, 30037, 30042, 30104 30278 30072, 30081, 30240, 30278, 30637, 30642 30081 30037, 30041 30045 30072 30037, 30048	TELETECH TENOSAL TENSAI TEVION TEXET THOMAS THOMSON THORN	30321, 30642 30226 30000, 30072, 30278 30072 30000, 30072, 30278 30348, 30642 30278 30000 30041, 30067, 30278, 30320, 30321 30037, 30041, 30104	AIRIS AIWA AKAI	41450 40770, 40788, 40790 40672, 41005, 41107 40533, 40641 40766, 40770, 40788, 40790, 40898, 41115, 41233 41005 40898, 41140, 41170, 41233, 41367 40539, 40672,	COBY CODEX COMPACKS CONIA CONTINENTA CRAIG CROWN CRYPTO CYBERCOM CYBERHOME CYTRON	40713 40730, 40852, 41107, 41165 41233 41107, 41265 40852 L EDISON 40831 40770, 41115 41228 40831 40714, 40816, 41023 40651
SEARS SEAWAY SEG SEI SELECO SEMP SENTRA SHARP SHINTOM	30081, 30240, 30278, 30348, 30352, 30642 30043, 30045 30000, 30037, 30042, 30104 30278 30072, 30081, 30240, 30278, 30637, 30642 30081 30045 30045 30072, 30041 30072 30037, 30041 30072	TELETECH TENOSAL TENSAI TEVION TEXET THOMAS THOMSON THORN	30321, 30642 30226 30000, 30072, 30278 30072 30000, 30072, 30278 30348, 30642 30278 30000 30041, 30067, 30278, 30320, 30321 30037, 30041, 30104 30240	AIRIS AIWA AKAI AKI AKURA	41450 40770, 40788, 40790 40672, 41005, 41107 40533, 40641 40766, 40770, 40788, 40790, 40898, 41115, 41233 41005 40898, 41140, 41170, 41233, 41367 40539, 40672, 40695, 40713,	COBY CODEX COMPACKS CONIA CONTINENTAL CRAIG CROWN CRYPTO CYBERCOM CYBERHOME CYTRON D-VISION	40713 40730, 40852, 41107, 41165 41233 41107, 41265 40852 L EDISON 40831 40770, 41115 41228 40831 40714, 40816, 41023 40651 41115
SEARS SEAWAY SEG SEI SELECO SEMP SENTRA SHARP SHINTOM SHIVAKI	30081, 30240, 30278, 30348, 30352, 30642 30043, 30045 30000, 30037, 30042, 30104 30278 30072, 30081, 30240, 30278, 30637, 30642 30081 30037, 30041 30072 30072 30037, 30048 30072, 30104 30037	TELETECH TENOSAL TENSAI TEVION TEXET THOMAS THOMSON THORN TMK TOKAI	30321, 30642 30226 30000, 30072, 30072 30000, 30072, 30278 30348, 30642 30278 30000 30041, 30067, 30278, 30320, 30321 30037, 30041, 30104 30240 30037, 30072	AIRIS AIWA AKAI AKI AKURA ALBA	41450 40770, 40788, 40790 40672, 41005, 41107 40533, 40641 40766, 40770, 40788, 40790, 40898, 41115, 41233 41005 40898, 41140, 41170, 41233, 41367 40539, 40672, 40695, 40713, 40730, 41140	COBY CODEX COMPACKS CONIA CONTINENTAL CRAIG CROWN CRYPTO CYBERCOM CYBERHOME CYTRON D-VISION DAENYX	40713 40730, 40852, 41107, 41165 41233 41107, 41265 40852 L EDISON 40831 40770, 41115 41228 40831 40714, 40816, 41023 40651 41115 40872
SEARS SEAWAY SEG SEI SELECO SEMP SENTRA SHARP SHINTOM SHIVAKI SHOGUN	30081, 30240, 30278, 30348, 30352, 30642 30043, 30045 30000, 30037, 30042, 30104 30278 30072, 30081, 30240, 30278, 30642 30081 30037, 30642 30081 30072, 30081 30072, 30104 30072, 30104 30072, 30104 30037, 30048	TELETECH TENOSAL TENSAI TEVION TEXET THOMAS THOMSON THORN TMK TOKAI TOPLINE	30321, 30642 30226 30000, 30072, 30278 30072 30000, 30072, 30278 30348, 30642 30278 30000 30041, 30067, 30278, 30320, 30321 30037, 30041, 30104 30240 30037, 30072 30348	AIRIS AIWA AKAI AKI AKURA ALBA ALCO	41450 40770, 40788, 40790 40672, 41005, 41107 40533, 40641 40766, 40770, 40788, 40790, 40898, 41115, 41233 411005 40898, 41140, 41170, 41233, 41367 40539, 40672, 40695, 40713, 40730, 41140 40790	COBY CODEX COMPACKS CONIA CONTINENTAL CRAIG CROWN CRYPTO CYBERCOM CYBERHOME CYTRON D-VISION	40713 40730, 40852, 41107, 41165 41233 41107, 41265 40852 L EDISON 40831 40770, 41115 41228 40831 40714, 40816, 41023 40651 41115 40872 40705, 40714,
SEARS SEAWAY SEG SEI SELECO SEMP SENTRA SHARP SHINTOM SHIVAKI	30081, 30240, 30278, 30348, 30352, 30642 30043, 30045 30000, 30037, 30042, 30104 30278 30072, 30081, 30240, 30278, 30637, 30642 30081 30081 30045 30072 30037, 30041 30072 30037, 30104 30037, 30104 30037 30240 30037, 30081,	TELETECH TENOSAL TENSAI TEVION TEXET THOMAS THOMSON THORN TMK TOKAI	30321, 30642 30226 30000, 30072, 30278 30070, 30072, 30278 30348, 30642 30278 30000 30041, 30067, 30278, 30320, 30321 30037, 30041, 30104 30240 30037, 30072 30348 30041, 30042,	AIRIS AIWA AKAI AKI AKURA ALBA ALCO ALIZE	41450 40770, 40788, 40790 40672, 41005, 41107 40533, 40641 40766, 40770, 40788, 40790, 40898, 41115, 41233 411005 40898, 41140, 41170, 41233, 41367 40539, 40672, 40695, 40713, 40730, 41140 40790 41151	COBY CODEX COMPACKS CONIA CONTINENTAL CRAIG CROWN CRYPTO CYBERCOM CYBERHOME CYTRON D-VISION DAENYX	40713 40730, 40852, 41107, 41165 41233 41107, 41265 40852 L EDISON 40831 40770, 41115 41228 40831 40714, 40816, 41023 40651 41115 40872 40705, 40714, 40770, 40833,
SEARS SEAWAY SEG SEI SELECO SEMP SENTRA SHARP SHINTOM SHIVAKI SHOGUN	30081, 30240, 30278, 30348, 30352, 30642 30043, 30045 30000, 30037, 30042, 30104 30278 30072, 30081, 30240, 30278, 30637, 30041 30045 30072 30037, 30041 30045 30072 30037, 30048 30072, 30104 30037 30240 30037, 30081, 30104, 30320,	TELETECH TENOSAL TENSAI TEVION TEXET THOMAS THOMSON THORN TMK TOKAI TOPLINE	30321, 30642 30226 30000, 30072, 30278 30070, 30072, 30278 30348, 30642 30278 30041, 30067, 30248, 30320, 30321 30037, 30041, 30104 30240 30037, 30072 30348 30041, 30042, 30043, 30045,	AIRIS AIWA AKAI AKI AKURA ALBA ALCO ALIZE ALL-TEL	41450 40770, 40788, 40790 40672, 41005, 41107 40533, 40641 40766, 40770, 40788, 40790, 40898, 41115, 41233 41005 40898, 41140, 41170, 41233, 41367 40539, 40672, 40695, 40713, 40730, 41140 40790 41151 41451	COBY CODEX COMPACKS CONIA CONTINENTA CRAIG CROWN CRYPTO CYBERCOM CYBERCOM CYBERHOME CYTRON D-VISION DAENYX DAEWOO	40713 40730, 40852, 41107, 41165 41233 41107, 41265 40852 L EDISON 40831 40871 40770, 41115 41228 40831 40714, 40816, 41023 40651 41115 40872 40705, 40714, 40770, 40833, 40869, 40872
SEARS SEAWAY SEG SEI SELECO SEMP SENTRA SHARP SHINTOM SHIVAKI SHOGUN SIEMENS	30081, 30240, 30278, 30348, 30352, 30642 30043, 30045 30000, 30037, 30042, 30104 30278, 30672, 30681, 30240, 30278, 30637, 30041 30045 30072 30081 30072 30037, 30044 30037, 30044 30037, 30044 30037, 30044 30037, 30044 30037, 30044 30037, 30044 30037, 30045 30240 30037, 30081, 30104, 30320, 30347	TELETECH TENOSAL TENSAI TEVION TEXET THOMAS THOMSON THORN TMK TOKAI TOPLINE	30321, 30642 30226 30000, 30072, 30278 30072 30000, 30072, 30278 30348, 30642 30278 30041, 30067, 30278, 30320, 30321 30037, 30041, 30104 30240 30037, 30072 30348 30041, 30042, 30041, 30042, 30081, 30352,	AIRIS AIWA AKAI AKI AKURA ALBA ALCO ALIZE ALL-TEL ALLEGRO	41450 40770, 40788, 40790 40672, 41005, 41107 40533, 40641 40766, 40770, 40788, 40790, 40898, 41115, 41233 41005 40898, 41140, 41170, 41233, 41367 40539, 40672, 40695, 40713, 40790 41151 41451 40869	COBY CODEX COMPACKS CONIA CONTINENTAL CRAIG CROWN CRYPTO CYBERCOM CYBERHOME CYTRON D-VISION DAENYX	40713 40730, 40852, 41107, 41165 41233 41107, 41265 40852 L EDISON 40831 40871 40770, 41115 41228 40631 40714, 40816, 41023 40651 41115 40872 40705, 40714, 40770, 40833, 40770, 40833, 40869, 40872 ERNATIONAL
SEARS SEAWAY SEG SEI SELECO SEMP SENTRA SHARP SHINTOM SHIVAKI SHOGUN SIEMENS	30081, 30240, 30278, 30348, 30352, 30642 30043, 30045 30000, 30037, 30042, 30104 30278, 30637, 30642 30081 30072, 30081 30072, 30081 30072, 30081 30072 30037, 30044 30037, 30045 30072, 30104 30037, 30048 30072, 30104 30337 30240 30337, 30081, 30104, 30320, 30347 30081	TELETECH TENOSAL TENSAI TEVION TEXET THOMAS THOMSON THORN TMK TOKAI TOPLINE	30321, 30642 30226 30000, 30072, 30278 30072 30000, 30072, 30278 30348, 30642 30278 30000 30041, 30067, 30278, 30320, 30321 30037, 30041, 30104 30240 30037, 30072 30348 30041, 30042, 30043, 30045, 30081, 30352, 30828, 31008,	AIRIS AIWA AKAI AKI AKURA ALBA ALCO ALIZE ALL-TEL ALLEGRO AMITECH	41450 40770, 40788, 40790 40672, 41005, 41107 40533, 40641 40766, 40770, 40788, 40790, 40898, 41115, 41233 41005 40898, 41140, 41170, 41233, 41367 40539, 40672, 40695, 40713, 40730, 41140 40790 41151 41451 40869 40770, 40850	COBY CODEX COMPACKS CONIA CONTINENTAL CRAIG CROWN CRYPTO CYBERCOM CYBERCOM CYBERHOME CYTRON D-VISION DAENYX DAEWOO INTI	40713 40730, 40852, 41107, 41165 41233 41107, 41265 40852 L EDISON 40831 40871 40770, 41115 41228 40831 40714, 40816, 41023 40651 41115 40872 40705, 40714, 40770, 40833, 40770, 40833, 40659 40710, 40872 ERNATIONAL
SEARS SEAWAY SEG SEI SELECO SEMP SENTRA SHARP SHINTOM SHIVAKI SHOGUN SIEMENS SIERA SILVA	30081, 30240, 30278, 30348, 30352, 30642 30043, 30045 30000, 30037, 30042, 30104 30278 30072, 30081, 30240, 30278, 30637, 30642 30081 30037, 30044 30037 30045 30072 30037, 30048 30072, 30104 30037 30240 30337, 30081, 30104, 30320, 30347 30081 30037	TELETECH TENOSAL TENSAI TEVION TEXET THOMAS THOMSON THORN TMK TOKAI TOPLINE TOSHIBA	30321, 30642 30226 30000, 30072, 30278 30072 30000, 30072, 30278 30348, 30642 30278 30000 30041, 30067, 30278, 30320, 30321 30037, 30041, 30104 30240 30037, 30072 30348 30041, 30042, 3043, 30045, 30081, 30352, 30828, 31008, 31972	AIRIS AIWA AKAI AKI AKURA ALBA ALCO ALIZE ALL-TEL ALLEGRO AMITECH AMOI	41450 40770, 40788, 40790 40672, 41005, 41107 40533, 40641 40766, 40770, 40788, 40790, 40898, 41115, 41233 411005 40898, 41140, 41170, 41233, 41367 40539, 40672, 40695, 40713, 40730, 41140 40790 41151 41451 40869 40770, 40850 40852	COBY CODEX COMPACKS CONIA CONTINENTAL CRAIG CROWN CRYPTO CYBERCOM CYBERHOME CYTRON D-VISION DAENYX DAEWOO DAEWOO INTO	40713 40730, 40852, 41107, 41165 41233 41107, 41265 40852 L EDISON 40831 40770, 41115 41228 40831 40714, 40816, 41023 40651 41115 40872 40705, 40714, 40770, 40833, 40869, 40872 ERNATIONAL 40872 41036, 41107
SEARS SEAWAY SEG SEI SELECO SEMP SENTRA SHARP SHINTOM SHIVAKI SHOGUN SIEMENS SIERA SILVA SILVER	30081, 30240, 30278, 30348, 30352, 30642 30043, 30045 30000, 30037, 30042, 30104 30278 30072, 30081, 30240, 30278, 30037, 30042 30081 30037, 30041 30045 30072 30037, 30048 30072, 30104 30037, 30040 30037, 30081, 30104, 30320, 30347 30081 30037 30278	TELETECH TENOSAL TENSAI TEVION TEXET THOMAS THOMSON THORN TMK TOKAI TOPLINE TOSHIBA TOTEVISION	30321, 30642 30226 30000, 30072, 30278 30072 30000, 30072, 30278 30348, 30642 30278 30000 30041, 30067, 30278, 30320, 30321 30037, 30041, 30104 30240 30037, 30072 30348 30041, 30042, 3043, 30045, 30081, 30352, 30828, 31008, 31972 30037, 30240	AIRIS AIWA AKAI AKI AKURA ALBA ALCO ALIZE ALL-TEL ALLEGRO AMITECH	41450 40770, 40788, 40790 40672, 41005, 41107 40533, 40641 40766, 40770, 40788, 40790, 40898, 41115, 41233 411005 40898, 41140, 41170, 41233, 41367 40539, 40672, 40695, 40713, 40730, 41140 40790 41151 41451 40869 40770, 40850 40852 DIA WORKS	COBY CODEX COMPACKS CONIA CONTINENTAL CRAIG CROWN CRYPTO CYBERCOM CYBERCOM CYBERHOME CYTRON D-VISION DAENYX DAEWOO DAEWOO INTO DALTON DANSAI	40713 40730, 40852, 41107, 41165 41233 41107, 41265 40852 L EDISON 40831 40770, 41115 41228 40831 40714, 40816, 41023 40651 41115 40872 40705, 40714, 40770, 40833, 40869, 40872 ERNATIONAL 40872 41036, 41107 40770, 41115
SEARS SEAWAY SEG SEI SELECO SEMP SENTRA SHARP SHINTOM SHIVAKI SHOGUN SIEMENS SIERA SILVA SILVER SINGER	30081, 30240, 30278, 30348, 30352, 30642 30043, 30045 30000, 30037, 30042, 30104 30278 30072, 30081, 30240, 30278, 30637, 30642 30037, 30041 30045 30072 30037, 30048 30072, 30104 30037, 30104 30037, 30104 30037, 30081 30037, 30081, 30104, 30320, 30347 30081 30037 30278 30045, 30072	TELETECH TENOSAL TENSAI TEVION TEXET THOMAS THOMSON THORN TMK TOKAI TOPLINE TOSHIBA TOTEVISION TOUCH	30321, 30642 30226 30000, 30072, 30278 30070, 30072, 30278 30348, 30642 30278 30000 30041, 30067, 30278, 30320, 30321 30037, 30041, 30104 30240 30037, 30072 30348 30041, 30042, 30043, 30045, 30081, 30352, 30828, 31008, 31972	AIRIS AIWA AKAI AKI AKURA ALBA ALCO ALIZE ALL-TEL ALLEGRO AMITECH AMOI AMPHION ME	41450 40770, 40788, 40790 40672, 41005, 41107 40533, 40641 40766, 40770, 40788, 40790, 40898, 41115, 41233 411005 40898, 41140, 41170, 41233, 41367 40539, 40672, 40695, 40713, 40790 41151 41451 40869 40770, 40850 40852 DIA WORKS	COBY CODEX COMPACKS CONIA CONTINENTAL CRAIG CROWN CRYPTO CYBERCOM CYBERHOME CYTRON D-VISION DAENYX DAEWOO DAEWOO INTO	40713 40730, 40852, 41107, 41165 41233 41107, 41265 40852 L EDISON 40831 40770, 41115 41228 40831 40714, 40816, 41023 40651 41115 40705, 40714, 40770, 40833, 40869, 40872 ERNATIONAL 40872 41036, 41107 40770, 41115 40539, 40713,
SEARS SEAWAY SEG SEI SELECO SEMP SENTRA SHARP SHINTOM SHIVAKI SHOGUN SIEMENS SIERA SILVA SILVER SINGER SINUDYNE	30081, 30240, 30278, 30348, 30352, 30642 30043, 30045 30000, 30037, 30042, 30104 30278 30072, 30081, 30240, 30278, 30037, 30041 30045 30072 30081, 30045 30072 30037, 30048 30072, 30104 30037, 30041 30104, 3037, 30081, 30104, 3037, 30081, 30104, 3037, 30081, 30037 30278 30045, 30072 30081, 30104, 3037 30278 30045, 30072 30081, 30352	TELETECH TENOSAL TENSAI TEVION TEXET THOMAS THOMSON THORN TMK TOKAI TOPLINE TOSHIBA TOTEVISION TOUCH TOWADA	30321, 30642 30226 30000, 30072, 30278 30070, 30072, 30278 30348, 30642 30278 30041, 30067, 30248, 30320, 30321 30037, 30041, 30104 30240 30037, 30072 30348 30041, 30042, 30043, 30045, 30081, 30352, 30828, 31008, 31972 30037, 30240 31972 30072	AIRIS AIWA AKAI AKI AKURA ALBA ALCO ALIZE ALL-TEL ALLEGRO AMITECH AMOI AMPHION ME AMSTRAD	41450 40770, 40788, 40790 40672, 41005, 41107 40533, 40641 40766, 40770, 40788, 40790, 40898, 41115, 41233 41005 40898, 41140, 41170, 41233, 41367 40539, 40672, 40695, 40713, 40730, 41140 40790 41151 41451 40869 40770, 40850 40852 DIA WORKS 40872 40713	COBY CODEX COMPACKS CONIA CONTINENTAL CRAIG CROWN CRYPTO CYBERCOM CYBERCOM CYBERHOME CYTRON D-VISION DAENYX DAEWOO DAEWOO INTER DALTON DANSAI DANSAI DANTAX	40713 40730, 40852, 41107, 41165 41233 41107, 41265 40852 L EDISON 40831 40770, 41115 41228 40831 40714, 40816, 41023 40651 41115 40872 40705, 40714, 40770, 40833, 40869, 40872 ERNATIONAL 40872 41036, 41107 40770, 41115 40539, 40713, 40723, 40790
SEARS SEAWAY SEG SEI SELECO SEMP SENTRA SHARP SHINTOM SHIVAKI SHOGUN SIEMENS SIERA SILVA SILVER SINGER SINUDYNE SMARAGD	30081, 30240, 30278, 30348, 30352, 30642 30043, 30045 30000, 30037, 30042, 30104 30278 30072, 30081, 30240, 30278, 30637, 30044 30072 30081 30072 30081, 30045 30072 30081, 30104, 30237, 30081 30072, 30104 30037, 30081, 30104, 30320, 30347 30081, 30104, 30320, 30347 30081, 30045, 30072 30081, 30352 30081, 30352 30348	TELETECH TENOSAL TENSAI TEVION TEXET THOMAS THOMSON THORN TMK TOKAI TOPLINE TOSHIBA TOTEVISION TOUCH TOWADA TRADEX	30321, 30642 30226 30000, 30072, 30278 30070, 30072, 30278 30348, 30642 30278 30041, 3067, 30278, 30320, 30321 30037, 30041, 30104 30240 30037, 30072 30348 30041, 30042, 30043, 30045, 30081, 30352, 30828, 31008, 31972 30037, 30240 31972 30072 30081	AIRIS AIWA AKAI AKI AKURA ALBA ALCO ALIZE ALL-TEL ALLEGRO AMITECH AMOI AMPHION ME AMSTRAD AMW	41450 40770, 40788, 40790 40672, 41005, 41107 40533, 40641 40766, 40770, 40788, 40790, 40898, 41115, 41233 41005 40898, 41140, 41170, 41233, 41367 40539, 40672, 40695, 40713, 40730, 41140 40790 41151 41451 40869 40770, 40850 40852 DIA WORKS 40872 40713 40872	COBY CODEX COMPACKS CONIA CONTINENTA CRAIG CROWN CRYPTO CYBERCOM CYBERHOME CYTRON D-VISION DAENYX DAEWOO DAEWOO INTI DALTON DANSAI DANTAX DAYTEK	40713 40730, 40852, 41107, 41165 41233 41107, 41265 40852 L EDISON 40831 40831 40770, 41115 41228 40831 40714, 40816, 41023 40651 41115 40872 40705, 40714, 40770, 40833, 40869, 40872 ERNATIONAL 40872 41036, 41107 40770, 41115 40539, 40713, 40723, 40790 40872, 41005
SEARS SEAWAY SEG SEI SELECO SEMP SENTRA SHARP SHINTOM SHIVAKI SHOGUN SIEMENS SIERA SILVA SILVER SINGER SINUDYNE SMARAGD SONNECLAIR	30081, 30240, 30278, 30348, 30352, 30642 30043, 30045 30000, 30037, 30042, 30104 30278 30072, 30081, 30240, 30278, 30637, 30642 30081 30037, 30044 30037 30045 30072 30081, 30240 3037, 30048 30072, 30104 30037 30240 3037, 30081, 30104, 30320, 30347 30081, 30104, 30327 30278 30045, 30072 30081, 30352 30081, 30352 30081, 30352 30081, 30372 30081, 30352 30348	TELETECH TENOSAL TENSAI TEVION TEXET THOMAS THOMSON THORN TMK TOKAI TOPLINE TOSHIBA TOTEVISION TOUCH TOWADA TRADEX UHER	30321, 30642 30226 30000, 30072, 30278 30072 30000, 30072, 30278 30348, 30642 30278 30000 30041, 30067, 30278, 30320, 30321 30037, 30041, 30104 30240 30037, 30072 30348 30041, 30042, 30043, 30045, 30081, 30352, 30828, 31008, 31972 30037, 30240 31972 30072 30081 30240	AIRIS AIWA AKAI AKI AKURA ALBA ALCO ALIZE ALL-TEL ALLEGRO AMITECH AMOI AMPHION ME AMSTRAD AMW ANSONIC	41450 40770, 40788, 40790 40672, 41005, 41107 40533, 40641 40766, 40770, 40788, 40790, 40898, 41115, 41233 41005 40898, 41140, 41170, 41233, 41367 40539, 40672, 40695, 40713, 40730, 41140 40790 41151 41451 40869 40770, 40850 40852 DIA WORKS 40872 40713 40872 40759, 40831	COBY CODEX COMPACKS CONIA CONTINENTAL CRAIG CROWN CRYPTO CYBERCOM CYBERCOM CYBERHOME CYTRON D-VISION DAENYX DAEWOO DAEWOO INTI DALTON DANSAI DANTAX DAYTEK DAYTON	40713 40730, 40852, 41107, 41165 41233 41107, 41265 40852 L EDISON 40831 40770, 41115 41228 40831 40714, 40816, 41023 40651 41115 40872 40705, 40714, 40770, 40833, 40869, 40872 ERNATIONAL 40872 41036, 41107 40770, 41115 40539, 40713, 40723, 40790 40872, 41005 40872
SEARS SEAWAY SEG SEI SELECO SEMP SENTRA SHARP SHINTOM SHIVAKI SHOGUN SIEMENS SIERA SILVA SILVER SINGER SINUDYNE SMARAGD SONNECLAIR SONTEC	30081, 30240, 30278, 30348, 30352, 30642 30043, 30045 30000, 30037, 30042, 30104 30278 30672, 30642 30081, 30240, 30278, 30637, 30642 30081, 30045 30072 30037, 30044 30037, 30044 30037, 30045 30072, 30104 30037, 30081, 30104, 303240 30037, 30081, 30104, 30327, 30081, 30081, 30081, 30037 30278 30045, 30072 30081, 30352 30348 30072 30081, 30352 30348 30072 30037	TELETECH TENOSAL TENSAI TEVION TEXET THOMAS THOMSON THORN TMK TOKAI TOPLINE TOSHIBA TOTEVISION TOUCH TOWADA TRADEX UHER ULTRAVOX	30321, 30642 30226 30000, 30072, 30278 30072 30000, 30072, 30278 30348, 30642 30278 30000 30041, 30067, 30278, 30320, 30321 30037, 30041, 30104 30037, 30072 30348 30041, 30042, 3043, 30045, 30081, 30352, 30828, 31008, 31972 30037, 30240 31972 30072 30081 30240 30278	AIRIS AIWA AKAI AKI AKURA ALBA ALCO ALIZE ALL-TEL ALLEGRO AMITECH AMOI AMPHION ME AMSTRAD AMW	41450 40770, 40788, 40790 40672, 41005, 41107 40533, 40641 40766, 40770, 40788, 40790, 40898, 41115, 41233 411005 40898, 41140, 41170, 41233, 41367 40539, 40672, 40695, 40713, 40730, 41140 40790 41151 41451 40869 40870, 40850 40852 DIA WORKS 40872 40713 40759, 40831 L40672, 41004,	COBY CODEX COMPACKS CONIA CONTINENTAL CRAIG CROWN CRYPTO CYBERCOM CYBERCOM CYBERHOME CYTRON D-VISION DAENYX DAEWOO DAEWOO INTO DALTON DANSAI DANTAX DAYTEK DAYTON DCE	40713 40730, 40852, 41107, 41165 41233 41107, 41265 40852 L EDISON 40831 40770, 41115 41228 40831 40714, 40816, 41023 40651 41115 40872 40705, 40714, 40770, 40833, 40869, 40872 ERNATIONAL 40872 41036, 41107 40770, 41115 40539, 40713, 40723, 40790 40872, 41005 40872 40872, 41005 40872
SEARS SEAWAY SEG SEI SELECO SEMP SENTRA SHARP SHINTOM SHIVAKI SHOGUN SIEMENS SIERA SILVA SILVER SINGER SINUDYNE SMARAGD SONNECLAIR SONTEC SONWA	30081, 30240, 30278, 30348, 30352, 30642 30043, 30045 30000, 30037, 30042, 30104 30278 30072, 30081, 30240, 30278, 300642, 30072, 30041 30045 30072 30037, 30044 30037, 30044 30037, 30041 30045 30072 30037, 30081, 30104, 303240 30037, 30081, 30104, 30327, 30081, 30104, 30327, 30081, 30081 30037 30278 30045, 30072 30081, 30352 30348 30072 30081, 30352 30348 30072 30037 30642	TELETECH TENOSAL TENSAI TEVION TEXET THOMAS THOMSON THORN TMK TOKAI TOPLINE TOSHIBA TOTEVISION TOUCH TOWADA TRADEX UHER ULTRAVOX UNITECH	30321, 30642 30226 30000, 30072, 30278 30072 30000, 30072, 30278 30348, 30642 30278 30000 30041, 30067, 30278, 30320, 30321 30037, 30041, 30104 30240 30037, 30072 30348 30041, 30042, 30043, 30045, 30081, 30352, 30828, 31008, 31972 30037, 30240 31972 30072 30081 30240 30278 30240	AIRIS AIWA AKAI AKI AKURA ALBA ALCO ALIZE ALL-TEL ALLEGRO AMITECH AMOI AMPHION ME AMSTRAD AMW ANSONIC APEX DIGITAL	41450 40770, 40788, 40790 40672, 41005, 41107 40533, 40641 40766, 40770, 40788, 40790, 40898, 41115, 41233 411005 40898, 41140, 41170, 41233, 41367 40539, 40672, 40695, 40713, 40730, 41140 40790 41151 41451 40869 40770, 40850 40852 DIA WORKS 40872 40713 40872 40759, 40831 L40672, 41004, 41020, 41833	COBY CODEX COMPACKS CONIA CONTINENTAL CRAIG CROWN CRYPTO CYBERCOM CYBERCOM CYBERHOME CYTRON D-VISION DAENYX DAEWOO INTO DALTON DANSAI DANTAX DAYTEK DAYTON DCE DECCA	40713 40730, 40852, 41107, 41165 41233 41107, 41265 40852 L EDISON 40831 40770, 41115 41228 40831 40714, 40816, 41023 40651 41115 40770, 40833, 40872 40705, 40714, 40770, 40833, 40869, 40872 ERNATIONAL 40872 41036, 41107 40770, 41115 40539, 40713, 40770, 41115 40872 40770, 41115 40872 40872 40872 40872 40872 40872 40872 40873, 40790 40872, 41005 40872 408831 40770, 41115
SEARS SEAWAY SEG SEI SELECO SEMP SENTRA SHARP SHINTOM SHIVAKI SHOGUN SIEMENS SIERA SILVA SILVER SINGER SINUDYNE SMARAGD SONNECLAIR SONTEC	30081, 30240, 30278, 30348, 30352, 30642 30043, 30045 30000, 30037, 30042, 30104 30278 30072, 30081, 30240, 30278, 30637, 30642 30081 30037, 30044 30072 30037, 30048 30072, 30104 30037, 30040 30037, 30048 30072, 30104 30037, 30081, 30104, 30320, 30347 30081 30037, 30081, 30104, 30320, 30348 30072 30081, 30352 30348 30072 30037 30642 30000, 30032,	TELETECH TENOSAL TENSAI TEVION TEXET THOMAS THOMSON THORN TMK TOKAI TOPLINE TOSHIBA TOTEVISION TOUCH TOWADA TRADEX UHER ULTRAVOX UNITECH UNITED	30321, 30642 30226 30000, 30072, 30278 30072 30000, 30072, 30278 30348, 30642 30278 30000 30041, 30067, 30278, 30320, 30321 30037, 30041, 30104 30240 30037, 30072 30348 30041, 30042, 30043, 30045, 30081, 30352, 30828, 31008, 31972 30037, 30240 31972 30072 30081 30240 30278 30240 30378 30240 30378	AIRIS AIWA AKAI AKI AKURA ALBA ALCO ALIZE ALL-TEL ALLEGRO AMITECH AMOI AMPHION ME AMSTRAD AMW ANSONIC APEX DIGITAL ARIANET	41450 40770, 40788, 40790 40672, 41005, 41107 40533, 40641 40766, 40770, 40788, 40790, 40898, 41115, 41233 41005 40898, 41140, 41170, 41233, 41367 40539, 40672, 40695, 40713, 40790 41151 41451 40869 40770, 40850 40852 DIA WORKS 40872 40713 40872 40759, 40831 L40672, 41004, 41020, 41833 40818	COBY CODEX COMPACKS CONIA CONTINENTAL CRAIG CROWN CRYPTO CYBERCOM CYBERCOM CYBERHOME CYTRON D-VISION DAENYX DAEWOO DAEWOO INTO DALTON DANSAI DANTAX DAYTEK DAYTON DCE	40713 40730, 40852, 41107, 41165 41233 41107, 41265 40852 L EDISON 40831 40770, 41115 41228 40831 40714, 40816, 41023 40651 41115 40115 40872 40705, 40714, 40770, 40833, 40869, 40872 ERNATIONAL 40872 40705, 41115 40539, 40713, 40723, 40790 40872, 41005 40872 40881 40872 4070, 41115 40490, 40634,
SEARS SEAWAY SEG SEI SELECO SEMP SENTRA SHARP SHINTOM SHIVAKI SHOGUN SIEMENS SIERA SILVA SILVER SINGER SINUDYNE SMARAGD SONNECLAIR SONTEC SONWA	30081, 30240, 30278, 30348, 30352, 30642 30043, 30045 30000, 30037, 30042, 30104 30278 30072, 30081, 30240, 30278, 30637, 30041 30045 30072, 30081 30037, 30041 30045 30072 30037, 30048 30072, 30104 30037, 30040 30037, 30081, 30104, 30320, 30347 30081, 30045, 30072 30081, 30037, 30081, 30045, 30072 30081, 30037, 30081, 30037, 30081, 30037, 30045, 30072 30081, 30337, 30045, 30072 30081, 30337, 30045, 30072 30081, 30337, 30045, 30072 30081, 3033037, 30045, 30072 30031, 30337, 30642 30000, 30032, 30033, 30034,	TELETECH TENOSAL TENSAI TEVION TEXET THOMAS THOMSON THORN TMK TOKAI TOPLINE TOSHIBA TOTEVISION TOUCH TOWADA TRADEX UHER ULTRAVOX UNITECH	30321, 30642 30226 30000, 30072, 30278 30072 30000, 30072, 30278 30348, 30642 30278 30041, 30067, 30278, 30320, 30321 30037, 30041, 30104 30240 30037, 30072 30348 30041, 30042, 30043, 30045, 30081, 30352, 30828, 31008, 31972 30037, 30240 31972 30072 30081 30240 30278 30240 30348 30000, 30037,	AIRIS AIWA AKAI AKI AKURA ALBA ALCO ALIZE ALL-TEL ALLEGRO AMITECH AMOI AMPHION ME AMSTRAD AMW ANSONIC APEX DIGITAL ARIANET AUDIOSONIC	41450 40770, 40788, 40790 40672, 41005, 41107 40533, 40641 40766, 40770, 40788, 40790, 40898, 41115, 41233 41005 40898, 41140, 41170, 41233, 41367 40539, 40672, 40695, 40713, 40730, 41140 40790 41151 41451 40869 40770, 40850 40852 DIA WORKS 40872 40713 40872 40713 40872 40759, 40831 L40672, 41004, 41020, 41833 40818 41265	COBY CODEX COMPACKS CONTIA CONTINENTAL CRAIG CROWN CRYPTO CYBERCOM CYBERHOME CYTRON D-VISION DAENYX DAEWOO DAEWOO INTE DALTON DANSAI DANTAX DAYTEK DAYTON DCE DECCA DENON	40713 40730, 40852, 41107, 41165 41233 41107, 41265 40852 L EDISON 40831 40770, 41115 41228 40831 40714, 40816, 41023 40651 41115 40872 40705, 40714, 40770, 40833, 40869, 40872 ERNATIONAL 40872 41036, 41107 40770, 41115 40539, 40713, 40723, 40790 40872, 41005 40872 40881 40872 40871 40970, 41115 40490, 40634, 41282, 41634
SEARS SEAWAY SEG SEI SELECO SEMP SENTRA SHARP SHINTOM SHIVAKI SHOGUN SIEMENS SIERA SILVA SILVER SINGER SINUDYNE SMARAGD SONNECLAIR SONTEC SONWA	30081, 30240, 30278, 30348, 30352, 30642 30043, 30045 30000, 30037, 30042, 30104 30278 30637, 30642 30637, 30642 30637, 30642 30081 30037, 30044, 30278 30072 30081, 30347 30040 30037, 30041 30045 30072, 30104 30037 30240 30037, 30081, 30104, 30320, 30347 30081 30037 30278 30045, 30072 30031, 30352 30348 30072 30081, 30352 30348 30072 30037 30642 30037 30642 300337 30642 300337 30642 300333, 30034, 30106, 31032,	TELETECH TENOSAL TENSAI TEVION TEXET THOMAS THOMSON THORN TMK TOKAI TOPLINE TOSHIBA TOTEVISION TOUCH TOWADA TRADEX UHER ULTRAVOX UNITECH UNITED	30321, 30642 30226 30000, 30072, 30072 30000, 30072, 30278 30348, 30642 30278 30041, 30067, 30278, 30320, 30321 30037, 30041, 30104 30240 30037, 30042, 30041, 30042, 30041, 30045, 30081, 30352, 30828, 31008, 31972 30037, 30240 31972 30072 30081 30240 30278 30240 30278 30240 30348 30000, 30037, 30081, 30104,	AIRIS AIWA AKAI AKI AKURA ALBA ALCO ALIZE ALL-TEL ALLEGRO AMITECH AMOI AMPHION ME AMSTRAD AMW ANSONIC APEX DIGITAL ARIANET AUDIOSONIC AUDIOVOX	41450 40770, 40788, 40790 40672, 41005, 41107 40533, 40641 40766, 40770, 40788, 40790, 40898, 41115, 41233 41005 40898, 41140, 41170, 41233, 41367 40539, 40672, 40695, 40713, 40730, 41140 40790 41151 41451 40869 40770, 40850 40852 DIA WORKS 40872 40713 40872 40759, 40831 40672, 41004, 41020, 41833 40818 41265 40790	COBY CODEX COMPACKS CONIA CONTINENTAL CRAIG CROWN CRYPTO CYBERCOM CYBERCOM CYBERHOME CYTRON D-VISION DAENYX DAEWOO INTO DALTON DANSAI DANTAX DAYTEK DAYTON DCE DECCA	40713 40730, 40852, 41107, 41165 41233 41107, 41265 40852 L EDISON 40831 40770, 41115 41228 40831 40714, 40816, 41023 40651 41115 40872 40705, 40714, 40770, 40833, 40869, 40872 ERNATIONAL 40872 41036, 41107 40770, 41115 40539, 40713, 40723, 40790 40872, 41005 40872 40872 40881 40770, 41115 40872 40881 40770, 41115 40872 408831 40770, 41115 40898, 40898,
SEARS SEAWAY SEG SEI SELECO SEMP SENTRA SHARP SHINTOM SHIVAKI SHOGUN SIEMENS SIERA SILVA SILVER SINGER SINUDYNE SMARAGD SONNECLAIR SONTEC SONWA SONY	30081, 30240, 30278, 30348, 30352, 30642 30043, 30045 30000, 30037, 30042, 30104 30278 30672, 30642 30081, 30240, 30278, 30637, 30642 30081 30037, 30044 30072 30037, 30044 30037 30045 30072 30037, 30048 30072, 30104 30037 30240 30337, 30081, 30104, 30327, 30081, 30104, 30327 30081, 30347 30081, 30347 30081, 3037 30278 3045, 30072 30081, 30352 30348 30072 30081, 30352 30348 30072 30081, 30352 30348 30072 30081, 30352 30348 30072 30081, 30352 30348 30072 30081, 30352 30348 30072 30081, 30352 30348 30072 30081, 30352 30348 30072 30081, 30352 30348 30072 30081, 30352 30348 30072 30081, 30352 30348 30072 30081, 30352 30348 30072 30081, 30352 30348 30072 30081, 30352 30348 30072 30081, 30352 30348 30072 30081, 30352 30348 30072 30081, 30352 30384 30106, 31032, 31636, 31972	TELETECH TENOSAL TENSAI TEVION TEXET THOMAS THOMSON THORN TMK TOKAI TOPLINE TOSHIBA TOTEVISION TOUCH TOWADA TRADEX UHER ULTRAVOX UNITECH UNITED	30321, 30642 30226 30000, 30072, 30278 30072 30000, 30072, 30278 30348, 30642 30278 30041, 30067, 30278, 30320, 30321 30037, 30041, 30104 30240 30037, 30041, 30041, 30042, 30441, 30042, 30441, 30042, 3048, 30045, 30081, 30352, 30828, 31008, 31972 30037, 30240 31972 30072 30081 30240 30278 30240 30348 30040, 30037, 30081, 30104, 30106, 30240,	AIRIS AIWA AKAI AKI AKURA ALBA ALCO ALIZE ALL-TEL ALLEGRO AMITECH AMOI AMPHION ME AMSTRAD AMW ANSONIC APEX DIGITAL ARIANET AUDIOSONIC AUDIOVOX AUVIO	41450 40770, 40788, 40790 40672, 41005, 41107 40533, 40641 40766, 40770, 40788, 40790, 40898, 41115, 41233 411005 40898, 41140, 41170, 41233, 41367 40539, 40672, 40695, 40713, 40730, 41140 40790 41151 41451 40869 40770, 40850 40852 DIA WORKS 40872 40713 40759, 40811 L40672, 41004, 41020, 41833 40818 41265 40790 40843, 41090	COBY CODEX COMPACKS CONTIA CONTINENTAL CRAIG CROWN CRYPTO CYBERCOM CYBERHOME CYTRON D-VISION DAENYX DAEWOO DAEWOO INTE DALTON DANSAI DANTAX DAYTEK DAYTON DCE DECCA DENON	40713 40730, 40852, 41107, 41165 41233 41107, 41265 40852 L EDISON 40831 40770, 41115 41228 40831 40714, 40816, 41023 40651 41115 40872 40705, 40714, 40770, 40833, 40869, 40872 ERNATIONAL 40872 41036, 41107 40770, 41115 40539, 40713, 40770, 41115 40539, 40713, 40723, 40790 40872, 41005 40872 40831 40770, 41115 40490, 40634, 41282, 41634 40788, 40898, 41107, 41165,
SEARS SEAWAY SEG SEI SELECO SEMP SENTRA SHARP SHINTOM SHIVAKI SHOGUN SIEMENS SIERA SILVA SILVER SINGER SINUDYNE SMARAGD SONNECLAIR SONTEC SONWA	30081, 30240, 30278, 30348, 30352, 30642 30043, 30045 30000, 30037, 30042, 30104 30278 30672, 30642 30037, 30642 30037, 30045 30072 30037, 30041 30045 30072 30037, 30041 30045 30072 30037, 30081, 30104, 30320, 30347 30081 30037, 30081, 30104, 303278 30045, 30072 30081, 30347 30081 30037 30278 3045, 30072 30081, 30352 30348 30072 303348 30072 3033, 3034, 30106, 31032, 31636, 31972 30037, 30348 30106, 31032, 31636, 31972 30037, 30348	TELETECH TENOSAL TENSAI TEVION TEXET THOMAS THOMSON THORN TMK TOKAI TOPLINE TOSHIBA TOTEVISION TOUCH TOWADA TRADEX UHER ULTRAVOX UNITECH UNITED	30321, 30642 30226 30000, 30072, 30072 30000, 30072, 30278 30348, 30642 30278 30041, 30067, 30278, 30320, 30321 30037, 30041, 30104 30240 30037, 30042, 30041, 30042, 30041, 30045, 30081, 30352, 30828, 31008, 31972 30037, 30240 31972 30072 30081 30240 30278 30240 30278 30240 30348 30000, 30037, 30081, 30104,	AIRIS AIWA AKAI AKI AKURA ALBA ALCO ALIZE ALL-TEL ALLEGRO AMITECH AMOI AMPHION ME AMSTRAD AMW ANSONIC APEX DIGITAL ARIANET AUDIOSONIC AUDIOVOX	41450 40770, 40788, 40790 40672, 41005, 41107 40533, 40641 40766, 40770, 40788, 40790, 40898, 41115, 41233 41005 40898, 41140, 41170, 41233, 41367 40539, 40672, 40695, 40713, 40730, 41140 40790 41151 41451 40869 40770, 40850 40852 DIA WORKS 40872 40713 40872 40759, 40831 40672, 41004, 41020, 41833 40818 41265 40790	COBY CODEX COMPACKS CONTIA CONTINENTAL CRAIG CROWN CRYPTO CYBERCOM CYBERHOME CYTRON D-VISION DAENYX DAEWOO DAEWOO INTE DALTON DANSAI DANTAX DAYTEK DAYTON DCE DECCA DENON	40713 40730, 40852, 41107, 41165 41233 41107, 41265 40852 L EDISON 40831 40770, 41115 41228 40831 40714, 40816, 41023 40651 41115 40872 40705, 40714, 40770, 40833, 40869, 40872 ERNATIONAL 40872 41036, 41107 40770, 41115 40539, 40713, 40723, 40790 40872, 41005 40872 40872 40881 40770, 41115 40872 40881 40770, 41115 40872 40881 40770, 41115 40898, 40898,

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	40591, 40741 40651, 40713, 40723, 40730, 40790, 40833,	LITEON LODOS LOEWE	41058 40713 40511, 40539, 40741	ORION ORITRON ORMOND	40695, 41006, 41128, 41233 40651 40713	SCHAUB LORI	ENZ 40770, 40788, 41115, 41151 40539, 40651,
	40591, 40741 40651, 40713, 40723, 40730, 40790, 40833, 40879, 41004,	LITEON LODOS LOEWE	41058 40713 40511, 40539, 40741 40705	ORION ORITRON ORMOND P&B	40695, 41006, 41128, 41233 40651 40713 40818, 41451	SCHAUB LORI	ENZ 40770, 40788, 41115, 41151 40539, 40651, 40705, 40713,
GOODMANS	40591, 40741 40651, 40713, 40723, 40730, 40790, 40833, 40879, 41004, 41140	LITEON LODOS LOEWE LOGIX LUKER	41058 40713 40511, 40539, 40741 40705 41367	ORION ORITRON ORMOND	40695, 41006, 41128, 41233 40651 40713 40818, 41451 40695, 40713,	SCHAUB LORI	ENZ 40770, 40788, 41115, 41151 40539, 40651, 40705, 40713, 40779, 40788,
GOODMANS GRAETZ	40591, 40741 40651, 40713, 40723, 40730, 40790, 40833, 40879, 41004, 41140 40665	LITEON LODOS LOEWE	41058 40713 40511, 40539, 40741 40705 41367 40695, 40705,	ORION ORITRON ORMOND P&B	40695, 41006, 41128, 41233 40651 40713 40818, 41451 40695, 40713, 40759, 40768,	SCHAUB LORI	40770, 40788, 41115, 41151 40539, 40651, 40705, 40713, 40779, 40788, 40790, 40804,
GOODMANS GRAETZ GRAN PRIX	40591, 40741 40651, 40713, 40723, 40730, 40790, 40833, 40879, 41004, 41140 40665 40831, 40898	LITEON LODOS LOEWE LOGIX LUKER	41058 40713 40511, 40539, 40741 40705 41367 40695, 40705, 40741, 40833,	ORION ORITRON ORMOND P&B	40695, 41006, 41128, 41233 40651 40713 40818, 41451 40695, 40713, 40759, 40768, 40790, 40804,	SCHAUB LORI	ENZ 40770, 40788, 41115, 41151 40539, 40651, 40705, 40713, 40779, 40788, 40790, 40804, 40831
GRAETZ GRAN PRIX GRANDIN	40591, 40741 40651, 40713, 40723, 40730, 40790, 40833, 40879, 41004, 41140 40665 40831, 40898 40713, 41233	LITEON LODOS LOEWE LOGIX LUKER LUMATRON	41058 40713 40511, 40539, 40741 40705 41367 40695, 40705, 40741, 40833, 41115	ORION ORITRON ORMOND P&B PACIFIC	40695, 41006, 41128, 41233 40651 40713 40818, 41451 40695, 40713, 40759, 40768, 40790, 40804, 40831	SCHAUB LORI	ENZ 40770, 40788, 41115, 41151 40539, 40651, 40705, 40713, 40779, 40788, 40790, 40804, 40831 ABS
GOODMANS GRAETZ GRAN PRIX	40591, 40741 40651, 40713, 40723, 40730, 40790, 40833, 40879, 41004, 41140 40665 40831, 40898 40713, 41233 40539, 40651,	LITEON LODOS LOEWE LOGIX LUKER LUMATRON	41058 40713 40511, 40539, 40741 40705 41367 40695, 40705, 40741, 40833, 41115 40741	ORION ORITRON ORMOND P&B	40695, 41006, 41128, 41233 40651 40713 40818, 41451 40695, 40713, 40759, 40768, 40790, 40804, 40831 LL	SCHAUB LORI SCHNEIDER SCIENTIFIC LA	ENZ 40770, 40788, 41115, 41151 40539, 40651, 40705, 40713, 40779, 40788, 40790, 40804, 40831 ABS 40768
GRAETZ GRAN PRIX GRANDIN	40591, 40741 40651, 40713, 40723, 40730, 40790, 40833, 40879, 41004, 41140 40665 40831, 40898 40713, 41233 40539, 40651, 40670, 40695,	LITEON LODOS LOEWE LOGIX LUKER LUMATRON LUNATRON LUXMAN	41058 40713 40511, 40539, 40741 40705 41367 40695, 40705, 40741, 40833, 41115 40741 40573	ORION ORITRON ORMOND P&B PACIFIC PACKARD BEI	40695, 41006, 41128, 41233 40651 40713 40818, 41451 40695, 40713, 40759, 40768, 40790, 40804, 40831 LL 40831	SCHAUB LORI	ENZ 40770, 40788, 41115, 41151 40539, 40651, 40705, 40713, 40779, 40788, 40790, 40804, 40831 ABS 40768 40651, 40672,
GRAETZ GRAN PRIX GRANDIN	40591, 40741 40651, 40713, 40723, 40730, 40790, 40833, 40879, 41004, 41140 40665 40831, 40898 40713, 41233 40539, 40651, 40670, 40695, 40705, 40713,	LITEON LODOS LOEWE LOGIX LUKER LUMATRON LUNATRON LUXMAN LUXOR	41058 40713 40511, 40539, 40741 40705 41367 40695, 40705, 40741, 40833, 41115 40741 40573 40713, 41004	ORION ORITRON ORMOND P&B PACIFIC PACKARD BEI PALLADIUM	40695, 41006, 41128, 41233 40651 40713 40818, 41451 40695, 40713, 40759, 40768, 40790, 40804, 40831 LL 40831 40695, 40779	SCHAUB LORI SCHNEIDER SCIENTIFIC LA	ENZ 40770, 40788, 41115, 41151 40539, 40651, 40705, 40713, 40779, 40788, 40790, 40804, 40831 ABS 40768 40651, 40672, 40718, 41005,
GRAETZ GRAN PRIX GRANDIN	40591, 40741 40651, 40713, 40723, 40730, 40790, 40833, 40879, 41004, 41140 40665 40831, 40898 40713, 41233 40539, 40651, 40670, 40695, 40705, 40713, 40775, 40790,	LITEON LODOS LOEWE LOGIX LUKER LUMATRON LUNATRON LUXMAN	41058 40713 40511, 40539, 40741 40705 41367 40695, 40705, 40741, 40833, 41115 40741 40573 40713, 41004 40503, 40539,	ORION ORITRON ORMOND P&B PACIFIC PACKARD BEI PALLADIUM PALSONIC	40695, 41006, 41128, 41233 40651 40713 40818, 41451 40695, 40713, 40759, 40768, 40790, 40804, 40831 LL 40695, 40779 40672, 40852	SCHAUB LORI SCHNEIDER SCIENTIFIC LA SCOTT	ENZ 40770, 40788, 41115, 41151 40539, 40651, 40705, 40713, 40779, 40788, 40790, 40804, 40831 ABS 40768 40651, 40672, 40718, 41005, 41036, 41233
GRAETZ GRAN PRIX GRANDIN	40591, 40741 40651, 40713, 40723, 40730, 40790, 40833, 40879, 41004, 41140 40665 40831, 40898 40713, 41233 40539, 40651, 40670, 40695, 40705, 40713, 40775, 40790, 41004, 41036,	LITEON LODOS LOEWE LOGIX LUKER LUMATRON LUNATRON LUXMAN LUXOR	41058 40713 40511, 40539, 40741 40705 41367 40695, 40705, 40741, 40833, 41115 40741 40573 40713, 41004 40503, 40539, 40675, 40713,	ORION ORITRON ORMOND P&B PACIFIC PACKARD BEI PALLADIUM PALSONIC PANASONIC	40695, 41006, 41128, 41233 40651 40713 40818, 41451 40695, 40713, 40759, 40768, 40790, 40804, 40831 LL 40831 40695, 40779 40672, 40852 40490, 41282	SCHAUB LORI SCHNEIDER SCIENTIFIC LA	ENZ 40770, 40788, 41115, 41151 40539, 40651, 40705, 40713, 40779, 40788, 40790, 40804, 40831 ABS 40768 40651, 40672, 40718, 41005, 41036, 41233 40665, 40713,
GRAETZ GRAN PRIX GRANDIN GRUNDIG	40591, 40741 40651, 40713, 40723, 40730, 40790, 40833, 40879, 41004, 41140 40665 40831, 40898 40713, 41233 40539, 40651, 40670, 40695, 40705, 40713, 40775, 40790, 41004, 41036, 41128	LITEON LODOS LOEWE LOGIX LUKER LUMATRON LUNATRON LUXMAN LUXOR	41058 40713 40511, 40539, 40741 40705 41367 40695, 40705, 40741, 40833, 41115 40741 40573 40713, 41004 40503, 40539,	ORION ORITRON ORMOND P&B PACIFIC PACKARD BEI PALLADIUM PALSONIC	40695, 41006, 41128, 41233 40651 40713 40818, 41451 40695, 40713, 40790, 40804, 40790, 40804, 40831 LL 40831 40695, 40779 40672, 40852 40490, 41282 PICTURES	SCHAUB LORI SCHNEIDER SCIENTIFIC LA SCOTT	ENZ 40770, 40788, 41115, 41151 40539, 40651, 40705, 40713, 40779, 40788, 40790, 40804, 40831 ABS 40651, 40672, 40718, 41005, 41036, 41233 40665, 40713, 40763, 40768,
GRAETZ GRAN PRIX GRANDIN	40591, 40741 40651, 40713, 40723, 40730, 40790, 40833, 40879, 41004, 41140 40665 40831, 40898 40713, 41233 40539, 40651, 40670, 40695, 40705, 40713, 40775, 40790, 41004, 41036,	LITEON LODOS LOEWE LOGIX LUKER LUMATRON LUNATRON LUXMAN LUXOR	41058 40713 40511, 40539, 40741 40705 41367 40695, 40705, 40741, 40833, 41115 40741 40573 40713, 41004 40503, 40539, 40675, 40713,	ORION ORITRON ORMOND P&B PACIFIC PACKARD BEI PALLADIUM PALSONIC PANASONIC	40695, 41006, 41128, 41233 40651 40713 40818, 41451 40695, 40713, 40759, 40768, 40790, 40804, 40831 LL 40831 40695, 40779 40672, 40852 40490, 41282	SCHAUB LORI SCHNEIDER SCIENTIFIC LA SCOTT	ENZ 40770, 40788, 41115, 41151 40539, 40651, 40705, 40713, 40779, 40788, 40790, 40804, 40831 ABS 40768 40651, 40672, 40718, 41005, 41036, 41233 40665, 40713,
GRAETZ GRAN PRIX GRANDIN GRUNDIG	40591, 40741 40651, 40713, 40723, 40730, 40790, 40833, 40879, 41004, 41140 40665 40831, 40898 40713, 41233 40539, 40651, 40670, 40695, 40705, 40713, 40775, 40790, 41004, 41036, 41128	LITEON LODOS LOEWE LOGIX LUKER LUMATRON LUNATRON LUXMAN LUXOR MAGNAVOX	41058 40713 40511, 40539, 40741 40705 41367 40695, 40705, 40741, 40833, 41115 40741 40573 40713, 41004 40503, 40539, 40675, 40713, 41140	ORION ORITRON ORMOND P&B PACIFIC PACKARD BEI PALLADIUM PALSONIC PANASONIC	40695, 41006, 41128, 41233 40651 40713 40818, 41451 40695, 40713, 40790, 40804, 40790, 40804, 40831 LL 40831 40695, 40779 40672, 40852 40490, 41282 PICTURES	SCHAUB LORI SCHNEIDER SCIENTIFIC LA SCOTT	ENZ 40770, 40788, 41115, 41151 40539, 40651, 40705, 40713, 40779, 40788, 40790, 40804, 40831 ABS 40651, 40672, 40718, 41005, 41036, 41233 40665, 40713, 40763, 40768,
GRAETZ GRAN PRIX GRANDIN GRUNDIG	40591, 40741 40651, 40713, 40723, 40730, 40790, 40833, 40879, 41004, 41140 40665 40831, 40898 40713, 41233 40539, 40651, 40670, 40695, 40705, 40713, 40775, 40790, 41004, 41036, 41128 40770	LITEON LODOS LOEWE LOGIX LUKER LUMATRON LUNATRON LUXMAN LUXOR MAGNAVOX	41058 40713 40511, 40539, 40741 40705 41367 40695, 40705, 40741, 40833, 41115 40741 40573 40713, 41004 40503, 40539, 40675, 40713, 41140 40723, 41165 41107	ORION ORITRON ORMOND P&B PACIFIC PACKARD BEI PALLADIUM PALSONIC PANASONIC PARAMOUNT	40695, 41006, 41128, 41233 40651 40713 40818, 41451 40695, 40713, 40799, 40804, 40831 LL 40831 40695, 40779 40672, 40852 40490, 41282 PICTURES 40779	SCHAUB LORI SCHNEIDER SCIENTIFIC LA SCOTT SEG	ENZ 40770, 40788, 41115, 41151 40539, 40651, 40705, 40713, 40779, 40788, 40790, 40804, 40831 ABS 40768 40651, 40672, 40718, 41005, 41036, 41233 40665, 40713, 40768, 4078, 40768, 4078, 40768, 40872
GRAETZ GRAN PRIX GRANDIN GRUNDIG	40591, 40741 40651, 40713, 40723, 40730, 40790, 40833, 40879, 41004, 41140 40665 40831, 40898 40713, 41233 40539, 40651, 40670, 40695, 40705, 40713, 4104, 41036, 41128 40770 40818, 40841, 40850, 41233	LITEON LODOS LOEWE LOGIX LUKER LUMATRON LUNATRON LUXMAN LUXOR MAGNAVOX MAGNEX MAJESTIC	41058 40713 40511, 40539, 40741 40705 41367 40695, 40705, 40741, 40833, 41115 40741 40573 40713, 41004 40503, 40539, 40675, 40713, 41140 40723, 41165 41107	ORION ORITRON ORMOND P&B PACIFIC PACKARD BEI PALLADIUM PALSONIC PANASONIC PARAMOUNT PEEKTON PHILCO	40695, 41006, 41128, 41233 40651 40713 40818, 41451 40695, 40713, 40759, 40768, 40790, 40804, 40831 LL 40831 40695, 40779 40672, 40852 40490, 41282 PICTURES 40779 40898 40788	SCHAUB LORI SCHNEIDER SCIENTIFIC LA SCOTT SEG SHANGHAI	ENZ 40770, 40788, 41115, 41151 40539, 40651, 40705, 40713, 40779, 40788, 40790, 40804, 40831 ABS 40768 40651, 40672, 40718, 41005, 41036, 41233 40665, 40713, 40763, 40768, 40872 40672
GRAETZ GRAN PRIX GRANDIN GRUNDIG GRUNKEL H & B	40591, 40741 40651, 40713, 40723, 40730, 40790, 40833, 40879, 41004, 41140 40665 40831, 40898 40713, 41233 40539, 40651, 40670, 40695, 40705, 40713, 40775, 40790, 41004, 41036, 41128 40770 40818, 40841, 40850, 41233 40713, 40818,	LITEON LODOS LOEWE LOGIX LUKER LUMATRON LUNATRON LUXMAN LUXOR MAGNAVOX MAGNEX MAJESTIC MANHATTAN MARANTZ	41058 40713 40511, 40539, 40741 40705 41367 40695, 40705, 40741, 40833, 41115 40741 40573 40713, 41004 40503, 40539, 40675, 40713, 41140 40723, 41165 41107 40705, 40713 40539	ORION ORITRON ORMOND P&B PACIFIC PACKARD BEI PALLADIUM PALSONIC PANASONIC PARAMOUNT PEEKTON	40695, 41006, 41128, 41233 40651 40713 40818, 41451 40695, 40713, 40759, 40768, 40790, 40804, 40831 LL 40695, 40779 40672, 40852 40490, 41282 PICTURES 40779 40688 40788 40788 40503, 40539,	SCHAUB LORI SCHNEIDER SCIENTIFIC LA SCOTT SEG SHANGHAI SHARP	ENZ 40770, 40788, 41115, 41151 40539, 40651, 40705, 40713, 40779, 40788, 40790, 40804, 40831 ABS 40768 40651, 40672, 40718, 41005, 41036, 41233 40665, 40713, 40782 40672 40672, 40718, 41036, 41036, 41233 40665, 40713, 40672 40673, 4073, 40672 40673, 4073, 40673, 4073, 40673, 4073, 40673, 4073, 40673, 4073, 40673, 4073,
GRAETZ GRAN PRIX GRANDIN GRUNDIG GRUNKEL H & B	40591, 40741 40651, 40713, 40723, 40730, 40790, 40833, 40879, 41004, 41140 40665 40831, 40898 40713, 41233 40539, 40651, 40670, 40695, 40705, 40713, 40775, 40790, 41004, 41036, 41128 40770 40818, 40841, 40850, 40841, 40850,	LITEON LODOS LOEWE LOGIX LUKER LUMATRON LUNATRON LUXMAN LUXOR MAGNAVOX MAGNAVOX MAGNEX MAJESTIC MANHATTAN MARANTZ MARK	41058 40713 40511, 40539, 40741 40705 41367 40695, 40705, 40741, 40833, 41115 40741 40573 40713, 41004 40503, 40539, 40675, 40713, 41140 40723, 41165 41107 40705, 40713 40539 40713	ORION ORITRON ORMOND P&B PACIFIC PACKARD BEI PALLADIUM PALSONIC PANASONIC PARAMOUNT PEEKTON PHILCO PHILIPS	40695, 41006, 41128, 41233 40651 40713 40818, 41451 40695, 40713, 40759, 40768, 40790, 40804, 40831 LL 40695, 40779 40672, 40852 40490, 41282 PICTURES 40779 4088 40788 40503, 40539, 40675	SCHAUB LORI SCHNEIDER SCIENTIFIC LA SCOTT SEG SHANGHAI SHARP SHERWOOD	ENZ 40770, 40788, 41115, 41151 40539, 40651, 40705, 40713, 40779, 40788, 40790, 40804, 40831 ABS 40768 40651, 40672, 40718, 41005, 41036, 41233 40665, 40713, 40763, 40768, 40872 40672, 40718, 41005, 41036, 41233 40665, 40713, 40763, 40768, 40872 40674, 40770
GRAETZ GRAN PRIX GRANDIN GRUNDIG GRUNKEL H & B	40591, 40741 40651, 40713, 40723, 40730, 40790, 40833, 40879, 41004, 41140 40665 40831, 40898 40713, 41233 40539, 40651, 40670, 40695, 40705, 40713, 40775, 40790, 41004, 41036, 41128 40770 40818, 40841, 40850, 41233 40713, 40818,	LITEON LODOS LOEWE LOGIX LUKER LUMATRON LUNATRON LUXMAN LUXOR MAGNAVOX MAGNEX MAJESTIC MANHATTAN MARANTZ	41058 40713 40511, 40539, 40741 40705 41367 40695, 40705, 40741, 40833, 41115 40741 40573 40713, 41004 40503, 40539, 40675, 40713, 41140 40723, 41165 41107 40705, 40713 40539	ORION ORITRON ORMOND P&B PACIFIC PACKARD BEI PALLADIUM PALSONIC PANASONIC PARAMOUNT PEEKTON PHILCO	40695, 41006, 41128, 41233 40651 40713 40818, 41451 40695, 40713, 40790, 40804, 40831 LL 40831 40695, 40779 40672, 40852 40490, 41282 PICTURES 40779 40888 40788 40788 40788 40503, 40539, 40675 41345	SCHAUB LORI SCHNEIDER SCIENTIFIC LA SCOTT SEG SHANGHAI SHARP	ENZ 40770, 40788, 41115, 41151 40539, 40651, 40705, 40713, 40779, 40788, 40790, 40804, 40831 ABS 40768 40651, 40672, 40718, 41005, 41036, 41233 40665, 40713, 40782 40672 40672, 40718, 41036, 41036, 41233 40665, 40713, 40672 40673, 4073, 40672 40673, 4073, 40673, 4073, 40673, 4073, 40673, 4073, 40673, 4073, 40673, 4073,

SILVA SCHNEI	DER	UPTEK	40763	DICK SMITH I	ELECTRONICS	CAMBRIDGE A	AUDIO
	40831, 40898	UPXUS	41345	DICK SMITH I	51730	C/IMBRIDGE /	60625
	40751	URBAN CONC	EPTS	DIGITREX	51056	CARVER	60157, 60179,
SKANTIC	40539, 40713		40503	DSE	51730		60299
SKYMASTER	40730, 40768	VENTURER	40790	ELTAX	51321	CCE	60643
SKYWORTH	40766, 40898	VESTEL	40713	FUNAI	50675	COPLAND	60393
	41115	VIETA	40705, 41265	GATEWAY	51158	CYRUS	60157
SM ELECTRON		VIEWMASTER		GO VIDEO	50741, 51158,	DENON	60003, 60034,
	40730, 40768	VOXSON	40730, 40831		51730		60626
	40705, 40713,	VTREK	41228	H & B	51235, 51421	DKK	60000
	40718	WAITEC	41151	HITACHI	51664	DMX ELECTRO	
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	41033, 41633	WHARFEDALI		LITEON	51158, 51416,	EROICA	60481
SOUND COLOR		WILKELDIAL	40751, 40790	LITLON	51440, 51456	FIDELITY	60625
	41233	WILSON	40831, 41233	LOEWE	50741	FISHER	60179
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	40768	WINDY SAM	40573	MEDION	51347	GEMINI	60625
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	40788, 40831,	XBOX	40522	MITSUBISHI	51403	GOLDMUND	60157
	40898	XENIUS	40790	MUSTEK	51730	GOLDSTAR	60643
	41005	XLOGIC	40768	NEC	51404	GOODMANS	60362, 60625
	40818, 41005	XMS	40770	PANASONIC	50490, 51010,	GRUNDIG	60157
	41367	XORO	41183		51011	GTX	60362
	40713	YAKUMO	41004	PHILIPS	50646, 51158,	HARMAN/KAI	
	40770, 40850	YAMADA	40872, 41004,	DIONEED	51818		60157, 60173,
	40831	VAMATIA	41151	PIONEER	50631, 51475,	HCM	60426
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	40672	YAMAKAWA	40665, 40872	RELISYS	51347	HITACHI	60032
	40675	YUKAI	40730	SAMSUNG	50490	INTEGRA	60101
	40675	ZENITH	40503, 40591,	SENSORY SCI		KENWOOD	60028, 60157,
	40768		40741, 40869	SHARP	50630, 50675,		60190, 60626
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TATUNG	40770	ZOECE	41265		51556	KYOCERA	60018
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	40695, 40741,					1.0	
		I D DI AVEI		SONY	51033, 51069,	LG	71208
	40759, 40768,	LD PLAYE			51070, 51433	LOEWE	60157
	40759, 40768, 40790, 40809,	AIWA	40203	SYLVANIA	51070, 51433 50675	LOEWE LUXMAN	60157 60093
	40759, 40768, 40790, 40809, 40833, 41006,	AIWA CARVER	40203 40064, 40194	SYLVANIA TANGENT	51070, 51433 50675 51321	LOEWE LUXMAN MAGNAVOX	60157 60093 60157
	40759, 40768, 40790, 40809, 40833, 41006, 41197, 41483	AIWA CARVER DENON	40203 40064, 40194 40059	SYLVANIA TANGENT TEVION	51070, 51433 50675 51321 51227	LOEWE LUXMAN	60157 60093 60157 60029, 60157,
TEC	40759, 40768, 40790, 40809, 40833, 41006, 41197, 41483 40898	AIWA CARVER DENON FUNAI	40203 40064, 40194 40059 40203	SYLVANIA TANGENT TEVION THOMSON	51070, 51433 50675 51321 51227 50551	LOEWE LUXMAN MAGNAVOX MARANTZ	60157 60093 60157 60029, 60157, 60626
TEC TECHNICS	40759, 40768, 40790, 40809, 40833, 41006, 41197, 41483 40898 40490	AIWA CARVER DENON	40203 40064, 40194 40059 40203 RDON	SYLVANIA TANGENT TEVION THOMSON TOSHIBA	51070, 51433 50675 51321 51227 50551 51510	LOEWE LUXMAN MAGNAVOX MARANTZ MATSUI	60157 60093 60157 60029, 60157, 60626 60157, 60643
TEC TECHNICS TECHNIKA	40759, 40768, 40790, 40809, 40833, 41006, 41197, 41483 40898 40490 40770, 40831,	AIWA CARVER DENON FUNAI HARMAN/KAI	40203 40064, 40194 40059 40203 RDON 40194	SYLVANIA TANGENT TEVION THOMSON TOSHIBA VICTOR	51070, 51433 50675 51321 51227 50551 51510 51275	LOEWE LUXMAN MAGNAVOX MARANTZ MATSUI MCS	60157 60093 60157 60029, 60157, 60626 60157, 60643 60029
TEC TECHNICS TECHNIKA	40759, 40768, 40790, 40809, 40833, 41006, 41197, 41483 40898 40490 40770, 40831, 41115, 41165	AIWA CARVER DENON FUNAI HARMAN/KAI	40203 40064, 40194 40059 40203 RDON	SYLVANIA TANGENT TEVION THOMSON TOSHIBA VICTOR XORO	51070, 51433 50675 51321 51227 50551 51510 51275 51221	LOEWE LUXMAN MAGNAVOX MARANTZ MATSUI MCS MEMOREX	60157 60093 60157 60029, 60157, 60626 60157, 60643
TEC TECHNICS TECHNIKA	40759, 40768, 40790, 40809, 40833, 41006, 41197, 41483 40898 40490 40770, 40831, 41115, 41165 41115	AIWA CARVER DENON FUNAI HARMAN/KAI	40203 40064, 40194 40059 40203 RDON 40194 40395 40258	SYLVANIA TANGENT TEVION THOMSON TOSHIBA VICTOR	51070, 51433 50675 51321 51227 50551 51510 51275	LOEWE LUXMAN MAGNAVOX MARANTZ MATSUI MCS	60157 60093 60157 60029, 60157, 60626 60157, 60643 60029 60032 60157
TEC TECHNICS TECHNIKA TECHNISSON TECHNOSONIC	40759, 40768, 40790, 40809, 40833, 41006, 41197, 41483 40898 40490 40770, 40831, 41115, 41165 41115	AIWA CARVER DENON FUNAI HARMAN/KAI HITACHI KENWOOD	40203 40064, 40194 40059 40203 RDON 40194 40395	SYLVANIA TANGENT TEVION THOMSON TOSHIBA VICTOR XORO	51070, 51433 50675 51321 51227 50551 51510 51275 51221 51056, 51158,	LOEWE LUXMAN MAGNAVOX MARANTZ MATSUI MCS MEMOREX MERIDIAN	60157 60093 60157 60029, 60157, 60626 60157, 60643 60029 60032 60157
TEC TECHNICS TECHNIKA TECHNISSON TECHNOSONIO	40759, 40768, 40790, 40809, 40833, 41006, 41197, 41483 40898 40490 40770, 40831, 41115, 41165	AIWA CARVER DENON FUNAI HARMAN/KAI HITACHI KENWOOD MAGNAVOX	40203 40064, 40194 40059 40203 RDON 40194 40395 40258 40194, 40217	SYLVANIA TANGENT TEVION THOMSON TOSHIBA VICTOR XORO YAMADA	51070, 51433 50675 51321 51227 50551 51510 51275 51221 51056, 51158, 51416	LOEWE LUXMAN MAGNAVOX MARANTZ MATSUI MCS MEMOREX MERIDIAN MICROMEGA	60157 60093 60157 60029, 60157, 60626 60157, 60643 60029 60032 60157 60157
TEC TECHNICS TECHNIKA TECHNISSON TECHNOSONIC	40759, 40768, 40790, 40809, 40833, 41006, 41197, 41483 40898 40490 40770, 40831, 41115, 41165 41115 2 40730, 41115	AIWA CARVER DENON FUNAI HARMAN/KAI HITACHI KENWOOD MAGNAVOX MARANTZ	40203 40064, 40194 40059 40203 RDON 40194 40395 40258 40194, 40217 40064, 40194	SYLVANIA TANGENT TEVION THOMSON TOSHIBA VICTOR XORO YAMADA	51070, 51433 50675 51321 51227 50551 51510 51275 51221 51056, 51158, 51416 51544	LOEWE LUXMAN MAGNAVOX MARANTZ MATSUI MCS MEMOREX MERIDIAN MICROMEGA MIRO	60157 60093 60157 60029, 60157, 60626 60157, 60643 60029 60032 60157 60157 60000
TEC TECHNICS TECHNIKA TECHNISSON TECHNOSONIC TECHWOOD TEDELEX TELETECH	40759, 40768, 40790, 40809, 40833, 41006, 41197, 41483 40898 40490 40770, 40831, 41115, 41165 41115 2 40730, 41115 40730, 41115 40731, 40768	AIWA CARVER DENON FUNAI HARMAN/KAI HITACHI KENWOOD MAGNAVOX MARANTZ MITSUBISHI NAD NAGSMI	40203 40064, 40194 40059 40203 RDON 40194 40395 40258 40194, 40217 40064, 40194 40059 40059	SYLVANIA TANGENT TEVION THOMSON TOSHIBA VICTOR XORO YAMADA YAMADA YAMAHA ZENITH	51070, 51433 50675 51321 51227 50551 51510 51275 51221 51056, 51158, 51416 51544 50741	LOEWE LUXMAN MAGNAVOX MARANTZ MATSUI MCS MEMOREX MERIDIAN MICROMEGA MIRO MISSION MITSUBISHI MTC	60157 60093 60157 60029, 60157, 60626 60157, 60643 60029 60032 60157 60156 60000 60157 60156 60625
TEC TECHNICS TECHNIKA TECHNISSON TECHNOSONIC TECHWOOD TEDELEX TELETECH TENSAI	40759, 40768, 40790, 40809, 40833, 41006, 41197, 41483 40898 40490 40770, 40831, 41115, 41165 41115 2 40730, 41115 40713, 40768 40651, 40770	AIWA CARVER DENON FUNAI HARMAN/KAI HITACHI KENWOOD MAGNAVOX MARANTZ MITSUBISHI NAD NAGSMI OPTIMUS	40203 40064, 40194 40059 40203 RDON 40194 40395 40258 40194, 40217 40064, 40194 40059 40059 40059 40059	SYLVANIA TANGENT TEVION THOMSON TOSHIBA VICTOR XORO YAMADA YAMAHA ZENITH	51070, 51433 50675 51321 51227 50551 51510 51275 51221 51056, 51158, 51416 51544 50741	LOEWE LUXMAN MAGNAVOX MARANTZ MATSUI MCS MEMOREX MERIDIAN MICROMEGA MIRO MISSION MITSUBISHI	60157 60093 60157 60029, 60157, 60626 60157, 60643 60029 60032 60157 60157 60000 60157 60156 60625 ELITY
TEC TECHNICS TECHNIKA TECHNISSON TECHNOSONIC TECHWOOD TEDELEX TELETECH TENSAI TEVION	40759, 40768, 40790, 40809, 40833, 41006, 41197, 41483 40898 40490 40770, 40831, 41115, 41165 41115 2 40730, 41115 40713 41228 40713, 40768 40651, 40770 40651, 40833,	AIWA CARVER DENON FUNAI HARMAN/KAI HITACHI KENWOOD MAGNAVOX MARANTZ MITSUBISHI NAD NAGSMI OPTIMUS PANASONIC	40203 40064, 40194 40059 40203 RDON 40194 40395 40258 40194, 40217 40064, 40194 40059 40059 40059 40059 40059	SYLVANIA TANGENT TEVION THOMSON TOSHIBA VICTOR XORO YAMADA YAMAHA ZENITH CD PLAYE ADC	51070, 51433 50675 51321 51227 50551 51510 51275 51221 51056, 51158, 51416 51544 50741	LOEWE LUXMAN MAGNAVOX MARANTZ MATSUI MCS MEMOREX MERIDIAN MICROMEGA MIRO MISSION MITSUBISHI MTC MUSICAL FID	60157 60093 60157 60029, 60157, 60626 60157, 60643 60029 60032 60157 60157 60000 60157 60156 60625 ELITY 60393
TEC TECHNICS TECHNIKA TECHNISSON TECHNOSONIC TECHWOOD TEDELEX TELETECH TENSAI TEVION	40759, 40768, 40790, 40809, 40833, 41006, 41197, 41483 40898 40490 40770, 40831, 41115, 41165 41115 2 40730, 41115 40713 41228 40713, 40768 400651, 40770 40651, 40833, 40898, 41036,	AIWA CARVER DENON FUNAI HARMAN/KAI HITACHI KENWOOD MAGNAVOX MARANTZ MITSUBISHI NAD NAGSMI OPTIMUS PANASONIC PHILIPS	40203 40064, 40194 40059 40203 RDON 40194 40395 40258 40194, 40217 40064, 40194 40059 40059 40059 40059 40059 40064, 40194	SYLVANIA TANGENT TEVION THOMSON TOSHIBA VICTOR XORO YAMADA YAMAHA ZENITH CD PLAYE ADC ADCOM	51070, 51433 50675 51321 51227 50551 51510 51275 51221 51056, 51158, 51416 51544 50741 R 60018 60234	LOEWE LUXMAN MAGNAVOX MARANTZ MATSUI MCS MEMOREX MERIDIAN MICROMEGA MIRO MISSION MITSUBISHI MTC MUSICAL FIDE MYRYAD	60157 60093 60157 60029, 60157, 60626 60157, 60643 60029 60032 60157 60000 60157 60156 60625 ELITTY 60393 60157
TEC TECHNICS TECHNIKA TECHNISSON TECHNOSONIC TECHWOOD TEDELEX TELETECH TENSAI TEVION	40759, 40768, 40790, 40809, 40833, 41006, 41197, 41483 40898 40490 40770, 40831, 41115, 41165 41115 C 40730, 41115 40713 41228 40713, 40768 40651, 40770 40651, 40833, 40898, 41036, 41170, 41382	AIWA CARVER DENON FUNAI HARMAN/KAI HITACHI KENWOOD MAGNAVOX MARANTZ MITSUBISHI NAD NAGSMI OPTIMUS PANASONIC PHILIPS PIONEER	40203 40064, 40194 40059 40203 RDON 40194 40395 40258 40194, 40217 40064, 40194 40059 40059 40059 40059 40059 40059 40064, 40194 40064, 40194 40069	SYLVANIA TANGENT TEVION THOMSON TOSHIBA VICTOR XORO YAMADA YAMAHA ZENITH CD PLAYE ADC ADCOM ADVANTAGE	51070, 51433 50675 51321 51227 50551 51510 51275 51221 51056, 51158, 51416 51544 50741 R 60018 600234 60032	LOEWE LUXMAN MAGNAVOX MARANTZ MATSUI MCS MEMOREX MERIDIAN MICROMEGA MIRO MISSION MITSUBISHI MTC MUSICAL FID	60157 60093 60157 60029, 60157, 60626 60157, 60643 60029 60032 60157 60157 60156 60625 ELITY 60393 60157 60000, 60299,
TEC TECHNICS TECHNIKA TECHNISSON TECHNOSONIC TECHWOOD TEDELEX TELETECH TENSAI TEVION THETA DIGITA	40759, 40768, 40790, 40809, 40833, 41006, 41197, 41483 40898 40490 40770, 40831, 41115, 41165 41115 2 40730, 41115 40731, 40768 40713, 40768 40651, 40770 40651, 40833, 40898, 41036, 41170, 41382 L	AIWA CARVER DENON FUNAI HARMAN/KAI HITACHI KENWOOD MAGNAVOX MARANTZ MITSUBISHI NAD NAGSMI OPTIMUS PANASONIC PHILIPS PIONEER POLK AUDIO	40203 40064, 40194 40059 40203 RDON 40194 40395 40258 40194, 40217 40064, 40194 40059 40059 40059 40059 40064, 40194 40064, 40194 40059 40194	SYLVANIA TANGENT TEVION THOMSON TOSHIBA VICTOR XORO YAMADA YAMAHA ZENITH CD PLAYE ADC ADCOM ADVANTAGE AIWA	51070, 51433 50675 51321 51227 50551 51510 51275 51221 51056, 51158, 51416 51544 50741 R 60018 600234 60032 60157	LOEWE LUXMAN MAGNAVOX MARANTZ MATSUI MCS MEMOREX MERIDIAN MICROMEGA MIRO MISSION MITSUBISHI MTC MUSICAL FID MYRYAD NAD	60157 60093 60157 60029, 60157, 60626 60157, 60643 60029 60032 60157 60156 60000 60157 60156 60625 ELITY 60393 60157 60000, 60299, 60721
TEC TECHNICS TECHNISSON TECHNOSONIC TECHWOOD TEDELEX TELETECH TENSAI TEVION THETA DIGITA	40759, 40768, 40790, 40809, 40833, 41006, 41197, 41483 40898 40490 40770, 40831, 41115, 41165 41115 2 40730, 41115 40730, 41115 40731, 40768 40651, 40770 40651, 40833, 40898, 41036, 41170, 41382 LL 40571	AIWA CARVER DENON FUNAI HARMAN/KAI HITACHI KENWOOD MAGNAVOX MARANTZ MITSUBISHI NAD NAGSMI OPTIMUS PANASONIC PHILIPS PIONEER POLK AUDIO QUASAR	40203 40064, 40194 40059 40203 RDON 40194 40395 40258 40194, 40217 40064, 40194 40059 40059 40059 40059 400204 40064, 40194 40069 40194 40069 40194 40069 40194 40204	SYLVANIA TANGENT TEVION THOMSON TOSHIBA VICTOR XORO YAMADA YAMAHA ZENITH CD PLAYE ADC ADCOM ADVANTAGE	51070, 51433 50675 51321 51227 50551 51510 51275 51221 51056, 51158, 51416 51544 50741 R 60018 60234 60032 60157 60156, 60362,	LOEWE LUXMAN MAGNAVOX MARANTZ MATSUI MCS MEMOREX MERIDIAN MICROMEGA MIRO MISSION MITSUBISHI MTC MUSICAL FID MYRYAD NAD NAGAOKA	60157 60093 60157 60029, 60157, 60626 60157, 60643 60029 60032 60157 60156 60000 60157 60156 60625 ELITTY 60393 60157 60000, 60299, 60721 60018
TEC TECHNICS TECHNIKA TECHNISSON TECHNOSONIC TECHWOOD TEDELEX TELETECH TENSAI TEVION THETA DIGITA THOMSON	40759, 40768, 40790, 40809, 40833, 41006, 41197, 41483 40898 40490 40770, 40831, 41115, 41165 41115 2 40730, 41115 40713, 40768 40651, 40770 40651, 40833, 40898, 41036, 41170, 41382 LL 40571 40522	AIWA CARVER DENON FUNAI HARMAN/KAI HITACHI KENWOOD MAGNAVOX MARANTZ MITSUBISHI NAD NAGSMI OPTIMUS PANASONIC PHILIPS PIONEER POLK AUDIO QUASAR REALISTIC	40203 40064, 40194 40059 40203 RDON 40194 40395 40258 40194, 40217 40064, 40194 40059 40059 40059 40059 40064, 40194 40069 40194 40059 40064, 40194 40059 40194 40204 40204	SYLVANIA TANGENT TEVION THOMSON TOSHIBA VICTOR XORO YAMADA YAMAHA ZENITH CD PLAYE ADC ADCOM ADVANTAGE AIWA AKAI	51070, 51433 50675 51321 51227 50551 51510 51275 51221 51056, 51158, 51416 51544 50741 R 60018 600234 60032 60157 60156, 60362, 60643	LOEWE LUXMAN MAGNAVOX MARANTZ MATSUI MCS MEMOREX MERIDIAN MICROMEGA MIRO MISSION MITSUBISHI MTC MUSICAL FIDE MYRYAD NAD NAGAOKA NAIM	60157 60093 60157 60029, 60157, 60626 60157, 60643 60029 60032 60157 60157 60000 60157 60156 60625 ELITY 60393 60157 60000, 60299, 60721 60018 60018
TEC TECHNICS TECHNIKA TECHNISSON TECHNOSONIC TECHWOOD TEDELEX TELETECH TENSAI TEVION THETA DIGITA THOMSON TOKAI	40759, 40768, 40790, 40809, 40833, 41006, 41197, 41483 40898 40490 40770, 40831, 41115, 41165 41115 2 40730, 41115 40730, 41115 40731, 40768 40651, 40770 40651, 40833, 40898, 41036, 41170, 41382 LL 40571	AIWA CARVER DENON FUNAI HARMAN/KAI HITACHI KENWOOD MAGNAVOX MARANTZ MITSUBISHI NAD NAGSMI OPTIMUS PANASONIC PHILIPS PIONEER POLK AUDIO QUASAR	40203 40064, 40194 40059 40203 RDON 40194 40395 40258 40194, 40217 40064, 40194 40059 40059 40059 40059 400204 40064, 40194 40069 40194 40069 40194 40069 40194 40204	SYLVANIA TANGENT TEVION THOMSON TOSHIBA VICTOR XORO YAMADA YAMAHA ZENITH CD PLAYE ADC ADCOM ADVANTAGE AIWA AKAI ALTO	51070, 51433 50675 51321 51227 50551 51510 51275 51221 51056, 51158, 51416 51544 50741 R 60018 60023 60032 60157 60156, 60362, 60643 60625	LOEWE LUXMAN MAGNAVOX MARANTZ MATSUI MCS MEMOREX MERIDIAN MICROMEGA MIRO MISSION MITSUBISHI MTC MUSICAL FID MYRYAD NAD NAGAOKA	60157 60093 60157 60029, 60157, 60626 60157, 60643 60029 60032 60157 60156 60000 60157 60156 60625 ELITTY 60393 60157 60000, 60299, 60721 60018
TEC TECHNICS TECHNIKA TECHNISSON TECHNOSONIC TECHWOOD TEDELEX TELETECH TENSAI TEVION THETA DIGITA THOMSON TOKAI	40759, 40768, 40790, 40809, 40833, 41006, 41197, 41483 40898 40490 40770, 40831, 41115, 41165 41115 2 40730, 41115 40713 41228 40713, 40768 40651, 40770 40651, 40833, 40898, 41036, 41170, 41382 L 40571 40522 40665, 40788,	AIWA CARVER DENON FUNAI HARMAN/KAI HITACHI KENWOOD MAGNAVOX MARANTZ MITSUBISHI NAD OPTIMUS PANASONIC PHILIPS PIONEER POLK AUDIO QUASAR REALISTIC SALORA	40203 40064, 40194 40059 40203 RDON 40194 40395 40258 40194, 40217 40064, 40194 40059 40059 40059 40059 40064, 40194 40069 40194 40069 40194 40204 40204 40204 40204 40203 40064	SYLVANIA TANGENT TEVION THOMSON TOSHIBA VICTOR XORO YAMADA YAMAHA ZENITH CD PLAYE ADC ADCOM ADVANTAGE AIWA AKAI	51070, 51433 50675 51321 51227 50551 51510 51275 51221 51056, 51158, 51416 51544 50741 R 60018 600234 60032 60157 60156, 60362, 60643	LOEWE LUXMAN MAGNAVOX MARANTZ MATSUI MCS MEMOREX MERIDIAN MICROMEGA MIRO MISSION MITSUBISHI MTC MUSICAL FID: MYRYAD NAD NAGAOKA NAIM NAKAMICHI	60157 60093 60157 60029, 60157, 60626 60157, 60643 60029 60032 60157 60157 60156 60625 ELITY 60393 60157 60000, 60299, 60721 60018 60157
TEC TECHNICS TECHNIKA TECHNISSON TECHNOSONIC TECHWOOD TEDELEX TELETECH TENSAI TEVION THETA DIGITA THOMSON TOKAI TOM-TEC	40759, 40768, 40790, 40809, 40833, 41006, 41197, 41483 40898 40490 40770, 40831, 41115, 41165 41115 C2 40730, 41115 40713 41228 40713, 40768, 407651, 40770, 40651, 40833, 40898, 41036, 41170, 41382 LL 40571 406655, 40788, 40790, 40898	AIWA CARVER DENON FUNAI HARMAN/KAI HITACHI KENWOOD MAGNAVOX MARANTZ MITSUBISHI NAD NAGSMI OPTIMUS PANASONIC PHILIPS PIONEER POLK AUDIO QUASAR REALISTIC SALORA SHARP	40203 40064, 40194 40059 40203 RDON 40194 40395 40258 40194, 40217 40064, 40194 40059 40059 40059 40059 40064, 40194 40069 40194 40059 40204 40069 40204 40203 40064 40001	SYLVANIA TANGENT TEVION THOMSON TOSHIBA VICTOR XORO YAMADA YAMAHA ZENITH CD PLAYE ADC ADCOM ADVANTAGE AIWA AKAI ALTO ANAM	51070, 51433 50675 51321 51227 50551 51510 51275 51221 51056, 51158, 51416 51544 50741 R 60018 60234 60032 60157 60156, 60362, 60643 60625 60362	LOEWE LUXMAN MAGNAVOX MARANTZ MATSUI MCS MEMOREX MERIDIAN MICROMEGA MIRO MISSION MITSUBISHI MTC MUSICAL FIDE MYRYAD NAD NAGAOKA NAIM NAKAMICHI NEC	60157 60093 60157 60029, 60157, 60643 60029 60032 60157 60000 60157 60156 60625 ELITY 60393 60157 60000, 60299, 60721 60018 60157 60147 60234
TEC TECHNICS TECHNICS TECHNISSON TECHNOSONIC TECHWOOD TEDELEX TELETECH TENSAI TEVION THETA DIGITA THOMSON TOKAI TOM-TEC TOSHIBA TRANS-CONTI	40759, 40768, 40790, 40809, 40833, 41006, 41197, 41483 40898 40490 40770, 40831, 41115, 41165 41115 2 40730, 41115 40731, 40768 40651, 40770 40651, 40833, 40988, 41036, 41170, 41382 LL 40571 40522 40665, 40788, 40790, 40898 41450 40790, 40898 41450 40503, 40695 NENTS	AIWA CARVER DENON FUNAI HARMAN/KAI HITACHI KENWOOD MAGNAVOX MARANTZ MITSUBISHI NAD NAGSMI OPTIMUS PANASONIC PHILIPS PIONEER POLK AUDIO QUASAR REALISTIC SALORA SHARP SONY TECHNICS TELEFUNKEN	40203 40064, 40194 40059 40203 RDON 40194 40395 40258 40194, 40217 40064, 40194 40059 40059 40059 40059 40064, 40194 40069 40194 40204 40203 40064 40001 40193, 40201 40204 40009 40193, 40201 40204 40009	SYLVANIA TANGENT TEVION THOMSON TOSHIBA VICTOR XORO YAMADA YAMAHA ZENITH CD PLAYE ADC ADCOM ADVANTAGE AIWA AKAI ALTO ANAM ARCAM	51070, 51433 50675 51321 51227 50551 51510 51275 51221 51056, 51158, 51416 51544 50741 R 60018 60234 60032 60157 60156, 60362, 60643 60625 60157 60625 MICS	LOEWE LUXMAN MAGNAVOX MARANTZ MATSUI MCS MEMOREX MERIDIAN MICROMEGA MIRO MISSION MITSUBISHI MTC MUSICAL FID. MYRYAD NAD NAGAOKA NAIM NAKAMICHI NEC NIKKO NSM ONKYO	60157 60093 60157 60029, 60157, 60626 60157, 60643 60029 60032 60157 60156 60000 60157 60156 60625 ELITTY 60393 60157 60000, 60299, 60721 60018 60157 60147 60234 60362, 60625 60157 60101, 61327
TEC TECHNICS TECHNIKA TECHNISSON TECHNOSONIC TECHWOOD TEDELEX TELETECH TENSAI TEVION THETA DIGITA THOMSON TOKAI TOM-TEC TOSHIBA TRANS-CONTI	40759, 40768, 40759, 40768, 40790, 40809, 40833, 41006, 41197, 41483 40898 40490 40770, 40831, 41115, 41165 41115 C 40730, 41115 40730, 41115 40731, 40768 40651, 40770 40651, 40833, 40898, 41036, 41170, 41382 LL 40571 40522 40665, 40788, 40790, 40898 41450 40503, 40695 NENTS 4081, 40872,	AIWA CARVER DENON FUNAI HARMAN/KAI HITACHI KENWOOD MAGNAVOX MARANTZ MITSUBISHI NAD NAGSMI OPTIMUS PANASONIC PHILIPS PIONEER POLK AUDIO QUASAR REALISTIC SALORA SHARP SONY TECHNICS	40203 40064, 40194 40059 40203 RDON 40194 40395 40258 40194, 40217 40064, 40194 40059 40059 40059 40064, 40194 40069 40064, 40194 40204 40203 40064 40001 40193, 40201 40204 400059 ML	SYLVANIA TANGENT TEVION THOMSON TOSHIBA VICTOR XORO YAMADA YAMAHA ZENITH CD PLAYE ADC ADCOM ADVANTAGE AIWA AKAI ALTO ANAM ARCAM ARISTON AUDIO DYNAI	51070, 51433 50675 51321 51227 50551 51510 51275 51221 51056, 51158, 51416 51544 50741 R 60018 60023 60032 60157 60156, 60362, 60643 60625 60157 60625 MICS 60018	LOEWE LUXMAN MAGNAVOX MARANTZ MATSUI MCS MEMOREX MERIDIAN MICROMEGA MIRO MISSION MITSUBISHI MTC MUSICAL FID MYRYAD NAD NAGAOKA NAIM NAKAMICHI NEC NIKKO NSM	60157 60093 60157 60029, 60157, 60626 60157, 60643 60029 60032 60157 60156 60625 ELITY 60393 60157 60000, 60299, 60721 60018 60157 60147 60234 60362, 60625 60157 60101, 61327 60000, 6032,
TEC TECHNICS TECHNIKA TECHNISSON TECHNOSONIC TECHWOOD TEDELEX TELETECH TENSAI TEVION THETA DIGITA THOMSON TOKAI TOM-TEC TOSHIBA TRANS-CONTI	40759, 40768, 40790, 40809, 40833, 41006, 41197, 41483 40898 40490 40770, 40831, 41115, 41165 41115 52 40730, 41115 40713 41228 40713, 40768 40051, 40780, 40831, 40898, 41036, 41170, 41382 LL 40713 4125 40713 4051, 40831, 40898, 41036, 41170, 41382 LL 40651, 40770 40651, 40770 40651, 40770 40651, 40831, 40898, 41036, 41170, 41382 LL 40571 40522 40665, 40788, 40790, 40898 41450 40503, 40695 NENTS 40831, 40872, 41165, 41327	AIWA CARVER DENON FUNAI HARMAN/KAI HITACHI KENWOOD MAGNAVOX MARANTZ MITSUBISHI NAD OPTIMUS PANASONIC PHILIPS PIONEER POLK AUDIO QUASAR REALISTIC SALORA SHARP SONY TECHNICS TELEFUNKEN THETA DIGITA	40203 40064, 40194 40059 40203 RDON 40194 40395 40258 40194, 40217 40064, 40194 40059 40059 40059 40064, 40194 40069 40194 40204 40204 40204 40001 40193, 40201 40204 400204 400204 400204 400209 LL 40194	SYLVANIA TANGENT TEVION THOMSON TOSHIBA VICTOR XORO YAMADA YAMAHA ZENITH CD PLAYE ADC ADCOM ADVANTAGE AIWA AKAI ALTO ANAM ARCAM ARISTON	51070, 51433 50675 51321 51227 50551 51510 51275 51221 51056, 51158, 51416 51544 50741 R 60018 60234 60032 60157 60156, 60362, 60362, 60643 60625 60362 60157 60625 MICS 60018 ARCH	LOEWE LUXMAN MAGNAVOX MARANTZ MATSUI MCS MEMOREX MERIDIAN MICROMEGA MIRO MISSION MITSUBISHI MTC MUSICAL FIDE MYRYAD NAD NAGAOKA NAIM NAKAMICHI NEC NIKKO NSM ONKYO OPTIMUS	60157 60093 60157 60029, 60157, 60626 60157, 60643 60029 60032 60157 60156 60157 60156 60625 ELITY 60393 60157 60000, 60299, 60721 60018 60157 60147 60234 60362, 60625 60157 60101, 61327 60000, 60032, 60179, 60426
TEC TECHNICS TECHNICS TECHNISSON TECHNOSONIC TECHWOOD TEDELEX TELETECH TENSAI TEVION THETA DIGITA THOMSON TOKAI TOM-TEC TOSHIBA TRANS-CONTI	40759, 40768, 40790, 40809, 40833, 41006, 41197, 41483 40898 40490 40770, 40831, 41115, 41165 41115 C2 40730, 41115 40713 41228 40713, 40768 40651, 40770, 406831, 40898, 41036, 41170, 41382 LL 40571 40522 40665, 40788, 40790, 40898 41450 40503, 40695 NENTS 40831, 40872, 41165, 41327 40804, 40843	AIWA CARVER DENON FUNAI HARMAN/KAI HITACHI KENWOOD MAGNAVOX MARANTZ MITSUBISHI NAD NAGSMI OPTIMUS PANASONIC PHILIPS PIONEER POLK AUDIO QUASAR REALISTIC SALORA SHARP SONY TECHNICS TELEFUNKEN THETA DIGITAL	40203 40064, 40194 40059 40203 RDON 40194 40395 40258 40194, 40217 40064, 40194 40059 40059 40059 40064, 40194 40059 40194 40204 40204 40064, 40194 40203 40064 4001 40193, 40201 40029 LL 40194 40295	SYLVANIA TANGENT TEVION THOMSON TOSHIBA VICTOR XORO YAMADA YAMAHA ZENITH CD PLAYE ADC ADCOM ADVANTAGE AIWA AKAI ALTO ANAM ARCAM ARISTON AUDIO RESEA	51070, 51433 50675 51321 51227 50551 51510 51275 51221 51056, 51158, 51416 51544 50741 R 60018 60023 600157 60156, 60362, 60362, 60362 60157 606635 MICS 60018 RCH 60018	LOEWE LUXMAN MAGNAVOX MARANTZ MATSUI MCS MEMOREX MERIDIAN MICROMEGA MIRO MISSION MITSUBISHI MTC MUSICAL FIDE MYRYAD NAD NAGAOKA NAIM NAKAMICHI NEC NIKKO NSM ONKYO OPTIMUS ORION	60157 60093 60157 60029, 60157, 60626 60157, 60643 60029 60032 60157 60157 60156 60625 ELITY 60393 60157 60000, 60299, 60721 60018 60157 60147 60234 60362, 60625 60157 60101, 61327 60000, 60032, 60179, 60426 60393
TEC TECHNICS TECHNICS TECHNISSON TECHNOSONIC TECHWOOD TEDELEX TELETECH TENSAI TEVION THETA DIGITA THOMSON TOKAI TOM-TEC TOSHIBA TRANS-CONTI	40759, 40768, 40790, 40809, 40833, 41006, 41197, 41483 40898 400490 40770, 40831, 41115, 41165 41115 C 40730, 41115 40713 41228 40713, 40768 40651, 40770 40651, 40833, 40898, 41036, 41170, 41382 L 40571 40522 40665, 40788, 40790, 40898 41450 40503, 40695 NENTS 40831, 40872, 41165, 41327 40804, 40843 40857	AIWA CARVER DENON FUNAI HARMAN/KAI HITACHI KENWOOD MAGNAVOX MARANTZ MITSUBISHI NAD NAGSMI OPTIMUS PANASONIC PHILIPS PIONEER POLK AUDIO QUASAR REALISTIC SALORA SHARP SONY TECHNICS TELEFUNKEN THETA DIGITAL VICTOR WARDS	40203 40064, 40194 40059 40203 RDON 40194 40395 40258 40194, 40217 40064, 40194 40059 40059 40059 40064, 40194 40064, 40194 400203 40064 40001 40193, 40201 40059 AU 4004 40059 4004 40404 404059 40404 404059	SYLVANIA TANGENT TEVION THOMSON TOSHIBA VICTOR XORO YAMADA YAMAHA ZENITH CD PLAYE ADC ADCOM ADVANTAGE AIWA AKAI ALTO ANAM ARCAM ARISTON AUDIO RESEA	51070, 51433 50675 51321 51227 50551 51510 51275 51221 51056, 51158, 51416 51544 50741 R 60018 600234 60032 60157 60156, 60362, 60643 60625 60362 60157 60625 MICS 60018 MRCH 60157 60157	LOEWE LUXMAN MAGNAVOX MARANTZ MATSUI MCS MEMOREX MERIDIAN MICROMEGA MIRO MISSION MITSUBISHI MTC MUSICAL FID: MYRYAD NAD NAGAOKA NAIM NAKAMICHI NEC NIKKO NSM ONKYO OPTIMUS ORION PANASONIC	60157 60093 60157 60029, 60157, 60643 60029 60032 60157, 60643 60029 60032 60157 60156 60625 ELITY 60393 60157 60000, 60299, 60721 60018 60157 60147 60234 60362, 60625 60157 60101, 61327 60000, 60032, 60179, 60426 60393 60029, 60303
TEC TECHNICS TECHNICS TECHNISSON TECHNOSONIC TECHWOOD TEDELEX TELETECH TENSAI TEVION THETA DIGITA THOMSON TOKAI TOM-TEC TOSHIBA TRANS-CONTI	40759, 40768, 40790, 40809, 40833, 41006, 41197, 41483 40898 400490 40770, 40831, 41115, 41165 41115 C 40730, 41115 40713 41228 40713, 40768 40651, 40770, 40833, 40898, 41036, 41170, 41382 L 40571 40522 40665, 40788, 40790, 40898, 41450 40503, 40695 NENTS 40831, 40872, 41165, 41327 40804, 40843 40857 41151	AIWA CARVER DENON FUNAI HARMAN/KAI HITACHI KENWOOD MAGNAVOX MARANTZ MITSUBISHI NAD NAGSMI OPTIMUS PANASONIC PHILIPS PIONEER POLK AUDIO QUASAR REALISTIC SALORA SHARP SONY TECHNICS TELEFUNKEN THETA DIGITAL	40203 40064, 40194 40059 40203 RDON 40194 40395 40258 40194, 40217 40064, 40194 40059 40059 40059 40064, 40194 40059 40194 40204 40204 40064, 40194 40203 40064 4001 40193, 40201 40029 LL 40194 40295	SYLVANIA TANGENT TEVION THOMSON TOSHIBA VICTOR XORO YAMADA YAMAHA ZENITH CD PLAYE ADC ADCOM ADVANTAGE AIWA AKAI ALTO ANAM ARCAM ARISTON AUDIO RESEA AUDIOLAB AUDIOMECA	51070, 51433 50675 51321 51227 50551 51510 51275 51221 51056, 51158, 51416 51544 50741 R 60018 600234 60032 60157 60156, 60362, 60643 60625 MICS 60018 ARCH 60018 ARCH 60157 60157 60157	LOEWE LUXMAN MAGNAVOX MARANTZ MATSUI MCS MEMOREX MERIDIAN MICROMEGA MIRO MISSION MITSUBISHI MTC MUSICAL FID. MYRYAD NAD NAGAOKA NAIM NAKAMICHI NEC NIKKO NSM ONKYO OPTIMUS ORION PANASONIC PHILIPS	60157 60093 60157 60029, 60157, 60626 60157, 60643 60029 60032 60157 60156 60055 ELITTY 60393 60157 60000, 60299, 60721 60018 60157 60147 60234 60362, 60625 60157 60101, 61327 60000, 60032, 60179, 60426 60393 60029, 60303 60157, 60626
TEC TECHNICS TECHNICS TECHNISSON TECHNOSONIC TECHWOOD TEDELEX TELETECH TENSAI TEVION THETA DIGITA THOMSON TOKAI TOM-TEC TOSHIBA TRANS-CONTI	40759, 40768, 40790, 40809, 40833, 41006, 41197, 41483 40898 400490 40770, 40831, 41115, 41165 41115 C 40730, 41115 40713 41228 40713, 40768 40651, 40770, 40831, 40898, 41036, 41170, 41382 L 40571 40522 40665, 40788, 40790, 40898 41450 40503, 40695 NENTS 40831, 40872, 41165, 41327 40804, 40843 40857 41151 40672, 40695,	AIWA CARVER DENON FUNAI HARMAN/KAI HITACHI KENWOOD MAGNAVOX MARANTZ MITSUBISHI NAD NAGSMI OPTIMUS PANASONIC PHILIPS PIONEER POLK AUDIO QUASAR REALISTIC SALORA SHARP SONY TECHNICS TELEFUNKEN THETA DIGITAL VICTOR WARDS YAMAHA	40203 40064, 40194 40059 40203 RDON 40194 40395 40258 40194, 40217 40064, 40194 40059 40059 40059 40064, 40194 40059 40194 40204 40204 40204 40203 40064 4001 40193, 40201 40204 40204 40059 LL 40194 40295 40194 40205 40207 40208 40099 40194 40209 40209 40201 40209 40209 40201 40209 40209 40209 40209 40201 40209	SYLVANIA TANGENT TEVION THOMSON TOSHIBA VICTOR XORO YAMADA YAMAHA ZENITH CD PLAYE ADC ADCOM ADVANTAGE AIWA AKAI ALTO ANAM ARCAM ARISTON AUDIO RESEA AUDIOLAB AUDIOMECA AUDIOTON	51070, 51433 50675 51321 51227 50551 51510 51275 51221 51056, 51158, 51416 51544 50741 R 60018 60234 60032 60157 60156, 60362, 60643 60625 MICS 60018 ARCH 60157 60157 60157 60157 60157	LOEWE LUXMAN MAGNAVOX MARANTZ MATSUI MCS MEMOREX MERIDIAN MICROMEGA MIRO MISSION MITSUBISHI MTC MUSICAL FID: MYRYAD NAD NAGAOKA NAIM NAKAMICHI NEC NIKKO NSM ONKYO OPTIMUS ORION PANASONIC	60157 60093 60157 60029, 60157, 60626 60157, 60643 60029 60032 60157 60156 60625 ELITTY 60393 60157 60000, 60299, 60721 60018 60157 60147 60234 60362, 60625 60157 60101, 61327 60000, 60032, 60179, 60426 60393 60029, 60303 60157, 60626 LE
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TEC TECHNICS TECHNICS TECHNISSON TECHNOSONIC TECHWOOD TEDELEX TELETECH TENSAI TEVION THETA DIGITA THOMSON TOKAI TOM-TEC TOSHIBA TRANS-CONTI	40759, 40768, 40790, 40809, 40833, 41006, 41197, 41483 40898 40490 40770, 40831, 41115, 41165 41115 C2 40730, 41115 40713 41228 40713, 40768 40651, 40770 40651, 40833, 40898, 41036, 41170, 41382 LL 40571 40522 40665, 40788, 40790, 40898 41450 40503, 40695 NENTS 40831, 40872, 41165, 41327 40804, 40843 40857 41151 40672, 40695, 40788, 41115, 41165, 41228	AIWA CARVER DENON FUNAI HARMAN/KAI HITACHI KENWOOD MAGNAVOX MARANTZ MITSUBISHI NAD NAGSMI OPTIMUS PANASONIC PHILIPS PIONEER POLK AUDIO QUASAR REALISTIC SALORA SHARP SONY TECHNICS TELEFUNKEN THETA DIGITAL VICTOR WARDS YAMAHA	40203 40064, 40194 40059 40203 RDON 40194 40395 40258 40194, 40217 40064, 40194 40059 40059 40059 40064, 40194 40059 40194 40204 40064, 40194 40203 40064 40001 40193, 40201 40204 40059 LL 40194 40245 40059 40217	SYLVANIA TANGENT TEVION THOMSON TOSHIBA VICTOR XORO YAMADA YAMAHA ZENITH CD PLAYE ADC ADCOM ADVANTAGE AIWA AKAI ALTO ANAM ARCAM ARISTON AUDIO RESEA AUDIOLAB AUDIOMECA AUDIOTON	51070, 51433 50675 51321 51227 50551 51510 51275 51221 51056, 51158, 51416 51544 50741 R 60018 60023 600157 60156, 60362, 60643 60625 MICS 60018 RCH 60157 60157 60157 60157 60157 60157 601643 60157	LOEWE LUXMAN MAGNAVOX MARANTZ MATSUI MCS MEMOREX MERIDIAN MICROMEGA MIRO MISSION MITSUBISHI MTC MUSICAL FID. MYRYAD NAD NAGAOKA NAIM NAKAMICHI NEC NIKKO NSM ONKYO OPTIMUS ORION PANASONIC PHILIPS	60157 60093 60157 60029, 60157, 60626 60157, 60643 60029 60032 60157 60157 60156 60625 ELITY 60393 60157 60000, 60299, 60721 60018 60157 60147 60234 60362, 60625 60157 60101, 61327 60000, 60032, 60179, 60426 60393 60157, 60626 LE 60625 60032, 60101
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