# RX-V757 AV Receiver DSP-AX757SE AV Amplifier

OWNER'S MANUAL
MODE D'EMPLOI
BEDIENUNGSANLEITUNG
BRUKSANVISNING
MANUALE DI ISTRUZIONI
MANUAL DE INSTRUCCIONES
GEBRUIKSAANWIJZING

#### CAUTION: READ THIS BEFORE OPERATING YOUR UNIT.

- 1 To assure the finest performance, please read this manual carefully. Keep it in a safe place for future reference.
- 2 Install this sound system in a well ventilated, cool, dry, clean place – away from direct sunlight, heat sources, vibration, dust, moisture, and/or cold. Allow ventilation space of at least 30 cm on the top, 20 cm on the left and right, and 20 cm on the back of
- this unit.

  3 Locate this unit away from other electrical appliances, motors, or transformers to avoid
- humming sounds.

  4 Do not expose this unit to sudden temperature changes from cold to hot, and do not locate this unit in a environment with high humidity (i.e. a room with
- a humidifier) to prevent condensation inside this unit, which may cause an electrical shock, fire, damage to this unit, and/or personal injury. 5 Avoid installing this unit where foreign object may
- fall onto this unit and/or this unit may be exposed to liquid dripping or splashing. On the top of this unit, do not place:

  Other components, as they may cause damage
  - and/or discoloration on the surface of this unit.

    Burning objects (i.e. candles), as they may cause fire, damage to this unit, and/or personal injury.
- Containers with liquid in them, as they may fall and liquid may cause electrical shock to the user and/or damage to this unit.
- 6 Do not cover this unit with a newspaper, tablecloth, curtain, etc. in order not to obstruct heat radiation. If the temperature inside this unit rises, it may cause fire, damage to this unit, and/or personal injury.
- 7 Do not plug in this unit to a wall outlet until all connections are complete.
- Do not operate this unit upside-down. It may overheat, possibly causing damage.
   Do not use force on switches, knobs and/or cords.
- 10 When disconnecting the power cord from the wall outlet, grasp the plug; do not pull the cord.
  11 Do not clean this unit with chemical solvents; this
- 11 Do not clean this unit with chemical sovents; 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. 33 To newent damage by lightning disconnect the
- 13 To prevent damage by lightning, disconnect the power cord and outdoor antenna from the wall outlet during an electrical 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 Be sure to read the "TROUBLESHOOTING" section on common operating errors before concluding that this unit is faulty.
- 17 Before moving this unit, press STANDBY/ON to set this unit in the standby mode, and disconnect the AC power plug from the wall outlet.

# 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. This state is called the standby mode. In this state, this unit is desirned to

If the socket outlets in the home are not suitable for the

# consume a very small quantity of power. For U.K. customers

IMPORTANT

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.

#### The plug severed from the mains lead must be destroyed, as a plug with bared flexible cord is huzardous if engaged in a live

socket outlet.

Special Instructions for U.K. Model

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

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

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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 features

- · Proprietary YAMAHA technology for the creation of sound fields
- ◆ Dolby Digital/Dolby Digital EX decoder ◆ DTS/DTS-ES Matrix 6.1, Discrete 6.1, DTS Neo:6,
- DTS 96/24 decoder ◆ Dolby Pro Logic/Dolby Pro Logic II/ Dolby Pro Logic IIx decoder
- Virtual CINEMA DSP
- ♦ SILENT CINEMA<sup>16</sup> Sophisticated AM/FM tuner (RX-V757 only)
- ◆ 40-station random and direct preset tuning Automatic preset tuning
- · Preset station shifting capability (preset editing)

#### Other features

- ♦ YPAO: YAMAHA Parametric Room Acoustic Optimizer for automatic speaker setup
- 192-kHz/24-bit D/A converter · A SET MENU that provides you with items for
- optimizing this unit for your audio/video system · 8 additional input jacks for discrete multi-channel input
- · PURE DIRECT for pure fidelity sound with analog and PCM sources
- On-screen display function helpful in controlling this
- ◆ S-video signal input/output capability Component video input/output canability
- 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 and "learning" capability ◆ Zone 2 custom installation facility (RX-V757 only)
- This document is the owner's manual for both RX-V757 and DSP-AX757SE. Model names are given where the details of functions
- are unique to each model. Illustrations for RX-V757 are mainly used for explanations. V indicates a tie for your operation.

#### . Some operations can be performed by using either the buttons on the main unit or on the remote control. In cases when the but names differ between the main unit 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. Manufactured under license from Dolby Laboratories "Dolby", "Pro Logic", "Surround EX", and the double-D symbol are trademarks of Dolby Laboratories.

"DTS", "DTS-ES", "Nex:6" and "DTS 96:24" are trademarks of Digital Theater Systems, Inc.

# CORPORATION.

SILENT " "SILENT CINEMA" is a trademark of YAMAHA

#### GETTING STARTED

#### Supplied accessories

Please check that you received all of the following parts.







(RX-V757 only)





#### Installing batteries in the remote control



- 1 Press the ▼ part and slide the battery compartment cover off. 2 Insert four supplied batteries (AAA, R03, UM-4) according to the polarity markings (+/-) on the inside of the battery

compartment.

3 Slide the cover back until it snaps into place.

#### Notes on batteries

· Change all of the batteries if you notice the following conditions; the operation range of the remote control decreases, the indicator does not flash or its light becomes dim. · Do not use old butteries together with new ones.

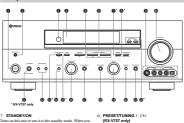
· Do not use different types of batteries (such as alkaline and manganese batteries) together. Read the packaging carefully as these different types of batteries may have the same share and · If the batteries have leaked, dispose of them immediately. Avoid touching the leaked material or letting it come into contact with

clothine, etc. Clean the battery compartment thoroughly before installing new batteries. Do not throw away butteries 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



Turns on this unit or sets it to the standby mode. When you turn on this unit, you will hear a click and there will be a 4 to 5-second delay before this unit can reproduce sound.

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

OPTIMIZER MIC jack
 Use to connect and input audio signals from the supplied microphone for use with the AUTO SETUP function (see

page 24).

3 Remote control sensor
Receives signals from the remote control.

4 Front panel display
Shows information about the operational status of this

# unit. 5 A/B/C/D/E

the unit is in tuner mode.

NEXT

Selects the speaker channel to be adjusted.

15 ABIC/IDIE Input audio and vide (RX-V757 only)

Selects one of the 5 preset station groups (A to E) when insulate from these is

# more than 3 seconds to start automatic preset tuning. 8 TUNING MODE (AUTOMAN'L MONO) (RX-V757 only) Switches the tuning mode between automatic (AUTO indicator off).

Selects preset station number 1 to 8 when the colon (:) is

displayed next to the band indication in the front panel display when the unit is in tuner mode. Selects the tuning

Adjusts the level of the speaker channel selected using

Stores a station in the memory. Hold down this button for

frequency when the colon (:) is not displayed.

LEVEL -/+

7 MEMORY (MAN'L/AUTO FM)

(RX-V757 only)

→ VIDEO AUX jacks.

Input audio and video signals from a portable external source such as a game console. To reproduce source sirnals from these iacks select V-AUX as the input.

| VIDEO AUX jacks | VIDEO

source.

NEXT

VOLUME
Controls the output level of all audio channels.
This does not affect the REC OUT level.

Note

CONTROLS AND FUNCTIONS

and/or B terminals on the rear panel each time the

headphones. When you connect headphones, no signals are output to the PRE OUT jacks or to the speakers. All Dolby Digital and DTS audio signals are mixed down to the left and right headphone channels.

#### B SPEAKERS A/B Turns on or off the set of front speakers connected to the A

corresponding button is pressed. C PRESET/TUNING (EDIT)

#### (RX-V757 only)

Switches the function of PRESET/TUNING I / h (LEVEL) between selecting preset station numbers and

#### D STRAIGHT (EFFECT) Switches the sound fields off or on. When STRAIGHT is

selected, input signals (2-channel or multi-channel) are output directly from their respective speakers without effect processing.

#### E FM/AM (RX-V757 only)

Switches the reception band when the unit is in tuner mode

#### F PROGRAM

Use to select sound field programs or adjust the bass/treble balance (in conjunction with TONE CONTROL).

#### G TONE CONTROL

Use to adjust the bass/treble balance for the front left and right, center, presence and subwoofer channels (see page 31).

#### H INPUT MODE

Sets the priority (AUTO, DTS, ANALOG) for the type of signals received when one component is connected to two or more of this unit's input jacks (see page 37).

#### INPUT selector Selects the input source you want to listen to or watch.

J MULTI CH INPUT Selects the source connected to the MULTI CH INPUT jacks. When selected, the MULTI CH INPUT source takes

#### selector buttons on the remote control).

priority over the source selected with INPUT (or the input K PURE DIRECT Turns on or off PURE DIRECT mode (see page 35).

#### L. ZONE ON/OFF buttons (RX-V757 only)

MAIN Switches this unit's operation to control the component in the main room (see page 77).

#### ZONE 2

Switches this unit's operation to control the component in the second room (Zone 2) (see page 77).

#### ONTROLS AND FUNCTION

# 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 68.

- 1 Infrared window
- Outputs infrared control signals. Aim this window at the component you want to operate.
- 2 TRANSMIT indicator
  Flashes while the remote control is sending signals.

you can control.

- 3 STANDBY
- Sets this unit in the standby mode.
- 4 SYSTEM POWER
  Turns on the power of this unit.
- 5 Input selector buttons
  Select the input source and change the control area.
- 6 Display window
  Shows the name of the selected source component that
- 7 LEVEL
  Selects the speaker channel to be adjusted and sets the
  - 8 Cursor buttons u /d /i /i /ENTER
  - Use to select and adjust sound field program parameters or
  - SET MENU items.

    Press 1 to select a preset station group (A to E) when the unit is in tuner mode (RX-V757 only).

    Press U / Cl to select a preset station number (1 to 8)
  - when the unit is in tuner mode (RX-V757 only).

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

    O Sound field program/numeric buttons
  - Use to select sound field programs.
    Use numbers I through 8 to select preset stations when the unit is in tuner mode (RX-V757 only).
  - Use SELECT to playback 2-channel sources in surround (see page 34). Use EXTD SUR, to switch between 5.1 or 6.1/7.1-channel playback of multi-channel software (see page 33).
- Use PURE DIRECT to turn on or off PURE DIRECT mode (see page 35).
- A SPEAKERS A/B
  Use to turn on or off the set of front speakers connected to
  the A and/or B terminal on the rear panel each time the
- corresponding button is pressed.
- B RE-NAME
  Use to change the input source name in the display window (see page 73).

Use to clear functions acquired when using the learn and rename features, or setting remote control codes (see page 74).

#### DIFARN

Use to set up manufacturer codes or program functions from other remote controls (see pages 69 and 72).

#### F SLEEP Sets the sleep timer.

#### F INPUT MODE

Sets the priority (AUTO, DTS, ANALOG) for the type of signals received when one component is connected to two

or more of this unit's input jacks (see page 37). G MULTI CH IN Selects MULTI CH INPUT when using an external

#### decoder (etc.).

H SELECT k/n Selects another component that you can control independently of the input component selected with the

# input selector buttons.

Selects the AMP mode. You must select the AMP mode to control the main unit.

#### UNDI 4/-

Increases or decreases the volume level.

Mutes the sound. Press again to restore the audio output to the previous volume level.

#### L SET MENU

M ON SCREEN Selects the display mode of the on-screen display (OSD)

# Activates the SET MENU function this unit sends to your video monitor.

N STRAIGHT (EFFECT) Switches the sound fields off or on. When STRAIGHT is selected, input signals (2-channel or multi-channel) are output directly from their respective speakers without

#### effect processing. O NIGHT

Turns on or off the night listening modes (see page 35).

#### P Radio Data System tuning buttons (RX-V757 only)

#### FREQ/TEXT Press this button when the unit is receiving a Radio Data

System station to cycle the display between the PS mode, PTY mode, RT mode, CT mode (if the station offers those Radio Data System data services) and/or the frequency display (see page 45).

#### PTY SEEK MODE

Press this button to set the unit to the PTY SEEK mode (see page 46).

#### PTY SEEK START

page 47).

Press this button to begin searching for a station after the desired program type has been selected in the PTY SEEK mode (see page 46).

FON Press this button to select a radio program type (NEWS, INFO, AFFAIRS, SPORT) to tune in automatically (see

# Using the remote control

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



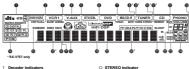
#### Handling the remote control

- dusty places

· Do not spill water or other liquids on the remote control.

- Do not drop the remote control.
- Do not leave or store the remote control in the following types of conditions:
  - places of high humidity, such as near a bath - places of high temperature, such as near a heater or
  - extremely low temperatures

#### Front panel display



When any of this unit's decoders function, the respective indicator lights up.

2 VIRTUAL indicator Lights up when Virtual CINEMA DSP is active (see

page 36).

3 SILENT CINEMA indicator

Lights up when headphones are connected and a sound field program is selected (see page 31).

4 Input source indicators

A cursor lights to show the current input source.

5 Sound field indicators
Light to indicate the active DSP sound fields.

Presence DSP sound field

Left surround Eight surround
DSP sound field

Surround back DSP sound field

6 CINEMA DSP indicator
Lights up when you select a CINEMA DSP sound field

program.

7 YPAO indicator

Lights up during the auto setup procedure and when the auto setup speaker settings are used without any

modifications.

8 AUTO indicator
(RX-V757 only)

Lights up when this unit is in automatic tuning mode.

9 TUNED indicator

Lights up when this unit is tuned into a station.

(RX-V757 only)

(RX-V757 only)

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

A MEMORY indicator (RX-V757 only)

Flashes to show that a station can be stored.

B MUTE indicator
Flashes while the MUTE function is on.

C VOLUME level indication Indicates the current volume level.

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

E STANDARD indicator Lights up when a decoder is selected (see page 34).

F NIGHT indicator Lights up when you select night listening mode.

G SPAB indicators Light up according to the set of front speakers selected. Both indicators light up when both sets of speakers are selected.

H Headphones indicator Lights up when headphones are connected.

HiFi DSP indicator
Lights up when you select a HiFi DSP sound field program.

J Multi-information display Shows the current sound field program name and other information when adjusting or changing settings.

#### K SLEEP indicator

Lights up while the sleep timer is on.

#### L 96/24 indicator

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

# M LFE indicator

Lights up when the input signal contains the LFE signal. N Input channel indicators

#### Indicate the channel components of the current digital input signal.

O ZONE 2 indicator

#### (RX-V757 only)

Lights up when Zone 2 power is on.

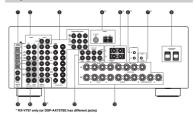
#### P Radio Data System indicators (RX-V757 only)

The name(s) of the Radio Data System data offered by the currently received Radio Data System station light(s) up.

#### EON lights up when an Radio Data System station that offers the EON data service is being received. PTY HOLD lights up while searching for stations in the

PTY SEEK mode.

#### Rear panel



- DIGITAL OUTPUT jacks
   See page 19 for details.
- 2 Audio component jacks
- See page 19 for connection information.
  - 3 Video component jacks See pages 16 and 18 for connection information.
  - 4 Antenna terminals (RX-V757 only)
  - See page 21 for connection information.

    5 PRESENCE/ZONE 2 speaker terminals
    - (RX-V757 only)
      PRESENCE speaker terminals
  - (DSP-AX757SE only)
    See page 13 for connection information.
  - 6 REMOTE IN/OUT jacks (RX-V757 only) See page 76 for details.

- 7 CONTROL OUT jack (RX-V757 only)
  This is a control expansion terminal for commercial use
- 8 AC OUTLET(S)
  Use to supply power to your other A/V components (see
- Use to supply power to your other A/V components (s page 22).
- 9 DIGITAL INPUT jacks
  See pages 16, 18 and 19 for details.
- O MULTI CH INPUT jacks
- See page 17 for connection information.

  A ZONE 2 OUTPUT jacks
- (RX-V757 only)
  These jacks output analog signals only. See page 76 for details.
  - TUNER INPUT jacks
- (DSP-AX757SE only)
  These jacks input signals from the external tuner.
- B PRE OUT jacks
- See page 20 for connection information.

  C Speaker terminals
  See page 12 for connection information.

#### SPEAKER SETUP

#### Speaker placement

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

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





#### Front speakers (FR and FL)

The front speakers are used for the main source sound plus effect sounds. Place these speakers 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 (falling), vends, i.e., i.l fif or some reason it is not practical foliation, vends, i.e., i.l for some reason it is not practical to use a center speaker, you can do without ii. Best results, however, are obtained with the fall system. Align the front face of the center speaker with the front face of your video monitor. Flace the speaker centrally between the front speakers and as close to the monitor as possible, such as directly over or under it.

#### Surround speakers (SR and SL)

The surround speakers (SR and SL)

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

# Surround back speakers (SBR and SBL) The surround back speakers supplement the surround

speakers and provide for 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 the front speakers.

#### . . .

floor

Subwooder
The use of a subwooder, such as the YAMAHA Active
Servo Processing Subwooder System, is effective not only
for reinforcing base in progressing from a continuous conti

#### Presence speakers (PR and PL)

Presence speakers supplement the sound from the front speakers with extra unihear effects produced by CDRSAA DSP (see page 49). These effects include sounds that fillmankers intend to locate a little further back behind the screen in order to create more theater-like ambience. Place these speakers at the front of the room about 0.5—11 m outside the front speakers, facing slightly inwards, and about 1.8 m above the floor.

#### Sneaker connections

Be sure to connect the left channel (L), right channel (R), "s" (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

- If you will use 4 or 6 ohm speakers, be sure to set this unit's speaker impedance setting to 4 ohms before using (see page 23).
   Before connecting the speakers, make sure that the
- power of this unit is off.

  Do not let the bure sneaker 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,
- speakers still creates the interference with the monitor place the speakers away from the monitor. A speaker cord is actually a pair of insulated cables

A speaker cotto is actinismy in just in instituted careles running side by side. One cable is colored or shaped differently, perhaps with a stripe, groove or ridges. Connect the striped (grooved, etc.) cable to the "+" (red) terminals on this unit and your speaker. Connect the plain cable to the "--" (black) terminals.



- Remove approximately 10 mm of insulation from the end of each speaker cable.
- 2 Twist the exposed wires of the cable together to prevent short circuits.
- 3 Unscrew the knob.
- 4 Insert one bare wire into the hole in the side of each terminal.

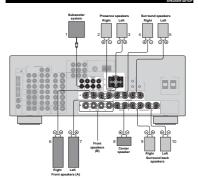
5 Tighten the knob to secure the wire.



Connecting to PRESENCE/ZONE 2 or PRESENCE speaker terminals



- 1 Open the tab.
- Insert one bare wire into the hole of each terminal.
- 3 Return the tab to secure the wire.



You can connect both surround back and presence speakers to this unit, but they do not output sound simultaneously.

The surround back speakers output the surround back channel included in Delty Digital EX and DTS-ES software and only operate whem the Delty Digital EX, DTS-ES or Delty Pro Logic IRs decoder is turned on.

The presence speakers output ambient effects created by the DSP sound fields. They do not output sound when other sound fields are selected.

#### ■ FRONT terminals

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

# ■ CENTER terminals Connect a center speaker (8) to these terminals.

Connect a center speaker (8) to these terminals

SURROUND terminals

# Connect surround speakers (4, 5) to these terminals. ■ SUBWOOFER jack

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

#### ■ SURROUND BACK terminals

Connect surround back speakers (9, 10) to these terminals. If you only connect one surround back speaker, connect it to the left (L) terminals.

#### ■ PRESENCE terminals

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

If you are using RX-V757, you can also use these speakers as
Zone 2 speakers (see page 65).



#### CONNECTIONS

#### Before connecting components

#### CAUTION

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

# ■ Cable indications



### ■ Analog jacks

Training packs:

You can input analog signals from audio components by connecting audio pin cable to the analog jacks on this unit. Connect red plugs to the right jacks and white plugs to the left tacks.

#### ■ Digital lacks

This unit has digital jacks for direct transmission of digital signals through either coasta of filer optic calbes. You can use the digital jacks to input PCM, Dolby Digital and DTS bisterams. When you connect components to both the COAXLAL not OPTEAL jacks, principle signals from the COAXLAL jack. All digital input jacks are compatible with 96-481z sampling digital signals.

#### Note

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

#### Dust protection cap

Pull out the cap from the optical jack before you connect the fiber optic cable. Do not discand 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 monitor. The signals input through the S VIDEO jacks on this unit are automatically converted for output through the VIDEO jacks. When VIDEO CORV is set 100 (see page 64), signals input through the VIDEO jacks can be output through the S VIDEO jacks can be output through the S VIDEO jacks can be output and COMPRONENT VIDEO jacks. Likewise, signals input through the S VIDEO jacks can lead to be output through the COMPRONENT VIDEO jacks can lead be output through the COMPRONENT VIDEO jacks.

#### \_

VIDEO jacks

#### For conventional composite video signals. S VIDEO iacks

For S-video signals, separated into luminance (Y) and color (C) video signals to achieve high-quality color reproduction.

#### COMPONENT VIDEO jacks

For component signals, separated into luminance (Y) and color difference (Pu, Pu) to provide the best quality in picture reproduction.



When signals are input through both the S VIDEO and VIDEO jacks, signals input through the S VIDEO jack have priority.

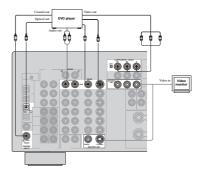
#### CONNECTIONS

# Connecting video components

#### ■ Connections for DVD playback

#### Note

Be use to connect your wideo source comproment in the same very you connect your wideo mention to this unit of VIEBEO CONN, (use yape 64) is not to OFF, For example, if you connect you wideo mention to this unit using a VIEBEO connection, connect your wideo source compromess to this unit using the VIEBEO connections. (Even when VIEBEO CONN; is set to OFF, S-wideo signals input from your video source component are automatically converted to compromise signals in this unit.)



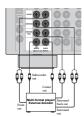
#### ■ Connecting to the MULTI CH INPUT jacks This unit is equipped with 8 additional input jacks (left and right FRONT, CENTER, left and right SURROUND, left and

For 6-channel input

right SURROUND BACK and SUBWOOFER) for discrete multi-channel input from a multi-format player, external decoder, sound processor or pre-amplifier. Connect the output jacks on your multi-format player or external decoder to the MULTI CH INPUT jacks. Be sure to

match the left and right outputs to the left and right input jacks for the front and surround channels.





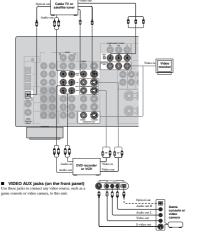
For 8-channel input

- When you select MULTI CH INPUT as the input source, this unit automatically turns off the digital sound field processor, and you cannot select sound field programs. This unit does not redirect signals input to the MULTI CH INPUT sacks 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, only front left and right channels are output.

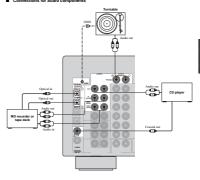
#### ■ Connections for other video components

#### Notes

- Be stare to connect your video source components in the same way you connect your video monitor to this unit if VIDEO CONV. (see page 64) is set to OFF. For example, if you connect your video monitor to this unit using a VIDEO connection, connect your video source components to this unit using the VIDEO connections.
- Converted video signals are only output to MONTOR OUT jacks. When recording, you must make the same type of video connections (i.e., S-video) between each component.



#### Connections for audio components



#### Connecting a turntable

PHONO jacks are for connecting a turntable with an MM or high-output MC cartridge. If you have a turntable with a low-output MC cartridge, use an in-line boosting transformer or MC-head amplifier when connecting to these jacks.

Connect your turntable to the GND terminal to reduce noise in the signal. However you may hear less noise without the connection to the GND terminal for some record players.

#### Connecting to an external amplifier

If you want to increase the power output to the speakers, or want to use another amplifier, connect an external amplifier to the PRE OUT jacks as follows.

#### Notes

- When audio pin plugs are connected to the PRE OUT jacks for output to an external amplifier, do not make connections to the corresponding SPEAKERS terminals. Set the volume of the amplifier connected to this unit to the maximum.
- ampainer connected to this unit to the maximum.

  The signals output through the FRONT PRE OUT and
  CENTER PRE OUT jacks are affected by the TONE
  CONTROL settings.
- If SPEAKERS A is turned off and SP B is set to ZONE B (see page 65), signals will only be output from the FRONT PRE OUT jacks.



- 1 FRONT PRE OUT tacks
- Front channel line output jacks.
- 2 SURROUND PRE OUT jacks Surround channel line output tacks.
- 3 CENTER PRE OUT lack
- Center channel line output jack.
- 4 SURROUND BACK PRE OUT jacks
- Surround back or presence channel line output jacks.

#### 5 SUBWOOFER PRE OUT jack

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

#### Note:

- Each PRE OUT jack outputs the same channel signals as the corresponding speaker terminals.
- Adjust the volume level of the subwoofer with the control on the subwoofer. It is also possible to adjust the volume level using the remote control (see "Manually adjusting speaker levels" on page 53).
- Some signals may not be output from the SUBWOOFER PRE OUT jack depending on the SPEAKER SET (see page 57) and LFE/BASS OUT (see page 58) settings.

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

designated terminals.

Indoor FM antenna (included) AM loop a



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 moint earth.

- Connecting the AM loop antenna
- Set up the AM loop antenna.



Press and hold the tab to insert the AM loop antenna lead wires into the AM ANT and GND terminals.



 Orient the AM loop antenna for the best reception.



#### Note

- 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 that an indoor one. If you experience poor reception quality, an outdoor arterna may improve the quality. Consult the nearest authorized YAMAHA dealer or service center about outdoor arternas.

DSP-AX757SE ...

#### Connecting the power supply cord

#### ■ Connecting the AC power cord Plus the power cord into an AC wall outlet.

# ■ AC OUTLET(S) (SWITCHED)

.. 1 outlet

other components to this unit. Power to the AC OUTLETE(s) is controlled by this unit's STANDBY/ON (or SYSTEM POWER and STANDBY). The outlet(s) supply power to any connected component whenever this unit is turned on. For information on the maximum power (total power consumption of components), see "SPECTE/CATIONS" on page 95.

#### ■ 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 if the power cord is disconnected from the AC wall outlet, or the power supply is cut for more than one week; the stored data will be lost.

# Speaker impedance setting

#### CAUTION

If you are using 4 or 6 ohm speakers, set the impedance to 4 or 6 ohms as follows before turning on the power. Be sure this unit is in the standby mode.

#### Turn off the power to this unit, and while holding down STRAIGHT (EFFECT), press STANDBY/ON.

This unit turns on, and "SP IMP," appears in the front panel display.



2 Press STRAIGHT (EFFECT) repeatedly to select "4 Ω MIN".



3 Press STANDBY/ON to turn off the power.



The setting you made is reflected the next time this unit's power is turned on.

# Turning on the power

When all connections are complete, turn on the power of this unit.



Press STANDBY/ON (or SYSTEM POWER on the remote control) to turn on the power of this unit.





Turn on the video monitor connected to this

#### **AUTO SETUP**

#### Introduction

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

#### Motor

- Please be advised that it is normal for load test tones to be output during the auto setup procedure.
- If auto setup stops and error messages appear on the screen, follow the troubleshooting on page 28.
- YPAO performs the following checks and makes appropriate adjustments to give you the best possible sound from your system. WIPANG:
- Checks which speakers are connected and the polarity of each speaker.

# SIZE:

Checks the speakers frequency response and sets the crossoverhigh cut frequency for the subwoofer to improve the sound relationship between the speakers and the subwoofer.

#### DISTANCE:

DISTANCE: Checks the distance of each speaker from the listening position and adjusts the delay of each channel so that the sound from each speaker reaches the listening position at the same time. Also checks the phase of each speaker.

#### EQUALIZING:

Adjusts frequency and levels of each channel's parametric equalizer to reduce coloration across the channels and create a cohesive sound field. This is particularly important if you use different brands or sizes of speakers for some channels or have a room with unique sonic characteristics.

YPAO equalizing calibration incorporates three parameters (frequency, level and Q factor) for each of the seven bands in its parametric equalizer to provide highly precise automatic adjustment of frequency characteristics.

#### I EVEL-

Checks and adjusts the sound level (volume) of each speaker.

# Optimizer microphone setup

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



#### Notes

panel.

- 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.
     Do not place it on top of this unit.

#### 2 Place the optimizer microphone on a flat level surface with the omni-directional microphone head upward, at your normal

listening position.

If possible, use a tripod (etc.) to affix the optimizer mic at the same height as your ears would be when you are seated in your listening position.

Optimizer microphone position

y If your subwoofer has adjustable volume and crossover high cut frequency controls, set the volume between 9 and 11 o'clock (as viewed on a conventional clockfice) and set the crossover/high cut frequency to the maximum.



Switch on this unit and your video monitor.

Make one the OSD is displayed.

Make sure the OSD is displayed.

2 Press AMP.

# 3 Press SET MENU.



any other SET MENU items (see page 60).

Press u /d to select AUTO SETUP, then



# 5 Press u / d to select SETUP, then press j / i to select the desired setting.



AUTO To perform the auto setup procedure (YPAO).
RELOAD To reload the last auto setup (YPAO)

settings to override any manual changes.

UNDO To undo the last auto setup (YPAO) and restore the previous settings.

To restore the factory preset (default)

setup parameters.

y

You can choose RELOAD or UNDO only if you have already performed the auto setup procedure.

#### 6 Press cl to select "START", then press ENTER to start the setup procedure. The screen changes as follows.

DEFAULT







The results displayed in the RESULT:EXIT screen

AUTO SETUP

are as follows:

SP The number of connected speakers

- P The number of connected speakers displayed in the order: Front Back/Subwoofer I ST The distance of the speakers from this
- unit displayed in the order: Closest speaker distance/Farthest speaker distance
- LVL The speaker output level displayed in the order: Lowest output level/Highest output
- If you selected AUTO in step 5, "WAITING" appears when the auto setup procedure is started, then loud test tones are output from each speaker in
- turn.

   If you selected DEFAULT, RELOAD or UNDO in
- step 5, no test tones are output.

   If an ERROR screen appears, see "If an error
- screen appears" on page 26.

  If a WARNING screen appears, see "If a warning screen appears" on page 27.

y You can display the detailed result information by using Cl and ENTER to select "RESULT". In the detailed result information screen, you can switch information by pressing U / Cl / J / I.

#### 7 Press j / i to select SET or CANCEL, then press ENTER to return to the SET MENU screen.



SET To apply the auto setup (YPAO) settings.

CANCEL To cancel the auto setup (YPAO) without making any changes.

y
If you are not satisfied with the result or want to manually adjust
each setup parameter, use the manual setup parameters (see page
(7)

#### Notes

If E-10 appears during testing, restart the procedure from step 3.
 To cancel the auto setup procedure before completion, press u.

#### If an error screen appears

Use u / d / j / i to select RETRY or EXIT, then press ENTER.



RETRY To retry the auto setup procedure.

EXIT To exit auto setup.

#### If a warning screen appears

#### Press ENTER to display detailed information about the warning.

Press j / i to switch between warning messages.



E CONTRACTOR DE LA CONT

W-1 example screen
For details about each message, see page 29.

- Warnings let you know about potential problems detected during auto setup. Warnings will not cancel the auto setup.
   The number of warnings is displayed to the right of
- "WARNING".

   When the warning is not applicable to a speaker, "--" is displayed.

# When you are finished, press ENTER to return to the RESULT:EXIT screen. Continue from step 7 on page 26.

#### Notes

 If you change speakers, speaker positions, or the layout of your listening environment, perform auto setup again to re-calibrate your system.

 Depending on listening environments, SWFR PHASE:REV appears in AUTO:CHECK and SUBWOOFER PHASE

parameter in SET MENU (see page 59) is automatically set to REVERSE. To select the desired setting, change the SUBWOOFER PHASE parameter in SET MENU.

 In the DISTANCE results, the distance displayed may be longer than the actual distance depending on the characteristics of your subwoofer.

#### ■ Troubleshooting for auto setup procedure

#### Before auto setup

Error message	Cause	Remedy
Connect MIC	Optimizer microphone is not connected.	Connect the supplied optimizer microphone to the OPTIMIZER MIC jack on the front panel.
Unpl ug HP	Headphones are connected.	Usplug the headphones.

AUTO SETUP

Error message	Cause	Remedy
E-1: NO FRONT SP	Front L/R channel signal(s) is (are) not detected.	Select the front speakers with SPEAKERS A/B.     Check the front left and right speaker connections.     Turn on the power to the external amplifier (when the front speaker signals are output from an external amplifier).
E-2: NO SURR. SP	Only one surround channel signal is detected.	Check the surround speaker connections.
E-3: NO PRES. SP	Only one presence channel signal is detected.	Check the presence speaker connections.
E-4: SBR->SBL	Only right surround back channel signal is detected.	Connect the surround back speaker to the LEFT SURROUND BACK SPEAKERS semiral if you only have one surround back speaker.
E-5: NOI SY	Background noise is too load.	<ul> <li>Try the auto setup procedure in a quiet environment.</li> <li>Turn off mony decinic equipment like air conditioners (etc.) or move them away from the optimizer microphone.</li> </ul>
E-6: CHECK SUR.	Surround back speaker(s) is (are) connected, though surround L/R speakers are not.	Connect surround speakers when you use (a) surround back speaker(s).     Check the surround speaker connections.
E-7: NO MIC	The optimizer microphone was unplugged during the auto setup procedure.	Do not touch the optimizer microphone during the auto setup procedure.
E-8: NO SI GNAL	The optimizer microphone does not detect test tones.	Check the microphone setting.     Check the speaker connections and placement.
E-9: USER CANCEL	The auto setup procedure was cancelled due to user activity.	Perform the auto setup procedure again. Do not adjust VOLUME (etc.) during the auto setup procedure.
E-10: I NTERNAL FRROR	A DSP communication error or hangup occurred.	Perform the auto setup procedure again.

#### Warnings after auto setup

Warning message	Cause	Remedy
N-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 (+/-).
W-2: OVER 24m	The distance between the speaker and the listening position is 24 m or more.	Move the speaker closer to the listening position.     Check the speaker connections for proper polarity (+/-).
N-3: LEVEL ERROR	The difference of volume level among speakers is encessive. (No level correction is made.)	<ul> <li>Readjust the speaker installation so that all speakers are set in locations with similar conditions.</li> <li>Check the speaker connections for proper polarity (+/-).</li> <li>Use speakers of similar quality and efficiency.</li> </ul>

<sup>.</sup> If the ERROR or WARNING screens appears, check the cause of the problem, then perform the auto setup procedure 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.

#### PI AYRACK

#### Basic operations



Select the input source.

Rotate INPUT (or press one of the input selector

buttons on the remote control) to select the input you desire.



The current input source name and input mode appear in the front panel display and video monitor for a few seconds.



5 Start playback or select a broadcast station on the source component.
Refer to the operating instructions for the component.

Adjust the volume to the desired output level.



Press STANDBY/ON (or SYSTEM POWER on the remote control) to turn on the power.



2 Turn on the video monitor connected to this

3 Press SPEAKERS A or B (or press AMP to select the AMP mode, then press SPEAKERS A or B on the remote control).



7 Select a sound field program if desired. Use PROGRAM (or press AMP to select the AMP mode, then press one of the sound field program buttons) to select a sound field program. See page 49 for details about sound field programs.







#### To listen with headphones ("SILENT CINEMA")

"SILENT CINEMA" allows you to enjoy multi-channel music or movie sound, including Dolby Digital and DTS surround, 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. When activated, the "SILENT CINEMA" indicator lights up in the front panel display.

#### Notes

- . This unit will not be set to "SILENT CINEMA" when MULTI CH INPUT is selected as the input source.
- · "SILENT CINEMA" is not effective when PURE DIRECT or the 2ch Stereo program is selected, or in STRAIGHT mode.

#### To adjust the tone

You can adjust the tonal quality of your front left and right, center, and subwoofer speakers or headphones (when connected). Press TONE CONTROL on the front panel repeatedly to select TREBLE or BASS, then rotate PROGRAM to the right or left to increase or decrease.

frequency response.



· Select TREBLE to adjust the high frequency response. · Select BASS to adjust the low

y Speaker and headphone adjustments are stored independently.

. TONE CONTROL is not effective during playback in the PURE

DIRECT mode, or when MULTI CH INPUT is selected (page 35). When TONE BYPASS is set to "AUTO" (page 61), and BASS and TREBLE are set to 0 dB, audio outrut aut

#### bypasses this unit's tone control circuitry. To mute the sound Press MUTE on the remote control. The MUTE indicator flashes in the

front panel display.



To resume the audio output, press MUTE again (or press VOL -/+). The MUTE indicator disappears from the display.

ou can adjust the muting level (see page 61).

#### ■ Selecting MULTI CH INPUT

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



#### Note

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

#### 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.

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



#### Note

If you want to enjoy audio from the MULTI CH INPUT jacks together with a video source, first select the video source, then press MULTI CH INPUT (or MULTI CH IN on the remote control).

#### Selecting sound field programs

Front panel operation



Rotate PROGRAM to select the desired program. The name of the selected program appears in the front panel display and video monitor.



#### Remote control operation



#### Press AMP to select the AMP mode, then press one of the sound field program buttons to select the desired program. The name of the selected program appears in the front



Y
Choose a sound field program based on your listening preference, and not on the name of the program.

#### Notes

nanel display.

- · When you select an input source, this unit automatically selects the last sound field program used with that source. Sound field programs cannot be selected when MULTI CH INPLIT is selected
- Sampling frequencies higher than 48 kHz (except for DTS 96/ 24 signals) will be sampled down to 48 kHz, then sound field programs will be applied.

#### ■ Enjoying multi-channel software

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

Press AMP to select the AMP mode, then press EXTD SUR, on the remote control to switch between 5.1 and 6.1/7.1-channel playback.



To select a decoder, press j / i repeatedly when PLIIxMusic (etc.) is displayed.



# Auto (AUTO)

When a signal (flag) that can be recognized by the unit is input, the unit selects the optimum decoder for playing back the signal in 6.1/7.1 channels.

If the 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 (select with i / i)

You can select from the following decoders depending on the format of the software you are playing. PLI I xMovi e For playing back Dolby Digital or DTS signals in 6.1/7.1

channels using the Pro Logic IIx movie decoder. PLI I xMusi c For playing back Dolby Digital or DTS signals in 6.1/7.1

channels using the Pro Logic IIx music decoder. For playing back Dolby Digital signals in 6.1/7.1 channels

using the Dolby Digital EX decoder. DTS signals are played back in 6.1/7.1 channels using the DTS-ES decoder. For playing back Dolby Digital or DTS signals in 6.1/7.1

# channels using the Dolby Digital EX decoder. Decoders are not used to create 6.1/7.1 channels.

When "SUR. B L/R SP" is set to SMLx1 or LRGx1 (see page 58), the surround back channel will be output from the left SURROUND BACK speaker terminals.

#### ....

#### Mates

- Some 6.1-channel compatible discs do not have a signal (flag) which this unit can automatically detect. When playing those kinds of discs with 6.1-channel, select a decoder (PLIIx Movie, PLIIx Mosic, EX/ES or EX) manually.
  - 6.1-channel playback is not possible even if EXTD SUR, is pressed in the following cases:
     –When "SUR, L/R SP" (see page 57) or "SUR, B L/R SP" (see
  - When "SUR, LIK SP" (see page 57) or "SUR, B LIK SP" (see page 58) is set to NONE.
     When the source connected to the MULTI CH INPUT jack 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 a Dotby Digital KARAUKE source is being played.
   When "2ch Stereo" or PURE DIRECT is selected.

  When the power of this unit is turned off, this setting will be
- riset to AUTO.

  The Pro Logic IIx decoder is not available when "SUR. B L/R SP" is set to NONE (see page 58).

  PLII:Movie cannot be selected when "SUR. B L/R SP" is set to
- PLIEMPINE cannot be selected when "SUR. B Lik SP" is set to SMLx1 or LRGx1 (see page 58).

  Enjoying 2-channel software in surround Signals input from 2-channel sources can also be played.
- back on multiple channels.

  Press AMP to select the AMP mode, then press
  STANDARD on the remote control to switch
  between the SUR. STANDARD and SUR.







Press SELECT on the remote control to select the decoder.



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

#### When you select the SUR. STANDARD program:

PRO LOGIC

Dolby Pro Logic processing for any sources.
PLLI Movi e

Dolby Pro Logic II processing for movie software.

PLII Musi C

Dolby Pro Logic II processing for music software.

PLI I Game Dolby Pro Logic II processing for game software.

Dolby Pro Logic II processing for game software
PLLLx Movi e

Dolby Pro Logic IIx processing for movie software.

PLIIx Musi C

PLITX Must C

Dolby Pro Logic IIx processing for music software.

PLIIx Game
Dolby Pro Logic IIx processing for game software.

Neo: 6 Ci nena DTS processing for movie software.

Neo: 6 Musi c DTS processing for music software.

# When you select the SUR. ENHANCED or MOVIE THEATER program:

PRO LOGIC

Dolby Pro Logic processing for any sources.
PLLI Moyi e

Dolby Pro Logic II processing for movie software.

Dolby Pro Logic IIx processing for movie software. Neo: 6 Ci nema

DTS processing for movie software.

Y You can also select a decoder by pressing j / i on the remote control when the decoder type is displayed in the short message display.

Note

The Pro Logic IIx decoder is not available when "SUR. B L/R SP" is set to NONE (see mare 59).

# Listening to high fidelity stereo sound (PURE DIRECT)

PURE DIRECT allows you to bypass this unit's decoders and DSP processors, and turn off the video circuitry and front panel display to enjoy pure high fidelity sound from analog and PCM sources.

# Press PURE DIRECT (or press AMP to select the AMP mode, then press PURE DIRECT on the remote control) to activate pure direct.

The indicator around the front panel button lights up.



The front panel display switches on momentarily when an operation is performed.

To cancel, press PURE DIRECT again.

The indicator around the front panel button goes out and the previous settings are restored.

- · To avoid unexpected noise, do not play DTS-encoded CDs in
  - When a multi-channel simul (Dolby Dirital or DTS) is input. this unit automatically switches to the corresponding analog input.
  - No sound will be output from the subwoofer. · The following operations are not possible during PURE
  - DIRECT operation: - switching the sound field program
  - displaying the OSD
  - adjusting SET MENU parameters all video functions (video conversion etc.)
  - PURE DIRECT is automatically cancelled whenever this unit is set to the standby mode.

# Night listening modes

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.

### Press AMP to select the AMP mode, then press NIGHT repeatedly on the remote control to select cinema or music. When night listening is selected, the NIGHT indicator in

the front panel display lights up.



- · 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 function. Press j / i to adjust the effect level while

NIGHT: CINEMA or NIGHT: MUSIC is displayed. This adjusts the level of compression.



# Effect, LvI: MID

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

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

# Notes

· You cannot use the night listening modes with PURE DIRECT OF MILITICH INPUT · The night listening modes may vary in effectiveness depending on the input source and surround sound settings you use.

# Downmixing to 2 channels

You can enjoy 2-channel stereo playback even from multichannel sources.

Rotate PROGRAM (or press AMP to select the

Rotate PROGRAM (or press AMP to select the AMP mode, then press STEREO on the remote control) to select 2ch Stereo.



2ch Stereo

You can use a subwoofer with this program when SWFR or BOTH is selected in "BASS OUT".

### ■ Listening to unprocessed input signals In STRAIGHT mode, two channel stereo sources are

In STRAIGHT mode, two channel stereo sources are output from only the front left and right speakers. Multichannel sources are decoded straight into the appropriate channels without any additional effect processing.

Press STRAIGHT to select STRAIGHT.



Press STRAIGHT (EFFECT) again so that "STRAIGHT" disappears from the display when you want to turn the sound effect back on.

# ■ 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. LIR SP" to NONE (see page 57), Virtual CINEMA DSP activates automatically whenever you select a CINEMA DSP sound field renoram.

# Note

Virtual CINEMA DSP will not activate, even when "SUR. L/R SP" is set to NONE (see page 57) in the following cases: —When MULTI CH DSPUT is selected as the input source. —When headphones are connected to the PHONES jack.

# Selecting input modes

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

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



 Press INPUT MODE to select an input mode. In most cases, use AUTO.



Input source Input mode

AUTO Automatically selects input signals in the following order:

Digital signals\*
 Discontinuous signals
 Discontinuous signals
 Discontinuous signals signals encoded in
 Discontinuous signals are input, no
 sound is output.

ANALOG Selects only unador signals. If no

analog signals are input, no sound is output.

If this unit detects a Dolby Digital or DTS signal, the decoder automatically switches to the arrevorsiste

y
You can adjust the default input mode of this unit (see page 63).

decoder.

# Notes

When playing a DTS-CD/LD, be sure to set the INPUT MODE

- If the digital output data of the player has been processed in any way, you may not be able to perform DTS decoding even if you make a digital connection between this unit and the player depending on the player.
- Displaying information about the input source
   You can display the type, format and sampling frequency

of the current input signal.

Select the input source.



Press STRAIGHT.



#### \_\_\_

# 3 Press u / d to display the following information about the input signal.



(Format) Signal format display. When the unit cannot detect a digital signal it automatically switches to analog input.

- in Number of source channels in the input signal. For example, a multi-channel soundrack with 3 front channels, 2 surround channels and LFE, is displayed as "32/LFE".
- f's Sampling frequency. When the unit is unable to detect the sampling frequency "Unknown" appears.
- rate Bit rate. When the unit is unable to detect the bit rate "Unknown" appears.
- fl g Flag data encoded with DTS or Dolby Digital signals that cue this unit to automatically switch decoders.

# FM/AM TUNING (RX-V757 ONLY)

# Automatic and manual tuning

There are 2 tuning methods; automatic and manual. Automatic tuning is effective when station signals are strong and there is no interference.

Automatic tuning



Rotate INPUT to select TUNER as the input source.



2 Press FM/AM to select the reception band. "FM" or "AM" appears in the front panel display.



 Press TUNING MODE (AUTO/MAN'L MONO) 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.



Press PRESET/TUNING I / h once to begin automatic tuning. Press h to tune into a higher frequency, or press I



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

# FM/AM TUNING (RX-V757 ONLY) Manual tuning

If the signal from the station you want to select is weak, tune into it manually. Manually tuning into an FM station will automatically switch the tuner to monaural reception to increase the signal quality.

## Select TUNER and the reception band following steps 1 and 2 as described in "Automatic tuning".

2 Press TUNING MODE (AUTO/MAN'L MONO) 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.



### 3 Press PRESET/TUNING | / h to tune into the desired station manually. Hold down the button to

continue searching.



#### Automatically presetting FM stations You can use the automatic preset tuning feature to store FM stations. This function enables this unit to

automatically tune into FM stations with strong signals, and to store up to 40 (8 stations in 5 groups, A1 through E8) of those stations in order. You can then recall any preset station easily by selecting the preset station number.



Press FM/AM to select the FM band.



### Press TUNING MODE (AUTO/MAN'L MONO) 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.



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

The preset number, the MEMORY and AUTO indicators flash. After about 5 seconds, automatic presetting starts from the frequency currently displayed and proceeds toward the higher



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

# Notes

frequencies.

· Any stored station data existing under a preset number is cleared when you store a new station under that preset nur . If the number of received stations does not reach 40 (E8), automatic preset tuning has automatically stopped after

searching all 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 by following the procedure in "Manually presetting

# Automatic preset tuning options:

You can select the preset number from which this unit will store FM stations and/or begin tuning toward lower

- After pressing MEMORY in step 3: 1 Press A/B/C/D/E, then PRESET/TUNING 1 / h to select the preset number under which the first station will be stored. Automatic preset tuning will stop when stations have all been stored up to E8.
- 2 Press PRESET/TUNING (EDIT) to turn off the colon (:) and then press PRESET/TUNING 1 to begin tuning toward the lower frequencies

# Memory back-up

frequencies.

The memory back-up circuit prevents the stored data from being lost even if this unit is set in the standby mode, the power cord is disconnected from the AC outlet, or the power supply is temporarily cut due to power failure. However, if the power is cut for more than one week, the preset stations may be cleared. If so, store the stations again by using the presetting station methods.

# Manually presetting stations

You can also store up to 40 stations (8 stations in 5 groups, A1 through E8) manually.



#### Tune into a station. See page 39 for tuning instructions.

When tuned into a station, the front panel display

shows the frequency of the station received.





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

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



Preset group

#### FM/AM TUNING (RX-V757 ONLY)

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

Press h to select a higher preset station number.

Press l to select a lower preset station number.



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

### The station band and

frequency appear in the front panel display with the preset group and number you have selected.

C.3: API 636



C3: API 630 kHz Shows the displayed station has been stored as C3.

# 6 Repeat steps 1 to 5 to store other stations Notes

- Any stored station data existing under a preset number is cleared when you store a new station under that treset number.
- cleared when you store a new station under that preset number

  The reception mode (stereo or monaural) is stored along with
  the station frequency.

# Selecting preset stations

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





When performing this operation with the remote control, first press TUNER to set the remote to tuner mode.

 Press A/B/C/D/E (NEXT) (or A/B/C/D/E i on the remote control) to select the preset

station group.

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



Remote control

# 2 Press PRESET/TUNING I / h

(or PRESET u / d on the remote control) to select a preset station number (1 to 8). The preset group and number appear on the front panel display along with the station band, frequency and the TUNED indicator lights up.



# Exchanging preset stations

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



- Select preset station "E1".
   See "Selecting preset stations".
- Press and hold PRESET/TUNING (EDIT) for more than 3 seconds.

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

E11FM 87.59MHz

3 Select preset station "A5" using A/B/C/D/E and PRESET/TUNING 1 /h.
"A5" and the MEMORY indicator flash in the frost panel disented.



#### 4 Press PRESET/TUNING (EDIT) again. The stations stored at the two preset assignments a exchanged.



# Receiving Radio Data System stations

Radio Data System is a data transmission system used by PM stations in many countries. The Radio Data System function is carried our among the network stations. This unit can receive various Radio Data System data such as PS (Program Service amon), PTY (Program Type), RT (Radio Text), CT (Clock Time), EDM (Enhanced Other Networks) when receiving Radio Data System broadcasting stations.

# ■ PS (Program Service name) mode The name of the Radio Data System station being received is displayed.

#### ■ PTY (Program Type) mode There are 15 program types to classify Radio Data System stations.

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

# RT (Radio Text) mode

Information about the program (such as the title of the song or name of the singer) on the Radio Data System station being received is displayed using a maximum of 64 alphanumeric characters, including the umlant symbol. If other characters are used for RT data, they are displayed with an underbar ().

# CT (Clock Time) mode

See "EON function" on page 47.

The current time is displayed and updated every minute. If the data are accidentally cut off, "CT WAIT" may

# ■ EON (Enhanced Other Networks)

# Changing the Radio Data System mode

Four modes are available for displaying Radio Data System data. The PS, PTY, RT and/or CT indicators that correspond to the Radio Data System data services offered by the station light up in the front punel display.

 Press TUNER on the remote control to set this unit to tuner mode.



Press FREQ/TEXT repeatedly on the remote control to display the various Radio Data System data offered by the transmitting station.



Frequency display

#### MOIGS

 Do not press FREQ/TEXT until a Radio Data System indicator lights up in the front panel display. You cannot change the mode if you press the button prior to this. This is because this unit has not finished receiving all of the Radio Data System data from the station.

Radio Data System data not offered by the station cannot be selected.
 This unit cannot utilize the Radio Data System data source if

I have a considerable to the street of the signal received in not street on the signal received is not street on that, so it is possible that the RT mode requires a large amount of data, so it is possible that the RT mode may not be displayed even if other Radio Data System modes (PS, PTV, etc.) are displayed.

Radio Data System data may not be received under poor receiption conditions. Is such cases, press TUNNEG MODE (ALTIVAMANT MONE) to share the ALTIVOTAMANT MONE).

reception conditions. In such cases, press TUNING MODE (ALTIOMANY, MONO) on that the ALTIO mindance disappears from the frost panel display, Although this will clusage the reception mode to manual, Radio Data System data may be displayed when you change the display to Radio Data System mode.

If the signal strength is weakened by external interference

it the signal strength is weatened by external interference during the reception of a Radio Data System station, the Radio Data System data service may be cut off suddenly and "... WAIT" will appear in the front punel display.

# PTY SEEK function

If you select the desired program type, this unit automatically searches all preset Radio Data System stations that are broadcasting a program of the required type.





Y When performing this operation with the remote control, first press TUNER to set the remote to tuner mode.

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

The program type of the station being received or "NEWS" flashes in the front panel display. To exit from the PTY SEEK mode, press PTY SEEK MODE again.



# 2 Press PRESET/TUNING | / h (or PRESET/ CH u / d on the remote control) to select the desired program type.

The selected program type appears in the front panel

POP M



display.

## 3 Press PTY SEEK START on the remote control to begin searching all preset Radio Data System stations.

The selected program type flashes and the PTY HOLD indicator lights up in the front panel display while searching for stations. To cancel searching, press PTY SEEK START again.



- · The unit stops searching when it finds a station broadcasting the selected type of program.
- · If the found station is not the one you desire, press PTY SEEK START again. This unit resumes

# **EON** function

This function uses the EON data service on the Radio Data System station network. If you select the desired poragram type (NEWS, INPG, AFFAIRS or SPORT), this unit automatically searches for all preset Radio Data System stations that are scheduled to broadcast the selected type of program and switches from the station currently being received to the new station when the broadcast states.



When performing this operation with the remote control, first press TUNER to set the remote to tuner mode.

#### Moto

This function can only be used when a Radio Data System station that offers the EON data service is being received. When such a station is being received, the EON indicator lights up in the front punel display.

# Check that the EON indicator is lit in the front page! display.

panel display.

If the EON indicator is not lit up, tune into another
Radio Data System station so that the EON indicator
lights up.

## Press EON repeatedly on the remote control to select the desired program type (NEWS, INFO, AFFAIRS or SPORT).

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



- If a preset Radio Data System station type starts broadcasting the selected type of program, the unit automatically switches from the program being received to that program. (The EON indicator flashes.)
- When broadcasting of the selected program ends, the unit returns to the previous station (or another program on the same station).

Press EON repeatedly until no program type name is

shown in the front panel display.

# RECORDING

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



- Turn on the power of this unit and all connected components.
- Select the source component you want to record from.



- Start playback (or select a broadcast station)
   on the source component.
- on the source component.

  4 Start recording on the recording compone

y Do a test recording before you start an actual recording.

#### Notes

- When this unit is set in the standby mode, you cannot record between other components connected to this unit.
   The setting of TONE CONTROL, VOLUME, "SPEAKER LEVEL" (page 59) and programs does not affect recorded
- material.

  A source connected to the MULTI CH INPUT jacks of this unit cannot be recorded.
- S-video and composite video signals pass independently through this unit's video circuits. Therefore, when recording or debbing video signals, if your video source component is connected to provide only an S-video (or only a composite video) sirruit, you can record only an S-video (or only a composite

composite video) signal to your VCR.

- Digital signals imput to the DiGITAL INPUT gacks are not output to the analysis (Julia of Interpretation of
- Check the copyright laws in your country to record from records, CDs, radio, etc. Recording of copyrighted material may infringe copyright laws.

encoded signals to prevent it from being dubbed, the picture itself may be disturbed due to those signals.

Special considerations when recording

DTS software
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 that have DTS signals recorded on them, the following considerations and adjustments need to be made.

made.

For DVDs and CDs encoded with DTS, when your player is compatible with the DTS format, follow its operating instructions to make a setting so that the analog signal will be output from the player.

This unit is equipped with a variety of precise digital decoders that allow you to enjoy multi-channel playback from almost any sound source (stereo or multi-channel). 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. Most of these sound field programs are precise digital recreations of actual acoustic environments found in famous concert halls, music venues, and movie theaters.

Y The YAMAHA CINEMA DSP modes are compatible with all Dolby Digital, DTS, and Dolby Surround sources. Set the input mode to AUTO (see page 37) to enable this unit to automatically switch to the appropriate digital decoder according to the input signal.

. This unit's DSP sound field programs are recreations of real-world acoustic environments made from precise measurements taken in the actual hall, etc. Thus you may notice variations in the strength of the reflections coming from the front, back, left and right. · Feel free to choose a sound field program based on your listening preference, and not purely 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.

Remote control button	Program	Features	Source
1	STEREO: 2ch Stereo	Downmixes mathi-channel sources to 2 channel (left and right) or plays back 2-channel sources as is.	
2	MUSI C: POP/ROCK	This program lends an enthasiastic atmosphere to the sound, giving you the feeling you are at an actual juzz or rock concert.	
3	ENTERTAL NMENT: TV Sports	Though the presence sound field is relatively narrow, the surround sound field employs the sound environment of a large concert hall. This effect enhances the experience of watching various TV programs such as news, variety shows, music programs or sports programs.	
	ENTERTAI NMENT: Mono Movi e	This program is provided for reproducing monatral video sources (such as old movies). The program produces the optimum reverberation to create sound depth using only the presence sound field.	
	ENTERTAI NMENT: Game	This program adds a deep and spatial feeling to video game sounds.	мит
4	MOVI E THEATER: Spectacl e	CINEMA DSP processing. This program creates the extremely wide sound field of a 70-mm movie theater. It precisely reproduces the source sound in detail, making both the video and the sound field incredibly real. This is ideal for any kind of video source encoded with Dolby Sumsund, Dolby Digital or DTS (especially large-scale movie productions).	2-CH
	MOVIE THEATER: Sci -Fi	CNEMA DSP processing. This program clearly reproduces dialog and sound efficies in the lasts sound from for science fricton filters, thus creating a broad and equasistic cinematic spaces and allows. Vision care joy science fection filters in a virtual-space sound field that includes Doby Samound, Doby Digital and DTS-encoded software employing the most advanced learnings.	
	MOVIE THEATER: Adventure	CENEMA DSP processing. This program is ideal for precisely reproducing the sound design of the movest 70-mm and multi-channel soundrack films. The sound field in made to be similar to that of the newest movie theaters, so the resemberations of the sound field itself are restrained as much as possible.	
	MOVIE THEATER: General	CINEMA DSP processing. This program is for reproducing sounds from 70-mm and multi- channel soundtrack films, and is characterized by soft and extensive sound field.	

### SOUND FIELD PROGRAM DESCRIPTION

Remote control button	Program	Features	Sources	
5	SUR. STANDARD	Standard processing for the selected decoder.	MULTI	
	SUR. ENHANCED	Enhanced processing for the selected decoder.	2-CH	

# For music sources

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

Program selection methods vary depending on sound field program types. For details on how to select sound field programs, see "Selecting sound field programs" on pages 32 to 36.

Remote control button	Program	Features	Sources	
	STEREO: 2ch Stereo	2-channel (left and right) playbock.	2,09	
	STEREO: 7ch Stereo	Use to increase the output stereo sources (in stereo) from all speakers. This provides a larger sound field and is ideal for background music at parties, etc.	24.8	
	MUSIC: Hall in Vienna	Hifr DSP processing. A classic shoe-but type concert half with approximately 1700 seats. Fillurs and omate carvings create extremely complex reflections which produce a very full, rich sound.	MULTI 2-CH	
2	MUSIC: The Bttm Line	Hifri DSP processing. This is the sound field at stage front in "The Bottom Line", a famous New York Jazz club. The floor can seat 300 people to the left and right in a sound field offering a real and vibrant sound.		
	MUSIC: The Roxy Thtr	Hifr DSP processing. The ideal program for lively, dynamic rock music. The data for this program was recorded at LA's "hottest" rock club. The listener's virtual seat is at the center-left of the hall.		
3	ENTERTAL NMENT: Di sco	HiFi DSP processing. This program recreates the acoustic environment of a lively disco in the heart of a big city. The sound is dense and highly concentrated. It is also characterized by high-energy, "interediate" sound.	İ	
- 5	SUR. STANDARD Standard processing for the selected decoder.		MULTI	
,	SUR. ENHANCED	Enhanced processing for the selected decoder.	2-CH	

# ADVANCED OPERATIONS

# Selecting the OSD mode

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

# Turn on the video monitor connected to this unit

Press ON SCREEN repeatedly to change the OSD mode. The OSD mode changes in the following order: full display, short display, and display off,

# Full display

Always 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

Only operations performed using ON SCREEN are displayed. The OSD is displayed when using SET MENU, even if the OSD mode is set to "Display off".



Notes The OSD signal is not output to the REC OUT jack, and will

Short display

- · You can set the OSD to turn on (gray background) or off when a video source is not being reproduced (or the source component is turned off) by using "DISPLAY SET" (see page 64).
- · When using component video signals, the "Short display" is not output to the COMPONENT VIDEO MONITOR OUT jacks. To display the OSD with component video signal input, set the OSD mode to "Full display" while GRAY BACK in DISPLAY SET (see page 64) is set to AUTO.

# Using the sleep timer

Use this feature to automatically set this unit in 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).

# Setting the sleep timer



### Select a source and start playback on the source component.

# 2 Press SLEEP 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 switching the amount of time



The SLEEP indicator lights up in the front panel display, and the display returns to the selected sound field program.

# SLEEP indicator



# Canceling the sleep timer

Press SLEEP repeatedly until "SLEEP OFF" appears in the front panel display. After a few seconds, "SLEEP OFF" disappears, and the SLEEP indicator soes off.



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

# Manually adjusting speaker levels

You can adjust the output level of each speaker while listening to a music source. This is also possible when playing sources through the MULTI CH INPUT jacks. Please note that this operation will override the level adjustments made in "AUTO SETUP" (page 24), "SPEAKER LEVEL" (page 59).



# 1 Press AMP.

# 2 Press LEVEL repeatedly to select the

speaker you want to adjust.

FRONT L Front left speaker level CENTER Center speaker level FRONT R Front right speaker level

SUR. R Surround right speaker level
SUR. L Surround left speaker level
SUR. B. R Surround back right speaker level
SUR. B. L Surround back left speaker level
SWFR Subwoofer level

PRES. L. Presence left speaker level PRES. R. Presence right speaker level

Once you press LEVEL, you can also select the speaker by pressing U / Cl.

 Press i / i to adjust the speaker output level

# The control range is from +10 dB to -10 dB. 4 Press ENTER when you have completed you adjustment.

y
This operation can also be performed using the controls on the
front panel. Press NEXT repeatedly to select the speaker you
want to adjust, then press LEVEL—+ to adjust the output level.

# 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

Use to specify which speaker parameters auto setup will adjust, and to activate the auto setup procedure (see page 24).

### ■ MANUAL SETUP

Use to manually adjust speaker and system parameters.

# 1 SOUND MENU Use to manually adjust any speaker setting, after the quality and tone of the sound output by the system or compensate for

video signal processing delays when using LCD monitors or projectors.

Y

Most of the parameters described in SOUND MENU are set automatically when you run auto setup (see page 24). You can use SOUND

MENUL media ferbor algoriments, but we recommend remining and to very first.

The Technical Section of the August Section of the Aug

Customizes the matine level, audio delay and tone byeass settings.

# G) AUDI O SET

Use to reassign digital input/outputs, select the input mode or rename your inputs.

Item	Features	Page	
A) I /O ASSI GNMENT	Assigns jacks according to the component to be used.	62	
B) I NPUT MODE	Selects the initial input mode of the source.	63	
C) I NPUT RENAME	Changes the name of the inputs.	63	
D) VOLUME TRI M	Adjusts the output volume of each jack.	63	

# 3 OPTION MENU

Use to adjust the optional system parameters.

Item	Features	Page
A) DI SPLAY SET	Adjusts the brightness of the display and converts video signals.	64
B)MEMORY GUARD	Locks sound field program parameters and other SET MENU settings.	64
C)PARAM. INI	Initializes the parameters of a group of sound field programs.	65
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.*	65

\* The Zone 2 amplifier feature is only available for RX-V757. ■ SIGNAL INFO

Use to check audio signal information (see page 37).

# Using SET MENU

Use the remote control to access and adjust each



- You can change SET MENU parameters while the unit is reproducing sound.
- · If you press a sound field program button during SET MENU operation, the SET MENU is canceled.

# Note

You cannot change some SET MENU parameters while the unit is in either cinema or music night listening mode.

# Press AMP.





2 Press SET MENU.



# 4 Press ENTER to enter MANUAL SETUP. I SOUND MENU appears on the front panel display.



# Press u / d to select the desired menu.

# Press ENTER to enter the selected menu.



## 7 Press u / d and ENTER to select the submenu, then press u / d to select the item and j / i to change the parameter.



- · Repeat this operation to select and adjust each setting. · To return to the previous menu level, press
- RETURN.



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, if the power cord is disconnected from the AC outlet, or the power supply is cut for more than one week, the stored data will be lost. If so, adjust the items again.

# 1 SOUND MENU

Use to manually adjust any speaker setting or compensate for video signal processing delays when using LCD monitors or projectors. Most of the SOUND MENU parameters are set automatically when you run auto setup (see page 24).



■ Speaker settings A) SPEAKER SET Use to manually adjust any speaker setting.

y 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: LARGE, SMALL



- Select SMALL if you have small front speakers. The unit directs the low-frequency signals of the front channel to the speakers selected with "LFE/BASS OUT".
- Select LARGE if you have large front speakers. The unit directs the entire range of the front left and right channel signals to the front left and right speakers.

Center speaker CENTER SP Choices: LRG. SML NONE



- Select LRG if you have a large center speaker. The unit directs the entire range of the center channel signal to
- the center speaker.

  Select SML if you have a small center speaker. The unit directs the low-frequency signals of the center channel to the speakers selected with "LFEBASS OUT".
- Select NONE if you do not have a center speaker. The unit directs all of the center channel signal to the front left and right speakers.

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



- Select LRG if you have large surround left and right speakers. The entire range of the surround channel signal is directed to the surround left and right speakers.
- Select SML if you have small surround left and right speakers. The low-frequency signals of the surround channel are directed to the speakers selected with "LFE/BASS OUT".
- "LFE/BASS OUT".

  Select NONE if you do not have surround speakers.
  This will set the unit to the Virtual CINEMA DSP
  mode (see page 36) and automatically set the surround
  back steaker setting (SUR. B L/R SP) to NONE.

# Surround back speakers SUR. B L/R SP

Choices: LRGx1, LRGx2, SMLx2, SMLx1, NONE



- · Select LRGx1 if you have a large surround back speaker. The unit directs the entire range of the surround back channel signal to the left surround back sneoker
- Select LRGx2 if you have 2 large surround back speakers. The unit directs the entire range of the surround back channel signal to the surround back speakers
- Select SMLx2 if you have 2 small surround back speakers. The low-frequency signals of the surround back channels are directed to the speakers selected with "LFE/BASS OUT". · Select SMLx1 if you have a small surround back
- speaker. The low-frequency signals of the surround back channel are directed to the speakers selected with
- "LFE BASS OUT", and the rest of the frequency signals are directed to the left surround back speaker. · Select NONE if you do not have a surround back speaker. The unit directs all of the surround back channel signal to the surround left and right speakers.

If you select SMLx1 or LRGx1, connect the speaker to the left SURROUND BACK speaker terminals

Presence speakers PRESENCE SP Choices: YES. NONE



- · Select YES if you have presence speakers. · Select NONE if you do not have presence speakers.
- When YES is selected, the unit automatically adjusts the dialog lift parameter. To adjust it manually, see page 92.

Bass out LFE/BASS OUT

Low-frequency (bass) signals can be directed to the subwoofer and/or the front left and right speakers according to the characteristics of your system. This setting also determines the routing of the LFE (lowfrequency effect) signals found in Dolby Digital or DTS sources.

Choices: SWFR, FRNT, BOTH



- · Select SWFR if you connect a subwoofer. LFE and low-frequency signals from other channels are directed to the subwoofer according to the speaker settings. Select FRNT if you do not use a subwoofer. LFE and low frequency signals from other channels are directed to the front speakers according to the speaker settings (even if you have previously set front speakers to
- SML). · Select BOTH if you connect a subwoofer and you want to output low-frequency signals from front channels to both the front speakers and subwoofer. LFE and lowfrequency signals from other channels are also directed to the subwoofer according to the speaker settings. Use this function to reinforce low-frequency signals using the subwoofer when playing back sources such as CDs.

Cross over CROSS OVER

Use this feature to select a cross-over (cut-off) frequency for all low-frequency signals. All frequencies below the selected frequency will be sent to the subwoofer. Choices: 40Hz, 60Hz, 80Hz, 90Hz, 100Hz, 110Hz, 120Hz, 160Hz, 200Hz



Subwoofer phase SUBMOOFER PHASE

If bass sounds are lacking or unclear, use this feature to switch the phase of your subwoofer. 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 PRI ORI TY

You can select to prioritize either the surround back or presence speakers when playing sources that contain

surround back channel signals using CINEMA DSP sound field programs. Choices: PRch. SBch



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

## ■ Speaker level B) SPEAKER LEVEL Use these settings to manually balance the speaker level of

each speaker selected in SPEAKER SET (page 57). Choices: -10.0 dB to +10.0 dB Initial setting: 0 dB



- FL adjusts the balance of the front left speaker.
- FR adjusts the balance of the front right speaker. C adjusts the balance of the center speaker.
- · SL adjusts the balance of the surround left speaker.
- SR adjusts the balance of the surround right speaker. SBL" adjusts the balance of the surround back left speaker
- SBR\* adjusts the balance of the surround back right speaker.
  - SWFR adjusts the balance of the subwoofer.
- PL adjusts the balance of the presence left speaker. · PR adjusts the balance of the presence right speaker. \* Instead of SBL and SBR. SB will be displayed if you selected only one surround back speaker in SUR. B L/R SP (page 58).

■ Speaker distance C) SP DI STANCE

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



#### Unit UNIT

- Choices: meters (m), feet (ft)
- Select meters to input speaker distances in meters
   Select feet to input speaker distances in feet.

# Speaker distances

- Choices: 0.3 to 24.0 m

   FRONT L adjusts the distance of the front left speaker.
  Initial setting: 3.0 m
- FRONT R adjusts the distance of the front right speaker. Initial setting: 3.0 m
- CENTER adjusts the distance of the center speaker.
   Initial setting: 3.0 m
- SUR. L adjusts the distance of the surround left speaker. Initial setting: 3.0 m
   SUR. R adjusts the distance of the surround right
- speaker. Initial setting: 3.0 m

  SB L\* adjusts the distance of the surround back left
- SB L\* adjusts the distance of the surround back left speaker. Initial setting: 2.10 m
   SB R\* adjusts the distance of the surround back right
- speaker. Initial setting: 2.10 m

   SWFR adjusts the distance of the subwoofer. Initial setting: 3.0 m
- PRES L adjusts the distance of the presence left speaker. Initial setting: 3.0 m
- PRES R adjusts the distance of the presence right speaker. Initial setting: 3.0 m
- Instead of SB L and SB R, SUR. B will be displayed if you selected only one surround back speaker in SUR. B L/R SP (page 58).

■ Center graphic equalizer D) EQUALIZER Use this feature to select the parametric (AUTO PEQ) or graphic equalizer (CNTR GEQ).

# Equalizer EQ TYPE SELECT

- Select to change the type of equalizer used by this unit.
- Choices: AUTO PEQ, CNTR GEQ, EQ OFF

  Select AUTO PEQ to use the equalizer adjusted in auto
- Select CNTR GEQ to adjust the built-in 5-band graphic equalizer so that the tonal quality of the center speaker matches that of the front left and right speakers.

# Select EQ OFF to cancel equalizing. Center graphic equalizer CENTER GEO

When CNTR GEQ is selected, use this feature to output a test tone and adjust the tonal quality so that it matches that of the front left speaker.

You can adjust 5 frequency bunds: 100Hz, 300Hz, 1kHz, 3kHz, 10kHz Choices: -6 to +6 dB Initial setting: 0 dB



- Select ON to output test tones from the front left and center speakers, and adjust the tonal quality of the
  - center speaker.

    Select OFF to stop the test tone and output the currently selected source component.
- Press u / d to select a frequency band.
   Press j / i to adjust the selected frequency band.

■ Low-frequency effect level E) LFE LEVEL Use 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 lowfrequency special effects which are only added to certain scenes. This setting is effective only when this unit decodes Dolby Digital or DTS signals.

\* 25885----19

# aker SPEAKER

Select to adjust the speaker LFE level.

Headphone HEADPHONE Select to adjust the headphone LFE level.

### Note

Depending on the settings of "LFE LEVEL", some signals may not be output from the SUBWOOFER OUTPUT jack.

■ Dynamic range F)DYNAMI C RANGE Use to select the amount of dynamic range compression to be applied to your speakers or headphones. This setting is effective only when the unit is decoding Dolby Digital and

DTS signals Choices: MIN (minimum), STD (standard), MAX



# Select to adjust the speaker compression. Headphone HP

dynamic range.

- Select to adjust the headphone compression.
- · Select MIN if you regularly listen at low volume levels.
- · Select STD for general use. · Select MAX to preserve the greatest amount of

 Audio settings G) AUDI 0 SET Use to customize this units overall audio settings.



# Muting type MUTING TYPE

Use to adjust how much the mute function reduces the output volume.

- Choices: FULL -20dB · Select FULL to completely halt all output of sound.
- Select –20dB to reduce the current volume by 20 dB. Audio delay AUDI 0 DELAY

Use to delay the sound output and synchronize it with the video image. This may be necessary when using certain

LCD monitors or projectors. Choices: 0 to 160 ms Tone bypass TONE BYPASS Use to select whether audio output bypasses tone control

- circuitry when TREBLE and BASS are set to 0 dB (see page 31).
- Choices: AUTO OFF · Select AUTO if you want signals to bypass tone control
  - circuitry to provide the purest signal possible. Select OFF if you do not want signals to bypass tone control circuitry.

#### TMEN

# 2 INPUT MENU

Use to reassign digital input/outputs, select the input mode or rename your inputs.



#### ■ Input/output assignment A)1/0 ASSIGNMENT

You can assign jacks according to the component to be used if this unit's initial settings do not correspond to your

needs. Change the following parameters to reassign the respective jacks and effectively connect more components. Once the inputs have been reassigned, you can select the corresponding component by using INPUT on the front puncl or the input selector buttons on the remote control. For COMPONENT VIDEO jacks A (CMPNT-V

INPUT [A]) and B (CMPNT-V INPUT [B])
Choices: [A] DVD, DTV/CBL, V-AUX, VCR1,
DVR/VCR2
[B] DVD, DTV/CBL, V-AUX, VCR1.



For OPTICAL OUTPUT jack 1 (OPTI CAL OUT (1))
Choices: PHONO, CD, MD/CD-R, DVD, DTV/CBL,
V.AUX, VCR1, DVR/VCR2



For OPTICAL INPUT jack 2 (OPTI CAL IN (2)), 3 (OPTI CAL IN (3)) and 4 (OPTI CAL IN (4)) Choices: (2) PHONO. CD. (TUNER\*). MD/CD-R. DVD.

DTV/CBL, VCR1, DVR/VCR2

(3) PHONO, CD, (TUNER\*), MD/CD-R, DVD, DTV/CBL, VCR1, DVR/VCR2

(4) PHONO, CD, (TUNER\*), MD/CD-R, DVD, DTV/CBL, VCR1, DVR/VCR2

DTV/CBL, VCR1, DVR/VCR2
\* DSP-AX757SE only

OFTIOL IN
\* C2 ·····; RCRCS ,



For COAXIAL INPUT jacks 5 (CDAXIAL IN (5)) and 6 (CDAXIAL IN (6))

Choices: (5) PHONO, CD, (TUNER\*), MD/CD-R, DVD, DTV/CBL, V-AUX, VCRI, DVR/VCR2 (6) PHONO, CD, (TUNER\*), MD/CD-R, DVD, DTV/CBL, V-AUX, VCRI, DVR/VCR2



\* DSP-AX757SE only

### .....

 You cannot select a specific item more than once for the same type of jack.

When you connect a component to both the COAXIAL and OPTICAL jacks, priority is given to the input signals from the COAXIAL jack.

# ■ Input mode B) I NPUT MODE

Use this feature to designate the input mode for sources connected to the DNGTTAL INPUT jacks when you turn on this unit (see page 37 for details about the input mode). Choices: AUTO, LAST



- Select AUTO to allow this unit to automatically detect the type of input signal and select the appropriate input
- mode.

  Select LAST to set this unit to automatically select the last input mode used for that source.

#### \_

Even if LAST is selected, the last setting for the EX/ES button will not be recalled.

■ Input rename C) I NPUT RENAME
Use this feature to change the name of the inputs on the OSD and front panel display.



Press an input selector button to select the input you want to change the name of.

# 2 Press AMP.

- Press j / i to place the \_ (under-bar) under the space or the character you want to edit.
- 4 Press u / d to select the character you want, then use j / i to move to the next space.
  - You can use up to 8 characters for each input.

    Press cl to change the character in the following order, or press U to go in the reverse order:
    A to Z, a space, 0 to 9, a space, a to z, a space, symbols (d, \*, -, +, etc.)
- 5 Repeat steps 1 through 4 to rename each input.
- 6 To exit, press SET MENU when finished.

■ Volume Trim D) VOLUME TRIM
Use this feature to adjust the level of the signal input to
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: PHONQ, CD, MD-CD-B, TUNER, DVD,

es: PHONO, CD, MD/CD-R, TUNER, DVD, DTV/CBL, V-AUX, VCR1, DVR/VCR2

63

# 3 OPTION MENU

Use to adjust the optional system parameters.



■ Display settings A)DI SPLAY SET



Dimmer DI MVER Use to adjust the brightness of the front panel display.

Choices: -4 to 0

Video conversion VI DEO CONV Use this feature to turn on/off conversion of composite (VIDEO) signals to both S-video and component signals This allows you to output converted video signals from the

S VIDEO or COMPONENT VIDEO jacks when no S-video or component signals are input. This feature also converts S-video signals to component signals when no component signals are input.

- Choices: ON OFF · Select OFF not to convert any signals (except S-video signals to composite signals).
- · Select ON to convert composite signals to S-video and component signals, and to convert S-video signals to
- component signals Regardless of the setting, S-video signals are always converted to composite signals.

- Converted video signals are only output to the MONITOR OUT jacks. When recording you must make the same type of video
- connections (i.e., S-video) between each component. · When converting composite video or S-video signals from a VCR to component video signals, the picture quality may suffer

### depending on your VCR. OSD shift OSD SHIFT

- Use to adjust the vertical position of the OSD. Choices: +5 (downward) to -5 (upward)
- Press + to lower the position of the OSD. · Press - to raise the position of the OSD.

# Gray back GRAY BACK

Selecting AUTO for the on-screen display setting displays a gray background when there's no video signal input. Nothing is displayed if OFF is selected. Choices: AUTO, OFF

· When only the com ponent video signals are input, the OSD is not displayed if GRAY BACK is set to OFF. To display the OSD with component video simul input, set GRAY BACK to

AUTO while the OSD mode (see page 52) is set to "Full display" · When video signals are not being input, set GRAY BACK to AUTO to display the OSD.

Component OSD CMPNT OSD

Use this feature to turn on/off OSD output to the COMPONENT VIDEO MONITOR OUT tacks when using the SET MENU.

- Choices: ON, OFF Select ON to output the OSD signals from
  - COMPONENT VIDEO MONITOR OUT tacks. Select OFF if you do not want to output the OSD signals from COMPONENT VIDEO MONITOR OUT iacks.

# Note

SET MENU functions even when OFF is selected.

■ 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 ON to protect: DSP program parameters
- All SET MENU items · All speaker levels
- · The on-screen display (OSD) mode

When MEMORY GUARD is set to ON, you cannot select any

nert program winim a sount nest program group, was you initialize a sound field program group, all of the parameter values within that group revert to their initial settings.

Press the corresponding numeric button for the sound field program that you want to initialize.

An asterisk (\*) appears next to program numbers that have been changed from their initial settings. Choices: STEREO, MUSIC, ENTERTAINMENT.



### Notes

- You cannot automatically revert to the previous parameter settings once you initialize a sound field program group.
   You cannot separately initialize individual sound field
  - programs.

    You cannot initialize any program groups when "MEMORY GUARD" is set to ON.
  - Zone set D) MULTI ZONE SET
  - Use to specify the location of speakers connected to the SPEAKERS B terminals.



#### 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/off SPEAKERS A and B
  when the steakers connected to the SPEAKERS B
  - when the speakers connected to the SPEAKERS B terminals are set in the main room. Select ZONE B if the speakers connected to the SPEAKERS B terminals are set in another room. If SPEAKERS A is tunned OFF and SPEAKERS B is tunned ON, all the speakers including the subwoofer in the main room are muted and the unit outnots sound

from SPEAKERS B only.

### Notes

- If you connect headphones to the PHONES jack on the unit when "SP B" is set to ZONE B, the sound is output from both headphones and SPEAKERS B.
- If a DSP program is selected when "SP B" is set to ZONE B, the unit automatically enters the Virtual CINEMA DSP mode.

#### Zone 2 amplifier ZONE2 AMP (RX-V757 only)

Use to select how the ZONE 2 speakers will be amplified. Choices: INT. EXT



- Select EXT if you do not use Zone 2 speakers or if you connect your Zone 2 speakers through an external amplifiers
  - connected to this unit's ZONE 2 OUTPUT jacks.

    Select INT to use this unit's internal amplifier if you connect your Zone 2 speakers directly to this unit's PRESENCE/ZONE 2 speaker terminals.

# ADVANCED SETUP MENU

The ADVANCED SETUP menu is displayed in the front punel display.

During the advanced setup procedure, audio output is muted.
 During the advanced setup procedure, only the STANDBY/ON, STRAGHT (EFFECT) buttons, and PROGRAM selector on the front panel are available for operation.

# CAUTION

Be sure to set the speaker impedance before using this unit to play back audio or video signals.



 Turn off the power to this unit, and while holding down STRAIGHT (EFFECT), press STANDBY/ON.

This unit turns on, and the ADVANCED SETUP menu appears in the front panel display.





2 Rotate PROGRAM to move through the menu and select the item you want to set up. See the end of this section for a complete list of available parameters.



3 Press STRAIGHT (EFFECT) repeatedly to toggle between the available parameters.



4 Press STANDBY/ON to confirm your selection.



This completes the advanced setup procedure.

The settings you made are reflected the next time this unit's power is turned on.

# ADVANCED SETUP menu items

Change the initial settings (indicated in bold under each parameter) to reflect the needs of your listening environment.

#### Speaker impedance SP I MP. Use to switch the sneaker immedance for this unit

hoices: 8 $\Omega$ MIN, 4 $\Omega$ MIN Select 8 $\Omega$ MIN to set the speaker impedance to 8 $\Omega$ Select 4 $\Omega$ MIN to set the speaker impedance to 4 $\Omega$			
SP IMP.	Speaker	Impedance level	
4ΩMIN	Front	If you use one set (A or B), the impedance of each speaker must be $4\Omega$ or higher. If you use two sets (A and B), the impedance of each speaker must be $8\Omega$ or higher.	
	Center	The impedance of each	
	Surround	speaker must be 6 Ω or histor.	
	Surround back	If you use one set (A or B).	

speaker must be 8  $\Omega$  or If you use two sets (A and B), the impedance of each

speaker must be 16  $\Omega$  or hirber. The impedance of each higher

Factory presets PRESET

parameters.

8 Q MIN

Use to reset all parameters to the factory presets (see

page 91). Choices: CANCEL, RESET · Select CANCEL if you do not want this unit's

parameters to be initialized when you reset the factory presets. Select RESET if you want all of this unit's parameters

to be initialized when you reset the factory presets. This setting does not affect ADVANCED SETUP menu item Remote REMOTE Use to switch the ID for the remote control of this unit.

Choices: ID1, ID2 · Select ID1 to operate this unit using the default code.

· Select ID2 to operate this unit using an alternative code.



You must also make settings for the remote control (see page 69).

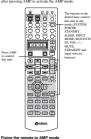
# REMOTE CONTROL FEATURES

In addition to controlling this unit, the remote control can also operate other A/V components made by YAMAHA and other manufacturers. To control other components, you must set up remote control with the appropriate remote control codes. This remote control also has a learn feature which allows the remote to acquire functions from other remote controls equipped with an infrared remote control transmitter.

# Control area

# Controlling this unit

The shaded areas below can be used to control this unit after pressing AMP to activate the AMP mode.



You can fix the remote permanently to AMP mode (fixed AMP mode) so that the shaded areas above always control this unit. This is useful, if you primarily want to use the remote control in AMP mode. To fix AMP mode, hold down AMP for at least 3 seconds so that "A:\_\_\_" appears in the display window.

To temporarily switch to component control mode, press AMP. To cancel fixed AMP mode, hold down AMP for at least 3

# Controlling other components

The shaded areas below can be used to control other components. Each button has a different function depending on the selected component. Select the component you want to control by pressing an input selector button or SELECT k.in. The name of the selected component appears in the display window.



# Setting remote control codes

You can control other components by setting the appropriate manufacturer codes. Codes can be set up for each input area.

The following table shows the factory preset component (Library: component category) and the remote control code for each area.

# Remote Control Code Default Settings

Input area	Component category (Library)	Manufacturer
A	LD ,	Yamba
B	CD-R	Yamaha
PRIONO	TV	-
VAUX	VCR	-
TUNER	TUNER	Yamaha-7
MD/CD-R	MD	Yambel
CD	CD CD	Yamba I
DTV:CRL	TV	-
VCR I	VCR	-
DVR/VCR2	DVR	Yamaha
DVD	DVD	Yamaha-1

### 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 to set other YAMAHA remote control code(s).

### Press an input selector button to select the source component you want to set up.



2 Press and hold LEARN for about 3 seconds using a ballpoint pen or similar object. "SETUP" and the selected component name appear alternately in the display window.



Be sure to press and hold LEARN for at least 3 seconds, otherwise the learning process will start.

- Complete each of the following steps in 30 seconds. Otherwise, the learning mode will be automatically
  - canceled. In this case, press LEARN again.

    If you want to change a library (component
  - category), press j / i. You can set a different type of component. Library choices: L:DVD, L:DVR, L:LD, L:CD,
  - L:CDR, L:MD, L:TAP (tape), L:TUN, L:AMP\*, L:TV, L:CAB (cable), L:DBS, L:SAT, L:VCR The amplifier Library (L:AMP) code is present to "IDI" to occeate this unit. However, vos can switch between the
  - following two codes if necessary.

    The initial setting for "Amplifier library" is "ID1".

AMP library code (remote control setting)	Function	Remote control ID (this unit's setting: see page 67)
ID1 (initial setting)	To operate this unit using the default code.	
ID1Z	To operate this unit using the default code. To operate Zone 2 or Zone 3 features (see page 76). (RX-V757 only)	ID1 (initial setting)
ID2	To operate this unit using an alternative code.	
ID2Z	To operate this unit using an alternative code. To operate Zone 2 or Zone 3 features (see page 76). (RX-V757 only)	IID2

When using multiple YAMAHA receivers/tamplifiers, 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

# REMOTE CONTROL FEATURES

3 Press u / cl to select the name of your component's manufacturer. You will find the names of most worldwide audio-

video manufacturers in alphabetical order in the display window.



4 Press one of the buttons shaded below to see if you can control your component. If you can, the remote control code is correct.



J
 If the manufacturer of your component has more than one codes, by each of them until you find the correct one.
 If you continuously want to set up a code for another component, press TV MUTE/ENTER and repeat steps 1, 3 and 4.

# 5 Press LEARN again to exit from the setup mode.



#### \*\*\*\*\*

- The supplied remote control does not contain all possible manufacturer codes for commercially available AV components (including VAMAHA AV components). If operation is not possible with any of the manufacturer codes, program the new contoc control function with the Jeam feature (see below) or
- remote control function with the Learn feature (see below) or use the remote control supplied with the component.

  If you have already programmed a menter control function for a button, the function by learning programming takes priority
- over the setup remote control code's function.

  \*ERROR" appears in the display window if you press a button not indicated in the respective step, or when you press more than one button at the same time.

Once you set the appropriate remote control codes, you can use this remote to control your other components. Note that some buttons may not correctly operate the selected component. Use the input selector buttons to select the component you want to operate. The remote control automatically switches to the appropriate control mode for that components.



_	_	DVD player/ DVD recorder	VCR	Digital TV/ Cable TV	LD player	CD player	MD/CD recorder	Tuner
1	AV POWER	Power *	Power*1	VCR power *1	Parent *1	Power*i	Power*1	Power*1
2	TV POWER	TV power *2	TV power ≤	TV power	TV power *2	TV power *C	TV power *2	TV power *2
3	REC'DESC SKIP	Disc skip (player) Rec (monder)	Rec	VCR nc *2		Disc skip	Rec (MD)	
	ь	Nay	Play	VCR play *1	Play	Play	Play	
	11	Search backward	South backward	VCR search backward *1	Search backward	Seathbackward	Seathbackward	
	bb	Search Servand	South forward	VCR watch forward *3	Search forward	Search forward	Search forward	
	AUDRO	Audio			Sound			
	0	Passe	Page	VCR page *2	Passa	Passa	Page	
	ь	Stip harkward			Skip backward	Skip backward	Skiphakwad	
	a	Skip forward			Skip forward	Skip forward	Skipformed	
	16	Steep	Stop	VCR stop *1	Stop	Stop	Step	
4	TITLE: TV INPUT	Title	TV input *2	TV input	TV input *2	TV isput *2	TV input <	
5	TV MUTE: ENTER	Select	TV mate *2	TV mate	TV mate *2	TV mate *2	TV man <	
6	TV VOL+	Cp	TV volume + *1	TV volume +	TV volume + *2	TV volume + *2	TV volume + *2	Parent up (1 - 8)
	TV VOL -	Down	TV volume - *2	TV volume -	TV volume - *2	TV volume - *2	TV volume - <2	Parent down (1 - 8)
	CH+	Kelt	VCR classed +	TV channel +	TV channel + *2	TV channel + *2	TV channel + *2	Parent up $(A - \Sigma)$
	CH-	Let	VCR classed -	TV channel -	TV channel - +2	TV channel - *2	TV chemic - *2	
7	RETURN	Rose						
8	1-9, 0, +10	Namesic battons	Numeric battons	Nameric battons	Nameric battons	Namesic battons	Namesic battons	Parent stations (1-8)
9	MENU	Messa						
0	DISPLAY	Display		Display	Display	Display	Display	

A ENT. Eticlairs Enter Enter ChapterTime Index

<sup>\*1</sup> This batton functions only when the original remote control of the component has a POWER batton.
\*2 These battons can operate your TV without swinching the input if the remote control code is set in DTV/CBL or PHONO. When the remote control code for your TV is set up in both the DTV/CBL IDTV/CBL.

area.

These battons can operate your VCR without switching the input to VCR 1 if the remote control code is set in VCR 1.

## Programming codes from other remote controls

If you want to program functions not included in the basic operations covered by the remote control code, or an appropriate remote control code is not available, do the following. You can program any of the buttons available in the component control area (see page 68). The buttons can be programmed independently for each component.

#### Note

This remote control transmits infrared mays. If the other remote control also uses infrared mays, this remote control also uses infrared may, the remote control can learn most of its functions. However, you may not be able to program some special signals or extremely long transmissions. (Refer to the operating instructions for the eneste control of your component.)

Press an input selector button to select a source component.



Place this remote control about 5 to 10 cm apart from the other remote control on a flat surface so that their infrared transmitters are aimed at each other.



## Press LEARN using a ballpoint pen or simila object.

Do not press and hold LEARN. If you hold it down for more than three seconds, the remote enters the remote control code setting mode.



Complete each of the following steps in 30 seconds.

Otherwise, the learning mode will be automatically canceled. In this case, press LEARN again.

Press the button at which you want to program the new function. "LEARN" is displayed.



5 Press and hold the button you want to program on the other remote control until "OK" appears in the display window.



· "NG" appears in the display window if programm unsuccessful. In this case, start over from step 4. This remote control can learn approximately 120 functions. However depending on the signals learned, "FULL" may appear in the display before you program 120 functions. In this case, clear unnecessary programmed functions to make room for further learning.

## Repeat steps 4 and 5 to program additional functions.

7 Press LEARN again to exit from the learning mode.



DUB

## · Learning may not be possible in the following cases:

- When the batteries in the remote control for this unit or other components are week
- When the distance between the two remote controls is too great or too small.
- When the remote control infrared windows are not facing at the appropriate angle. - When the remote control is exposed to direct sunlight.
- When the function to be programmed is continuous or uncommon.
- "ERROR" appears in the display window if you press more than one button at the same time.

## Changing source names in the display window

You can change the name that appears in the display window on the remote control if you want to use a different name to the one that is set as the factory preset. This is useful when you have set the input selector to control a different component.

Press an input selector button to select the source component you want to rename. The selected component name appears in the display



2 Press RE-NAME using a ballpoint pen or similar object.



REMOTE CONTROL FEATURES

Press u / d to select and enter a character. Pressing cl changes the character as follows: A to Z, a to z, 0 to 9, space, -(hyphen), and /(slash). (Pressing U changes the characters in reverse order.)



Press i / i to move the cursor to the next position.



If you want to continue setting up names for other components, press TV MUTE/SELECT and repeat steps 1. 3 and 4.

5 Press RE-NAME again to exit from the



ABCOE

## Clearing function sets

You can clear all changes made in each function set, such as learned functions, renamed source names and setup manufacturer codes.

#### Press CLEAR by using a ballpoint pen or similar object.



y

Complete each of the following steps in 30 seconds. Other
wise, the learning mode will be automatically canceled. In
this case, press CLEAR arain.

## 2 Press u / d to select the clear mode.

- L: DVD (L: name of a component)
- Clears all learned functions in the respective component control area. Press an input selector button to select the component.
- L: AMP Clears all learned functions for this unit's control area.
- L: ALL Clears all learned functions.
- RNAME Clears all renamed source names. FCTRY Clears all remote functions and returns the remote

# to the factory settings. Press and hold CLEAR again for about 3 seconds.

"C.OK" appears in the display window.



#### Note

"C:NG" appears in the display window if the operation is unsuccessful. In this case, start over from step 2.

#### 4 Press CLEAR to exit from the clearing mode. Once you have cleared a learned function for a button, the button reverts to the factory preset setting.



#### Note

- "ERROR" appears in the display window under the following
  - When a button other than the cursor is pressed.
     When more than one button is pressed at the same time.

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## Clearing individual functions

#### ■ Clearing a learned function You can clear the function learned in a certain

- You can clear the function learned in a certain programmed button in each area.
- Press an input selector button to select the source component containing the function you want to clear.
  - The selected component name appears in the display window.
- 2 Press LEARN using a ballpoint pen or similar object. "LEARN" and the selected component name appear
- "LEARN" and the selected component name appear alternately in the display window.



Complete each of the following steps in 30 seconds.
 Otherwise the learning mode will be automatically canceled.
 In this case, press LEARN again.

3 Press and hold CLEAR using a ballpoint pen or similar object, then press the button you want to clear for about 3 seconds. "C:OK" appears in the display window.



When you clear a learned function, the button reverts to the factory preset setting (or manufacturer setting if you have set manufacturer codes).

- Repeat step 3 to clear other learned functions.
- 5 Press LEARN again to exit.

## ZONE 2 (RX-V757 ONLY)

This unit allows you to configure a multi-room audio system. You can control this unit from the second room using the supplied remote control.

Only analog signals are sent to the second room. Any source you want to listen to in the second room must be connected using the analog (AUDIO L/R) input jacks on this unit.

## Zone 2 connections

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

• An infrared signal receiver in the second room.

- An infrared signal receiver in the second room.
   An infrared emitter in the main room. This emitter transmits the infrared signals from the remote control in the second
- room to the main room (to a CD player, for example).

   An amplifier and speakers for the second room.

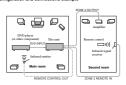
An amplitier and speakers for the second footi.

2 Since there are many possible ways to connect and use this unit in a multi-room installation, we recommend that you consult with your nearest authorized YAMAHA dealer or service center about the Zone 2 connections that best meet your requirements.
5 Some YAMAHA models are able to connect directly to the REMOTE CONTROL OUT gick of this sain. If you own these products,

you may not need to use an infrared emitter. Up to 6 YAMAHA components can be connected as shown.



■ System configuration and connections example



#### Notes

- When not using the main room, turn down the volume of this unit in the main room. Adjust the volume control on the amplifier in the second room.
- To avoid unexpected noise, DO NOT USE the Zone 2 feature with CDs encoded in DTS.

#### Using this unit's internal amplifier

To use this unit's internal amplifier, set "ZONE2 AMP" to "INT" in SET MENU (see page 65).



## Remote controlling Zone 2

The supplied remote control can be used to control Zone 2. You can even select the input source and control components located in the main room directly from the second room regardless of the listening condition in the main room.

You can also turn on/off the MAIN and Zone 2 mode by pressin MAIN or ZONE 2 on the front panel.

■ To enable Zone 2 mode on the remote control

You will be able to switch the remote control mode from one room to mother, and use STANDBY, SYSTEM

POWER, MUTE and VOL -/+ to control the selected room.

1 Repeat steps 1 and 2 of the procedure in "Setting remote control codes" on page 69.

2 Press j / i to select "L:AMP".



3 Press u / d to select "ID1Z".



## Notes

To select the Zone feature with ID2, select "ID2Z".
 Since the Zone 2 code is common to "ID1Z" and "ID2Z", the Zone 2 code does not change even if the AMP library code (remote control setting) is switched.

4 Press LEARN to complete the Zone setup. The remote control will be able to operate this unit and Zone 2.



■ To control Zone 2

Press SELECT k repeatedly to display "ZONE2" in the display window.



Press SYSTEM POWER to turn Zone 2 power

#### ZONE 2 (RX-V757 ONLY)

## 3 Press an input selector button to select the input source you want to listen to in the

second room. The display window shows "2: name of selected input" if the remote control is in the Zone 2 mode.



4 You can control Zone 2 using the input selector, STANDBY, SYSTEM POWER, MUTE and VOL -/+.





\* If "ZONE2 AMP" in OPTION MENU is set to INT, you can use VOL -/+ to adjust sound output from speakers connected to the PRESENCE/ZONE 2 speaker terminals (see page 65). However, VOL -/+ cannot be used to adjust sound output from the ZONE2 OUTPUT tacks.

Press SFI FCT k/o to exit from the Zone 2 mode

- · "ZONE2" will appear in the display window only when K is
- pressed, and SYSTM only when It is pressed
- unit switches to Zone 3 mode. However, this unit does not support Zone 3 mode. To exit Zone 3 mode, press SELECT n. Since the Zone 2 code is common to "ID1Z" and "ID2Z", the Zone 2 code does not change even if the AMP library code

(remote control setting) is switched.

feature with CDs encoded in DTS. · If you press SELECT k when the unit is set to Zone 2 mode, the

### Turning this unit to either on or standby SYSTEM POWER and STANDBY work differently depending on the selected mode that appears on the

- display window. When normal. Zone 2 mode is selected, you can turn
- the main unit, Zone 2 to on/standby individually. · When system mode is selected, or when ID1/ID2 is selected as the amplifier library (L:AMP) code, you can turn the main unit. Zone 2 to on/standby all

together simultaneously.

	LCD display	SYSTEM POWER/ STANDBY
Normal mode"	Name of component	Turns the main unit on/standby
Zone 2 mode	"ZONE2" or "2 name of component"	Turns Zone 2 to on/ standby
System mode	"SYSTM"	Turns everything (the main unit and Zone 2) on/standby

"MAIN" appears for a few seconds when SYSTEM POWER or STANDBY is pressed.

#### Special considerations for DTS software The DTS signal is a digital bitstream. If you attempt to

send the DTS signal to the second room you will only hear digital noise (that may damage your speakers). Thus, the following considerations and adjustments need to be made when playing DTS-encoded discs. For DVDs encoded in DTS

Only 2 channel analog audio signals may be sent to the second mom Use the disc menu to set the DVD player's mixed 2-channel left and right audio outputs to the PCM or

## Dolby Digital soundtrack.

For CDs encoded in DTS To avoid unexpected noise, DO NOT USE the Zone 2

## EDITING SOUND FIELD PARAMETERS

## What is a sound field

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, and the size and shape of the room in which we are sitting.

## Elements of a sound field

In any environment, in addition to the direct sound coming straight to our ears from the player's instrument, there are two distinct types of sound reflections that combine to make up the sound field:

## Early reflections

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

## These are caused by reflections from more than one surface - walls, ceiling, the back of the room - 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 reverberation 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 virtually any size room at all. This ability to create sound fields at will is exactly what YAMAHA has done with the digital sound field processor.

## Changing parameter settings

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



1 Press AMP



Turn on the video monitor and press ON SCREEN repeatedly to select the full display mode

Select the sound field program you want to adjust.





#### EDITING SOUND FIELD PARAMETERS

## Resetting parameters to the factory presets

#### 4 Press u / d to select the parameters.



To reset all parameters Use PARAM. INI (see page 65).

#### 5 Press j / i to change the parameter value.

When you set a parameter to a value other than the factory-set value, an asterisk mark (\*) appears by the parameter name on the on-screen display.



y If you press and hold <> to change the parameter value, the front punel display automatically stops at the factory preset parameter momently.

## 6 Repeat steps 3 through 5 as necessary to change other program parameters.

#### Note

You cannot change parameter values when "MEMORY GUARD" is set to ON. If you want to change the parameter values, set "MEMORY GUARD" to OFF (see page 64).

## Memory back-up The memory back-up circuit prevents the stored data

the inclusion year-open if this unit it is set in the standby mode, the power could is disconnected from the AC outlet, or the power could is disconnected from the AC outlet, or the power supply is temporarily cut due to power failure. However, if the power is cut for more than one week, the parameter values will return to the factory settings. If this happens, edit the parameter value again.

## SOUND FIELD PARAMETER DESCRIPTIONS

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

#### DSP LEVEL (DSP level)

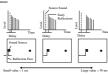
Function: Adjusts the level of all the DSP effect sounds within a narrow range. Description: Depending on the acoustics of your listening room, you may want to increase or decrease the DSP effect level relative to the level of the direct sound.

Control range: -6 dB to +3 dB

## INIT, DLY/P, INIT, DLY (Initial delay)

Function: Changes the apparent distance from the source sound by adjusting the delay between the direct sound and the first reflection heard by the listener. Description: 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 msec

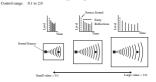


## ROOM SIZE/P. ROOM SIZE (Room size)

Adjusts the apparent size of the surround sound field. The larger the value, the larger the surround sound field becomes.

Description: 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.



## SOUND FIELD PARAMETER DESCRIPTIONS LIVENESS (Liveness)

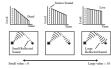
## Function:

Adjusts the reflectivity of the virtual walls in the hall by changing the rate at which the early reflections

decay

Description: 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". The LIVENESS parameter lets you adjust the early reflection decay rate, and thus the "liveness" of the

Control range: 0 to 10



#### S. INIT. DLY (Surround initial delay)

Adjusts the delay between the direct sound and the first reflection on the surround side of the sound field. You can only adjust this parameter when at least two front channels and two surround channels

### Control Range: 1 to 49 msec

 S. ROOM SIZE (Surround room size) Function: Adjusts the annurent size of the surround sound field.

#### Control Range: 0.1 to 2.0

Control Range: 0 to 10

 S. LIVENESS (Surround liveness) Adjusts the apparent reflectivity of the virtual walls in the surround sound field. Function:

## SB INI. DLY (Surround back initial delay)

Function: Adjusts the delay between the direct sound and the first reflection in the surround back sound field. Control Range: 1 to 49 msec

## SB ROOM SIZE (Surround back room size)

Adjusts the apparent size of the surround back sound field. Control Range: 0.1 to 2.0

#### SB LIVENESS (Surround back liveness)

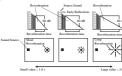
Function: Adjusts the apparent reflectivity of the virtual wall in the surround back sound field. Control Range: 0 to 10

## REV.TIME (Reverberation time)

Function: Adjusts the amount of time it takes 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.

Description: 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 sec



### ■ REV.DELAY (Reverberation delay)

Function: Adjusts the time difference between the beginning of the direct sound and the beginning of the

reverberation sound.

Description: The larger the value, the later the reverberation sound begins. A later reverberation sound makes you

escription: The larger the value, the later the reverberation so feel like you are in a larger acoustic environment.

Control Range: 0 to 250 msec



## ■ REV. LEVEL (Reverberation level)

Function: Adjusts the volume of the reverberation sound.

Description: The larger the value, the stronger the reverberation becomes.

Control Range: 0 to 100%



## SOUND FIELD PARAMETER DESCRIPTIONS

#### ■ DIALG,LIFT (Dialog lift)

Adjusts the height of the front and center channel sounds by assigning some of the front and center Function: channel elements to the presence speakers.

Description: The larger the parameter, the higher the position of the front and center channel sound.

Choices: 0/1/2/3/4/5, initial setting is 0.

#### For 2ch Stereo:

 DIRECT (Direct) Bypasses this unit's decoders and DSP processors for pure high fidelity sound when playing 2-channel Function:

> analog sources AUTO, OFF

## Choices Notes

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 When "BASS OUT" is set to BOTH, or "FRONT SP" set to SMALL and "BASS OUT" set to SWFR, front left and right speaker lowfrequency signals are redirected to the subwoofer.

#### For 7ch Stereo:

Function: These parameters adjust the volume level for each channel in 7-channel stereo mode. Control Range: 0 - 100%

#### CT LEVEL (Center level)

- SL LEVEL (Surround left level)
- SR LEVEL (Surround right level)
- SB LEVEL (Surround back level)
- PL LEVEL (Presence left level)
- PR LEVEL (Presence level)

#### For PRO LOGIC IIx Music and PRO LOGIC II Music:

#### ■ PANORAMA (Panorama) Function:

Sends stereo signals to the surround speakers as well as the front speakers for a wraparound effect. OFF. ON Choices:

#### ■ DIMENSION (Dimension)

Function: Gradually adjusts the sound field either towards the front or towards the rear. Control range: -3 (towards the rear) to +3 (towards the front), initial setting is STD (standard).

## ■ CENTER WIDTH (Center width)

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

Control range: 0 (center channel sound is output only from center speaker) to 7 (center channel sound is output only from front left and right speakers)

## Initial setting: Note

This parameter can be set only when SUR.STANDARD is selected.

## For DTS Neo:6 Music:

### C. IMAGE (Center image)

Function: Adjusts the center image from all three front speakers to varying degrees.

Control range: 0 to 1.0

SOUND FIELD PARAMETER DESCRIPTIONS

Note

Initial setting: 0.3

This parameter can be set only when SUR STANDARD is selected.

## TROUBLESHOOTING

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

#### General

Problem	Cause	Remedy	Refer to page
This unit fails to turn on when STANDBY/ ON for SYSTEM	The power cord is not connected or the plug is not completely inserted.	Connect the power cord firmly.	-
POWER) is pressed,	The impedance setting is incorrect.	Set the impedance to match your speakers.	67
or enters the standby mode soon after the power has been turned on.	The protection circuitry has been activated.	Make sure 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.	11-14
	This unit has been exposed to a strong external electric shock (such as lightning or strong static electricity).	Set this unit in the standby mode, disconnect the power cord, plug it back in after 30 seconds, then use it normally.	-
On-screen display does not appear.	The setting for the on-screen display is set to "DISPLAY OFF".	Select the full display or short display mode.	52
	"GRAY BACK" in SET MENU is set to OFF, and no video signal is currently being received.	Set "GRAY BACK" to AUTO to always show the OSD.	64
No sound	Incorrect input or output cable connections.	Connect the cables properly. If the problem persists, the cables may be defective.	15-20
	The optimizer microphone is connected.	Disconnect the optimizer microphone.	24
	The input mode is set to DTS or ANALOG.	Select AUTO.	37
	No appropriate input source has been selected.	Select an appropriate input source with INPUT, MULTI CH INPUT (or MULTI CH IN on the remote control) or the input selector buttons.	30
	Speaker connections are not secure.	Secure the connections.	12
	The front speakers to be used have not been selected properly.	Select the front speakers with SPEAKERS A and/or B.	30
	The volume is turned down.	Turn up the volume.	-
	The sound is muted.	Press MUTE or any operation button of this unit to revame audio output, then adjust the volume.	31
	The input mode is set to ANALOG while playing a source encoded with a DTS signal.	Set the input mode to AUTO or DTS.	37
	Signals this unit cannot reproduce are being received 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.	Turn on the video conversion function.	64

Problem	Cause	Remedy	Refer to page
The sound suddenly goes off.	The protection circuitry has been activated because of a short circuit, etc.	Check that the impedance selector setting is correct.	67
goes on.	necause or a store curvat, exc.	Check that the speaker wires are not touching each other and then turn this unit back on.	-
	The sleep timer has turned the unit off.	Turn on the power, and play the source again.	-
	The sound is muted.	Press MUTE to cancel a mate.	31
Only the speaker on one side can be heard	Incorrect cable connections.	Connect the cables properly. If the problem pensists, the cables may be defective.	12
neard.	Incorrect balance settings in SET MENU.	Adjust the SPEAKER LEVEL settings.	59
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 finnt and surround speakers output effect sounds.		/
No sound from the effect speakers.	The sound field programs are turned off.	Press STRAIGHT (EFFECT) to turn them on.	36
errect speakers.	You are using a source or program combination that does not output sound from all channels.	Try another sound field program.	49
No sound from the center speaker.	The output level of the center speaker is set to minimum.	Raise the level of the center speaker.	59
	"CENTER SP" in SET MENU is set to NONE.	Select the appropriate setting for the center speaker.	57
	One of the HiFi DSP programs (except for 7ch Stereo) has been selected.	Try another sound field program.	49
No sound from the surround speakers.	The output level of the surround speakers is set to minimum.	Raise the output level of the surround speakers.	59
	"SUR. Lift SP" in SET MENU is set to NONE.	Select the appropriate setting for the surround left and right speakers.	57
	A monaural source is being played with STRAIGHT.	Press STRAIGHT (EFFECT) to turn on the sound fields.	-
No sound from the	Presence speakers are selected.	Select surround back speakers in SUR. B L/R SP.	58
speakers.	"SUR. Lift SP" in SET MENU is set to NONE.	If the surround left and right speakers are set to NONE, the surround back speaker setting is autoenatically set to NONE. Select the appropriate setting for the surround speakers.	57
	"SUR. B L.R. SP" in SET MENU is set to NONE.	Select LRGx1 or SMLx1.	58
No sound from the subwoofer.	"LFE BASS OUT" in SET MENU is set to FRNT when a Dolby Digital or DTS signal is being played.	Select SWFR or BOTH.	58
	"LFE BASS OUT" in SET MENU is set to SWFR or FRNT when a 2-channel source is being played.	Select BOTH.	58
	The source does not contain low bass signals.		

Problem	Cause	Remedy	Refer to page
Dolby Digital or DTS sources cannot be played. (Dolby Digital or DTS indirector on	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 on the front panel display does not light up.)	The input mode is set to ANALOG.	Set the input mode to AUTO or DTS.	37
A "humming" sound can be heard.	Incorrect cable connections.	Firmly connect the audio plags. If the problem persists, the cables may be defective.	-
	No connection from the turntable to the GND terminal.	Connect the grounding cord of your turnable to the GND terminal of this unit.	19
The volume level is low while playing a record.	The record is being played on a tarntable with an MC cartridge.	The turntable should be connected to this unit through an MC-head amplifier.	19
The volume level cannot be increased, or the sound is distorted.	The component connected to the OUT (REC) jacks of this unit is turned off.	Turn on the power to 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 recording component	The source component is not connected to this unit's DIGITAL INPUT jacks.	Connect the source component to the DIGITAL INPUT jacks.	15-19
recording component connected to this 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 jacks.	The source component is not connected to this unit's analog AUDBO IN jacks.	Connect the source component to the analog AUDIO IN jacks.	15-19
The sound field parameters and some other settings on this unit cannot be changed.	"MEMORY GUARD" in SET MENU is set to ON.	Select OFF.	64
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 AC power cord from the outlet and then plug it in again after about 30 seconds.	-
"CHECK SP WIRES" appears in the front panel display.	Speaker cables are short circuited.	Make sure all speaker cables are connected correctly.	12

Problem	Cause	Remedy	Refer to page
There is noise interference from digital or radio frequency equipment, or this unit.	This unit is too close to the digital or high- frequency equipment.	Move this unit further away from such aquipment.	-
The picture is disturbed.	The video source uses scrambled or encoded signals to prevent dubbing.		
There is noise when the OSD is displayed.	The OSD may be disturbed when displaying OSD through component video connections.	Select OFF in CMPNT OSD.	64
This unit suddenly turns into 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 (With the exception of U.K. model)

Problem		Cause	Remedy	Refer to page
	FM stereo reception is noisy.	The characteristics of FM stereo broadcasts may cause this problem when the transmitter is too far away or the antenna input is poor.	Check the antenna connections. Try using a high-quality directional PM antenna.	21
			Use the manual tuning method.	40
FM	There is distortion, and clear reception cannot be obtained even with a good FM antenna.	There is multipath interference.	Adjust the antenna position to eliminate multipath interference.	-
	The desired station cannot be tuned in with	The signal is too weak.	Use a high-quality directional PM antenna.	21
	the automatic tuning method.		Use the manual tuning method.	40
	Previously preset stations can no longer be tuned in.	This unit has been disconnected for a long period.	Preset the stations again.	40
	The desired station cannot be tuned in with the automatic tuning	The signal is weak or the antenna connections are loose.	Tighten the AM loop antenna connections and orient it for the best reception.	-
AM	method.		Use the manual tuning method.	40
	There are continuous crackling and hissing fluorescent lamps, motors, thems 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.	-

### ■ Remote control

Problem	Cause	Remedy	Refer to page
The remote control does not work nor function properly.	Wrong distance or angle.	The remote control will function within a maximum range of 6 m and no more than 30 degrees off-axis from the front panel.	7
	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 was not correctly set.	Set the remote control code cornecily.	69
		Try setting another code for the same manufacturer.	69
	The remote control ID and this unit's ID do not match.	Switch the library code.	67, 69
	Even if the remote control code is correctly set, there are some models that do not respond to the remote control.	Program the necessary functions independently into the programmable buttons using the Learn feature.	72
The remote control does not "learn" new	The batteries of this remote control and/or the other remote control are too weak.	Replace the batteries.	3
functions.	The distance between the two remote controls is too much or too little.	Place the remote controls at the proper distance.	72
	The signal coding or modulation of the other remote control is not computible with this remote control.	Learning is not possible.	-
	Memory capacity is full.	Delete other unnecessary functions to make room for the new functions.	75

#### RESETTING THE FACTORY PRESETS

If you want to reset all of your unit's parameters for any reason, do the following. This procedure completely resets ALL parameters, including the SET MENU, level, assign and tuner presets.

Be sure this unit is in standby mode.



 With the unit in the standby mode, hold down STRAIGHT (EFFECT) on the front panel and press STANDBY/ON.

The ADVANCED SETUP menu appears in the front panel display.



y To cancel the initialization procedure without making as changes, press STANDBY/ON.

 Rotate PROGRAM to move through the me and select "PRESET".



3 Press STRAIGHT (EFFECT) to select the desired setting.



RESET To reset the unit to its factory presets.

CANCEL To cancel without making any changes.

4 Press STANDBY/ON to confirm your selection.



If you selected "RESET", the unit is reset to its factory presets and switches to standby mode. If you selected "CANCEL", the unit switches to standby mode and nothing is reset.

## GLOSSARY

## Audio formats

### Dolby Digital

Dolby Digital is a digital surround sound system that gives you completely independent multi-channel audio. With 3 front channels (left, center, and right), 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 previously unheard of 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 creases 6 fall: bandwidth output channels from 5.1-channel sources. This is done using a marks decoder that derives 3 surround channels from the 21 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 "Hyporer" and "Py around" effects.

#### ■ Dolby Pro Logic II

Dolby Pro Logic II is an improved technique used to decode vast numbers of existing Dolby Sarround software. This new technology enables a discress—5-channel plutyback with 2 front left and right channels, 1 center channel, and 2 surround felt and right channels (nitsend of only 1 surround channel for conventional Pro Logic technology). Music and Game modes are also available for 2-channel sources in addition to the Movie mode.

## ■ 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 is a Music mode for music, a Movie mode for movies and a Game mode for earnes.

## ■ Dolby Surround

Dolby Surround uses a 4 channel analog recording system to reproduce realistic and dynamic sound effects: 2 front left and right channels (steene), a center channel for dulong (monatural), and a surround channel for special sound effects (monatural). The surround channel reproduces sound within a naturon frequency range of the sound within a naturo frequency range of the sound within a naturo frequency range of the sound within a naturo frequency range with the sound within a naturo frequency range within time this unit camploys a digital signal processing system that automatically sublittee set woulton 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 book ward-compatible with all DTS decoders. '96' refers to a 96 kHz sampling rate (compated to the typical 48 kHz sampling rate). '77 effects to 24 he word length, DTS 96' 24 offers so sound quality transparent to the original 96/24 master, and 96/42 1-channels cound with full quality full-motion video for music programs and motion picture soundracks on DVD-Video.

B DTS (Digital Theater Systems) Digital Surround of surspice the analog constructive of the surface of the surf

#### ■ Neo:6

Next6 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. Two modes are available: "Music mode" for playing music sources and "Cinema mode" for movies.

## Sound field programs

## ■ 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 and designed for acoustic effects. Since home conditions, such as room size, wall material, number of speakers, and so on, can differ so widely, it's inevitable that there are differences in the sound heard as well. Based on a wealth of actually YAMAHA original sound field technology to combine

measured data. YAMAHA CINEMA DSP uses Dolby Pro Logic, Dolby Digital and DTS systems to provide the visual and audio 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.

## Audio information

## ■ ITILD purposes.

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

#### ■ LFE 0.1 channel This channel is for the reproduction of low bass signals.

The frequency range for this channel is 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.

### PCM (Linear PCM)

then modulated for recording.

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 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 signal information

## ■ Component video signal

With the component video signal system, the video signal is separated into the Y signal for the huminance and the Ps and Ps 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 "volor difference signal" because the huminance signal is substracted from the color signal. A monitor with component signal for output is not the color signal.

A monitor with component imput jacks is required in order to use the component signal for output.

#### 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.

## SPECIFICATIONS

AUDIO SECTION	VIDEO SECTION
Minimum RMS Output Power for Front, Center, Surround, Surround back	Video Signal Type
Surround back 20 Hz to 20 kHz, 0.06% THD, 8 Ω	Signal to Noise Ratio
Maximum Power (EIAI)	Frequency Response (MONITOR OUT)
Saxtman Fower (ELA)   China, Korea and General models	Composite, S-video
1 kHz, 10% THD, 8 Ω	Component 5 Hz to 60 MHz, -3 dB
Dynamic Power (IHF)     8/6/4/2 Ω	FM SECTION*
	Tuning Range     [U.S.A. and Canada models]
DIN Standard Output Power [U.K. and Europe models]	[U.S.A. and Canada models] 87.5 to 107.9 MHz [General model] 87.5 87.50 to 108.0 108.0 MHz
1 kHz, 0.7% THD, 4 Ω	[Other models]
IEC Output Power [U.K. and Europe models]     1 kHz. 0.00% THD. 8Ω	Usable Sensitivity (BHF)
Dumping Factor (BHF)     Di He to 2014 Hr 8 O     120 or more	Signal to Noise Ratio (IHF)     Mono Sierco
	Harmonic Distortion (1 kHz)
Frequency Response     CD terminal to Front L/R	Mono Sierco 0.2%/0.3%
Total Harmonic Distortion	Stereo Separation (1 kHz)
PHONO to REC OUT (20 Hz to 20 kHz, 1 V) 0.02% or less CD etc. to Frent Life	Frequency Response
(20 Hz to 20 kHz, 50 W, 8 Ω)	AM SECTION*
Signal to Noise Ratio (IHF-A Network)	Tuning Range     [U.S.A. and Canada models]
Phono (5 mV) to REC OUT	[U.S.A. and Canada models] 530 to 1710 kHz [General model] 530 531 to 1710/1611 kHz
[U.K., Europe and Australia models]	[General model]
[Other models] 86 dB or more CD (250 mV) to Front L/R, Effect Off	Usable Sensitivity 300 aV/m
Residual Noise (BHF-A Network)	Usable Sensitivity
Front L/R	GENERAL
Channel Semantion (1 kHz/10 kHz)	Power Surply
PHONO (shorted) to Front L/R	[U.S.A. and Canada models]
CD (5.1 kQ terminated) to Front L/R 60 dB/45 dB or more	[Australia model]
	[China model]
Tone Control (Front L/R)	[Korea model]
BASS Boost Cut == 16 dB:50 Hz BASS Turnover Frequency == 350 Hz	[U.K. and Europe models]
TREBLE Boost Cut	[Gmeral model]
TREBLE Tumover Fraguency 3.5 kHz	Power Consumerion
	[U.S.A. and Carada models] 400 W/500 VA
* Phones Output 150 mV/100 $\Omega$	[Other models]
Input Sensitivity Input Impedance	Standby Power Consumption
PHONO 2.5 mV/47 kΩ CD etc. 200 mV/47 kΩ	AC Outloo
	(U.K. and Australia models)
MULTI CH INPUT 200 mV/47 kΩ	(U.S.A., Carada and China models) 2 (Total 100 W maximum)
Output Level Output Impedance	[Europe and General models]
REC OUT	<ul> <li>Dimensions (W x H x D)</li></ul>
PRE OUT	
SUBWOOFER 4 V/1.7 kΩ ZONE 2 OUTPUT	• Weight
[U.S.A., Canada, Australia and	*Except DSP-AX757SE

\_\_ 200 mV/1.2 kΩ

Europe models]