

# KENWOOD

3.1ch Speaker System

# KSW-700

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## INSTRUCTION MANUAL

Kenwood Corporation

ENGLISH

FRANÇAIS

DEUTSCH

NEDERLANDS

ITALIANO

ESPAÑOL

## Before applying power

 **Caution** : Read this page carefully to ensure safe operation.





Units are designed for operation as follows.

Australia ..... AC 240 V only

Europe ..... AC 230 V only

### Safety precautions

**WARNING : TO PREVENT FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.**

	<b>CAUTION</b> RISK OF ELECTRIC SHOCK DO NOT OPEN	
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.		
	THE LIGHTNING FLASH WITH ARROWHEAD SYMBOL, WITHIN AN EQUILATERAL TRIANGLE, IS INTENDED TO ALERT THE USER TO THE PRESENCE OF UNINSULATED "DANGEROUS VOLTAGE" WITHIN THE PRODUCT'S ENCLOSURE THAT MAY BE OF SUFFICIENT MAGNITUDE TO CONSTITUTE A RISK OF ELECTRIC SHOCK TO PERSONS.	
	THE EXCLAMATION POINT WITHIN AN EQUILATERAL TRIANGLE IS INTENDED TO ALERT THE USER TO THE PRESENCE OF IMPORTANT OPERATING AND MAINTENANCE (SERVICING) INSTRUCTIONS IN THE LITERATURE ACCOMPANYING THE APPLIANCE.	

## IMPORTANT SAFETY INSTRUCTIONS

 **Caution** : Read this page carefully to ensure safe operation.

**Read Instructions** – All the safety and operating instructions should be read before the product is operated.

**Retain Instructions** – The safety and operating instructions should be retained for future reference.

**Heed Warnings** – All warnings on the product and in the operating instructions should be adhered to.

**Follow Instructions** – All operating and use instructions should be followed.

**1. Cleaning** – Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

**2. Attachments** – Do not use attachments not recommended by the product manufacturer as they may cause hazards.

**3. Water and Moisture** – This product shall not be exposed to dripping and splashing – for example, near a bath tub, wash bowl, kitchen sink, or laundry tub; in a wet basement; or near a swimming pool; and the like. Do not place an object containing liquid, such as a flower vase, on the appliance.

**4. Accessories** – Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.

A product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn.



**5. Ventilation** – Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.

**6. Power Sources** – This product should be operated only from the type of power source indicated on the product. If you are not sure of the type of power supply to your home, consult your product dealer or local power company.

**7. CAUTION – Polarization** – This product may be equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.

**8. Power Cord Protection** – Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.

**9. Lightning** – For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges.

**10.Overloading** – Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.

**11.Object and Liquid Entry** – Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.

**12.Servicing** – Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

**13.Damage Requiring Service** – Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:

- a) When the power-supply cord or plug is damaged,
- b) If liquid has been spilled, or objects have fallen into the product,
- c) If the product has been exposed to rain or water,
- d) If the product does not operate normally by following the operating instructions.
- e) If the product has been dropped or damaged in any way, and
- f) When the product exhibits a distinct change in performance – this indicates a need for service.
- g) If an abnormal smell or smoke is detected.

**14.Replacement Parts** – When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.

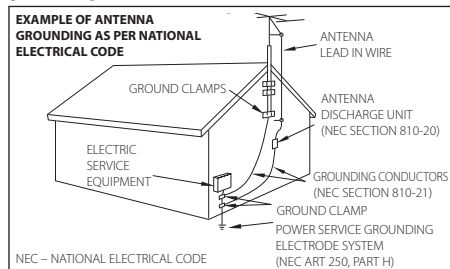
**15.Safety Check** – Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.

**16.Wall or Ceiling Mounting** – This product should be mounted to a wall or ceiling only as recommended by the manufacturer.

**17.Heat** – This product should be situated away from heat sources such as radiators, heat registers, stoves, or other products that produce heat. Do not place a flaming object, such as a candle or lantern, or near the product.

**18.Power Lines** – An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

**19.Outdoor Antenna Grounding** – If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/NFPA 70, provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.



Notes:

1. Item 7 is not required except for grounded or polarized equipment.
2. Item 19 complies with UL in the U.S.A.

## Accessories

Unpack the unit carefully and make sure that all the accessories are present.

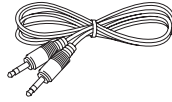
### Audio cord

(White, Red)... 2



### System control cord

(ø 3.5mm – ø 3.5mm)... 1

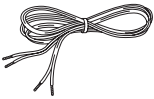


### Speaker cord

For surround (blue line: 10m)... 2

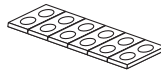
For center (red line: 3m)... 1

For subwoofer (red line: 4.5m)... 1



### Cushions for surround & center speakers

... 12



If any accessories are missing, or if the unit is damaged or fails to operate, notify your dealer immediately. If the unit was shipped to you directly, notify your shipper immediately. Kenwood recommends that you retain the original carton and packing materials in case you need to move or ship the unit in the future.

**Keep this manual handy for future reference.**

ENGLISH

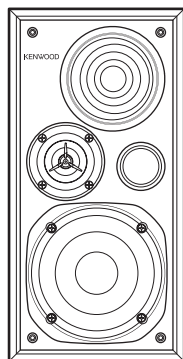
## Contents

To ensure safety, read the items carrying this marking carefully.

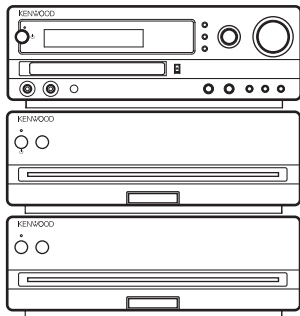
<b>Before applying power</b> .....	2	<b>Connections</b> .....	8
<b>IMPORTANT SAFETY INSTRUCTIONS</b> .....	2	<b>Names and functions of parts</b> .....	10
Accessories.....	4	<b>Speaker setting</b> .....	11
Contents.....	4	System selection .....	11
<b>Installation</b> .....	5	Setting the volume balance .....	12
Installation for main amplifier .....	5	Setting the speaker distance.....	12
Installation for speakers .....	6	<b>Surround play</b> .....	13
About using speakers near a TV .....	6	Surround modes .....	13
Attaching the cushions .....	6	Selecting the listening mode .....	13
Using speakers on the desktop or shelf .....	6	Surround indicator .....	14
Using speakers on the wall .....	7	<b>Troubleshooting</b> .....	15
Mounting methods .....	7	<b>Specifications</b> .....	16

# Installation

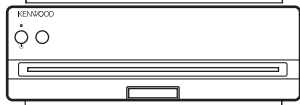
## Installation for main amplifier



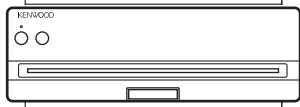
LS-AXD7 (AX-7 system)  
Left speaker



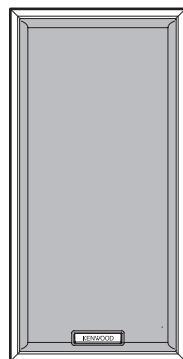
C-AX7  
(AX-7 system)



M-AX7  
(AX-7 system)



M-AX700



LS-AXD7 (AX-7 system)  
Right speaker

### CAUTION

Be sure to adhere to the following, or proper ventilation will be blocked causing damage or fire hazard.

- Place the C-AX7 on top of the system when stacking with C-AX7.
- Do not place any objects impairing heat radiation onto the top of the C-AX7. Leave some space around the C-AX7 (from the largest outside dimension including projection) equal to or greater than, shown below.

Top panel: 50cm    Back panel: 10cm

- Leave some space around the M-AX7/M-AX700 (from the largest outside dimension including projection) equal to or greater than, shown below.

Back panel: 10cm

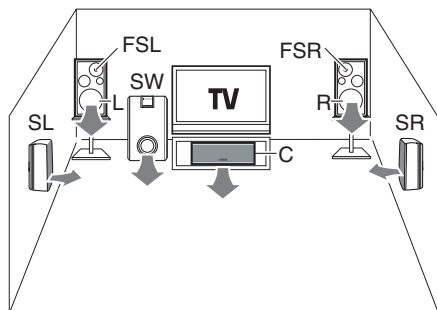
- This unit is using the cooling fan. Do not place the equipment onto a bed, a sofa, a carpet, or similar. Sucked-in dust can cause fire.

The power in this equipment will not be completely cut off from the wall outlet when the power switch is turned off.

Install the equipment so that the wall outlet is easily accessible and, in case of emergency, immediately unplug the power cord from the wall outlet.

## Installation for speakers

You can enjoy 5.1ch surround reproduction by connecting this 3.1ch speaker system with the AX-7 system. Please set it up as follows.



- L : Front left speaker
- FSL : Front left surround speaker
- C : Center speaker
- R : Front right speaker
- FSR : Front right surround speaker
- SR : Right surround speaker
- SL : Left surround speaker
- SW : Subwoofer

- Place the left and right speakers at each side of your TV. Angle the speakers towards the listening area to enhance the stereo effect.
- Place the center speaker on the center between the front left and right speakers. Tilt the speaker upward or downward so that it is directly facing the listening area.
- Place the surround speakers as high as possible, either directly to the sides of the listening area or else slightly behind the listening area. Adjust the angles so that these speakers are facing directly towards the listeners.

## About using speakers near a TV

*(Front speaker, Center speaker)*

This speaker include magnetic shielding and can therefore be installed close to a TV set. Note, however, that placing speakers too close to a TV may in some cases produces distortion in the color reception.

- In such case, turn on the TV and check that color reproduction is normal. If color is distorted, turn the TV off for 15 to 30 minutes, then turn it back on and check again. (This allows the TV's degaussing circuitry to correct for the magnetic field from the speakers.) If distortion is still present, move the speakers further from the TV.

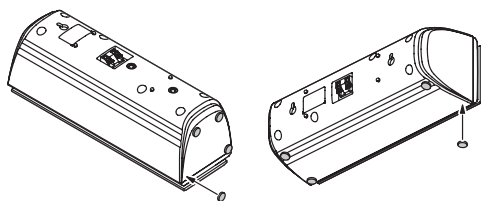
## Attaching the cushions

*(Surround speaker, Center speaker)*

- Attach cushions to the base of the speaker as shown below. The cushions prevent the speaker from sliding, and dampen its vibrations.

Surround speaker

Center speaker



## Using speakers on the desktop or shelf

- Place the speakers on the desktop, shelf or a similar level surface.

## Using speakers on the wall

### (Surround speaker, Center speaker)

The speakers include mount holes for wall mounting. You can hang the surround speakers on the wall vertically, and the center speaker horizontally.

#### Precautions:

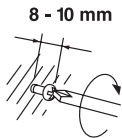
Please observe the following precautions when mounting speakers onto the wall.

- Be sure that the wall you are using is strong enough to support the full weight of the speaker (approx. center speaker : 0.7 kg [1.5 lb], surround speaker : 0.5 kg [1.1 lb]).
- Wall screws must be purchased separately. Be sure to use screws that are appropriate for the wall you are using, and that are long enough to provide sufficient strength.
- If you are uncertain about the wall's support strength, the type of screw to use, or any other points regarding this type of installation, please consult a contractor or other qualified person before proceeding.

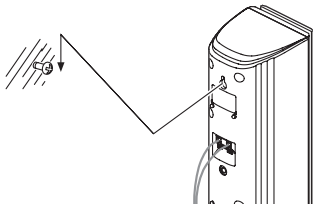
Be sure to follow the procedure given here when carrying out installation. Kenwood can assume no liability for injury or damage that may occur if a speaker setup falls from the wall as a result of incorrect installation or insufficient support strength.

### Vertically

- 1 Screw a single screw into the wall at the desired location. Screw it only part way in, so that the screw projects 8 to 10 mm (5/16 to 3/8 inches) outward from the wall surface.

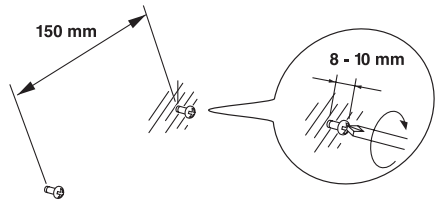


- 2 Hang the speaker by fitting the top mount hole (at the upper rear of the speaker) over the extending part of the screw. Confirm that the speaker is held firmly and securely in place.

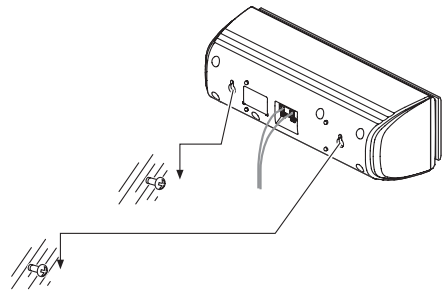


### Horizontally

- 1 Screw two screws into the walls 150 mm (5-7/8 inches) apart, making sure that screws are horizontally level. Screw each screw only part way in, so that the screw projects 8 to 10 mm (5/16 to 3/8 inches) outward from the wall surface.



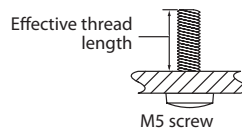
- 2 Hang the speaker by fitting the two mount holes (at the rear of the speaker) over the extending part of the screw. Confirm that the speaker is held firmly and securely in place.



### Mounting methods (Surround speaker)

The speaker can be installed on the SR-8000 stand optionally available from Kenwood.

And any commercially available speaker mount or bracket can also be used (provided that the speaker can be fixed using an M5 screw with a pitch of 60 mm and effective thread length of 10 to 13 mm (3/8 to 1/2 inches)). For details, read the instruction manual for the speaker mount or bracket.



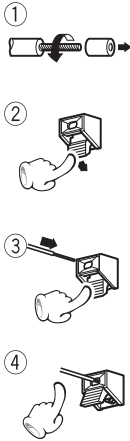
# Connections

Connect every connection cord firmly. Incomplete insertion may cause loss of audio output or generation of noise.

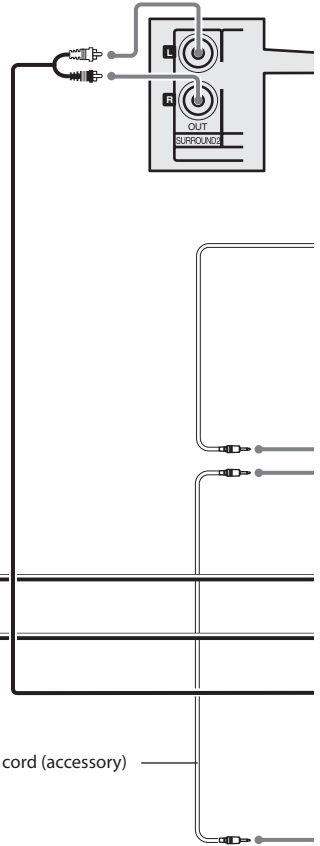
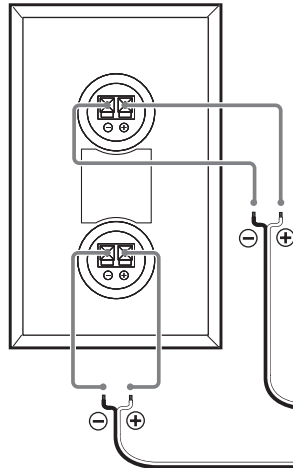
## Caution for connection

Do not plug the power cord into the power outlet until all other connections are completed. Before unplugging a connected cord or cable, be sure to set the power key to OFF and unplug the power cord from the power outlet in advance.

### How to connect the speaker cords (Speaker)



LS-AXD7 (AX-7 system)  
Right speaker



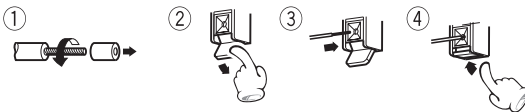
System control cord (accessory)

## Caution for speaker cord connection

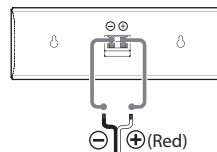
Be careful not to short-circuit the + and - conductors of the speaker cord.

If the speaker cord is connected by inverting the + and - polarity, the reproduced audio will be unnatural with unclear positioning of musical instruments.

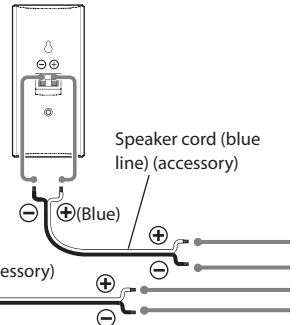
### How to connect the speaker cords (Main unit)



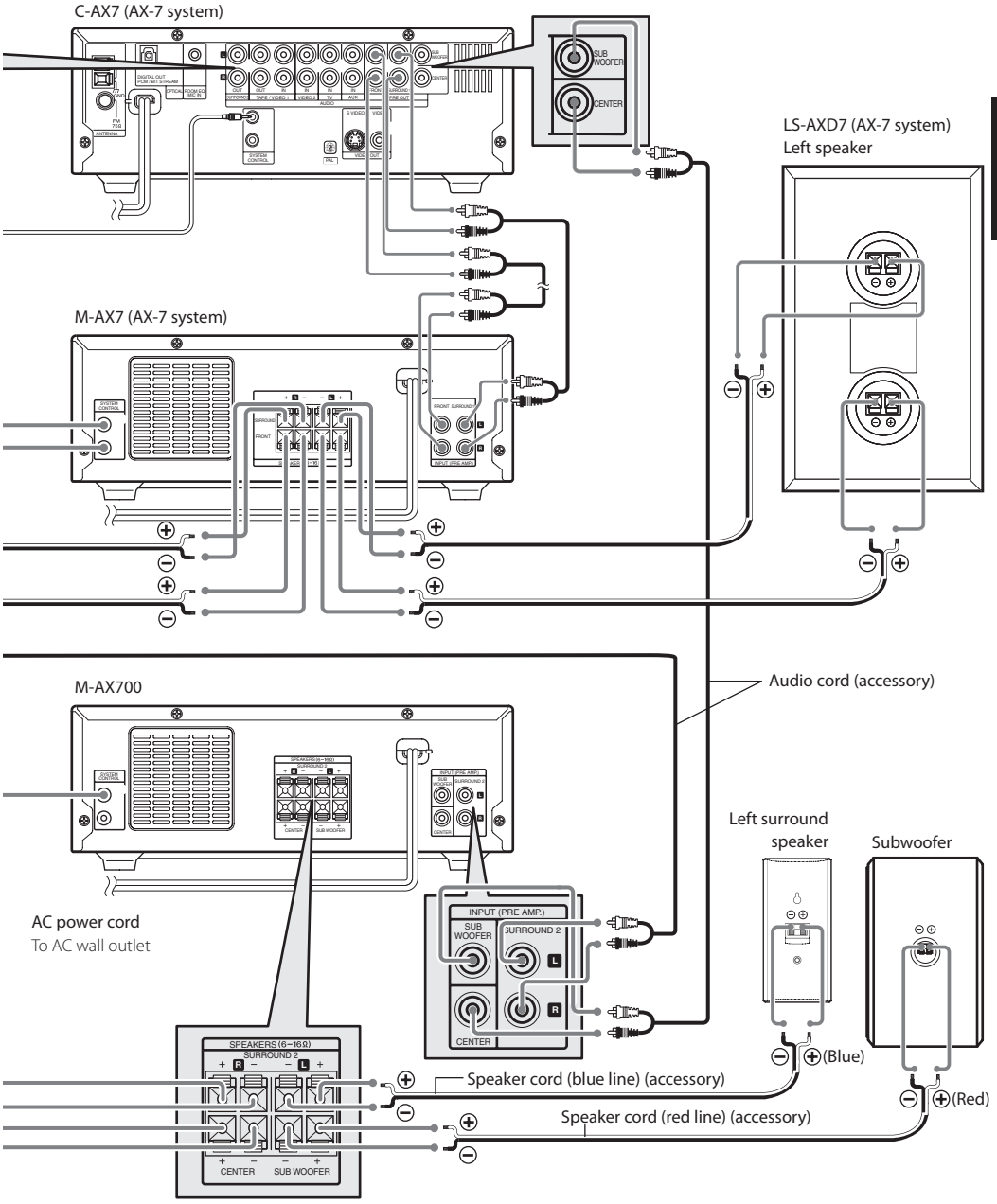
Center speaker



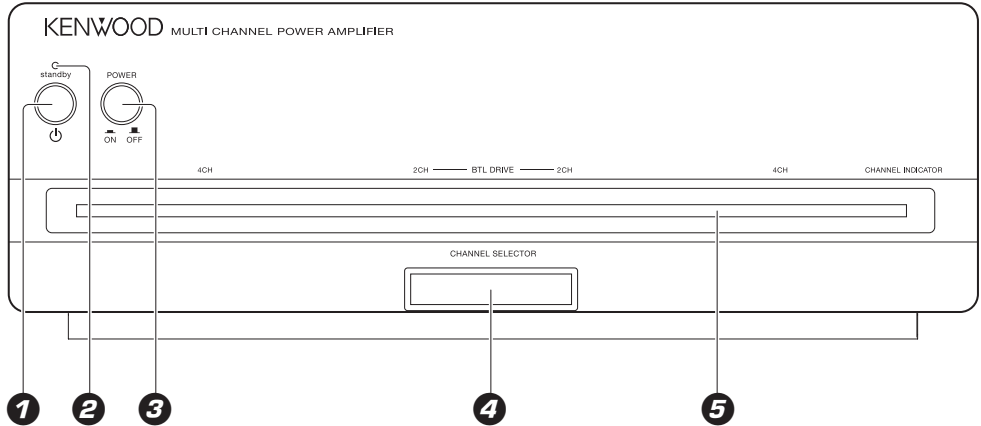
Right surround speaker







# Names and functions of parts



## 1 Power key

Used for setting the unit to On or Standby.

## 2 standby indicator

The indicator lights when the system power is set to the standby mode.

## 3 POWER ON/OFF switch

## 4 CHANNEL SELECTOR key

Used for switching the amplifier between 4 channels (25 W x 4) and 2 channels (50 W x 2).

- The channel automatically switches according to the listening mode when connecting to C-AX7 or M-AX7 with the system control code (accessory).
- This key does not work when Dolby Digital or DTS signal are input when selecting "5.1CH SYSTEM" of the "SPEAKER MODE" setting.

## 5 Displays

The channel under operation is displayed.

### Standby mode

When the standby indicator is lit, a small amount of power is supplied to the system to back up the memory. This status is referred to as the standby mode.

## Speaker setting

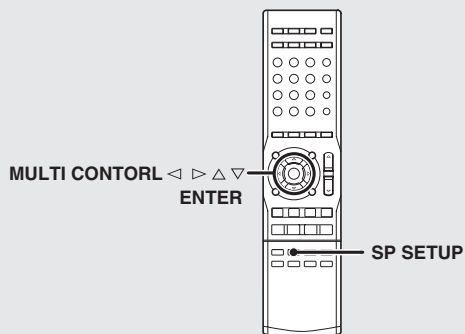
For an even better surround effect it is necessary to match the speaker distances and volumes correctly.

At the time of speaker setting, the difference in the speaker distances can be compensated by adjusting the volume for each speaker and the sound delay time.

Please choose "5.1CH SYSTEM" in the system selection.

When KSW-700 is connected, also the Auto Room Equalizer function can be used. As for the Auto Room Equalize, refer to the Instruction Manual of AX-7 on page 26.

## System selection



- 1 Press the [SP SETUP] key on the remote control of AX-7, press the MULTI CONTROL [◀/▶] keys to select "SPEAKER MODE".

Each time the key is pressed, the mode switches.

SPEAKER MODE  
SP LEVEL  
SP DISTANCE

- 2 Press the [ENTER] key.

- The mode for surround system selection is reached.

- 3 Press the MULTI CONTROL [△/▽] keys to select "FRONT SYSTEM" or "5.1CH SYSTEM".

FRONT SYSTEM:

Select this for listening with a front surround system.  
(Original for AX-7 system)

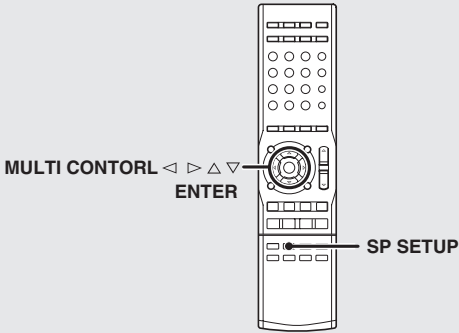
5.1CH SYSTEM:

Select this for expansion to a 5.1 channel system by connection to the KSW-700.

- 4 Press the [ENTER] key.

- The "SPEAKER MODE" indicator blinks.
- Press the [SP SETUP] key to end the operation.

## Setting the volume balance



**1 Press the [SP SETUP] key on the remote control of AX-7, press the MULTI CONTROL [ $\triangleleft/\triangleright$ ] keys to select "SP LEVEL".**

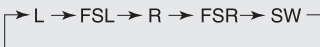
Each time the key is pressed, the mode switches.

- SPEAKER MODE
- SP LEVEL
- SP DISTANCE

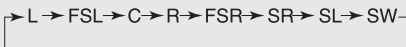
**2 Press the [ENTER] key.**

- A test sound is put out and the speakers are switched automatically.

For a front surround system



For a 5.1 channel system



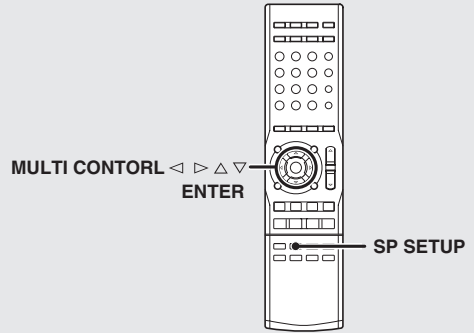
**3 Press the MULTI CONTROL [ $\triangle/\nabla$ ] keys to adjust the volume.**

- Adjustment is possible in the range from +10dB to -10dB.
- Adjust so that all speakers are heard at the same volume. Adjust the subwoofer as desired.

**4 Press the [ENTER] key.**

- The "SPEAKER LEVEL" indication blinks.
- Press the [SP SETUP] key to end the operation.

## Setting the speaker distance



**1 Press the [SP SETUP] key on the remote control of AX-7, press the MULTI CONTROL [ $\triangleleft/\triangleright$ ] keys to select "SP DISTANCE".**

Each time the key is pressed, the mode switches.

- SPEAKER MODE
- SP LEVEL
- SP DISTANCE

**2 Press the [ENTER] key.**

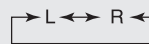
- The setting mode for the speaker "L" is reached.

**3 Press the MULTI CONTROL [ $\triangle/\nabla$ ] keys to set the distance between the listening position and the speaker "L".**

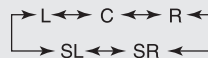
- Adjustment is possible in the range from 0.3 m to 9.0 m.

**4 Press the MULTI CONTROL [ $\triangleleft/\triangleright$ ] keys and make the settings for the next speaker.**

For a front surround system



For a 5.1 channel system



- Make the settings for each speaker with the operations of the steps **1** to **3**.

**5 Press the [ENTER] key.**

- The "SPEAKER DISTANCE" indication blinks.
- Press the [SP SETUP] key to end the operation.


# Surround play

AX-7 is equipped with listening modes that allow you to enjoy an enhanced sonic ambience with a variety of video sources.


In order to obtain the optimum effect from the surround modes, make sure to input the proper speaker settings beforehand. (See page 11.)

## Surround modes

### Dolby Digital


The Dolby Digital surround format lets you enjoy up to 5.1 channels of digital surround sound from Dolby Digital program sources (such as Laserdisc or DVD software marked ). Compared with previous Dolby surround, Dolby Digital provides even better sound quality, greater spatial accuracy, and improved dynamic range.

### Dolby Pro Logic II

Dolby Pro Logic II, whilst totally compatible with its predecessor Pro Logic, provides greater advantages in surround sound. Dolby Pro Logic II was designed specifically to provide a new sense of spatiality, directionality and articulation of sounds from Dolby Surround encoded sources (such as video and Laserdisc software marked ). This is achieved with an intelligent, built-in feedback logic design, a matrix surround decoding and the decoding of stereo, full bandwidth surround outputs.

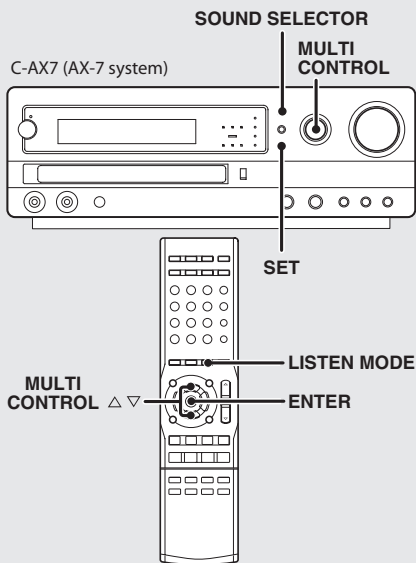
The Pro Logic II modes programmed into this model are "Movie", "Music", "Game" and "Pro Logic". Especially in "Game" mode, base sound not only from Front and Center but also from Surround channel is added to Subwoofer. This provides even more dynamic surround effects.

### DTS

DTS has volume of data more than the Dolby Digital, and can reproduce the surround of high sound quality or more. DVD that adhere the  mark can be reproduced. They are the same as the Dolby Digital 5.1 channels but it is a format that lowered the audio compression rate when recording digitally though. Because of that, high S/N with the thickness of the sound can be reproduced. Moreover, an exact, magnificent surround sound of wide a dynamic range and excelling in Separation is a feature of DTS.

DTS has a ".1" or "LFE" channel. The indication "LFE" appears in the surround indicator when a signal is being input for this channel. (See page 14.)

## Selecting the listening mode



- 1 Start playing the video software.
- 2 Select the "LISTEN MODE".

### Main unit:

- 1 Press the [SOUND SELECTOR] key of C-AX7, turn the [MULTI CONTROL] knob to select "SURROUND". Then press the [SET] key.

Switching as shown below is done each time the knob is turned.

SURROUND  
D-BASS  
TONE

- 2 Turn the [MULTI CONTROL] knob to select "LISTEN MODE". Then press the [SET] key.

Switching as shown below is done each time the knob is turned.

V.F.S.  
CLEAR VOICE  
LISTEN MODE

### Remote control unit:

- Press the [LISTEN MODE] key.

## Surround play

**3 Press the MULTI CONTROL [ $\Delta/\nabla$ ] keys on the remote control to select the listening mode. Then press the [ENTER] key.**

- Only "Stereo (EQ)" is displayed when "FRONT SYSTEM" is selected with the speaker settings. (See page 11.)
- The items "D-BASS" and "TONE" can be selected only when the "V.F.S.", "CLEAR VOICE", or "Stereo (EQ)" is selected, when the "5.1CH SYSTEM" is selected with the speaker settings. (See page 11)

The mode switches as below according to the input source.

When the Dolby Digital signal is input:

Character information display	Listening mode	Indicator
"Dolby D"	Dolby Digital	"Dolby Digital"
"PL II Movie"	Pro Logic II Movie	"Dolby Digital" "PL II"
"PL II Music"	Pro Logic II Music	"Dolby Digital" "PL II"
"PL II Game"	Pro Logic II Game	"Dolby Digital" "PL II"
"Pro Logic"	Pro Logic	"Dolby Digital" "PL"
"Stereo"	Stereo	"Dolby Digital"
"Stereo (EQ)"	Stereo (EQ ON)	"Dolby Digital"

When you select Dolby Digital



When the DTS signal is input:

Character information display	Listening mode	Indicator
"DTS"	DTS	"DTS"
"Stereo"	Stereo	"DTS"
"Stereo (EQ)"	Stereo (EQ ON)	"DTS"

When you select DTS



When the analog signal or the digital signal --except for Dolby Digital or DTS signal-- is input:

Character information display	Listening mode	Indicator
"Stereo"	Stereo	--

"Stereo (EQ)"	Stereo (EQ ON)	--
"PL II Movie"*	Pro Logic II Movie	"PL II"
"PL II Music"*	Pro Logic II Music	"PL II"
"PL II Game"*	Pro Logic II Game	"PL II"
"Pro Logic"*	Pro Logic	"PL"

\* It can not be selected when the sampling frequency is 96 kHz signal.

When you select Stereo

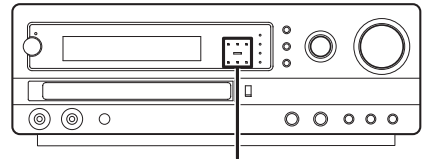


- Dolby Digital or DTS signal having more channels than the maximum number of playback channels available using this model's current settings is input, downmixing is performed to match the number of available channels.

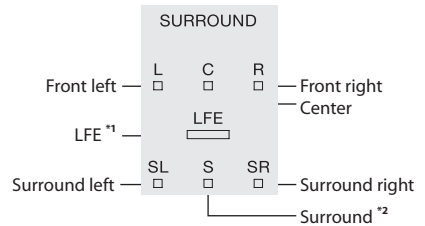
## Surround indicator

The surround indicator of C-AX7 lights according to the number of signal channels recorded in the selected sources.

C-AX7 (AX-7 system)




Surround indicator



\*1 LFE= Low Frequency Effects. This channel delivers separate non-directional bass signals to the subwoofer for more dynamic deep bass sound effects.

\*2 The "S" indicator lights when the surround component consists of a single channel.

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

# Troubleshooting

Troubles are not always due to malfunction or failure of the system. In case of a trouble, check the following tales before calling for service.

Symptom	Remedy
The power does not become ON or channel switching is not possible.	<ul style="list-style-type: none"><li>• Insert the system control cord securely all the way.</li></ul>
Channel switching is not possible when the CHANNEL SELECTOR key is pressed.	<ul style="list-style-type: none"><li>• This key does not work when Dolby Digital or DTS signal are input when selecting "5.1CH SYSTEM" of the "SPEAKER MODE" setting.</li></ul>
The standby indicator blinks in red and no audio is output.	<ul style="list-style-type: none"><li>• A speaker cord is short-circuited. Turn the power off and reconnect the speaker cord.</li><li>• There may be an internal defect. Switch it OFF, unplug the power cord and call for service.</li></ul>

## Care and storage of main unit

### ■ Do not place in the following locations.

- Place exposed to direct sunlight.
- Place subjected to excessive humidity or dirt.
- Place exposed to direct heat from heating equipment.

### ■ When a main unit becomes dirty

When the front panel or case gets dirty, wipe with a soft dry cloth. Do not use lacquer thinner, benzine, alcohol or contact revitalizer for these chemicals will cause discoloration or deformation.

### Information on Disposal of Old Electrical and Electronic Equipment (applicable for EU countries that have adopted separate waste collection systems)



Products with the symbol (crossed-out wheeled bin) cannot be disposed as household waste.

Old electrical and electronic equipment should be recycled at a facility capable of handling these items and their waste by products.

Contact your local authority for details in locating a recycle facility nearest to you.

Proper recycling and waste disposal will help conserve resources whilst preventing detrimental effects on our health and the environment.

# Specifications

## Main amplifier (M-AX700)

### [Audio section]

When connecting KSW-700 with the AX-7 system

During 4-channel operation

Effective output power

SURROUND (1 kHz, 10% T.H.D., at 8 Ω)

25 W + 25 W (RMS)

CENTER (1 kHz, 10% T.H.D., at 8 Ω)..... 25 W (RMS)

SUB WOOFER (1 kHz, 10% T.H.D., at 6 Ω)..... 35 W (RMS)

S/N ratio..... 100 dB

Total harmonic distortion..... 0.003% (1 kHz, 10 W, 6 Ω)

During stereo operation

Effective output power

SUB WOOFER (1 kHz, 10% T.H.D., at 6 Ω)..... 50 W (RMS)

CENTER (1 kHz, 10% T.H.D., at 8 Ω)..... 45 W (RMS)

S/N ratio..... 105 dB

Total harmonic distortion..... 0.0025% (1 kHz, 19 W, 6 Ω)

### [General]

Power consumption..... 130 W

Standby power consumption..... less than 0.25 W

Dimensions..... W: 270 mm (10-5/8")

H: 101 mm (4")

D: 336 mm (13-1/4")

Weight (net)..... 5 kg (11 lb)

## Speaker (CRS-W700)

Note: The grilles on all the speakers cannot be removed.

### [Surround speaker]

System..... Full-range speaker system

Enclosure..... Bass-Reflex

Loudspeaker..... 70 mm (2-3/4") Cone type

Nominal impedance..... 8 Ω

Nominal input power..... 35 W

Max input power..... 70 W

Sensitivity..... 82 dB/W, 1m

Frequency response..... 140 Hz ~ 20,000 Hz

Dimensions..... W: 85 mm (3-3/8")

H: 180 mm (7-1/16")

D: 85 mm (3-3/8")

Weight (net)..... 0.5 kg (1.1 lb)/piece

### [Center speaker]

System..... Full-range speaker system (Magnetically shielded)

Enclosure..... Bass-Reflex

Loudspeaker..... 70 mm (2-3/4") Cone type

Nominal impedance..... 8 Ω

Nominal input power..... 35 W

Max input power..... 70 W

Sensitivity..... 84 dB/W, 1m

Frequency response..... 130 Hz ~ 20,000 Hz

Dimensions..... W: 250 mm (9-13/16")

H: 85 mm (3-3/8")

D: 85 mm (3-3/8")

Weight (net)..... 0.7 kg (1.5 lb)

### [Subwoofer]

Enclosure..... Bass-Reflex

Loudspeaker..... 160 mm (6-5/16") Cone type

Nominal impedance..... 6 Ω

Nominal input power..... 35 W

Max input power..... 70 W

Sensitivity..... 83 dB/W, 1m

Frequency response..... 35 Hz ~ 500 Hz

Dimensions..... W: 215 mm (8-7/16")

H: 350 mm (13-3/4")

D: 342 mm (13-7/16")

Weight (net)..... 6.8 kg (15.0 lb)

- Kenwood follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.
- Sufficient performance may not be exhibited at extremely cold locations (where water freezes).

# KENWOOD

## For your records

Record the serial number, found on the back of the unit, in the spaces designated on the warranty card, and in the space provided below. Refer to the model and serial numbers whenever you call upon your dealer for information or service on this product.

Model \_\_\_\_\_ Serial Number \_\_\_\_\_