YAMAHA AX-1070/870

Natural Sound Stereo Integrated Amplifier

145W + 145W (8Ω) RMS Output Power, 0.01% THD, 20–20,000 Hz <AX-1070>
110W + 110W (8Ω) RMS Output Power, 0.015% THD, 20–20,000 Hz <AX-870>

Increased Low Impedance Drive Capability

Continuously Variable Loudness Control

PURE DIRECT Switch to Reproduce the Purest Source Sound

SUBSONIC FILTER Switch to Cut Out Undesirable Ultra-Low-Frequency Signals

PRE OUT/MAIN IN Terminals Useful for Connecting An Equalizer, Sound Processor, etc.

Turnover Frequency Switch for Tone Controls <For AX-1070 only>

High Quality Components Parts

Remote Control Capability

Thank you for selecting this YAMAHA stereo integrated amplifier.



OWNER'S MANUAL

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IMPORTANT!

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

Model: Serial No.:

The serial number is located on the rear of the unit.

Retain this Owner's Manual in a safe place for future reference.

WARNING

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



CAUTION

RISK OF ELECTRIC SHOCK



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK), NO USER-SERVICEABLE PARTS INSIDE, REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

• Explanation of Graphical Symbols



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



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

SAFETY INSTRUCTIONS

- 1 Read Instructions All the safety and operating instructions should be read before the unit is operated.
- 2 Retain Instructions The safety and operating instructions should be retained for future reference.
- 3 Heed Warnings All warnings on the unit and in the operating instructions should be adhered to.
- 4 Follow Instructions All operating and other instructions should be followed.
- Water and Moisture The unit should not be used near water – for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, etc.
- 6 Carts and Stands The unit should be used only with a cart or stand that is recommended by the manufacturer.
- **6A** A unit and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the unit and cart combination to overturn.



- Wall or Ceiling Mounting The unit should be mounted to a wall or ceiling only as recommended by the manufacturer.
- Ventilation The unit should be situated so that its location or position does not interfere with its proper ventilation. For example, the unit should not be situated on a bed, sofa, rug, or similar surface, that may block the ventilation openings; or placed in a built-in installation, such as a bookcase or cabinet that may impede the flow of air through the ventilation openings.
- 9 Heat The unit should be situated away from heat sources such as radiators, stoves, or other appliances that produce heat.
- 10 Power Sources The unit should be connected to a power supply only of the type described in the operating instructions or as marked on the unit.

- 11 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 unit.
- **12** Cleaning The unit should be cleaned only as recommended by the manufacturer.
- 13 Nonuse Periods The power cord of the unit should be unplugged from the outlet when left unused for a long period of time.
- 14 Object and Liquid Entry Care should be taken so that objects do not fall into and liquids are not spilled into the inside of the unit.
- 15 Damage Requiring Service The unit should be serviced by qualified service personnel when:
 - **A.** The power-supply cord or the plug has been damaged; or
 - **B.** Objects have fallen, or liquid has been spilled into the unit: or
 - C. The unit has been exposed to rain; or
 - **D.** The unit does not appear to operate normally or exhibits a marked change in performance; or
 - **E.** The unit has been dropped, or the cabinet damaged.
- 16 Servicing The user should not attempt to service the unit beyond those means described in the operating instructions. All other servicing should be referred to qualified service personnel.
- 17 Power Lines An outdoor antenna should be located away from power lines.
- **18** Grounding or Polarization Precautions should be taken so that the grounding or polarization is not defeated.

Caution: Read this before operating your unit

- 1 To ensure the finest performance, please read this manual carefully. Keep it in a safe place for future reference.
- Install your unit in a cool, dry, clean place away from windows, heat sources, and too much vibration, dust, moisture or cold. Avoid sources of hum (transformers, motors). To prevent fire or electrical shock, do not expose to rain and water.
- 3 Do not operate the unit upside-down. It may overheat, possibly causing damage.
- 4 Never open the cabinet. If a foreign object drops into the set, contact your dealer.
- Do not use force on switches, knobs or cords. When moving the set, first turn the unit off. Then gently disconnect the power plug and the cords connecting to other equipment. Never pull the cord itself.
- 6 Do not attempt to clean the unit with chemical solvents; this might damage the finish. Use a clean, dry cloth.

- 7 Always set the volume control to "- ∞" before starting the audio source play: increase the volume gradually to an appropriate level after the play is started.
- To prevent lightning damage, pull out the power cord and remove the antenna cable during an electrical storm.
- When not planning to use this unit for long periods of time (ie., vacation, etc.), disconnect the AC power plug from the wall outlet.
- 10 Be sure to read the "Troubleshooting" section on common operating errors before concluding that your unit is faulty.
- 11 Do not connect audio equipment to the AC outlets on the rear panel if that equipment requires more power than the outlets are rated to provide.

FCC INFORMATION

1. IMPORTANT NOTICE: DO NOT MODIFY THIS UNIT!

This product, when installed as indicated in the instructions contained in this manual, meets FCC requirements. Modifications not expressly approved by Yamaha may void your authority, granted by the FCC, to use the product.

- 2. IMPORTANT: When connecting this product to accessories and/or another product use only high quality shielded cables. Cable/s supplied with this product MUST be used. Follow all installation instructions. Failure to follow instructions could void your FCC authorization to use this product in the USA.
- 3. NOTE: This product has been tested and found to comply with the requirements listed in FCC Regulations, Part 15 for Class "B" digital devices. Compliance with these requirements provides a reasonable level of assurance that your use of this product in a residential environment will not result in harmful interference with other electronic devices.

This equipment generates/uses radio frequencies and, if not installed and used according to the instructions found in the users manual, may cause interference harmful to the operation of other electronic devices.

Compliance with FCC regulations does not guarantee that interference will not occur in all installations. If this product is found to be the source of interference, which can be determined by turning the unit "OFF" and "ON", please try to eliminate the problem by using one of the following measures:

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

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

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

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

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

We Want You Listening For A Lifetime

YAMAHA and the Electronic Industries Association's Consumer Electronics Group want you to get the most out of your equipment by playing it at a safe level. One that lets the sound come through loud and clear without annoying blaring or distortion – and, most importantly, without affecting your sensitive hearing. Since hearing damage from loud sounds is often undetectable until it is too late, YAMAHA and the Electronic Industries Association's Consumer Electronics Group recommend you to avoid prolonged exposure from excessive volume levels.

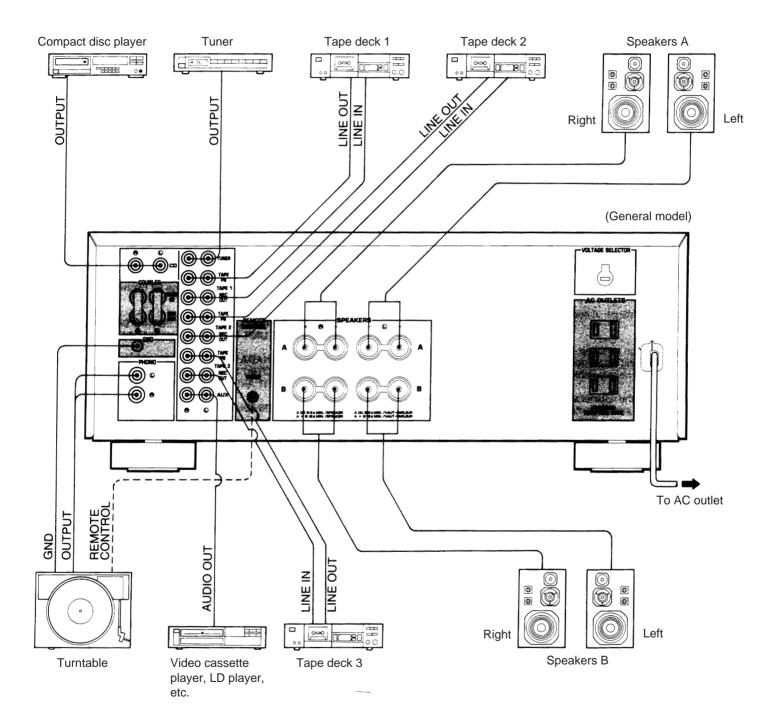
SUPPLIED ACCESSORIES

After unpacking, check that the following parts are contained.

CONNECTIONS

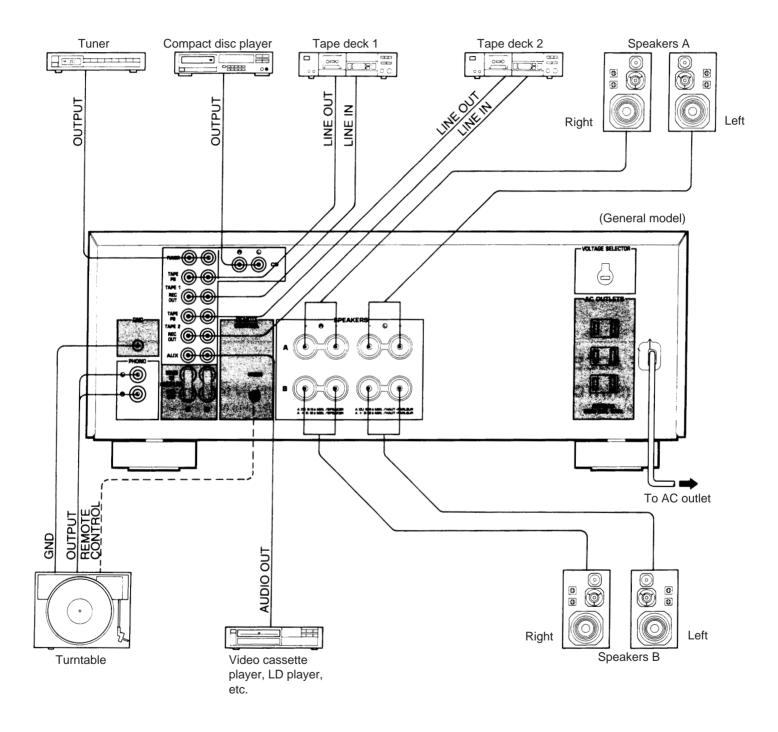
- Before attempting to make any connections to or from this unit, be sure to first switch OFF the power to this unit and to any other components to which connections are being made.
- When making connections between this unit and other components, be sure all connections are made correctly, that is to say L
 (left) to L, R (right) to R, "+" to "+" and "-" to "-". Also, refer to the owner's manual for each component to be connected to this
 unit

<AX-1070>



^{* :} Refer to "ABOUT THE ACCESSORY TERMINALS" on page 6.

<AX-870>



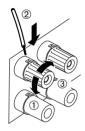
^{* :} Refer to "ABOUT THE ACCESSORY TERMINALS" on page 6.

CONNECTING SPEAKERS

Connect the **SPEAKERS** terminals to your speakers with wire of the proper gauge, cut as short as possible. If the connections are faulty, no sound will be heard from the speakers. Make sure that the polarity of the speaker wires is correct, that is, + and – markings are observed. If these wires are reversed, the sound will be unnatural and will lack bass. **Do not let the bare speaker wires touch each other and do not let them touch the metal parts of this unit as this could damage this unit and/or speakers.**

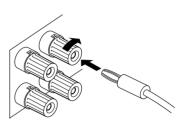
How to Connect:

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



- ① Unscrew the knob.
- ② Insert the bare wire. [Remove approx. 5mm (1/4") insulation from the speaker wires.]
- 3 Tighten the knob and secure the wire.

- One or two speaker systems can be connected to this unit.
 If you connect only one speaker system, connect it to either the SPEAKERS A or B terminals.
- Use speakers with the specified impedance shown on the rear of this unit.
- Banana Plug connections are also possible (except for Scandinavian models). Simply insert the Banana Plug connector into the corresponding terminal.



ABOUT THE ACCESSORY TERMINALS

AC OUTLETS (SWITCHED)

Use these to connect the power cords from your components to this unit.

The power to the **SWITCHED** outlets is controlled by this unit's **POWER** switch or the provided remote control transmitter's **POWER** key. These outlets will supply power to any component whenever this unit is turned on.

The maximum power (total power consumption of components) that can be connected to the **SWITCHED AC OUTLETS** is 200 watts.

REMOTE CONTROL (PHONO) connector

If you have a YAMAHA turntable with a terminal for remote control, connect it to this connector by using the cable provided with the turntable. This connection allows you to control the turntable from the provided remote control transmitter.

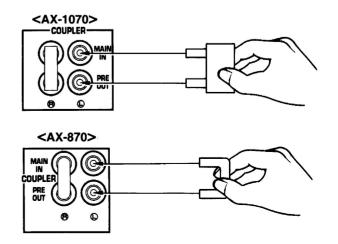
GND terminal (For turntable use)

Connecting the ground wire of the turntable to this terminal will normally minimize hum, but in some cases better results may be obtained with the ground wire disconnected.

PRE OUT/MAIN IN terminals

Removing the jumper pins enables this unit to independently perform the functions of a control amplifier and a power amplifier. These terminals are for connection of a signal-processing system such as a graphic equalizer or sound processor.

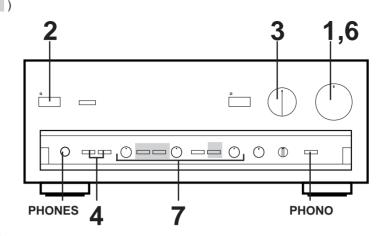
If a sound processor or other component is connected, the **VOLUME** control of this unit can be used for overall adjustment of the level of sound. To connect such a unit, remove the jumper pins from the **PRE OUT/MAIN IN** terminals, connect the inputs of that unit to the **PRE OUT** terminals and its outputs to the **MAIN IN** terminals. For details, refer to the owner's manual included with the unit to be connected.



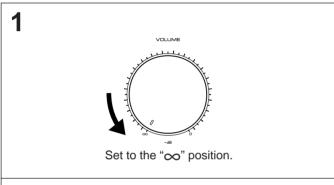
OPERATIONS

Illustration: AX-1070

Parts in shaded area () are not present on AX-870.

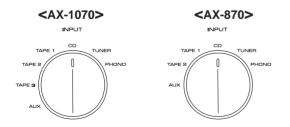


TO PLAY A SOURCE

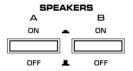


2 POWER

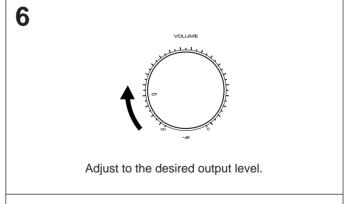
3 Select a desired input source.



 If you select turntable as an input source (PHONO position), refer to "Setting the PHONO switch" on page 11. 4 Select the speakers to be used.



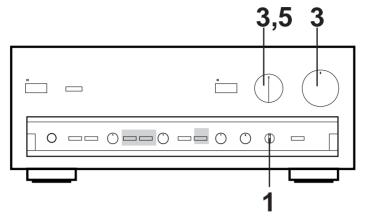
- * If you use two speaker systems, press both the A and B switches.
- **5** Play the source.



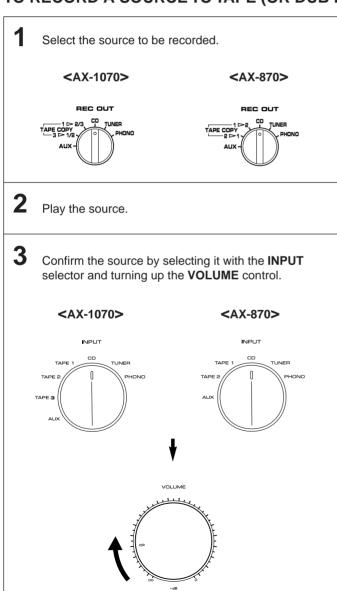
If desired, adjust the BASS, TREBLE, BALANCE and LOUDNESS controls, etc. (Refer to page 10–11.)

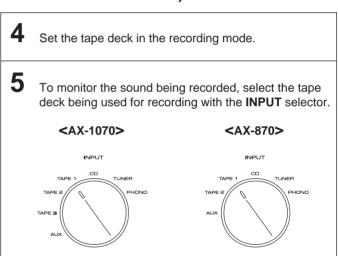
Illustration: AX-1070

Parts in shaded area () are not present on AX-870.



TO RECORD A SOURCE TO TAPE (OR DUB FROM A TAPE TO ANOTHER)





Notes

- If you want to enjoy another source while recording, select it with the **INPUT** selector.
- VOLUME, BASS, TREBLE, BALANCE, LOUDNESS controls and PURE DIRECT switch settings have no effect on the material being recorded.

REC OUT selector setting on tape dubbing <AX-1070>

To dub from tape deck 1 to tape deck 2 and 3 at the same time) To dub from tape deck 3 to tape deck 1 or 2 (or both tape deck 1 and 2 at the same time) REC DUT TAPE COPY TA

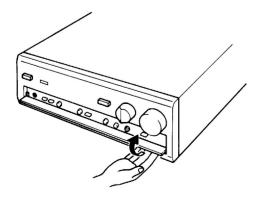
<AX-870>

To dub from tape deck 1 to tape deck 2	TAPE COUT TAPE COPY 2 D-1 AUX
To dub from tape deck 2 to tape deck 1	TAPE COPY TAPE COPY AUX

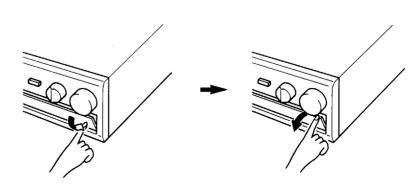
OPEN/CLOSE THE CONTROL DOOR

When it is not necessary to operate controls inside the control door, close the door.

To close the door



To open the door



^{*} Tape dubbing cannot be done from tape deck 2 to tape deck 1 or 3.

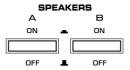
Adjusting the BALANCE control

Adjust the balance of the output volume to the left and right speakers to compensate for sound imbalance caused from speaker location or listening room conditions.



Selecting the SPEAKER system

Because one or two speaker systems can be connected to this unit, the SPEAKERS switches allow you to select speaker system A or B, or both at once.



Adjusting the BASS and TREBLE controls

BASS

: Turn this clockwise to increase (or counterclockwise to decrease) the low frequency response.

TREBLE: Turn this clockwise to increase (or counterclockwise to decrease) the high frequency response.

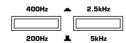




TURNOVER FREQUENCY switch <For AX-1070 only>

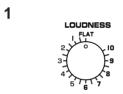
These switches can be used to adjust the turnover point of the tone controls: either 200 Hz or 400 Hz for BASS and either 2.5 kHz or 5 kHz for TREBLE. This gives you flexible control over bass and treble response characteristics.

TURNOVER FREQUENCY



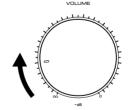
Adjusting the continuously variable LOUDNESS control

This control provides compensation for the human ears' loss of sensitivity to high and low-frequency ranges at low volume. This control is adjustable to retain full tonal range at any volume level.

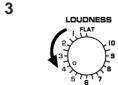


2

Set to the "FLAT" position.



Set to the loudest listening level that you would listen to.



Turn so that the desired volume can be achieved.

Using the PURE DIRECT switch

You can enjoy the purest possible sound from your audio sources by setting this switch so that the indicator illuminates. By doing so, the audio signal bypasses the BASS, TREBLE, BALANCE and LOUDNESS controls, the SUBSONIC FILTER switch and the PRE OUT/MAIN IN terminals, eliminating any alterations to the audio signal.



Setting the PHONO switch

Select either MM or MC position depending on your PHONO cartridge, Moving Magnet or Moving Coil type. However, if you use a high output MC cartridge, select MM position.



Setting the SUBSONIC FILTER switch

If you set this switch to "ON" position, undesirable ultra-low-frequency signals caused by turntable rumble or warped records can be cut out without losing sound quality.



Setting the MODE switch <For AX-1070 only>

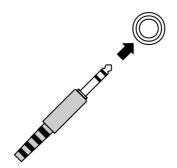
This switch can be used for switching between stereo and monaural operation. Normally this switch should be set to the STEREO position.



When you listen with headphones

Connect the headphones to the **PHONES** jack. When listening with headphones privately, set both the **SPEAKERS A** and **B** switches to the OFF position.

PHONES



REMOTE CONTROL TRANSMITTER

The remote control transmitter provided with this unit is designed to control all the most commonly used functions of the unit. If the CD player, tuner, turntable, equalizer, and tape deck connected to this unit are YAMAHA components, then this remote control transmitter will also control various functions of each component.

KEY FUNCTIONS

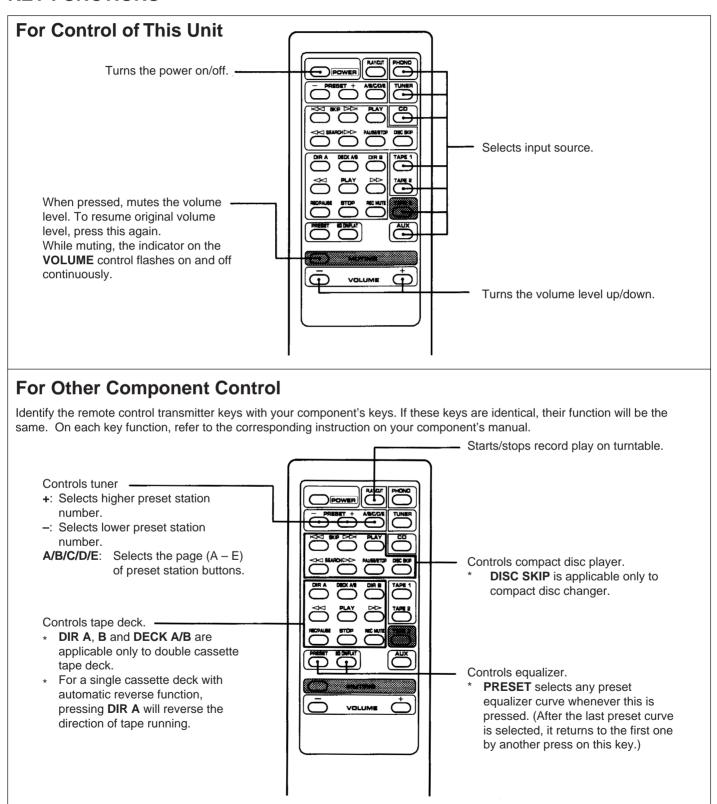


Illustration: AX-1070

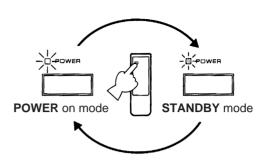
Parts in shaded area () are not present on AX-870.

STANDBY mode (For Europe model only)

While the power is on, pressing the **POWER** key on the remote control transmitter switches the unit to the STANDBY mode. (In this mode, the indicator is half illuminated.)

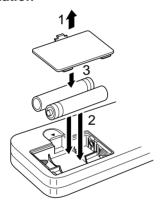
Note

To turn the power off completely, disconnect the AC power plug from the wall outlet.



NOTES ABOUT THE REMOTE CONTROL TRANSMITTER

Battery installation



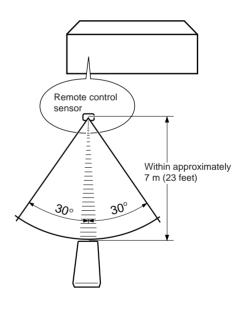
Battery replacement

If you find that the remote control transmitter must be used closer to the main unit, the batteries are weak. Replace both batteries with new ones.

Notes

- Use only AA, R6, UM-3 batteries for replacement.
- Be sure the polarities are correct. (See the illustration inside the battery compartment.)
- Remove the batteries if the remote control transmitter will not be used for an extended period of time.
- If batteries leak, dispose of them immediately. Avoid touching the leaked material or letting it come in contact with clothing, etc. Clean the battery compartment thoroughly before installing new batteries.

Remote control transmitter operation range



Notes

- There should be no large obstacles between the remote control transmitter and the main unit.
- If the remote control sensor is directly illuminated by strong lighting (especially an inverter type of fluorescent lamp etc.), it might cause the remote control transmitter not to work correctly. In this case, reposition the main unit to avoid direct lighting.

TROUBLESHOOTING

If the unit fails to operate normally, check the following points to determine whether the fault can be corrected by the simple measures suggested. If it cannot be corrected, or if the fault is not listed in the SYMPTOM column, disconnect the power cord and contact your authorized YAMAHA dealer or service center for help.

SYMPTOM	CAUSE	REMEDY
The unit fails to turn on when the POWER switch is pressed.	Power cord is not plugged in or is not completely inserted.	Firmly plug in the power cord.
No sound.	Incorrect output cord connections.	Connect the cords properly. If the problem persists, the cords may be defective.
	Appropriate input source is not selected.	Select an appropriate input source with the INPUT selector.
	Speaker connections are not secure.	Secure the connections.
The sound suddenly goes off.	The protection circuit has activated because of short circuit etc.	Turning the unit off and then on will reset the protection circuit.
Only one side speaker outputs the sound.	Incorrect setting of the BALANCE control.	Adjust it to the appropriate position.
	Incorrect cord connections.	Connect the cords properly. If the problem persists, the cords may be defective.
There is a lack of bass, and no ambience.	The + and – wires are connected in reverse at the amplifier or speakers.	Connect the speaker wires in the correct phase (+ and –).
Sound "hums".	Incorrect cord connections.	Firmly connect the audio plugs. If the problem persists, the cords may be defective.
	No connection from the turntable to the GND terminal.	Make the GND connection between the turntable and this unit.
Sound level is low.	The LOUDNESS control is functioning.	Set the LOUDNESS control to the FLAT position.
	The MUTING switch is ON.	First, turn the volume control to the full left. Then, turn the MUTING switch OFF with the remote control transmitter and adjust the volume.
Using the BASS, TREBLE, BALANCE, LOUDNESS controls and SUBSONIC FILTER switch does not affect the tone.	The PURE DIRECT switch is ON.	The PURE DIRECT switch must be switched OFF to use those controls.
The remote control transmitter does not work.	Direct sunlight or lighting (of an inverter type of flourescent lamp etc.) is striking the remote control sensor of the main unit.	Change position of the main unit.
The distance or range within which the remote control transmitter can be used decreases.	The batteries of this remote control transmitter are too weak.	Replace the batteries with new ones.

SPECIFICATIONS

Minimum RMS Output Power per Channel <ax-1070></ax-1070>	Output Level/Impedance <ax-1070></ax-1070>	Channel Separation (Vol. –30 dB) PHONO MM/MC (Input Shorted
8 ohms, 20 Hz to 20 kHz, 0.01% THD	REC OUT150 mV/2.2 k-ohms	1 kHz/10 kHz)70 dB/55 dB
145W+145W 6 ohms, 20 Hz to 20 kHz, 0.02% THD 185W+185W	PRE OUT1.0V/1.8 k-ohms <ax-870> REC OUT150 mV/2.2 k-ohms</ax-870>	CD/TUNER/TAPE/AUX (Input 5.1 k-ohms Terminated 1 kHz/10 kHz)65 dB/50 dB
<ax-870></ax-870>	PRE OUT130 IIIV/2.2 k-01IIIS	Tone Control Characteristics
8 ohms, 20 Hz to 20 kHz, 0.015% THD		BASS:
110W+110W	Maximum Voltage Output	Boost/cut±10 dB (20 Hz)
6 ohms, 20 Hz to 20 kHz, 0.03% THD130W+130W	<ax-1070> 20 Hz to 20 kHz. 0.02% THD6.5V</ax-1070>	Turnover Frequency <ax-1070>200, 400 Hz</ax-1070>
13000713000	<ax-870></ax-870>	<ax-870>350 Hz</ax-870>
Dynamic Power per Channel	20 Hz to 20 kHz, 0.01% THD1.4V	TREBLE:
(by IHF Dynamic Headroom measuring		Boost/cut±10 dB (20 kHz)
method)	Headphone Jack Rated Output/ Impedance	Turnover Frequency
<ax-1070> 8/6/4/2 ohms220/290/360/460W</ax-1070>	Output Level (8 ohms, 1 kHz, 0.015% THD) <ax-1070>1.05V</ax-1070>	<ax-1070>2.5, 5 kHz <ax-870>3.5 kHz</ax-870></ax-1070>
<ax-870></ax-870>	<ax-870>0.5V</ax-870>	77X 0707
8/6/4/2 ohms150/200/250/330W	Impedance	Filter Characteristics
	<ax-1070>220 ohms</ax-1070>	SUBSONIC FILTER15 Hz, -18 dB/oct
DIN Standard Output Power per Channel	<ax-870>470 ohms</ax-870>	Ocation and acceptant
[Europe model only] <ax-1070></ax-1070>	Frequency Response (20 Hz to 20 kHz)	Continuous Loudness Control (Level related equalization)
(4 ohms, 1 kHz, 0.7% THD)250W	CD/TUNER/TAPE/AUX0±0.5 dB	Attenuation
<ax-870></ax-870>	MAIN IN0±0.5 dB	<ax-1070>40 dB (1 kHz)</ax-1070>
(4 ohms, 1 kHz, 0.7% THD)185W		<ax-870>30 dB (1 kHz)</ax-870>
December 11 and the second considerated and 1	RIAA Equalization Deviation (20 Hz to 20 kHz)	Applica Martines and V 4070 codes
Dynamic Headroom [General model only] <ax-1070></ax-1070>	PHONO MM±0.3 dB PHONO MC±0.5 dB	Audio Muting <ax-1070 only="">20 dB</ax-1070>
8/6 ohms1.81 dB/1.95 dB	1 110100 WG±0.5 dB	Gain Tracking Error (0 to -60 dB)2 dB
<ax-870></ax-870>	Total Harmonic Distortion (20 Hz to 20 kHz)	3 1 (1 11 1 1 1)
8/6 ohms1.35 dB/0.97 dB	<ax-1070></ax-1070>	Power Supply
IFO Devices (O above A Idla O 040/ TUD)	PHONO MM to REC OUT (3V)0.003%	[Australia and U.K. models]
IEC Power (8 ohms, 1 kHz, 0.01% THD) [Europe model only]	PHONO MC to REC OUT (3V)0.007% CD/TUNER/TAPE/AUX to PRE OUT (1V)	AC 240V, 50 Hz [Europe model]AC 230V, 50 Hz
<ax-1070>170W</ax-1070>	0.004%	[General model]
<ax-870>125W</ax-870>	CD/TUNER/TAPE/AUX to SP OUT	AC 110/120/220/240V, 50/60 Hz
	(72.5W/8 ohms)0.007%	
Power Band Width	MAIN IN to SP OUT	Power Consumption
<ax-1070> 8 ohms, 72.5W, 0.03% THD</ax-1070>	(72.5W/8 ohms)0.005%	<ax-1070>370W <ax-870>270W</ax-870></ax-1070>
10 Hz to 50 kHz	PHONO MM to REC OUT (3V)0.003%	2700
<ax-870></ax-870>	PHONO MC to REC OUT (3V)0.007%	AC Outlets
8 ohms, 55W, 0.03% THD	CD/TUNER/TAPE/AUX to PRE OUT (1V)	[Europe and General models]
10 Hz to 50 kHz	0.005%	3 SWITCHED OUTLETS
Damping Factor	CD/TUNER/TAPE/AUX to SP OUT (55W/8 ohms)	200W max. total [Australia and U.K. models]
8 ohms, 20 Hz–20 kHz	MAIN IN to SP OUT	1 SWITCHED OUTLET
<ax-1070>350 or more</ax-1070>	(55W/8 ohms)0.006%	200W max. total
<ax-870>320 or more</ax-870>	O'mad to Na's a Dat's (ILIE A Matural)	D'arrasiana (Marillas D)
Input Sensitivity/Impedance	Signal-to-Noise Ratio (IHF-A Network) PHONO MM (5 mV Input Shorted)	Dimensions (W x H x D)435 x 171 x 448 mm
PHONO MM2.5 mV/47 k-ohms		(17-1/8" x 6-3/4" x 17-5/8")
PHONO MC160 μV/220 ohms	PHONO MC (500 μV Input Shorted)	(
CD/TUNER/TAPE/AUX	75 dB	Weight
150 mV/47 k-ohms	CD/TUNER/TAPE/AUX (Input Shorted)	<ax-1070>18.3 kg (40 lbs. 4 oz.)</ax-1070>
MAIN IN <ax-1070>1.0V/47 k-ohms</ax-1070>	(PURE DIRECT; ON) 110 dB	<ax-870>14.0 kg (30 lbs. 13 oz.)</ax-870>
<ax-870>0.9V/47 k-ohms</ax-870>	Residual Noise (IHF-A Network)	AccessoriesRemote control transmitter
	(PURE DIRECT; ON)	Batteries
Maximum Input Signal (1 kHz, 0.01% THD)	<ax-1070>35 μV</ax-1070>	
<ax-1070></ax-1070>	<ax-870>80 μV</ax-870>	Charifications subject to the second with suf
PHONO MM170 mV PHONO MC13.5 mV		Specifications subject to change without notice.
<ax-870></ax-870>		nonoc.
PHONO MM160 mV		
PHONO MC12.5 mV		

YAMAHA