A-S701 A-S501 A-S301

Integrated Amplifier

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. For proper ventilation, allow the following minimum clearances around this unit.

Top: 30 cm Rear: 20 cm Sides: 20 cm

- 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 an 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 an AC wall outlet until all connections are complete.
- 8 Do not operate this unit upside-down. It may overheat, possibly causing damage.
- 9 Do not use force on switches, knobs and/or cords.
- 10 When disconnecting the power cable from the AC wall outlet, grasp the plug; do not pull the cable.
- 11 Do not clean this unit with chemical solvents; this might damage the finish. Use a clean, dry cloth.
- 12 Only voltage specified on this unit must be used. Using this unit with a higher voltage than specified is dangerous and may cause fire, damage to this unit, and/or personal injury. Yamaha will not be held responsible for any damage resulting from use of this unit with a voltage other than specified.
- 13 To prevent damage by lightning, keep the power cable and outdoor antennas disconnected from an AC wall outlet or this unit during a lightning storm.
- 14 Do not attempt to modify or fix this unit. Contact qualified Yamaha service personnel when any service is needed. The cabinet should never be opened for any reasons.
- 15 When not planning to use this unit for long periods of time (i.e. vacation), disconnect the AC power plug from the AC 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 \circ (power) to set this unit to standby mode, and then disconnect the AC power plug from the AC wall outlet.
- 18 Condensation will form when the surrounding temperature changes suddenly. Disconnect the power cable from the outlet, then leave this unit alone.
- 19 When using this unit for a long time, this unit may become warm. Turn the power off, then leave this unit alone for cooling.
- 20 Install this unit near the AC wall outlet and where the AC power plug can be reached easily.
- 21 The batteries shall not be exposed to excessive heat such as sunshine, fire or the like.
- 22 Excessive sound pressure from earphones and headphones can cause hearing loss.

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

WARNING

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



This label is required to be attached to a product of which the temperature of the top cover may be hot during operation.

■ For U.K. customers

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

Note

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

Special Instructions for U.K. Model

IMPORTANT

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

Blue: NEUTRAL Brown: LIVE

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

The wire which is coloured BLUE must be connected to the terminal which is marked with the letter N or coloured BLACK. The wire which is coloured BROWN must be connected to the terminal which is marked with the letter L or coloured RED. Make sure that neither core is connected to the earth terminal of the three pin plug.

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About this manual

- = indicates a tip for your operation.
- The illustrations used in this Owner's Manual are A-S701.
- Depending on the model, there are some countries/regions where it may not be sold.

USEFUL FEATURES

This unit allows you to:

- ◆ Enjoy the highest sound quality of compact discs by using the CD direct function (A-S701 only) (see page 12)
- ◆ Enjoy pure, high fidelity sound by using the Pure Direct function (see page 12)
- ◆ Save power by using AUTO POWER STANDBY switch (see page 4)
- ◆ Use the remote control of this unit to operate a Yamaha tuner and/or CD player (see page 7)
- Boost bass sounds by connecting a subwoofer (see page 9)

SUPPLIED ACCESSORIES

Please check that you received all of the following parts.

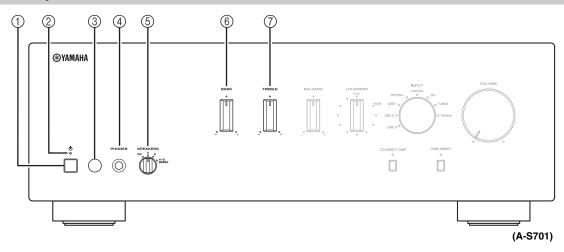






CONTROLS AND FUNCTIONS

Front panel



1) (b) (power) switch

Turns on and off the power of this unit.

Note

Even when this unit is turned off, this unit consumes a small amount of power.

Power indicator

Indicator	Status		
Brightly lit	The power of this unit is "on".		
Dimly lit	This unit is in "standby" mode. For details on the "standby" mode, see page 6.		
Off	The power of this unit is "off".		

③ Remote control sensor

Receives infrared signals from the remote control.

4 PHONES jack

Connect your headphones.

(5) SPEAKERS selector

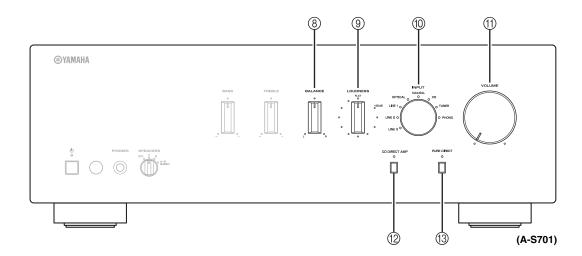
Selector position	Speaker status	
OFF	Both sets of speakers are off.	
A or B	The set of speakers connected to the A or B terminals is on.	
A+B BI-WIRING	Both sets of speakers are on.	

6 BASS control

Increases or decreases the low frequency response. The 0 position produces a flat response. Control range: -10 dB to +10 dB

(7) TREBLE control

Increases or decreases the high frequency response. The 0 position produces a flat response. Control range: -10 dB to +10 dB



8 BALANCE control

Adjusts the sound output balance of the left and right speakers to compensate for sound imbalances.

Note

If you rotate the BALANCE control to the end of L (left) or R (right), the opposite side of channel is muted.

LOUDNESS control

Retain a full tonal range at any volume level (see page 12).

(1) INPUT selector and indicators

Selects the input source you want to listen to. The input source indicators light up when the corresponding input sources are selected.

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The input source names correspond to the names of the connection jacks on the rear panel.

(f) VOLUME control

Increases or decreases the sound output level.

© CD DIRECT AMP button and indicator (A-S701 only)

Reproduces CD sound in the highest signal quality (see page 12).

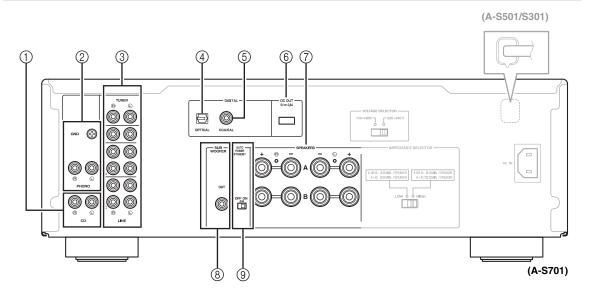
The indicator above it lights up when this function is turned on.

(3) PURE DIRECT button and indicator

Reproduces any input source in the purest sound possible (see page 12).

The indicator above it lights up when this function is turned on.

Rear panel



1 CD input jacks

Used to connect a CD player (see page 9).

2 PHONO jacks and GND terminal

Used to connect a turntable that uses an MM cartridge, and to ground the terminal (see page 9).

3 Audio input/output jacks

Used to connect external components, such as a tuner, etc (see page 9).

(4) DIGITAL (OPTICAL) jack

Used to connect a component with a digital optical output (see page 9).

5 DIGITAL (COAXIAL) jack

Used to connect a component with a digital coaxial output (see page 9).

6 DC OUT jack

For supplying power to a Yamaha AV accessory. For details on connections, refer to the instruction manual of the AV accessory.

(7) SPEAKERS A/B terminals

Used to connect one or two speaker sets (see page 9).

8 SUBWOOFER OUT jack

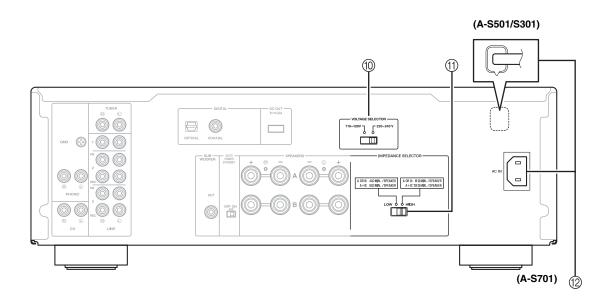
Used to connect a subwoofer with built-in amplifier (see page 9).

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The SUBWOOFER OUT jack attenuates signals over 90 Hz.

(9) AUTO POWER STANDBY switch

Switch position	Status		
ON	The unit enters standby mode automatically if not operated for 8 hours.		
OFF	The unit does not enter standby mode automatically.		



(10) VOLTAGE SELECTOR (General model only)

Used to set to your local main voltage (see page 10).

(1) IMPEDANCE SELECTOR switch

CAUTION

Do not change the IMPEDANCE SELECTOR switch while the power is turned on, as doing so may damage the unit.

If the IMPEDANCE SELECTOR switch may not be fully slid to either position, remove the power cable and slide the switch all the way to either position. Select the switch position according to the impedance of the speakers.

Speaker connection	Speaker impedance	Switch position
SPEAKERS A	6Ω or higher	HIGH
or SPEAKERS B	4Ω or higher	LOW
SPEAKERS A and SPEAKERS B	12 Ω or higher	HIGH
	8 Ω or higher	LOW
Bi-wiring	6 Ω or higher	HIGH
	4 Ω or higher	LOW

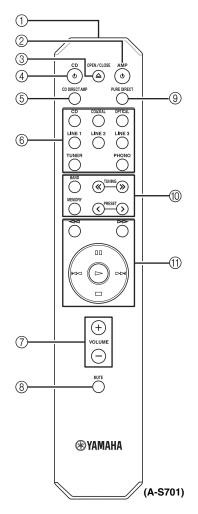
⁽²⁾ AC IN (A-S701)

Used to connect the supplied power cable to an AC wall outlet (see page 10).

Power cable (A-S501/S301)

Used to connect this unit to an AC wall outlet (see page 10).

Remote control



1 Infrared signal transmitter Sends infrared signals.

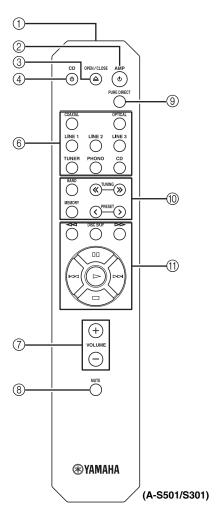
② (L) AMP

Turns this unit on, or sets it to standby mode.

Opens/closes the disc tray of the Yamaha CD player. Refer to the owner's manual of your CD player for details.

Note

Even when using a Yamaha CD player, certain components and features may not be available.



④ **(b) CD**

Turns the Yamaha CD player on, or sets it to standby mode. Refer to the owner's manual of your CD player for details.

Note

Even when using a Yamaha CD player, certain components and features may not be available.

5 CD DIRECT AMP (A-S701 only)

Reproduces CD sound in the highest signal quality (see page 12).

6 Input selector buttons

Selects the input source you want to listen to.

`¦′:

The input source names correspond to the names of the connection jacks on the rear panel.

7 VOLUME +/-

Increases or decreases the sound output level.

® MUTE

Reduces the current volume level by approximately 20 dB. Press again to restore the audio output to the previous volume level. Pressing the VOLUME +/– also cancels muting.

The input indicator on the front panel for the current input source blinks while the output is muted.

9 PURE DIRECT

Reproduces any input source in the purest sound possible (see page 12).

Yamaha tuner control buttons

The following buttons can be used to control various functions of a Yamaha tuner.

Refer to your component's owner's manual for more information.

BAND

Selects the reception band (FM/AM).

TUNING <</>

Selects the tuning frequency.

MEMORY

Stores the current FM/AM station as a preset.

PRESET </>

Selects a preset FM/AM station.

Note

Even when using a Yamaha tuner, certain components and features may not be available.

(1) Yamaha CD player control buttons

The following buttons can be used to control a Yamaha CD player.

Refer to your component's owner's manual for more information.

$\triangleleft \triangleleft$	Rewinds playback		
$\triangleright \triangleright$	Fast-forwards playback		

DISC SKIP Skips to the next disc in a CD changer

(A-S501/S301 only)

DD Pauses playback

Skips backward

Skips forward

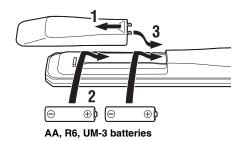
Starts playback

□ Stops playback

Note

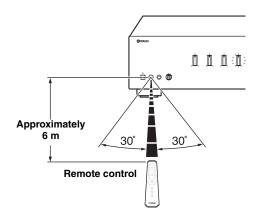
Even when using a Yamaha CD player, certain components and features may not be available.

■ Installing batteries



Operation range

Point the remote control at the remote control sensor on this unit and remain within the operating range shown below.



Notes on remote control and batteries

- The area between the remote control and this unit must be clear of large obstacles.
- Be careful not to spill water or other liquids on the remote control.
- Be careful not to drop the remote control.
- Do not leave or store the remote control in the following conditions:
 - places of high humidity, such as near a bathroom
 - places of high temperatures, such as near a heater or stove
 - places of extremely low temperatures
 - dusty places
- Change all batteries if you notice the operation range of the remote control narrows.
- · If the batteries run out, immediately remove them from the remote control to prevent an explosion or acid leak.
- If you find leaking batteries, discard the batteries immediately, taking care not to touch the leaked material. If the leaked material
 comes into contact with your skin or gets into your eyes or mouth, rinse it away immediately and consult a doctor. Clean the battery
 compartment thoroughly before installing new batteries.
- · Do not use old batteries together with new ones. This may shorten the life of the new batteries or cause old batteries to leak.
- Do not use different types of batteries (such as alkaline and manganese batteries) together. Batteries that look the same may have a different specification.
- Dispose of batteries according to your regional regulations.
- Keep the batteries in a location out of reach of children.
 Batteries can be dangerous if a child were to put in his or her mouth.
- If you plan not to use this unit for a long period of time, remove the batteries from this unit. Otherwise, the batteries will wear out, possibly resulting in a leakage of battery liquid that may damage this unit.

CONNECTIONS

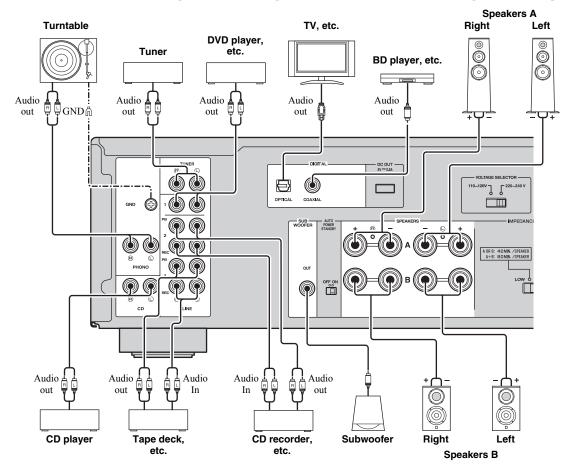
Connecting speakers and source components

Make sure to connect L (left) to L, R (right) to R, "+" to "+" and "-" to "-". 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. Refer to the owner's manual for each of your components.

Make sure to use RCA cables or optical cable to connect audio components.

CAUTION

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



Only PCM signals can be input to the DIGITAL (OPTICAL/COAXIAL) jacks of this unit. For details on the supported PCM signals, see page 15.

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- The PHONO jacks are designed for connecting a turntable with an MM cartridge.
- Connect your turntable to the GND terminal to reduce noise in the signal. However, for some turntables, you may hear less noise without the GND connection.

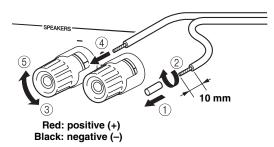
CONNECTIONS

■ REC jacks

- The audio signals are not output via the LINE 2 REC or LINE 3 REC output jacks when LINE 2 or LINE 3 is selected with the INPUT selector.
- The VOLUME, BASS, TREBLE, BALANCE and LOUDNESS controls and the CD DIRECT function (or the PURE DIRECT function) have no effect on the source being recorded.

■ Connecting speaker cables

- Remove approximately 10 mm of insulation from the end of each speaker cable.
- 2 Twist the bare wires of the cable firmly together.
- 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.

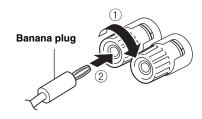


CAUTION

- Set the IMPEDANCE SELECTOR switch according to the impedance of the speakers to be connected (see page 5).
- Do not let bare speaker wires touch each other or any metal part of this unit. This could damage this unit and/ or the speakers.

Connecting via banana plug (North America, General, China and Australia models only)

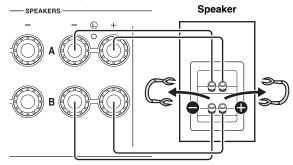
- (1) Tighten the knob.
- ② Insert the banana plug into the end of the corresponding terminal.



■ Bi-wire connection

In the case of speakers supporting the bi-wiring connection, the tweeter/midrange unit and woofer of the speakers can be driven independently through connections shown in the following figure, allowing you to enjoy clear mid- and high-range sounds.

Rear panel



Connect the other speaker to the other set of terminals in the same way.

Note

When making bi-wire connections, remove the shorting bridges or cables on the speaker. Refer to the speakers' instruction manuals for more information.

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To use the bi-wire connections, set the SPEAKERS selector on the front panel to the A+B BI-WIRING position.

Connecting power cable

CAUTION

(General model only)

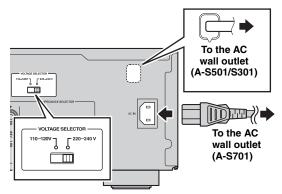
Before connecting the power cable, make sure you set VOLTAGE SELECTOR of this unit according to your local voltage. Improper setting of VOLTAGE SELECTOR may cause fire and damage to this unit.

■ AC IN (A-S701)

Connect the supplied power cable to AC IN after all other connections are complete.

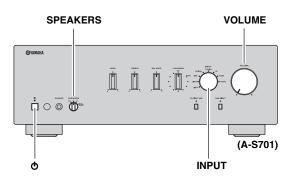
■ Power cable (A-S501/S301)

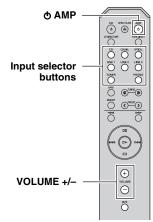
Connect the power cable to an AC wall outlet after all other connections are complete.



PLAYBACK

Playing a source





- 1 Rotate the VOLUME control on the front panel fully counter-clockwise so as not to play sounds loud suddenly.
- 2 Press \circ (power) switch on the front panel inward to turn on this unit.
- 3 Rotate the INPUT selector on the front panel (or press one of the Input selector buttons on the remote control) to select the input source you want to listen to.

The indicator for the selected input source lights up.

4 Rotate the SPEAKERS selector on the front panel to select SPEAKERS A, B or A+B BI-WIRING.

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Set the SPEAKERS selector to the A+B BI-WIRING position when two sets of speakers are connected using bi-wire connections, or when using two sets of speakers simultaneously (A and B).

- 5 Play the selected input source.
- 6 Rotate the VOLUME control on the front panel (or press VOLUME +/- on the remote control) to adjust the sound output level.

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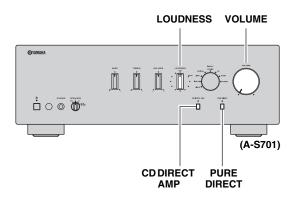
You can adjust to the desired sound by using the BASS, TREBLE, BALANCE and LOUDNESS controls, the CD DIRECT AMP button, or the PURE DIRECT button on the front panel.

When finished listening, press (power) switch on the front panel outward to turn off this unit.

`\o'_

If Φ AMP on the remote control is pressed while the Φ (power) switch on the front panel is in the on position, this unit enters standby mode. Press Φ AMP again to turn this unit on.

Adjusting to the desired sound



Making it easier to hear the high- and low-frequency ranges even at low volume (LOUDNESS)

Enjoy natural sound even at low volume by lowering the mid-range sound level and compensating for the human ears' loss of sensitivity to high- and low-frequency ranges at low volume.

CAUTION

If the CD DIRECT AMP function (or the PURE DIRECT function) is turned on with the LOUDNESS control set at a certain level, the input signals bypass the loudness control, resulting in a sudden increase in the sound output level. To prevent your ears or the speakers from being damaged, be sure to press the CD DIRECT AMP button (or the PURE DIRECT button) AFTER lowering the sound output level or AFTER checking that the LOUDNESS control is properly set.

- Set the LOUDNESS control to the FLAT position.
- 2 Rotate the VOLUME control on the front panel (or press VOLUME +/- on the remote control) to set the sound output level to the loudest listening level that you would listen to
- 3 Rotate the LOUDNESS control counterclockwise until the desired volume is obtained.

■ Reproducing pure, high fidelity sound (PURE DIRECT)

When the PURE DIRECT function is on, noise can be reduced by bypassing the circuit that the audio input signal is not using and stopping the power supply to the circuit.

Therefore, in all input sources, you can enjoy music playback in straight and high quality sound.

The indicator choice the PURE DIRECT button lights.

The indicator above the PURE DIRECT button lights up when this function is turned on.

Note

The BASS, TREBLE, BALANCE and LOUDNESS controls do not function while the PURE DIRECT function is turned on.

Reproducing CD sound with the highest sound quality (CD DIRECT AMP) (A-S701 only)

When selecting the input source other than CD, if you press the CD DIRECT AMP button, the input source switches to CD.

CD Direct Amp feature

Stop power supply to the unnecessary circuit for CD playback, convert the input signal to the normal phase and reverse phase, and balance transfer to the electronic volume. With the following effects, a more faithful sound to the original will be provided.

- · improved signal-to-noise ratio
- · external noise canceling
- reduced distortion

Notes

- The BASS, TREBLE, BALANCE and LOUDNESS controls do not function while the CD DIRECT AMP function is turned on.
- Be sure to connect the CD player to the CD input jacks if you use the CD direct function.
- The CD DIRECT AMP function is turned off if the following operation is performed.
 - Select an input source other than CD for the INPUT selector.
 - The PURE DIRECT function is turned on.

TROUBLESHOOTING

Refer to the chart below if this unit does not function properly. If the problem you are experiencing is not listed below or if the instructions below do not help, turn off this unit, disconnect the power cable, and then contact the nearest authorized Yamaha dealer or service center.

Problem	Cause	Remedy	See page
This unit fails to turn on.	The power cable is not connected or the plug is not completely inserted.	Connect the power cable firmly.	10
	The & AMP is pressed on the remote control while this unit is turned off.	Press 🖰 (power) switch on the front panel to on.	2
	The impedance setting of the connected speaker is too small.	Use speaker(s) with proper speaker impedance.	5
	The protection circuitry has been activated because of a short circuit, etc.	Check that the speaker wires are not touching each other and then turn the power of this unit back on.	10
	There is a problem with the internal circuitries of this unit.	Disconnect the power cable and contact the nearest authorized Yamaha dealer or service center.	
This unit turns off suddenly and the power indicator blinks.	The speaker wires are touching each other or shorting out against the rear panel.	Connect the speaker cables properly and press the & (power) switch again. The INPUT indicators blink and the volume is decreased to the lowest setting automatically, then the INPUT indicators stop flashing and the last input source selected lights up. Confirm normal sound output from speakers by increasing the volume gradually.	10
	The speaker is malfunctioning.	Replace the speaker set and press the & (power) switch again. The INPUT indicators blink and the volume is decreased to the lowest setting automatically, then the INPUT indicators stop flashing and the last input source selected lights up. Confirm normal sound from speakers by increasing the volume gradually.	-
	The protection circuitry has been activated because of excessive input or excessive volume level.	Rotate the VOLUME control on the front panel to decrease the volume level and then turn the power on again.	_
	The protection circuitry has been activated due to excessive internal temperature.	Allow about 30 minutes for the temperature inside this unit to decrease, rotate the VOLUME control on the front panel to lower the volume and then turn the power on again. Set the unit in a place where heat can readily dissipate from the unit.	_
	The IMPEDANCE SELECTOR switch is not fully slid to either position.	Turn the power off and slide the IMPEDANCE SELECTOR switch all the way to the correct position.	5
	The IMPEDANCE SELECTOR switch is not set to the correct position.	Set the IMPEDANCE SELECTOR switch to the position that corresponds to the impedance of your speakers.	5
	This unit has been exposed to a strong external electric shock (such as lightning or strong static electricity).	Turn off this unit, disconnect the power cable, plug it back in after 30 seconds, then use the unit normally.	_
	There is a problem with the internal circuitries of this unit.	Disconnect the power cable and contact the nearest authorized Yamaha dealer or service center.	_
No sound.	Sound is muted.	Press MUTE on the remote control or rotate the VOLUME control.	7
	Incorrect cable connections.	Connect the stereo cable for audio units and the speaker wires properly. If the problem persists, the cables may be defective.	9

TROUBLESHOOTING

Problem	Cause	Remedy	See page
No sound.	Playback has been stopped on the connected component.	Turn the component on and start playback.	11
	No appropriate input source has been selected.	Select an appropriate input source with the INPUT selector on the front panel (or one of the Input selector buttons on the remote control).	11
	The SPEAKERS selector is not set properly.	Set the corresponding SPEAKERS selector to A, B or A+B BI-WIRING position.	11
	The output audio source setting on the connected component is not PCM.	Only PCM audio sources can be played via the DIGITAL (OPTICAL/COAXIAL) jacks of this unit. Set the output audio source of the connected component to PCM.	16
The sound suddenly goes off.	The automatic power down function has activated.	Confirm that there are no other issues causing this problem, and then turn this unit on again. To turn off the AUTO POWER STANDBY function, set the AUTO POWER STANDBY switch to OFF on the rear panel.	4
Only the speaker on one side can be	Incorrect cable connections.	Connect the cables properly. If the problem persists, the cables may be defective.	9
heard.	Incorrect setting for the BALANCE control.	Set the BALANCE control to the appropriate position.	3
There is a lack of bass and no ambience.	The + and – wires are connected in reverse at the amplifier or the speakers.	Connect the speaker wires to the correct + and – phase.	10
A "humming" sound can be heard.			9, 10
	No connection from the turntable to the GND terminal.	Make the GND connection between the turntable and this unit.	9
The volume level cannot be increased, or the sound is distorted.	The component connected to the LINE 2 REC or LINE 3 REC jacks of this unit is turned off.		
The sound is degraded when listening with headphones connected to a CD player connected to this unit.	d when mode. with nes ed to a CD connected to		_
The sound level is low.	Sound is muted.	Press MUTE on the remote control or rotate the VOLUME control.	7
	The loudness control function is operating.	Turn down the volume, set the LOUDNESS control to the FLAT position, and then adjust the volume again.	
The volume level is low while playing a	The turntable is connected to the jacks other than the PHONO jacks.	Connect the turntable to the PHONO jacks.	9
record.	The record is being played on a turntable with an MC cartridge.	Use a turntable equipped with an MM cartridge.	9
Using the BASS, TREBLE, BALANCE and LOUDNESS controls does not affect the sound.	The CD DIRECT function or the PURE DIRECT function is turned on.	The CD DIRECT function or the PURE DIRECT function must be turned off to use those controls.	12

SPECIFICATIONS

AUDIO SECTION

lt	em	A-S701	A-S501	A-S301
	8 Ω, 20 Hz to 20 kHz, 0.019% THD	100 W + 100 W	85 W + 85 W	60 W + 60 W
Minimum RMS output power	6 Ω, 20 Hz to 20 kHz, 0.038% THD (Except for Asia and China models)	120 W + 120 W 100 W + 100 W		70 W + 70 W
	8 Ω	140 W	130 W	100 W
Dynamic power per channel (IHF)	6 Ω	170 W	150 W	120 W
Dynamic power per chaimer (IHF)	4 Ω	220 W	185 W	140 W
	2 Ω	290 W	220 W	150 W
Maximum power per channel	$\begin{array}{c} 1 \text{ kHz, } 0.7\% \text{ THD, } 4\Omega \\ \text{(U.K. and Europe models only)} \end{array}$	160 W	120 W	95 W
IEC power	1 kHz, 0.019% THD, 8 Ω (U.K. and Europe models only)	115 W	100 W	75 w
	0.04% THD, 50 W, 8 Ω	10 Hz to 50 kHz	_	_
Power band width	0.04% THD, 42.5 W, 8 Ω	_	10 Hz to 50 kHz	_
	0.04% THD, 30 W, 8 Ω	_	_	10 Hz to 50 kHz
Damping factor (SPEAKERS A)	1 kHz, 8 Ω	240 o	r more	210 or more
Maximum Effective Output Power (JEITA)	1 kHz, 10% THD, 8 Ω (Asia, China and General models only)	145 W	130 W	100 W
(JEHA)	1 kHz, 10% THD, 6 Ω (General model only)	170 W	_	_
Input sensitivity/Input impedance	PHONO (MM)	$3.0~\text{mV/47 k}\Omega$		
input sensitivity/input impedance	CD, etc.		$200~\text{mV}/47~\text{k}\Omega$	
Maximum input signal	PHONO (MM) (1 kHz, 0. 03% THD)		45 mV or more	
	CD etc. (1 kHz, 0.5% THD)		2.2 V or more	
	REC OUT		$200 \text{ mV}/1.0 \text{ k}\Omega$ or less	3
Output level/Output impedance	SUBWOOFER OUT (Cut Off Frequency: 100 Hz)		3.5 V/1.2 kΩ	
PHONES jack rated output/ Impedance	CD, etc. (Input 1 kHz, 200 mV, 8 Ω)	470 mV/470 Ω	430 mV/470 Ω	360 mV/470 Ω
	CD, etc. (20 Hz to 20 kHz)		$0 \pm 0.5 \text{ dB}$	
Frequency response	CD, etc. PURE DIRECT on (10 Hz to 100 kHz)	0 ± 1.0 dB		
RIAA equalization deviation	PHONO (MM)	± 0.5 dB		
	PHONO (MM) to REC OUT (20 Hz to 20 kHz, 2.5 V)		0.03 % or less	
Total harmonic distortion	CD, etc. to SPEAKERS (20 Hz to 20 kHz, 50 W, 8 Ω)	0.019 % or less	_	_
rotal harmonic distortion	CD, etc. to SPEAKERS (20 Hz to 20 kHz, 45 W, 8 Ω)	_	0.019 % or less	_
	CD, etc. to SPEAKERS (20 Hz to 20 kHz, 30 W, 8 Ω)	_	_	0.019 % or less

SPECIFICATIONS					
	Item		A-S701	A-S501	A-S301
Signal to noise ratio (IHF-A network)	PHONO (MM (5 mV input s	/	82 dB or more		
	CD, etc. PUR (200 mV inpu	E DIRECT on t shorted)	99 dB or more		
CD DIRECT AMP		AMP on	104 dB or more	_	_
Residual noise (IHF-A network)			40 μV		
Channel separation	CD, etc. (5.1 l 1 kHz)	$\kappa\Omega$ input shorted,	65 dB or more		
	CD, etc. (5.1 l 10 kHz)	kΩ input shorted,	50 dB or more		
Diag		Boost/ Cut (20 Hz)		± 10 dB	
	BASS	Turnover	400 Hz		

frequency

Turnover

frequency

Cut (20 kHz)

Boost/

TREBLE

PCM (2-ch)

Attenuation (1 kHz)

400 Hz

 $\pm 10 \text{ dB}$

3.5 kHz

- 30 dB

192/176.4/96/88.2/48/44.1/32 kHz

24 bit/16 bit

GENERAL

Tone control characteristics

Continuous loudness control

(OPTICAL/COAXIAL) PCM word depth

Supported digital audio format

Item		A-S701	A-S501	A-S301	
	U.S.A. and Canada models	AC 120 V, 60 Hz			
	Asia model	AC 220-240 V, 50/60 Hz			
	General model	AC 110-120 V/220-240 V, 50/60 Hz			
Power supply	China model	— AC 220 V, 50 Hz			
	Korea model	_	_	AC 220 V, 60 Hz	
	Australia model	AC 240 V, 50 Hz			
	U.K. and Europe models	AC 230 V, 50 Hz			
	U.S.A and Canada, General, Australia, U.K and Europe models	270 W	240 W	190 W	
Power consumption	Asia model	230 W	220 W	170 W	
•	China model	— 220 W 17		170 W	
	Korea model	_	_	190 W	
Standby power consumption			0.5 W		
Maximum power consumption	1 kHz 6 Ω 10% THD (General model only)	580 W 510 W		430 W	
Dimensions $W \times H \times D$		435 × 151 :	× 387 mm (17-1/8" × 6	" × 15-1/4")	
Weight	11.2 kg (24.7 lbs)	10.3 kg (22.7 lbs)	9.0 kg (19.8 lbs)		

Specifications are subject to change without notice.

Information for Users on Collection and Disposal of Old Equipment and Used Batteries



These symbols on the products, packaging, and/or accompanying documents mean that used electrical and electronic products and batteries should not be mixed with general household waste. For proper treatment, recovery and recycling of old products and used batteries, please take them to applicable collection points, in accordance with your national legislation and the Directives 2002/96/EC and 2006/66/EC.



By disposing of these products and batteries correctly, you will help to save valuable resources and prevent any potential negative effects on human health and the environment which could otherwise arise from inappropriate waste handling.



For more information about collection and recycling of old products and batteries, please contact your local municipality, your waste disposal service or the point of sale where you purchased the items.



[Information on Disposal in other Countries outside the European Union]

These symbols are only valid in the European Union. If you wish to discard these items, please contact your local authorities or dealer and ask for the correct method of disposal.

Note for the battery symbol (bottom two symbol examples):

This symbol might be used in combination with a chemical symbol. In this case it complies with the requirement set by the Directive for the chemical involved.

Pb

Important Notice: Guarantee Information for customers in EEA* and Switzerland

English

For detailed guarantee information about this Yamaha product, and Pan-EEA* and Switzerland warranty service, please either visit the website address below (Printable file is available at our website) or contact the Yamaha representative office for your country. * EEA: European Economic Area

http://europe.yamaha.com/warranty/

