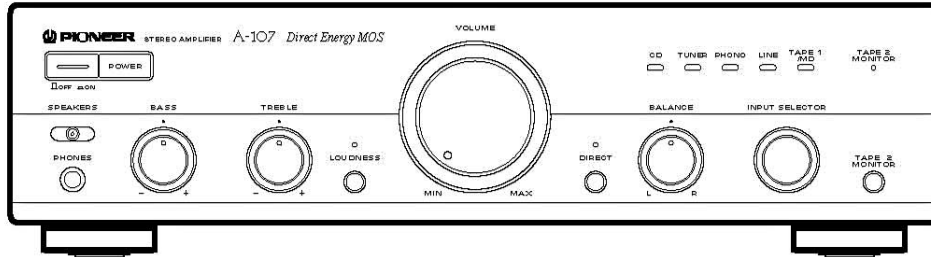


Operating Instructions

STEREO AMPLIFIER

A-107



Thank you for buying this PIONEER product.
Please read through these operating instructions so you will know how to operate your model properly. After you have finished reading the instructions, put them away in a safe place for future reference.
In some countries or regions, the shape of the power plug and power outlet may sometimes differ from that shown in the explanatory drawings. However, the method of connecting and operating the unit is the same.

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

This product complies with the Low Voltage Directive (73/23/EEC), EMC Directives (89/336/EEC, 92/31/EEC) and CE Marking Directive (93/68/EEC).

IMPORTANT



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.

CAUTION

**RISK OF ELECTRIC SHOCK
DO NOT OPEN**

CAUTION:

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



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

FOR USE IN THE UNITED KINGDOM

The wires in this mains lead are coloured in accordance with the following code:

Blue : Neutral
Brown : Live

If the plug provided is unsuitable for your socket outlets, the plug must be cut off and a suitable plug fitted.

The cut-off plug should be disposed of and must not be inserted into any 13 amp socket as this can result in electric shock. The plug or adapter or the distribution panel should be provided with a 5 amp fuse. As the colours of the wires in the mains lead of this appliance 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.

Do not connect either wire to the earth terminal of a three-pin plug.

NOTE

After replacing or changing a fuse, the fuse cover in the plug must be replaced with a fuse cover which corresponds to the colour of the insert in the base of the plug or the word that is embossed on the base of the plug, and the appliance must not be used without a fuse cover. If lost, replacement fuse covers can be obtained from your dealer.

Only 5 A fuses approved by B.S.I. or A.S.T.A to B.S. 1362 should be used.

 **PIONEER**[®]
The Art of Entertainment

Information to User

Alteration or modifications carried out without appropriate authorization may invalidate the user's right to operate the equipment.

POWER-CORD CAUTION

Handle the power cord by the plug. Do not pull out the plug by tugging the cord and never touch the power cord when your hands are wet as this could cause a short circuit or electric shock. Do not place the unit, a piece of furniture, etc., on the power cord, or pinch the cord. Never make a knot in the cord or tie it with other cords. The power cords should be routed such that they are not likely to be stepped on. A damaged power cord can cause fire or give you an electrical shock. Check the power cord once in a while. When you find it damaged, ask your nearest PIONEER authorized service center or your dealer for a replacement.

MAINTENANCE OF EXTERNAL SURFACES

- Use a polishing cloth or dry cloth to wipe off dust and dirt.
- When the surfaces are very dirty, wipe with a soft cloth dipped in some neutral cleanser diluted five or six times with water, and wrung out well, and then wipe again with a dry cloth. Do not use furniture wax or cleaners.
- Never use thinners, benzine, insecticide sprays or other chemicals on or near this unit, since these will corrode the surfaces.

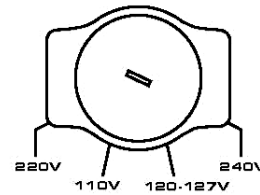
VOLTAGE SELECTOR SWITCH

Only multi-voltage model is provided with this switch. U.K., European, Australian and New Zealand models are not provided with this switch.

Main voltages in Saudi Arabia are 127 V and 220 V only. Never use this model with 110 V setting in Saudi Arabia.

The line voltage selector switch is on the rear panel. Check that it is set properly before plugging the power cord into the AC outlet. If the voltage is not properly set or if you move to an area where the voltage requirements differ, adjust the selector switch as follows.

1. Disconnect the power cord.
2. Use medium-size screwdriver.
3. Insert the screwdriver into the groove on the voltage selector and adjust so that the tip of the arrow points to the voltage value of your area.



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FEATURES

■ Direct Energy MOS Power Amp

Pioneer introduces amp circuitry featuring HEX power MOS FET devices for high performance. Together with Pioneer's original Wide Range Linear Circuit technology, this helps achieve reducing power consumption, while maintaining the power of current models.

In terms of performance, it contributes to flat damping factor characteristics across the audio spectrum, and improved power linearity.

■ High-power Output of 40W+40W/8Ω(DIN)

■ Wide-Range Linear Circuit

This new current feedback circuit assures improved operating stability for flat output impedance and stable driving of speakers across the full range of frequencies.

■ Low power consumption design.

■ Complementary capacitor pair.

INSTALLATION

LOCATION

Install the unit in a well-ventilated location where it will not be exposed to high temperatures or humidity.

Do not install the unit in a location which is exposed to direct rays of the sun, or near hot appliances or radiators. Excessive heat can adversely affect the cabinet and internal components. Installation of the unit in a damp or dusty environment may also result in a malfunction or an accident. (Avoid installation near cookers etc., where the unit may be exposed to oily smoke, steam or heat.)

Do not install the unit on a tottered stand, nor on an unstable or inclined surface.

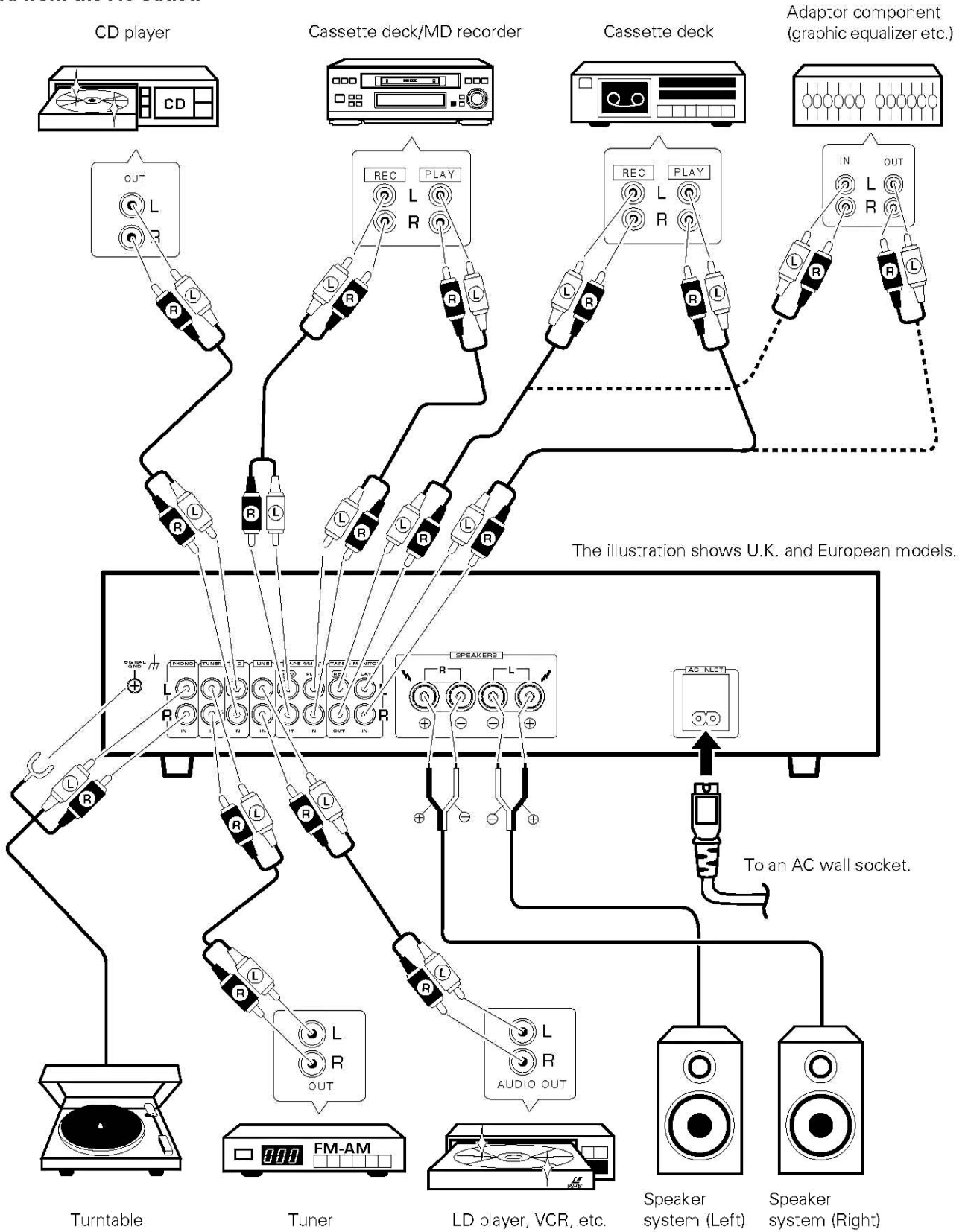
VENTILATION

- When installing this unit, make sure to leave space around the unit for ventilation to improve heat radiation (at least 60 cm at top, 10 cm at rear, and 30 cm at each side). If not enough space is provided between the unit and walls or other equipment, heat will build up inside, interfering with performance or causing malfunctions.
- Do not place on a thick carpet, bed, sofa or fabric having a thick pile. Do not cover with fabric or other covering. Anything that blocks ventilation will cause internal temperature to rise, which may lead to breakdown or fire hazard.



CONNECTIONS

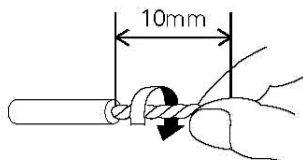
Before making or changing the connections, switch off the power switch and disconnect the power cord from the AC outlet.



The illustration shows U.K. and European models.

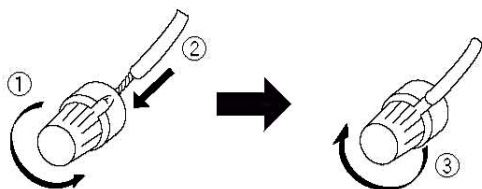
CONNECTING THE SPEAKER CORDS

1. Strip off the vinyl covering and twist the tip of the wire core.



Twist the wire core

2. Loosen the knob and insert the wire core into the terminal hole.
3. Tighten the knob to fix the wire core in place.



NOTE:

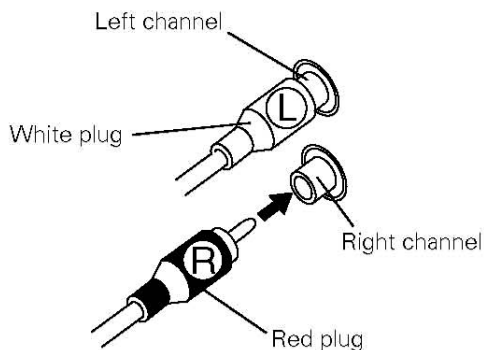
Do not allow any of the cord conductors to protrude from the terminals or touch any other conductors. Malfunctioning or breakdowns may occur when conductors come into contact with each other.

Speaker Impedance

The speaker systems used should have a rated impedance in the range of 6 - 16 Ω.

CONNECTING THE INPUT/OUTPUT CORDS

Connect the white plug to the L (left) channel, and the red plug to the R (right) channel. Be sure to push the plugs securely.



(Except for U.K., European, Australian and New Zealand models)

AC OUTLETS (SWITCHED TOTAL 100 W MAX)

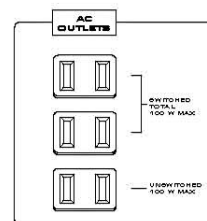
Power supplied through these outlets is turned on and off by the amplifier's POWER switch. Total electrical power consumption of connected equipment should not exceed 100 W.

AC OUTLETS (UNSWITCHED 100 W MAX)

Power flows continually to this outlet, regardless of whether the amplifier is switched to ON. Electrical power consumption of the connected equipment should not exceed 100 W.

NOTES:

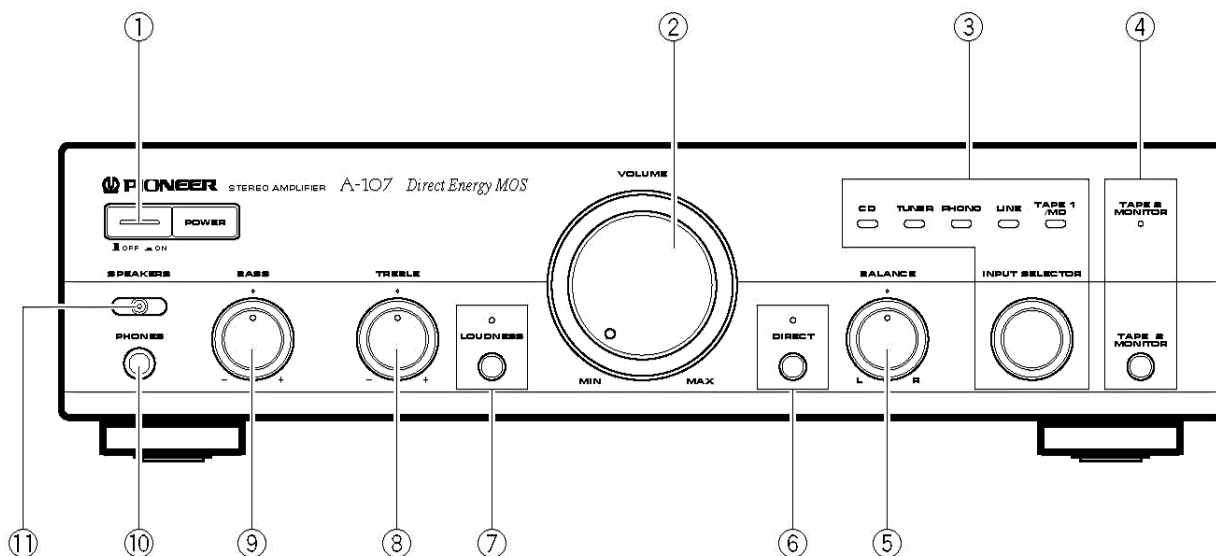
- The equipment should be disconnected by removing the power plug from the wall socket when not in regular use, e.g., when on vacation.
- Do not connect appliances with high power consumption such as heaters, irons, or television sets to the AC OUTLETS in order to avoid overheating or fire risk.



CAUTION:
DO NOT CONNECT A MONITOR OR TV SET TO THIS UNIT'S AC OUTLETS.

PANEL FACILITIES

[FRONT PANEL]



① POWER (■OFF/▲ON) switch

Press to turn power to the unit ON and OFF.

② VOLUME control

Use to adjust the volume level.

③ INPUT SELECTOR knob/indicators

Turn the knob clockwise or counterclockwise so that the indicator lights for your desired input source. Turning the knob clockwise causes the lit indicator to right. Turning counterclockwise causes it to left.

- CD** : For compact disc playback with a CD player.
- TUNER** : For AM or FM broadcast reception with a tuner.
- PHONO** : For record playback with a turntable.
- LINE** : Set to this position when listening to the program from a component connected to the LINE terminals.

TAPE 1/MD : For playback with a cassette deck or MD recorder connected to the TAPE 1/MD terminals.

④ TAPE 2 MONITOR button/indicator

Use when there is an adaptor component (graphic equalizer, etc.) or cassette deck connected to the TAPE 2 MONITOR terminals.

On : Indicator lights when using the adaptor component or listening to the cassette deck.

Off : Indicator goes off when not in use.

NOTES:

- When no connections are made to the TAPE 2 MONITOR terminals, or when they are not in use, be sure to set this switch to the off position. (No sound will be heard if it is set to the on position.)
- When the TAPE 2 MONITOR indicator is on and the INPUT SELECTOR knob is not set to TAPE 1/MD, the signals which are input through TAPE 2 MONITOR are then output at TAPE 1/MD REC OUT.

⑤ **BALANCE control**

Should normally be left in the center position. Adjust balance if the sound is louder from one of the speakers. If the right side is louder, turn toward the L (left) position and if the left side is louder, turn toward the R (right) position.

NOTE:

This control does not operate when the DIRECT button is in the on position.

⑥ **DIRECT button/indicator**

Use this button when you do not wish to pass the output from input terminal equipment through the various frequency adjusting circuits (BASS, TREBLE, BALANCE, LOUDNESS).

On : The indicator lights: The signals passing through the input terminals are reproduced without passing through the various frequency adjusting circuits. This results in flat, pure sound which is a more faithful reproduction of the input source.

Off : The indicator goes off: The signal passes through the various frequency adjusting circuits.

⑦ **LOUDNESS button/indicator**

Use when listening at low volume levels.

On : The indicator lights: Boosts low and high frequencies to give added punch to playback even at a low volume level.

Off : The indicator goes off: Should normally be left in this position.

NOTE:

This button does not operate when the DIRECT button is in the on position.

⑧ **TREBLE tone control**

Use to adjust the high-frequency tone. The center position is the flat (normal) position. When turned to the right, high-frequency tones are emphasized; when turned to the left, high-frequency tones are de-emphasized.

NOTE:

This control does not operate when the DIRECT button is in the on position.

⑨ **BASS tone control**

Use to adjust the low-frequency tone. The center position is the flat (normal) position. When turned to the right, low-frequency tones are emphasized; when turned to the left, low-frequency tones are de-emphasized.

NOTE:

This control does not operate when the DIRECT button is in the on position.

⑩ **PHONES jack**

When using headphones, insert the plug into this jack.

NOTE:

The speakers continue to output sound even when headphones are plugged into this jack.

To mute the sound from the speakers, press the SPEAKERS button to OFF.

⑪ **SPEAKERS button/indicator**

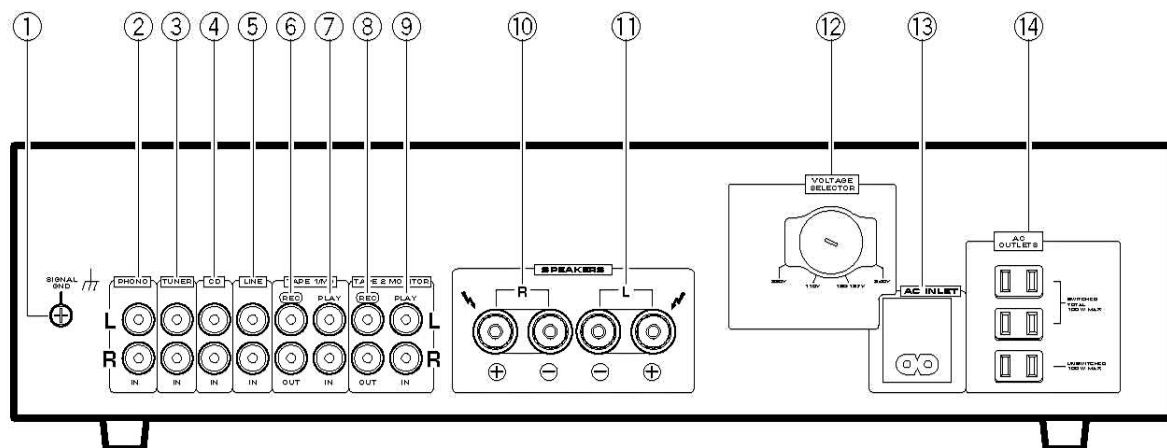
Use this button to listen to the speaker system connected to the SPEAKERS terminals.

On : The indicator lights. Sound is heard from the speaker system.

Off : The indicator goes off. No sound is heard from the speaker system. Set to this position when listening with headphones.

PANEL FACILITIES

[REAR PANEL]



- ① **GND (Turntable ground) terminal**
- ② **PHONO terminals**
- ③ **TUNER terminals**
- ④ **CD terminals**
- ⑤ **LINE terminals**
- ⑥ **TAPE 1/MD REC (OUT) terminals**
- ⑦ **TAPE 1/MD PLAY (IN) terminals**
- ⑧ **TAPE 2 MONITOR REC (OUT) terminals**
- ⑨ **TAPE 2 MONITOR PLAY (IN) terminals**
- ⑩ **SPEAKERS terminals (Right channel)**
- ⑪ **SPEAKERS terminals (Left channel)**
- ⑫ **VOLTAGE SELECTOR (Except for U.K., European, Australian and New Zealand models)**

⑬ **AC INLET jack**

Connect one end of the power cord to here and the other end to an AC wall socket, or the AC outlet of an audio timer. If you are going to be away from home for a long period of time, disconnect the unit from the wall socket.

NOTES:

- If you use an other power cord than provided, we cannot assume the liabilities in what may occur as a result of it.
- (The provided power cord has a current capacity of 2.5 A.)

⑭ **AC OUTLETS (see page 5) (Except for U.K., European, Australian and New Zealand models)**

NOTES:

- This unit should be disconnected by removing the power plug from the wall socket when not in regular use, e.g. when on vacation.
- Do not connect appliances with high power consumption such as heaters, irons, or television sets to this AC OUTLET in order to avoid overheating and fire risk. This can also cause the receiver to malfunction.

OPERATIONS

BEFORE BEGINNING OPERATIONS

1. Set the **VOLUME** control to minimum.
2. Set the **POWER** switch to **ON**.
3. Press the **SPEAKERS** switch to **ON**.
4. Set the **BALANCE** control to the center position.
5. Set the **DIRECT** button to off.
6. Set the **TAPE 2 MONITOR** button to off.

PLAYBACK PROCEDURES

1. Set the **INPUT SELECTOR** knob to the desired playback source.
 - For playback of a compact disc: Set to [CD].
 - For reception of an AM/FM broadcast: Set to [TUNER].
 - For playback of a record: Set to [PHONO].
 - For playback with the equipment connected to the LINE terminals: Set to [LINE].
 - For playback of a tape: Set to [TAPE 1/MD].

NOTES:

- When you do not want to monitor the **TAPE 2 MONITOR** sound, set the **TAPE 2 MONITOR** button to **OFF**.
 - When you select **PHONO**, the sound is muted for a few seconds.
2. Operate the equipment to begin playback.
 3. Adjust playback volume with the **VOLUME** control on this unit.
 4. Adjust the tone to your preference using the **BASS** and **TREBLE** controls, and **LOUDNESS** button.

RECORDING TAPES

1. Select the recording equipment with the **INPUT SELECTOR** knob.
2. Begin recording by operating the recording equipment and cassette deck.

Refer to the operating instructions of your cassette deck for proper operating procedures.

COPYING TAPES

When two decks are used, you can record the sounds from one deck onto the other.

Application examples:

- To make a tape copy with contents identical to the original tape.
- To edit a recording of an FM broadcast in order to cut out unwanted commercials, recording only of desired material onto another tape.

1. Load tapes for playback (pre-recorded tape) and recording (blank tape) into the respective cassette decks.

2. Select the copying direction with the **INPUT SELECTOR** knob and **TAPE 2 MONITOR** button.

- When copying from the cassette deck of the **TAPE 1/MD** terminals to the cassette deck of the **TAPE 2 MONITOR** terminals: Set the **INPUT SELECTOR** knob to **TAPE 1/MD**.
- When copying from the cassette deck of the **TAPE 2 MONITOR** terminals to the cassette deck of **TAPE 1/MD** terminals: Set the **TAPE 2 MONITOR** button to **ON** and the **INPUT SELECTOR** knob to a position other than **TAPE 1/MD**.

3. Operate the cassette decks to begin copying.

Set the cassette deck with the original (playback) tape to the playback mode, and set the cassette deck with the blank tape to the recording mode.

OPERATIONS

TO USE THE COMPONENT CONNECTED TO THE TAPE 2 MONITOR TERMINALS

[For a cassette deck]

- A cassette deck connected here can be operated in the same way (recording and playback) as a deck connected to the TAPE 2 MONITOR terminals.
- Also, if two decks are used, you can copy tapes from one deck onto the other (see the section on "COPYING TAPES").

1. Set the TAPE 2 MONITOR button to ON.
2. Operate the cassette deck to perform playback (or recording).

NOTE:

The source selected with the INPUT SELECTOR knob is backed up for a few days even when the POWER switch is set to off or the power cord is unplugged.

After this period, the CD is automatically selected when the power is supplied.

[For an adaptor component]

By connecting a graphic equalizer, source sounds (from discs, tapes, AM/FM broadcasts, etc.) can be heard with added sound and tone compensation.

Sounds compensated with the adaptor component can be recorded on the cassette deck connected to the TAPE 1/MD terminals.

1. Set the TAPE 2 MONITOR button to ON.
2. Play back the source.
3. Operate the adaptor component.

NOTE:

Be sure to perform this operation with the adaptor component power switch in the on position. Even when not using the adaptor component, its power switch must be left on. If the adaptor component is switched off, no sound will be produced, or the playback sound will be distorted.

TROUBLESHOOTING

Incorrect operations are often mistaken for trouble and malfunctions. If you think that there is something wrong with this component, check the points below. Sometimes the trouble may lie in another component. Investigate the other components and electrical appliances being used.

If the trouble cannot be rectified even after exercising the checks listed below, ask your nearest PIONEER authorized service center or your dealer to carry out repair work.

Symptom	Cause	Remedy
No power supplied to unit.	<ul style="list-style-type: none"> ● Power plug is disconnected from outlet. ● The amplifier's power plug has been plugged into another component's power outlet (e.g. timer, etc.) but power to that unit is disconnected. ● The AC INLET plug is disconnected. 	<ul style="list-style-type: none"> ● Insert plug securely into outlet. ● Turn on power to other component. ● Insert the AC INLET plug securely till the bottom of the jack.
No sound.	<ul style="list-style-type: none"> ● Connecting cords are disconnected from terminals, or connected incorrectly. ● Terminals, or connecting cords pin plugs are dirty. ● The TAPE 2 MONITOR button is set to ON (except when using an adaptor component). ● Operation of other components is incorrect. ● The position of the INPUT SELECTOR does not match the component to be played back. ● SPEAKERS button is set to OFF. 	<ul style="list-style-type: none"> ● Connect securely. ● Clean terminals and plugs. ● Set the button to OFF. ● Consult the operating instructions for the other components. ● Set the button correctly (CD, TUNER, PHONO, LINE, TAPE 1/MD). ● Set the button to ON.
No sound from one speaker.	<ul style="list-style-type: none"> ● Connecting cords or speaker cords are disconnected on that side. ● BALANCE control is set to one side. 	<ul style="list-style-type: none"> ● Connect securely. ● Set BALANCE control to center position.
Cannot record tapes.	<ul style="list-style-type: none"> ● Connections are incorrect. ● Operation of cassette deck is incorrect. ● The TAPE 2 MONITOR button is set to ON. 	<ul style="list-style-type: none"> ● Reconnect properly. ● Consult the operating instructions for the cassette deck. ● Set the TAPE 2 MONITOR button to OFF.
Cannot perform tape copying.	<ul style="list-style-type: none"> ● The position of the INPUT SELECTOR knob and TAPE 2 MONITOR button are incorrect (when using 2 cassette decks). ● Operation of cassette decks is incorrect. 	<ul style="list-style-type: none"> ● Set buttons correctly. (See section COPYING TAPES.) ● Consult the operating instructions for the cassette decks.

Abnormal functioning of this unit may be caused by, static electricity, or other external interference. To restore normal operation, turn the power off and then on again, or unplug the AC power cord and then plug it in again.

SPECIFICATIONS

Amplifier Section

Continuous power output (both channels driven at 20 Hz to 20 kHz)**	
T.H.D. 0.1 %, 8 Ω	30 W*
DIN Continuous power output (both channels driven at 1 kHz)	
T.H.D. 1.0 %, 8 Ω	40 W + 40 W
Total harmonic distortion**	
20 Hz to 20 kHz, 15 W, 8 Ω	0.08 %*
● The above values for U.K. and European models are applicable when AC 230 V power is supplied.	
Input sensitivity/ impedance	
PHONO (MM)	2.8 mV/ 50 k Ω
CD, TUNER, LINE, TAPE 1/MD, TAPE 2 MONITOR	
.....	200 mV/ 50 k Ω
PHONO (MM) overload level	
1 kHz, T.H.D. 0.1 %	150 mV
Output level/ impedance	
TAPE 1 REC, TAPE 2 MONITOR REC	200 mV/ 1 k Ω
Frequency response	
PHONO (MM)	20 Hz to 20 kHz \pm 0.5 dB
CD, TUNER, LINE, TAPE 1/MD, TAPE 2 MONITOR	
.....	5 Hz to 100kHz \pm 3 dB*
Tone control	
BASS	\pm 8 dB (100 Hz)
TREBLE	\pm 8 dB (10 kHz)
Loudness contour (volume control set at - 30 dB position)	
.....	+ 6 dB (100 Hz)/ + 4 dB (10 kHz)
Signal-to-Noise ratio (IHF short circuit, A network)	
PHONO (MM, 5 mV input)	85dB*
CD, TUNER, LINE, TAPE 1/MD,	
TAPE 2 MONITOR	106 dB*
Signal-to-Noise ratio (DIN, continuous power/ 50 mW)	
PHONO (MM)	71 dB/ 67 dB*
CD, TUNER, LINE, TAPE 1/MD, TAPE 2 MONITOR	
.....	91 dB/ 71 dB*

Power Supply/ Miscellaneous

Power requirements	
U.K. and European models	AC 220 - 230 V, 50/60 Hz
Australian and NewZealand models	
.....	AC 240 V, 50/60 Hz
Multi-voltage model ..	AC 110 V/120 - 127 V/220 V/240 V, (switchable), 50/60 Hz
Power consumption	
U.K. and European models	80 W
Australian, NewZealand	
and Multi-voltage models	190 W
Dimensions (including knobs and other protruding parts)	
.....	420 (W) X 114 (H) X 307 (D) mm
Weight (without package)	4.3 kg

Accessories

Operating Instructions	1
Power cord (Rated current 2.5 A)	1
Warranty card (Except for Multi-voltage model)	1

NOTE:

Specifications and design are subject to possible modification without notice, due to improvements.

* Measured with DIRECT button set to on.

** Measured by Audio Spectrum Analyzer.

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