

STEREO INTEGRATED AMPLIFIER

KA-76

INSTRUCTION MANUAL

KENWOOD

FILE

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88/6 5 4 3 2 1 87/12 11 10 9 8 7 6 5 4 3 2

Rear panel safety precautions

<p>CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN</p>	<p>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.</p>
	<p>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.</p>
	<p>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.</p>

Before applying power

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 _____

Unpacking

Unpack the unit carefully and make sure that all accessories are put aside so they will not be lost.

Examine the unit for any possibility of shipping damage. If your unit is damaged or fails to operate, notify your dealer immediately. If your unit was shipped to you directly, notify the shipping company without delay. Only the consignee (the person or company receiving the unit) can file a claim against the carrier for shipping damage.

We recommend that you retain the original carton and packing materials for use should you transport or ship the unit in the future.

Important!

U.S.A. and Canada

Units shipped to the U.S.A. and Canada are designed for operation on 120 volts AC only. These units are not equipped with an AC voltage selector switch and the discussion of such a switch that follows should be disregarded.

All other countries

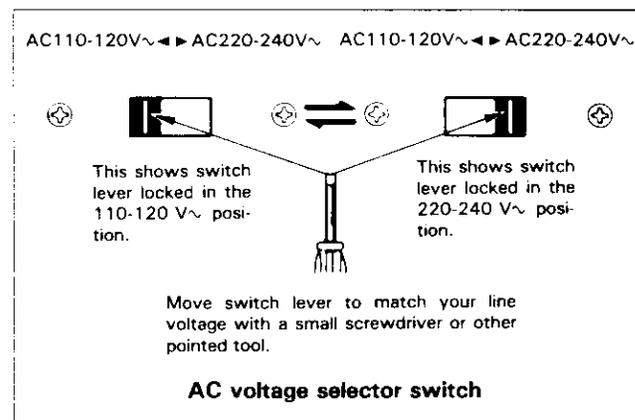
Units shipped to countries other than the U.S.A. and Canada are equipped with an AC voltage selector switch on the rear panel. Refer to the following paragraph for the proper setting of this switch.

AC voltage selection

This unit operates on 110-120 or 220-240 volts AC. The AC voltage selector switch on the rear panel is set to the voltage that prevails in the area to which the unit is shipped. Before connecting the power cord to your AC outlet, make sure that the setting position of this switch matches your line voltage. If not, it must be set to your voltage in accordance with the following direction.

Note:

Our warranty does not cover damage caused by excessive line voltage due to improper setting of the AC voltage selector switch.



Safety precaution for AC plug (for U.S.A and Canada)

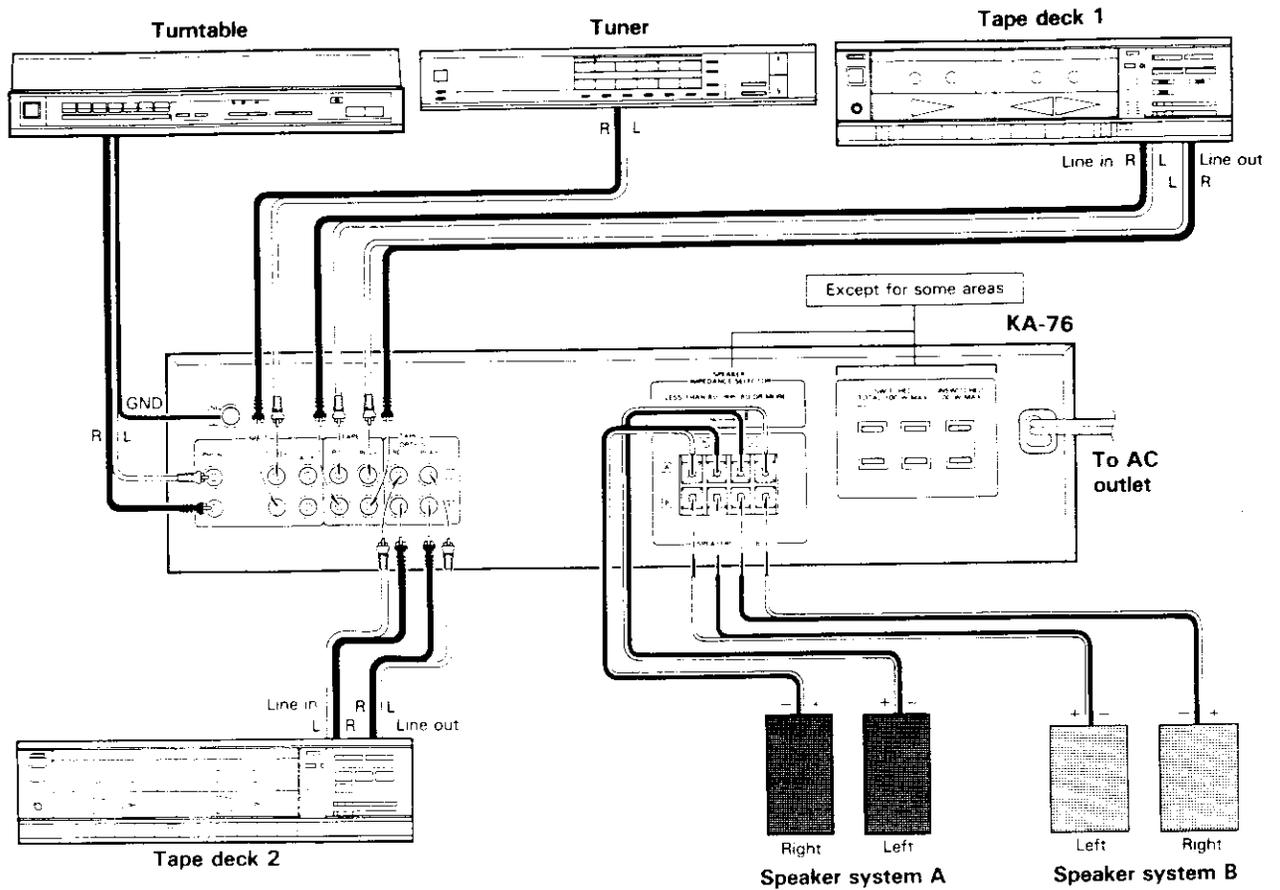
CAUTION:

TO PREVENT ELECTRIC SHOCK DO NOT USE THIS (POLARIZED) PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

WARNING:

TO PREVENT FIRE OR ELECTRIC SHOCK. DO NOT EXPOSE THIS AP-

System connections



Speakers

This amplifier has two pairs of speaker terminals, SPEAKERS A and SPEAKERS B.

Connecting one speaker system

Connect speakers rated at 8 ohms or more (USA and Canada) 4 ohms or more (Others) to the SPEAKERS A terminals.

Connecting two speaker systems

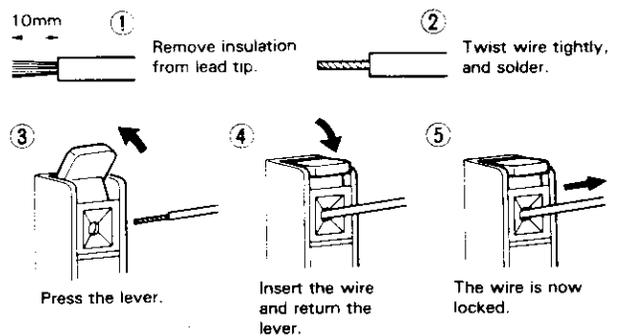
To connect an additional pair of speakers, use the B terminals. In this case, each speaker must be rated at 8 ohms or more (USA and Canada) 4 ohms or more (Others).

Connection with speaker cords

1. Connect the left speaker to the L SPEAKERS terminals and the right speaker to the R SPEAKERS terminals.
2. Be careful that wires do not contact adjacent terminals.
3. Be sure to connect the (+) terminal of the speaker to the (+) terminal of the amplifier.

Never short the (+) and (-) terminals.

Erroneous connection of speakers may result in poor imaging or unnatural sound.

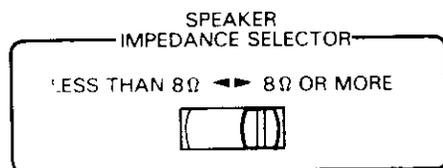


Speaker lead connection

Setting **SPEAKER IMPEDANCE SELECTOR** (Except for some areas.)

According to the impedance of the speakers used, set the **SPEAKER IMPEDANCE SELECTOR** at rear as follows.

- 4 Ω , 6 Ω — "LESS THAN 8 Ω "
- 8 Ω , 16 Ω — "8 Ω OR MORE"



Notes:

1. During speaker system connection and operation of **SPEAKER IMPEDANCE SELECTOR**, set the **POWER** switch to **OFF**.
2. Check that the connected lead wires of the speaker systems do not contact with other jacks or terminals.

Turntable

The **PHONO** jacks of the amplifier can accept a turntable with an **MM** type phono-cartridge.

Your stereo turntable has **RCA** pin-plug cords that is terminated with phono plugs. Plug the left channel plug into the **L** and the right channel plug into the **R** **PHONO** jacks.

If the turntable has a ground wire, connect it to the unit's **GND** terminal to avoid hum.

Tuner

Use the **TUNER** jacks for connection to an **FM** stereo or **AM-FM** stereo tuner.

Connect the left channel of the tuner to the **L** **TUNER** input jack and the right channel of the tuner to the **R** **TUNER** input jack.

CD/AUX

To these jacks, high-level signal sources such as, **CD** player, tuner, extra tape decks, **TV**, **VTR** sound outputs, etc. can be connected.

Ground

For maximum safety and minimum interference connect the **GND** terminal to a good earth ground if practicable. A good earth ground is a cold water pipe or a metal stake driven into moist earth. However, never use a gas pipe for this purpose.

Tape deck

If only one tape deck is to be connected to the system it is recommended that it be connected to the jacks marked **TAPE 1**.

Tape deck input and output cables are normally terminated with phono plugs.

Playback

Plug the left and right output cables of the tape deck into the **L** and **R** **TAPE 1** **PLAY** jacks.

Record

Plug the left and right input cables of the tape deck into the **L** and **R** **TAPE 1** **REC** jacks.

Second tape deck

Plug the input and output cables from the second tape deck into the **REC** and **PLAY** jacks marked **TAPE 2**.

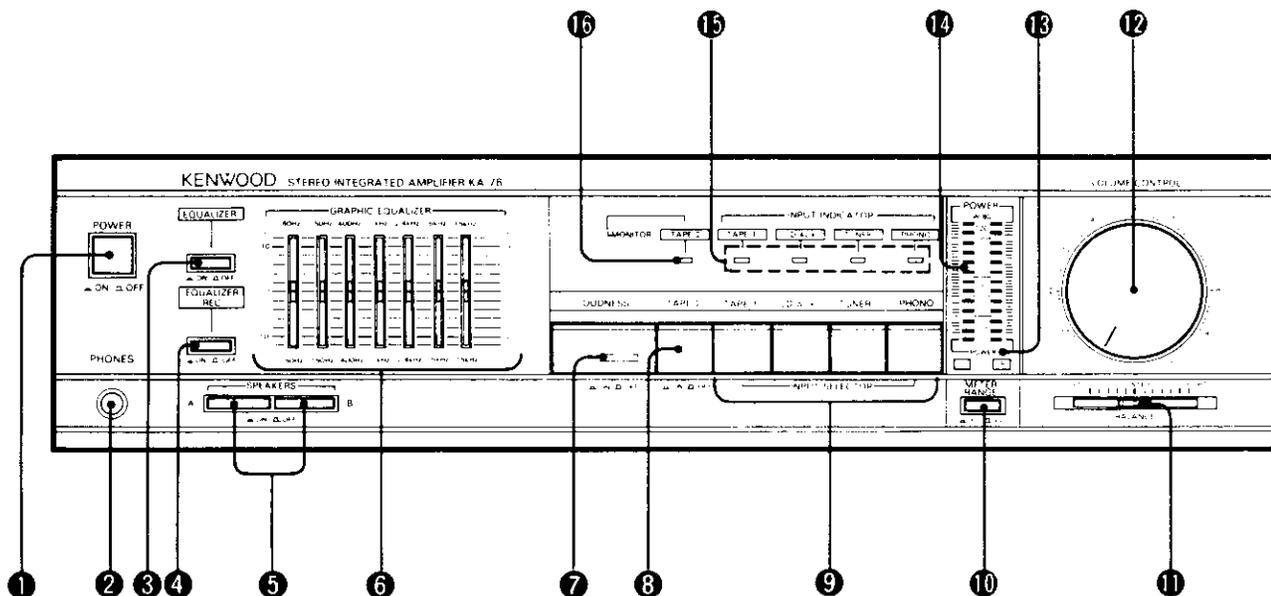
AC outlets (Except for some areas.)

The **AC** outlets on the rear panel of the power supply unit may be used to supply power to other components in the system, such as turntables, tape decks, etc. Never connect equipment whose power consumption exceeds the maximum value shown at each outlet.

1. SWITCHED outlets: These outlets supply power only when the unit is turned on. The maximum total capacity (both outlets) is 100 watts.

2. UNSWITCHED outlet: The outlet provides power when the unit is plugged into an active **AC** wall outlet, regardless of the setting of the **POWER** switch. The maximum capacity is 100 watts.

Controls and indicators



1 POWER switch

Press this switch to turn on power. Press it again to turn power off.

2 PHONES jack

Stereo headphones are plugged into this jack.

3 EQUALIZER switch

Set this switch to ON to activate the graphic equalizer circuitry. When this switch is set to OFF, a flat frequency response is obtained regardless of the GRAPHIC EQUALIZER control setting.

4 EQUALIZER REC switch

Set this switch to ON to record an equalized sound onto the tape deck connected to TAPE 1 REC jacks. When this switch is set to OFF, the sound with a flat frequency response is recorded onto the tape deck connected to TAPE 1 REC jacks.

5 SPEAKERS switch

A, B OFF — This position silences all speakers to permit private use of headphones.

A ON — Activates speakers connected to the SPEAKERS A terminals on the rear panel.

B ON — Activates speakers connected to the SPEAKERS B terminals on the rear panel.

A, B ON — Activates speakers connected to the SPEAKERS A and B terminals simultaneously.

Note:

When either SPEAKERS A or B terminals are connected to speakers and the SPEAKER switches A and B are set to ON, sound cannot be heard.

6 GRAPHIC EQUALIZER controls

When the EQUALIZER switch is set to ON, use these controls to adjust the sound quality as your preference.

7 LOUDNESS switch

ON () — Bass notes are boosted at low listening levels. This precisely offsets a characteristics of human hearing whereby we are less sensitive to bass notes at very low listening levels.

OFF () — The low-level bass boost is removed and the VOLUME control provides flat response at all settings.

8 TAPE-2 selector switch

To listen to a source of the tape deck, etc., connected to the TAPE 2 jacks, press this switch.

Note:

The TAPE-2 selector switch has a priority over the input selector switches. To listen to the source other than tape deck 2, be sure to set this switch to OFF.

9 INPUT SELECTOR

TAPE-1 — Press this switch to play back a tape deck connected to TAPE 1 jacks.

CD/AUX — Selects the source connected to the CD/AUX jacks.

TUNER — Selects the tuner connected to the TUNER jacks.

PHONO — Selects the program source played on the turntable.

Note:

When TAPE-1 and TAPE-2 switches are pressed, TAPE-2 setting has priority.

10 METER RANGE button

- × **0.1** — Use this setting for normal operation.
- × **1** — Use this setting when the VOLUME control is adjusted for a very high volume level.

11 BALANCE control

This control permits balancing of left and right channels when an imbalance exists from the sound source, or to correct acoustic imbalance due to room conditions. Slide it to the left from the CENTER position to boost the left channel; slide it to the right of the CENTER position to raise the level of the right channel.

12 VOLUME CONTROL

This control adjusts left- and right-channel volume simultaneously. Set it for the desired listening level.

13 POWER INDICATOR

Lights when the POWER switch is set to ON.

14 POWER meters

These meters show the power being delivered to your speakers.

15 INPUT INDICATORS

The indicator lights corresponding to the INPUT SELECTOR switch pressed.

16 TAPE MONITOR indicators

TAPE-2 — Lights when the TAPE-2 switch is pressed.

Operating instructions

Volume, tone, balance and loudness

1. Adjust bass and treble to suit your taste.
2. If an imbalance occurs (the left or right channel appears louder than the other) due to source imbalance or room acoustics, adjust the BALANCE control to equalize the sound from both speakers.
3. If you customarily listen at low listening levels, set the LOUDNESS switch to ON. If not, set it to the OFF position.

Playing a program source selected by an INPUT SELECTOR switch

1. Press the INPUT SELECTOR switch or TAPE-2 switch of the program source to be played.
2. Operate the system of the program and set it to playback mode.
3. Adjust the volume to your preference.

To equalize a program source selected by an INPUT SELECTOR switch or TAPE-2 switch.

1. Press the INPUT SELECTOR switch or TAPE-2 switch.
2. Set the EQUALIZER switch to ON.
3. Operate the system of the program and set it to play mode.
4. Adjust the GRAPHIC EQUALIZER controls and volume to your preference.

Tape decks

Tape playback

1. Press the appropriate TAPE switch (1 or 2) to select output from a tape deck connected to the TAPE 1 or 2 jacks.
2. Operate the tape deck.
3. Adjust the volume to your preference.

Tape playback (with built in equalization)

1. Press the appropriate TAPE switch (1 or 2) to select output from a tape deck connected to TAPE 1 or 2 jacks.
2. Set the EQUALIZER switch to ON.
3. Operate the tape deck.
4. Adjust the GRAPHIC EQUALIZER controls and volume to your preference.

Note:

When both switches (TAPE-1 and TAPE-2) are pressed, TAPE-2 setting has priority.

Recording

1. Press the appropriate INPUT SELECTOR switches.
2. Set up your tape deck(s) for recording and set the recording level with the controls on your tape deck(s). The VOLUME do not affect the signal applied to the tape deck(s) for recording.
3. Adjust listening level to suit your listening preference.

Recording (with built in equalization)

1. Press the appropriate INPUT SELECTOR switch.
2. Set the EQUALIZER switch and EQUALIZER REC switch to ON.
3. Set tape deck 1 for recording and set the recording level with the controls on tape deck 1.
4. Adjust the GRAPHIC EQUALIZER controls to your preference.

5. Adjust listening level to suit your listening preference.

Note:

Recording with built in equalization is possible only with the tape deck connected to TAPE 1 jacks.

Tape-to-tape dubbing

● Dubbing from tape deck 1 to tape deck 2

1. Press the POWER switch.
2. Press the TAPE-1 input selector switch.
3. Set tape deck 1 to play and tape deck 2 to record.
4. To equalize the listening sound, press the EQUALIZER switch and adjust the GRAPHIC EQUALIZER controls.

Notes:

1. When TAPE-2 selector switch is pressed, the signal fed to tape deck 2 can be heard.
2. The recording sound cannot be equalized even when the EQ REC switch is pressed

● Dubbing from tape deck 2 to tape deck 1

1. Press the POWER switch.
2. Press TAPE-2 selector switch and the input selector switch other than TAPE-1.
3. Set tape deck 2 to play and tape deck 1 to record.
4. To equalize the recording sound, press the EQ REC switch and adjust the GRAPHIC EQUALIZER controls.

Notes:

1. Do not press TAPE-1 input selector switch during dubbing.
2. To listen to the equalize recording sound, press the EQUALIZER switch.

Sound equalization

● Super bass range (60 Hz)

When these controls are moved up, the bass instrument (double bass, bass drums or pipe organ, etc.) sound is increased.

When the super bass sound is boomy, move these controls down.

● Bass range (150 Hz)

Usually, the resonance frequency of the listening room is in this range.

To eliminate bass resonance, move these controls down.

● Mid-bass range (400 Hz)

This range is the basis of music. Whether the sound is rich or not, depends on this range. When the playback sound is not so good, adjust these controls.

● Mid range (1 kHz, 2.4 kHz)

When these controls are moved up or down, the bariton or soprano voice is emphasised/de-emphasised. This range is related to the "presence" of the music.

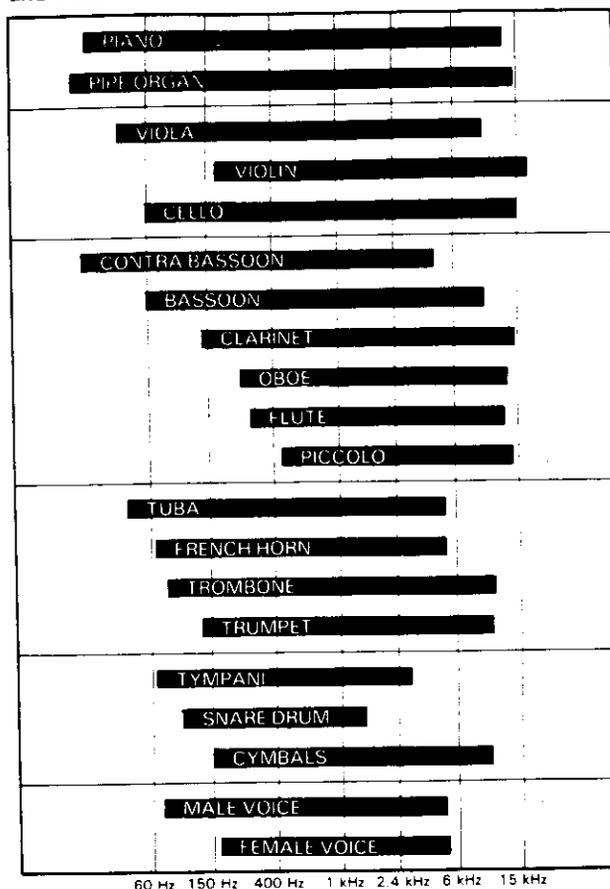
● High range (6 kHz)

This frequency range is related to the hardness of the sound. When this control is moved up, strings or brass, such as flute or piccolo, is emphasised. When the control is moved down, the sound will be more soothing.

● Super high range (15 kHz)

This frequency range is related to the details of the music. When these controls are moved up, super high frequency instruments, such as triangle or cymbal, are emphasized, resulting in wide sound and echoes.

Approximate frequency ranges for musical instruments and voice



In case of difficulty

If your unit should not perform as expected, consult the table below to see if the problem can be corrected before seeking help from your dealer or service representative.

Symptom	Cause	Remedy
No power, no sound.	<ol style="list-style-type: none">1. Power cord not plugged in.2. Poor connection at wall outlet. Power outlet inactive.	<ol style="list-style-type: none">1. Check plug contact.2. Check outlet using a lamp or other appliance (outlet may be controlled by a wall switch).
No sound from left and right.	<ol style="list-style-type: none">1. Speaker cords disconnected.2. Speakers switched off.	<ol style="list-style-type: none">1. Check speaker connections.2. Check speaker switch.
Sound from left or right, but not both.	<ol style="list-style-type: none">1. Poor speaker connections.2. Defective speaker.	<ol style="list-style-type: none">1. Check connections at both ends of speaker cord.2. Reverse speakers. If problem stays with speaker, have speaker checked.

Specifications

(IHF'66)

Power Amplifier Section Rated Power Output

100 watts per channel minimum RMS, both channels driven at 8 ohms from 20 Hz to 20,000 Hz with no more than 0.05% total harmonic distortion

Music Power Output at 8 ohms (Except for USA and Canada) ... 225 W + 225 W (450 W)

Total Harmonic Distortion

(AUX—SPKR 8 Ω)

at Rated Output, 20 Hz ~ 20,000 Hz 0.05%
at 1/2 Rated Output, 20 Hz ~ 20,000 Hz 0.04%
at 1/2 Rated Output, 1,000 Hz 0.004%

(PHONO—SPKR 8 Ω : at -20 dB VOLUME Level)

at Rated Output, 1,000 Hz 0.02%

Intermodulation Distortion (60 Hz:7 kHz = 4:1) 0.03% at rated power into 8 ohms

Damping Factor 30 (50 Hz)

Frequency Response 10 Hz to 70 kHz, +0 dB, -3 dB

Input Sensitivity/Impedance

Phono MM 2.5 mV/47 k ohms

TUNER, AUX., TAPE PLAY 150 mV/33 k ohms

Signal-to-Noise Ratio (IHF-A)

Phono MM 75 dB for 2.5 mV input

Phono MM 81 dB for 5.0 mV input

TUNER, AUX., TAPE PLAY 100 dB

Maximum Input Level for Phono (PHONO to TAPE REC)

MM 170 mV (RMS), T.H.D. 0.05% at 1 kHz

Output Level/Impedance

TAPE REC (Pin) 150 mV/330 ohms

Frequency Response for Phono RIAA standard curve ±0.5 dB (20 Hz to 20,000 Hz)

Power Bandwidth at, 0.2% T.H.D. 8 Ω 10 Hz ~ 100 kHz

Graphic equalizer control

(60 Hz, 150 Hz, 400 Hz, 1 kHz, 2.4 kHz, 6 kHz, 15 kHz) ±10 dB

Loudness Control (at -30 dB VOLUME Level) +8 dB at 100 Hz

General

Power Consumption 4 A (USA and Canada - UL and CSA)
220 W (Others)

AC Outlets Switched 2, Unswitched 1
(Except for some areas)

Dimensions W: 420 mm (16-9/16")
H: 110 mm (4-5/16")
D: 277 mm (10-7/8")

Weight (Net) 7.2 kg (15.84 lb)

Note:

We follow a policy of continuous advancements in development. For this reason specifications may be changed without notice.