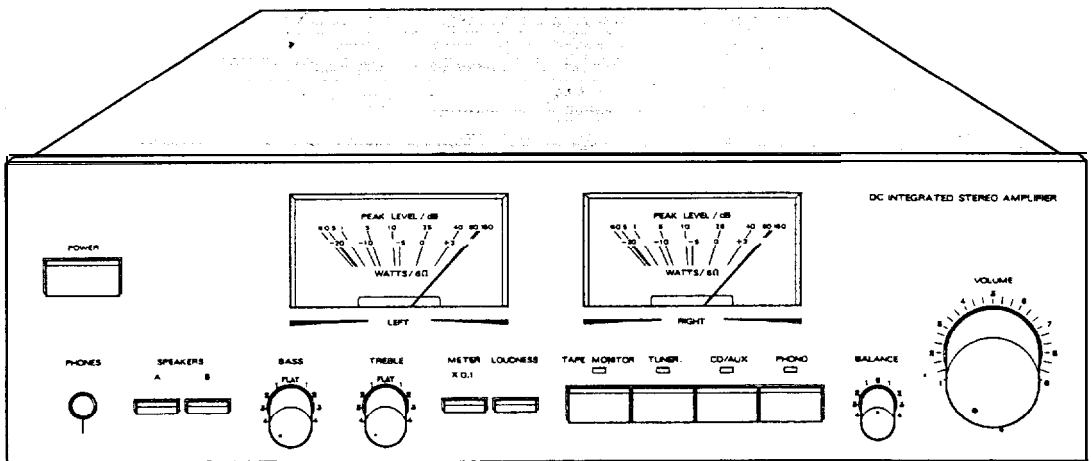


# DC INTEGRATED STEREO AMPLIFIER OWNER'S MANUAL



**CAUTION**  
RISK OF ELECTRIC SHOCK  
DO NOT OPEN



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

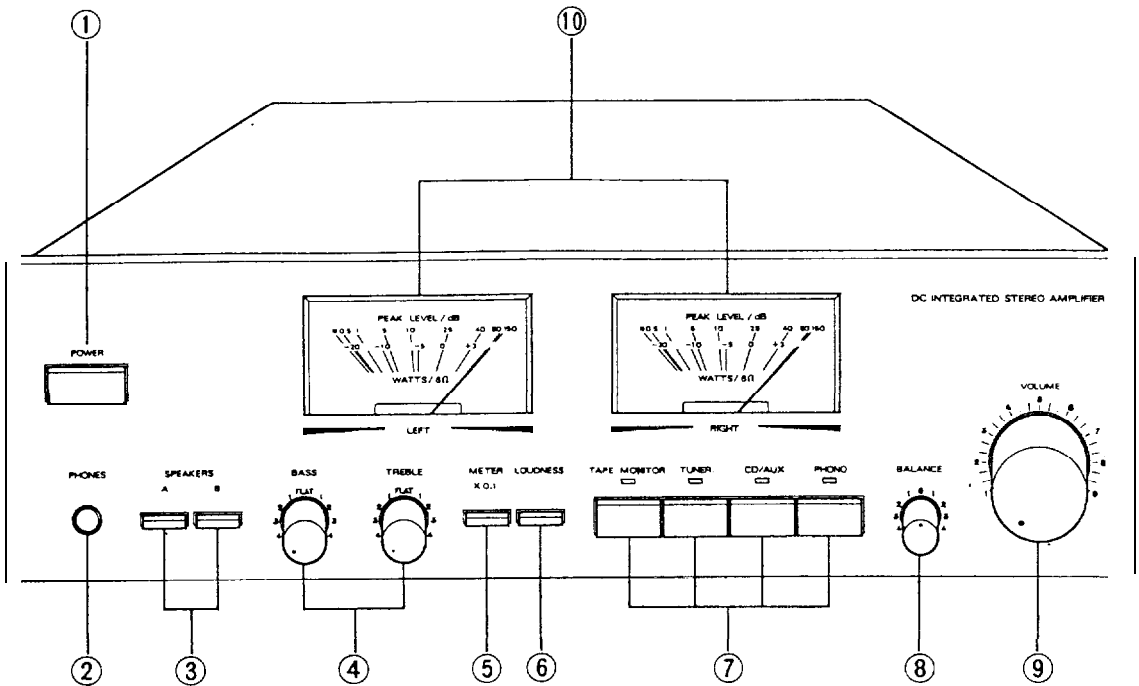


The lightning flash with arrowhead symbol, within an equilateral **triangle**, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



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

# CONTROLS AND FUNCTIONS



## 1. POWER SWITCH

Depress this switch "ON", the AC power is supplied to the amplifier.

## 2. PHONES JACK

When listening with stereo headphones, connect them to this jack.

## 3. SPEAKERS SWITCH

Selects speaker system operation.

A: sound obtained from speakers connected to A speaker terminals.

B: sound obtained from speakers connected to B speaker terminals.

## 4. BASS AND TREBLE CONTROL

Control the adjustments of high and low frequency tones. At the "FLAT" position, the tone control circuit is bypassed and frequency response is flat.

## 5. POWER OUTPUT DISPLAY SWITCH (X0.1)

For more precise monitoring at low listening levels. To push on this switch, the power display sensitivity can be increased 10 times.

0.1: To push "on" this switch, indicate the output of each element from 0.05 watts to 15W watts.

## 6. LOUDNESS SWITCH

For listening at low volume levels, placing this switch in the "ON" (push) position will boost response in low frequency range. The response of the human ear to sound differs according to loudness. This switch compensates for this effect at low volumes.

## 7. INPUT SELECTORS SWITCH-INDICATOR

Just press the button corresponding to the source you want to hear. The LED above the selected button will light.

- TAPE MONITOR:** Selects the playback signal of the tape deck connected to the **TAPE MONITOR** jacks on the rear panel.
- TUNER** : Selects the input signal from an AM or FM tuner.
- CD/AUX** : Selects the input signal from the Compact Disc player or other equipment connected to the **CD/AUX** jacks on the rear panel.
- PHONO** : Selects the input signal from a turntable connected to the **PHONO** jacks on the rear panel.

#### **8. BALANCE CONTROL**

For adjustment of relative output levels of L and R channels of speaker systems or headphones. Clockwise rotation from center position increase volume of R over L channel. Counter clockwise rotation increases volume of L channel over R.

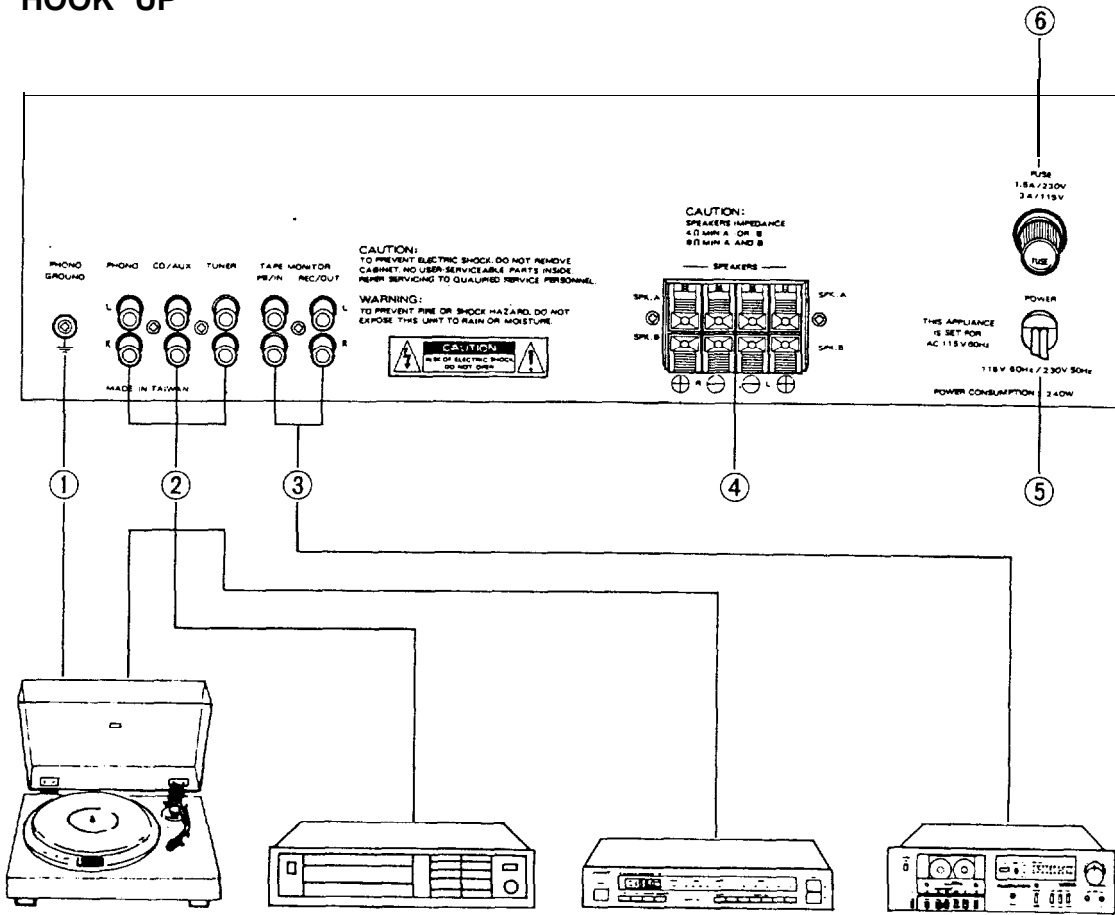
#### **9. VOLUME CONTROL**

The volume control is used to adjust the level of the output to the speakers and headphones.

#### **10. OUTPUT LEVEL METER (LEFT AND RIGHT)**

These meters indicate the output signal strength of R and L channels. The light will appear when power switch is in "ON" position.

# HOOK UP



## 1. GROUND JACK (PHONO)

Connect to ground terminals of turntables.

## 2. PHONO, TUNER, CD/AUX INPUTS JACK

Connect with the turntable, tuner, compact disc or other signal source.

## 3. TAPE JACK

Playback: connect to output of tape deck. (PB)

Record: connect to input of tape deck. (REC)

## 4. SPEAKER TERMINAL

Connect to speaker system. Note that although the allowable speaker impedance range is 4 ohms to 16 ohms, the speaker systems selected for use with this unit should have a high power handling capacity. If speaker systems of low maximum input power rating are used and the volume level is increased to very high levels, the speakers will probably be damaged. Check the maximum input power rating before connecting to this unit.

## 5. AC CORD

Connect to AC socket.

## 6. MAIN FUSE

This fuse prevents the machine kits from being destroyed by out coming violent electric current.

# EFFECTIVE OPERATION

## BEFORE PUSH ON POWER

METER RANGE X0.1, LOUDNESS switch in OFF.

BALANCE control set to center position.

BASS, TREBLE controls to "FLAT" position.

VOLUME control to MIN (turned completely counterclockwise).

Be sure the AC cord set in right AC source. Connect the output of HI-FI component to PHONO, CD/AUX, TUNER INPUT JACKS.

Connect the tape decks to REC and PB jacks of TAPE.

Connect the speakers to speaker terminals of this unit.

## PUSH ON POWER

After the above checklist is completed, power may be pushed on.

AC power is being supplied to this unit.

## PLAYING RECORDS

1. Place INPUT SELECTOR switch in PHONO position.
2. Start turntable.
3. According to taste, set sound level by means of the VOLUME control, and adjust tone using BASS, TREBLE controls. Push "ON" METER RANGE X0.1, LOUDNESS switch if needed.

NOTE: If HUM is heard when playing PHONO, to prevent this, try connect the "GROUND" of turntable to "GROUND" screw. (TERMINAL)

## USING CD/AUX, TUNER TERMINALS

1. Place INPUT SELECTOR switch in CD/AUX or TUNER position.
2. Begin operation of the Hi-Fi component which connected to CD/AUX or TUNER jacks.
3. According to taste, set sound level by means of the VOLUME control, and adjust tone using BASS, TREBLE controls. Push "on" METER RANGE X0.1, LOUDNESS switch if needed.

## TAPE DECK OPERATIONS

### PLAYBACK

1. Place INPUT SELECTOR switch in TAPE MONITOR position.
2. Playback the recorded tape.
3. According to taste, set sound level by means of the VOLUME control, and adjust tone using BASS, TREBLE controls. Push "ON" METER RANGE X.01, LOUDNESS switch.

### RECORDING

#### (TAPE RECORDING THROUGH THE AMPLIFIER)

1. Set controls of recording source (turntable, radio broadcast, etc.) so that optimum sound quality is achieved.
2. Set recording level by means of control on tape deck. During recording the VOLUME, BALANCE, BASS, TREBLE controls, METER RANGE X0.1, LOUDNESS switch of this unit have no effect on the recording level.
3. Start recording.

NOTE: To prevent occur oscillation when no need recording. Set recording level to "off" position.

# SPECIFICATIONS

MAX. power output (RMS) AT 1KHz . . . . . 80 watts per channel at 8 ohm  
Continuous power output (RMS) at 1KHz . . . . . 40 watts per channel at 8 ohm  
Continuous power output (RMS) at 20-20KHz . . . . . 35 watts per channel at 8 ohm  
Total Harmonic Distortion . . . . . Less than 0.1% at rated power output into 8 ohms  
Power Bandwidth . . . . . 20Hz-20KHz  
Frequency Response . . . . . 1 0Hz-60KHz

## Signal to Noise Ratio (IEC-A)

Tuner, CD/AUX, Tape. . . . . 86dB  
Phono . . . . . 80dB

## Input Sensitivity/Impedance

Phono . . . . . 2.8mV/50K ohm  
Tape . . . . . 150mV/50K ohm  
Tuner, CD . . . . . 150mV/50K ohm

REC Output Level/Impedance . . . . . 120mV/100K ohm

Phono Equalizer (NFB Type RIAA Std.) . . . . .  $\pm 1$ dB

Phono Over Load Level. . . . . . 100mV (1 KHz)

Tone Control . . . . . Bass  $\pm 12$ dB @ 1 00Hz

Treble  $\pm 12$ dB @ 1 0KHz

Loudness . . . . . +7dB @ 100Hz

## Miscellaneous

Power Requirement. . . . . 115V 60Hz/230V 50Hz

Fuse . . . . . 3A/115V or 1.5A/230V @ 1 pc (outside)

5A @ 2pcs (inside)

Dimension . . . . . (W x H x D) 422 x 120 x 232mm

(16-9/16" x 4-3/4" x 9-1/8")

Weight . . . . . 6.5 KGS (14.3 lbs)