

INSTRUCTIONS

SA 1100CD



MULTIPLEX PROFESSIONAL AMPLIFIER

BEFORE OPERATING THIS AMPLIFIER, PLEASE CAREFULLY READING THIS OWNER'S MANUAL.

SAFETY PRECAUTIONS:

- The following symbols are used on this instrument.
- ⚡ The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsurable "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. To avoid injury, death of personnel or damage to the instrument, the operation must refer to an explanation in the user's Manual or service Manual.
- ⊕ Protective grounding terminal.
- ~ Alternating current.

CONVENTIONS USED IN THIS MANUAL.

- The following symbol marks indicating that for safety, the operator should refer to the appropriate user's Manual.
- CAUTION:** This symbol marks indicating that for safety, the operator's attention.
- WARNING:** Describes precautions that should be observed to prevent the danger of injury or death to the user.
- ▲ Describes precautions that should be observed to prevent damage to the instrument.

**THANK YOU FOR CHOOSING A MULTIPLEX PROFESSIONAL
AMPLIFIER FOR OUR COMPANY'S PRODUCTS.**

- Your new Unit is an exceptionally well-engineered product that will give you years of superb performance.
- save all packing material. It is essential for shipping should you move, or in the event the unit ever needs repair.

1. Date of purchase: _____

2. Purchased from: _____

3. Address if business purchased from: _____

4. Installed by: _____

5. Date installed: _____

6. Serial No: _____

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1. FEATURES AND GENERAL DESCRIPTION

The CD series have 100W, 150W output RMS, CD series with a compact disc player.

- A. High quality design and construction.
- b. Full frequency response: 50Hz to 15,000 Hz at ± 3 dB.
- c. Low distortion and noise level.
- d. 3 unbalance microphone inputs; 1 auxiliary inputs and 1 line out (Placed on the rear panel).
- e. With compact disc player.
- f. Isolated transformer outputs complete with 4, 8, 16 ohms, 25V, 70V, 100V.
- g. Individual bass and treble tone controls.
- h. Master volume control.
- i. LINE OUT : send output for a tape recorder or connected other rear Amplifier.
- j. Self-protection circuitry design. (over load, over current and over heat protection; the output, subsequent, power transformer all have auto-reset thermostat.)
- k. Built-in LED bar graph output level meter.

2. CAUTION

CAUTION

- Before replacing the AC fuse, be sure to unplug the power cord from the AC outlet, otherwise may cause a chock hazard.
- Do not block any of the ventilation openings.
- You shall hold the plug firmly to avoid pull the power line and risk Occurrencing when you pull the power line out from AC outlet.
- If the equipment gives out any strange odor or smoke, please turn-off it immediately and disconnect the power from the supply cable.

▲ HANDLE THE POWER CORD GENTLY.

- To disconnect the plug from the AC outlet, pull on the plug itself, not on the cord.
- Disconnect the plug from the AC outlet whenever the unit is to be left unused for an extended period of time.
- Do not place furniture or the heavy objects on the cord, and avoid dropping heavy objects on it. Also do not make a knot in the cord.
- Check if the power supply is being shut down, the power line is pulled out from outlet and other lines connecting this unit are also disconnected.

▲ PLACE THE UNIT ON A FIRM AND LEVEL SURFACE.

Avoid installing it:

- In moist or humid places.
- Close to heating equipment or in places exposed to direct sunlight.
- In a direct draft from an air conditioner or in other very cold locations.
- In places subject to excessive vibration or dust.
- In poorly ventilated places.

▲ MOVING THE UNIT.

- Before moving the unit, be sure to unplug the power cord from the AC outlet and disconnect all wires antennas and other components.

CAUTION: DO NOT OPEN THE CABINET.

- Do not attempt to service this unit. Tampering with internal components can cause fire or shock, and may void your guarantee. If water or a small object enters the unit, unplug the power cord immediately and call a qualified technician or consult our company, or consult an authorized.

WARNING: CAUTION FOR TEMPERATURE

- Don't touch the screw around the ventilation holes in the bottom board. When heat-sink working, the screw and the board temperature rises higher.
- ▲ Before you press the power button to on. Be sure to the all volume VR to minimum.

▲ CLEANING.

- Remove dust by wiping the unit with a soft, dry cloth. If necessary, use a soft cloth lightly dampened with mild soapy water; then a dry cloth. Never use benzene, thinner alcohol or other volatile agents, and avoid spraying insecticides near the unit, other fluids with very strong volatility and flammability for cleaning the in it body.

▲ INTERFERENCE.

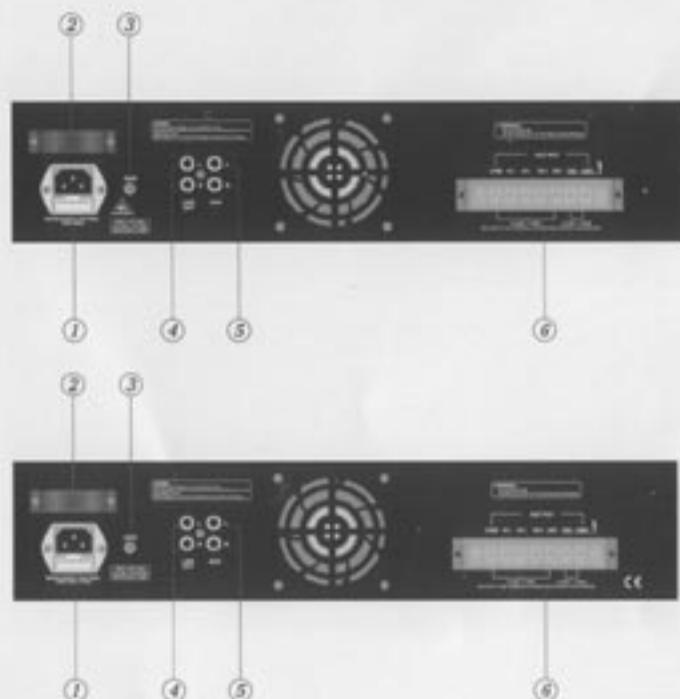
- If connecting interference takes place in source circuit, the THD will be more that 10%.

3. FRONT PANEL CONTROLS



1. POWER ON-OFF SWITCH: Applies line power. Two-position button switch for on-off modes.
2. PL INDICATE LAMP: Power indicate lamp.
3. OUTPUT LEVEL METER: Indicates output level.
4. MIC1-3: unbalance mic input terminal with 6.3Φ.
5. MIC1-3 VOLUME CONTROL: Adjust gain of mic1-3 respectively.
6. CD/AUX VOLUME CONTROL: Adjust gain of CD/AUX VOL.
7. BASS CONTROL: Adjust BASS respectively, tone is flat at center.
8. TREBLE CONTROL: Adjust TREBLE respectively tone is flat at center
9. MASTER VOLUME CONTROL: Adjust overall gain of unit.
10. COMPACT DISC PLAYER: DIGITAL DISPLAY.

4. REAR PANEL CONTROLS



1. AC INPUT: AC main connects to AC power source (with AC FUSE).
2. AC SELECTOR: AC selector switch (100V-120V/220V-240V).
3. CONNECT GROUND SCREW : supply the usage of functionary connect ground.
4. LINE OUT : This output terminal that mixed audio signals of all sources, connect to the other's real Amplifier or recorder.
5. AUX INPUT : The "R"and"L" sockets permit input of the right "R" and left "L"channels.
6. OUTPUT LOW & HIGH IMPEDANCE : connects to speakers (low impedance & high impedance.)

Caution:

The AC selector changed only by manufacturer.

5. INSTALL AND CONNECTIONS

Caution:

- Before using this unit for the first time, be sure that the appliance's voltage is in accordance to your mains supply. Connecting this unit only to grounded mains outlet.
- Re-apply the output terminal cover and fasten the screws after connected.
- Do not block any of the ventilation openings.
- Surface with a minimum distance of 1 M from the back or side plate to the wall.

1. AC power supply's connections

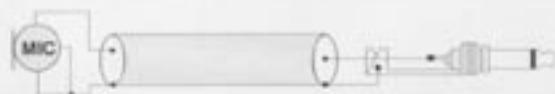
- Before using this unit for the first time, be sure that the appliance's voltage is in accordance to your mains supply. Connecting this unit only to ground mains outlet.
- If your mains supply is other this unit work voltage, don't changed the selector by yourself. The AC selector changed only by manufacturer, if you must contravention, please call a qualified technician or consult an authorized.
- When a qualified technician or an authorized help you changed the AC selector volume, as the same time changed the AC fuse. The AC fuse's specification must consult our company or an authorized, other wise may cause fire or can't work normally or shock.

2. INPUT CONNECTIONS

(1) Microphone connections

UNBALANCED MICROPHONE INPUT CONNECTIONS:

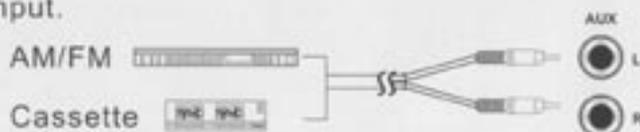
Using shielded cable, connect the center conductor of the cable to prong #2 of the A3M Microphone connector. Connect the shield of the cable to prong #1 of A3M Microphone connector.



Unbalanced microphone

Single pole phone plug

- (2) AUX connections a radio tuner, tape player, chime mixer pre-amplifier, or other high level input sources may be connected to the AUX input.



3. Output connections.

Caution.

- To avoid the risk of electrical shock, never touch the bare conductors leading to the output terminals of the amplifier when it is in operation. Show the possible connections of the "output" speaker terminal accessible by removing the protective cover. Bear in mind the following rules: (see following).
- Re-apply the output terminal cover and fasten the screws after
- Constant the low impedance lines.
 - (1) The total impedance of the speakers connected must correspond to that selected on the amplifier's output terminals.
 - (2) The sum of the power capacities of the speakers must be no lower than the amplifier's power capacity.
 - (3) The length of the connecting cables must be short as possible; with equal of line that CLASS II wire .
- Constant the high voltage lines.
 - (1) Each speaker must be equipped with a line transformer that with an input voltage, with equal of the line that CLASS I wire .
 - (2) The sum of the power capacities of the speakers must not exceed the output power capacity of the amplifier.
 - (3) The length of the connecting cables must be short as possible; in any case, the cables of long-distance must be covered in cross-section.
- (4) LINE OUT: connected other rear Amplifier or recorder.

6. Operation

BASIC OPERATION

- (1) Press the POWER button to ON, then the power lights up; press again to turn the power off, then the power lights extinct.
- (2) Bass control, modifies the low-frequency sound of the left and right channels as much as +/- 10dB. Set this control at a suitable position for your taste and room acoustics.
- (3) Treble control, modify the high-frequency sound of the left and right channels as much as +/- 10dB. Set this control at a suitable position for your taste and room acoustics.
- (4) MIC1-3, all have independent volume control, (except CD/AUX), turn the VOLUME clockwise to increase the volume and counter clock wise to decrease it.
- (5) Master volume control, turn the VOLUME clockwise to increase the volume and counter clockwise to decrease it, the volume of the front, center, and rear channels is changed at the sametime.
- (6) Play the CD tape.

When you press the button to on, then the compact disc player will display, at the same time, tell you that the CD player at the state of ready work.

- a. Press the open/close button, the CD window will push out, then take a CD tape in it. Next, press the same button again and after wait about for 5seconds press the play/Pause button, at this time, the CD player was working at the normal conditions.

- b. CD function buttons.

"OPEN/CLOSE", Press the open/close button, the CD window will push out; press the same button again the CD window will push in.

"PLAY/PAUSE", when press it, the CD player will playback; press the same button again, the CD player will pause play.

"STOP", when press it, the CD player will stop playback;

"B.SKIP/REW", when press it, the CD player will backward skip;

"F.SKIP/FF", when press it, the CD player will forward skip;
"REPEAT", when press it, the CD player will repeat to play the same song ,press it again the CD player will repeat to play all. If press it again, the CD player will return to normal conditions of playing.

"PROG" when press it, the CD player can setup in accordance with your favoured selections.

NOTE: Before you press the power button to on. Be sure to the all volume VR to minimum.

7. Trouble shooting

This unit is designed for trouble-free operation. Most problems users encounter are due to operating errors. So, if you have a problem, first check this list for a possible solution. If the problem persists, do not attempt to service this unit by yourself, consult your authorized service centers or a highly qualified personnel.

IF THE PROBLEM IS ---	MAKE SURE THAT THE ---
No lights illuminate when POWER button is pressed.	1. Unit is plugged into a live outlet, was the AC fuse opened. 2. Perhaps the power transformer internal auto-reset thermostat was worked. If that, please press the power button to off for a time and check this unit and connections.
The fan no work.	Unit is plugged into a live outlet, was the AC fuse opened.
No sound is heard.	Correct input function selector button has been pressed volume is turned up speakers are connected properly
Unit output is intermittent or continuously buzzing or hossing	Check the AC power supply is proper

No output from one or more channels.	Cables are not defective: Check/replace speaker cables or line. The signal source is operating and providing proper signal output to this unit
No display of compact disc player	Check the AC supply, is normal.
No output of compact disc player	Check the CD tape clearing or damage, Clear the laser-head
The LED bar graph that output, indicate is normal, but no output at load.	1. The unit self-protection was worked, please press the power button to off wait for a time, is normal? 2. Check you connector's anything is normal? 3. Perhaps over load or deviant operation, cause this unit's DC fuse open, please call a qualified technician or consult an authorized.
The compact disc player display "ER..."	1. Open the CD window and play it again, is normal? 2. Please turn all VR to minimal and press the power button off, then press it again, is normal? 3. The CD player was failure, consult an authorized.

8. Specifications

Type	Mixer power amplifier	
Model	100W CD series	150W CD series

Power output	Rated: 100W max: 140W	Rated: 150W max: 210W
Output regulation	Less than 2dB no load to full load	
Outputs	Speaker output 100W CD series: 4Ω (20V) 8Ω (28.3V) 16Ω (40V) 25V 70V 100V Line out : 1V± 0.3V	Speaker output 100W CD series: 4Ω (24.5V) 8Ω (34.7V) 16Ω (49V) 25V 70V 100V Line out : 1V± 0.3V
Frequency Response	50~15,000Hz	
Total harmonic distortion	Less than 1% at 1KHz, rated power	
Signal to noise ratio (Tone control centered) All volume controls C.C.W	AUX	:80dB below rated power
	Microphone	:80dB below rated power
Tone controls	BASS : ± 10dB at 100Hz TREBLE : ± 10dB at 10KHz	
Input	AUX : 20K Ohms, -18± 2dB MIC1-3 : 600 ohms, -54± 3dB(unbanced)	
Controls	MIC1-3 volume control CD/AUX volume control Tone controls (BASS, TREBLE) MASTER volume control VOLUME SELECTOR	
Indicator	Power indicator (LED) LED output level meter	
AC power supply	110~127/220~240 AC 50/60Hz*	
AC power consumption	220 WATTS at rated output	380 WATTS at rated output

Dimensions	450mm(W)x 100mm(H)x 335mm(D)	
Weight	10.97kg	12.35kg
Color	Black	

* Caution:

The AC selector changed only by manufacturer.

9. Example of possible connections

