

WORK[®] **W**



PA 9500 CDT

User Manual / Instrucciones de Usuario

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.

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1. FEATURES AND GENERAL DESCRIPTION

The CDT series have 90W output RMS, CD series with a compact disc player; CDT series with both of a compact disc player and digital tuner features.

- 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. 4 balance microphone inputs, 2 auxiliary inputs. (Placed on the rear panel)
- e. Mic1 is unbalance inputs, has an automatic mute feature, during broadcasting, it may insert other sound signal and make the playing sound signal of CD, turning, AUX muting.
- f. With compact disc player with power and volume control (CDT series).
- g. With Digital tuner (only CDT series).
- h. Isolated transformer outputs complete with 4, 8, 16 ohms, 70v, 100v.
- j. Individual bass and treble tone controls.
- k. Master volume control.
- l. Send output for a tape recorder.
- m. Self-protection circuitry design.
- n. 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 shock hazard.
- ⚠ Do not block any of the ventilation openings.
- ⚠ You shall hold the plug firmly to avoid pull the power line and risk Occurrence 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.

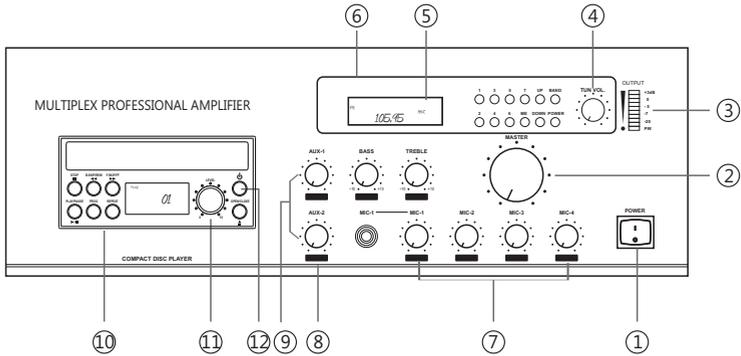
⚠ CLEANING.

j 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.

j 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. MASTER VOLUME CONTROL: Adjusts overall gain of unit.
3. OUTPUT LEVEL METER: Indicates output level.
4. TUNER VOLUME CONTROL: Adjusts gain of TUN-VOL respectively.
5. TUNER MODULAR: Digital TUNER Modular.
6. BASS TREBLE CONTROL: Adjusts Bass TREBLE respectively. Tone is flat at center.
7. MIC 1-4 VOLUME CONTROL: Adjusts gain of MIC 1-4 respectively.

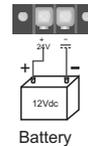
5. INSTALL AND CONNECTIONS

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. DC power or battery supply's connections.

- ¡ The unit will also operate from an external 24v battery or other direct current source with negative (-) as ground. Power connections are made at the DC terminal strip on the rear panel.
- ¡ If AC power supply fails, transfer to DC power is instantaneous, automatic and silent, if the DC switch push to on condition on rear panel.
- ¡ The battery power supply is not operated by the primary switch. If switch to battery power is desired, press the DC switch push to on/off condition on rear panel.
- ¡ The amplifier is not capable of recharging the connected battery. Thus, it is recommended to have a suitable device at hand. When the amplifier is operated on the DC power source, the nominal power handling capacity drops by approximately 20%.
- ¡ DC power supply or battery supply's figure.



2. Input connections

MICROPHONE CONNECTIONS:

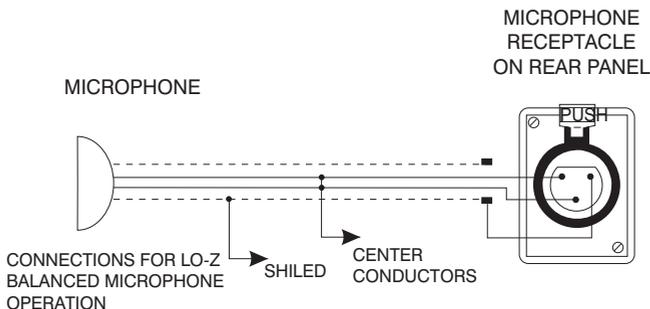
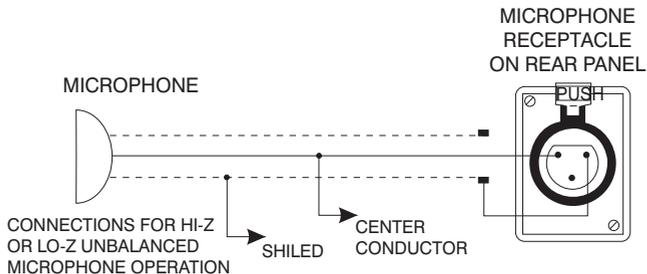
AS witchcraft type A3M Microphone connector or equivalent is required for making connections to the Microphone inputs and audio shielded cable is required for all balanced and unbalanced microphone input connecting.

BALANCED MICROPHONE INPUT CONNECTIONS:

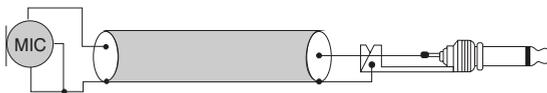
Using shielded cable, connect the two center conductors of the cable to prongs #2 and #3 of the A3M Microphone connector. Connect the shield of the cable to prong #1 of the A3M Microphone connector.

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.



MICROPHONE WRING CONNECTIONS



Unbalanced microphone

Single pole phone pug

PRIORITY PAGING:

The amplifier features a transistorized circuit which automatically removes all program material for the amplifier and permits microphone #1 to take over for special or emergency announcements.

This electronic switch is operated from the microphone, which must contain a single-pole switch, normally open for actuating this circuit.

A turntable with a high impedance ceramic or crystal cartridge may be connected to an AUX. input.

The external "ACOUSTIC EQUALIZER" is connected to the SEND and RECV receptacles on the rear panel of the amplifier, SEND is connected to the input of the external "equalizer" and RECV to the output of the external.

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 ϕ 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 ϕ 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.

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) CD,AUX-1,AUX-2, MIC, all have independent volume control, unbalance input mic1 has priority in them. When the signal input the mic1, the playing signal of AUX. CD. radio should be muting, the mic1 signal will priority playing. 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 same time.
- (6) LISTENING TO BROADCASTS. You can use auto, manual or preset tuning to select a radio station. Before use this function, must press the radio's power button. When you press it again, this function was cut off.
- (7) AUTO TUNING. If broadcast signals are strong and there is no interference, auto Tuning is possible.
 - a. Press the "BAND" button to select Am or Fm band.

b. Press the "UP" or "DOWN" button for a little time about 5 second, tuning will start automatically and stop at a broadcast station frequency with sufficient signal strength.

(8) MANUAL TUNING. Auto tuning may be impossible if the broadcast signal is weak. If so, use manual tuning.

a. Press the "BAND" button to select the desired band.

b. Press the "UP" or "DOWN" button for a little time about 2 second, until the desired station frequency is reached: Each time the button is pressed, the frequency changes by a step; When the button is kept pressed, the frequency changes continuously in sequence.

(9) PRESET TUNING. The receiver has a memory for up to 7 preset stations. If the station frequencies are stored in this memory, they can be tuned by select the numbers on the front panel.

(10) MANUAL PRESETTING. Up to 7 stations can be preset at random, regardless of the reception band.

a. Turn in the station to be memorized using the auto or manual tuning.

b. Press the "ME" button first or second, then the memory indicator lights up for 5 seconds.

c. Select the number on the front panel and press it while the memory indicator is flash.

d. Repeat steps a to c to preset other stations.

(11) RECALLING THE PRESET STATIONS. Select the preset number of the desired preset station with the number buttons on the front panel, then press the "up" or "down" to changed it.

(12) NOTES about tuning.

a. If the end of the frequency range is reached during the auto or manual tuning, Tuning will continue from the opposite end.

b. When memorizing a new station, the previously memorized station on the same channel number is cleared. In the event of a power failure or wen the receiver is disconnected from the AC outlet, the memorized stations are maintained for approximately 2 weeks.

(13) Play the CD tape.

When you press the CD power switch's 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.

""CD power switch with two-position for ON-OFF modes, before press it, please turn off the master volume.

"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.

LEVEL. The VR is CD volume control with adjust gain of CD volume "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

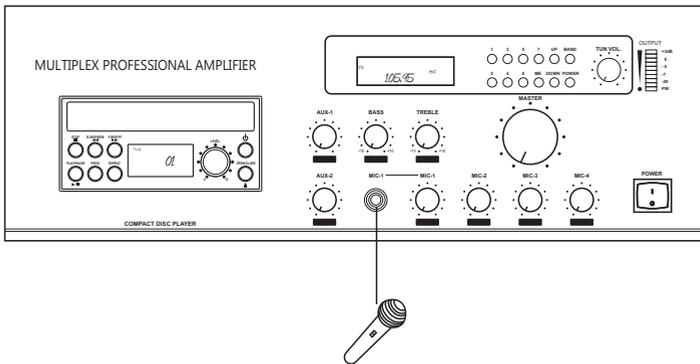
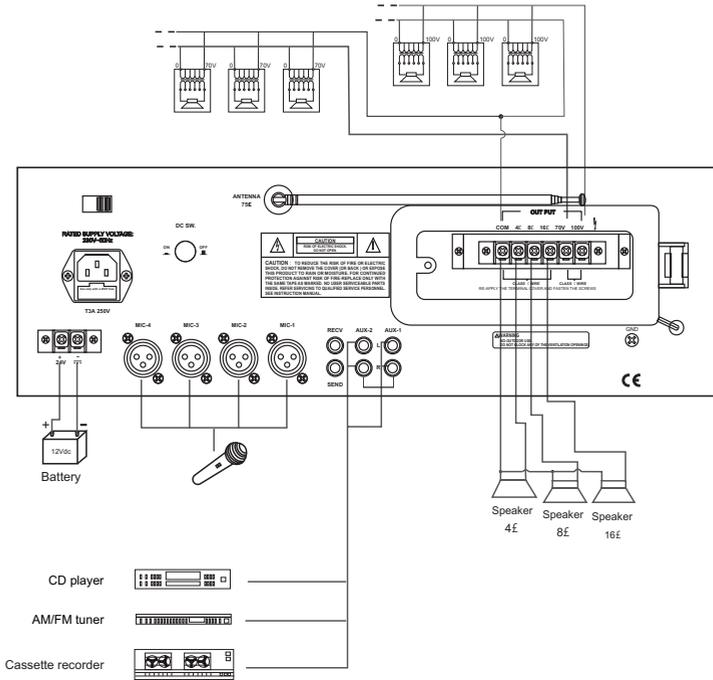
This unit is designed for trouble-free operation. Most problems users encounter are due to operating errors. So, if you have a problem, first check this list for a possible solution. If the problem persists, do not attempt to service this unit by yourself, consult your authorized service centers or a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

IF THE PROBLEM IS ---	MAKE SURE THAT THE ---
No lights illuminate when POWER button is pressed.	Unit is plugged into a live outlet, was the AC fuse opened
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 screech	Check the AC power or DC 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 "CD power switch, is normal.
No output of compact disc player	Check the CD tape clearing or damage, Clear the laser-head
Tuner sound has a large amount of interference, or tuner sound distorts and/or volume level is too low	The antenna is properly connected The antenna is properly located The antenna is set in the proper direction The antenna is adequate to receive the desired station.
Tuner is intermittent or continuously buzzing or screech	The unit is away from fluorescent lights, motors, Tvs and other electrical appliances
Stations cannot be preset	After pressing the ME button, the ME button, is pressed while the display "P1/P2" indicator blinks.

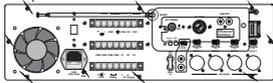
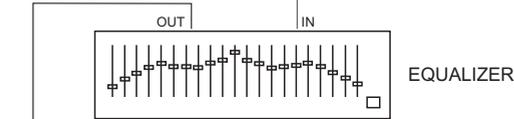
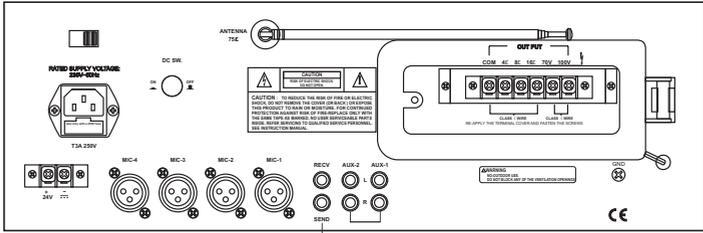
Controls	INPUT 1 volume control Tone controls (BASS, TREBLE) INPUT 2 volume control CD volume control AUX-1 volume control INPUT 3 volume control MASTER volume control INPUT 4 volume control TUNER volume control AUX-2 volume control	
Indicator	Power indicator (LED) LED output level meter	
AC power supply	see rear panel's marked*	
DC power supply	24V	
AC power consumption	256 WATTS at rated output	
DC power consumption	7.3A at rated output	
Dimensions	450mm(W);150mm(H);330mm(D)	
Weight	11.5kg	
Color	Black	

* Caution:
 The AC selector changed only by manufacturer.

9. Example of possible connections

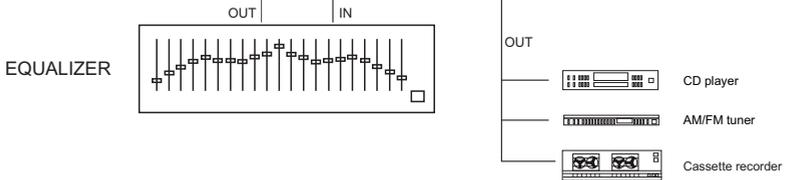
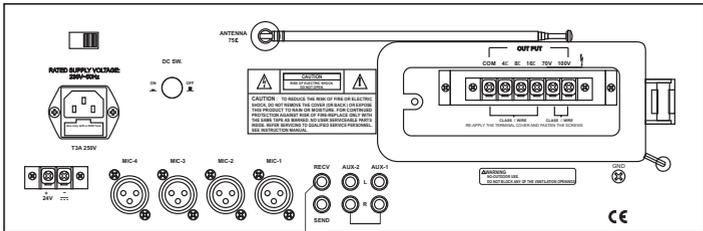


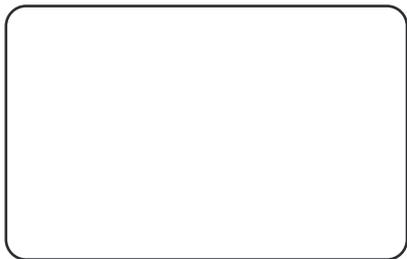
¡Use this unit with pre-amplifier.



Connect other AMPLI FIER'S rear-amplifier.

¡Use this unit with rear-amplifier.





Equipson, S.A.
www.equipson.es
support@equipson.es

