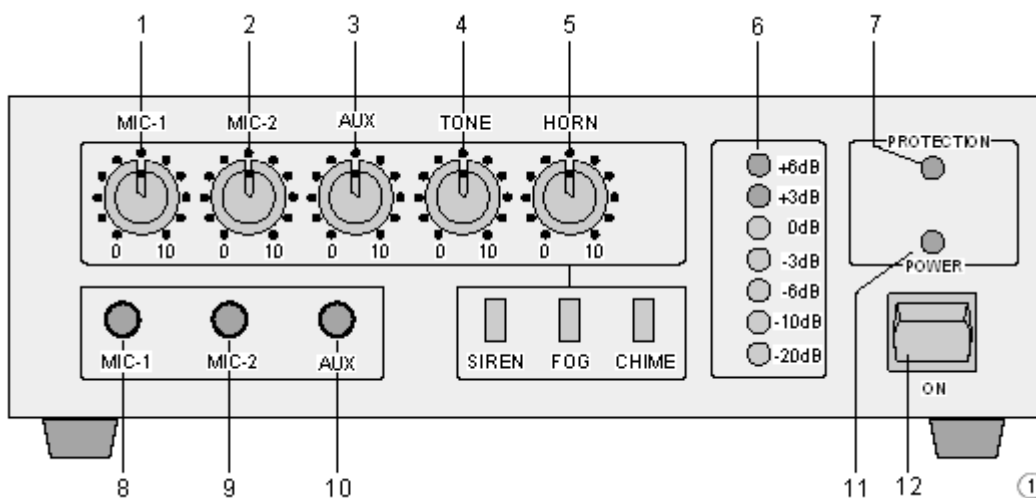
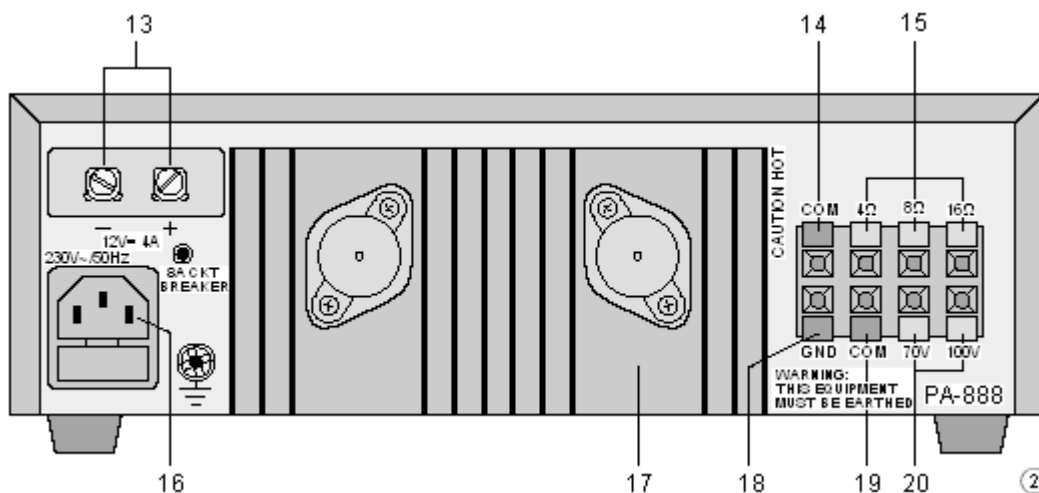


Amplifier



- 1: MIC-1
- 2: MIC-2
- 3: AUX
- 4: Tone control
- 5: Horn control
- 6: 7-way LED row
- 7: LED protection
- 8: MIC-1
- 9: MIC-2
- 10: AUX jack
- 11: LED power
- 12: Power button switch



- 13: 12V
- 14: COM
- 15: 4Ω/8Ω/16Ω
- 16: Mains Jack
- 17: Heat sink
- 18: GND
- 19: COM
- 20: Speaker connection, 70/100V

Specifications:

| | |
|------------------|---|
| Output power | : 45W _{rms} , 100W _{MAX} |
| THD | : <2% (70W). |
| Output impedance | : 4/8/16Ω, 70/100V. |
| Inputs | : 2 x Mic : 2.8mV/10kΩ. 1 x Aux : 40mV/47kΩ. |
| Frequency range | : 40 to 20,000Hz. |
| Tone control | : -15dB/5kHz. |
| Power supply | : 230V ac/50Hz/150 VA or 12V = /ca. 8A maximum minus at ground. |
| Dimensions | : (W) 280 x (H) 100 x (D) 280mm. |

Universal PA Amplifier:

100 W maximum PA amplifier (mono) for 230V ac and 12V battery operation, also suitable for the mobile use in a car or aboard a ship.

4 - 16Ω speakers (preferably horn drivers) as well as 100V speaker systems can be connected.

The following units may be mixed in any combination:

- 2 low impedance microphones,
- 1 audio unit with line output (tape recorder, cassette player, tuner, CD or record player),
- 1 built-in signal circuit which can be switched to siren, fog horn, or chime tone.

A tone control and a 7-way LED level indication are built in. The 70/100V speaker connections are not grounded, the 12V dc connection is provided with a protection diode against wrong polarity.

Safety Notes:

This unit corresponds to the directive for electromagnetic compatibility 89/336/EEC and the low voltage directive 73/23/EEC.

The unit uses dangerous mains voltage (230V ac). To prevent a shock hazard, do not open the cabinet. Leave servicing to authorized skilled personnel only. Besides, any guarantee claim expires if the unit has been opened.

Caution! A dangerous voltage is present at the speaker connections (20) during the operation.

All connections must only be performed or changed if the unit is switched off.

It is essential to observe the following items:

Caution!

During the operation the heat sink (17) at the rear side of the unit may become hot (T >60°C). Do not touch this area

- The unit is suitable for indoor use only. Protect it against dripping water and splash water, high humidity, and heat (ambient temperature range 0 to 40°C).
- Do not place any vessels filled with liquid, e. g. drinking glasses, on the unit.
- The heat which is generated in the unit has to be carried off via air circulation. Therefore, do not cover the air vents of the housing with anything.
- Do not insert or drop anything into the air vents! This could result in electric shock.
- Do not take the unit into operation and immediately take the mains plug out of the mains socket if:

1. Damage at the unit or mains cable can be seen,
2. A defect might have occurred after a drop or similar accident,
3. There are malfunctions.

The unit must in any case be repaired by authorized skilled personnel.

- Never pull the mains plug out of the mains socket by means of the mains cable.
- A damaged mains cable must only be repaired by the manufacturer or authorized, skilled personnel.
- Only use a dry, soft cloth for cleaning, by no means chemicals or water.
- If the unit is used for purposes other than originally intended, if it is connected or operated in the wrong way or if it is not repaired by authorized skilled personnel, no liability can be taken over for possible damage.
- If the unit is to be put out of operation definitively, take it to a local recycling plant for disposal which is not harmful to the environment.

Important for U. K. Customers!

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

green/yellow = earth

blue = neutral


brown = live

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:

1. The wire which is coloured green and yellow must be connected to the terminal in the plug which is marked with the letter E or by the earth symbol, or coloured green or green and yellow.
2. The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.
3. The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

Warning - This appliance must be earthed.

Connections:

- 1) The upper terminal connections COM (14) and $4\Omega/8\Omega/16\Omega$ (15) are provided for low impedance horn drivers or other speakers. This upper terminal COM (14) is connected with ground.
- 2) At the lower terminals COM (19) and 70/100V (20), 100V speaker systems are connected floating above ground, like PA columns etc. which have a 100V audio transformer.
- 3) The terminal GND (18) is the chassis connection. It has to be connected with the COM terminal (19) next to it, if the 100V circuit has to be grounded.
- 4) Only after connection of all other components connect the amplifier via the mains jack (16) with the enclosed mains cable to a socket (230V ac/50Hz).
- 5) If in case of a power failure of the 230V mains the amplifier should continue to operate, the power failure back-up of the amplifier can be connected to a 12V rechargeable battery via the terminals 12V  (13). Then the power switch (12) is out of function, i.e. after the connection of the rechargeable battery the amplifier is always in operation.

Operation:

- 1) Prior to switching on set the controls MIC-1 (1), MIC-2 (2), and AUX (3) to zero. Only then switch on the amplifier with the button power (12). As an operating control the red LED power (6) is lighting.
- 2) The MIC-1 (8) and MIC-2 (9) jacks are intended for the connection of low impedance microphones. They are individually adjusted with the above controls (1 + 2).
- 3) By the AUX control (3) the gain of the audio unit connected to the AUX jack (10) is adjusted. Here any kind of playing units like CD, cassette or record players as well as tuners or other units may be connected.
- 4) The Tone control (4) attenuates high frequencies for all sources in common.
- 5) The Horn control (5) adjusts the volume of the built-in alarm signal circuit switchable to CHIME, FOG, or SIREN as requested. The signal may also be mixed with the other sources in any combination.
- 6) The 7-way LED row (6) indicates the output power. The LED Protection (7) lights up if the protection circuit has responded.

Part Number Table

| Description | Part Number |
|---------------------|-------------|
| Amplifier, PA, 100W | DP26036 |

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