



# ES-5

## HEAD PHONE STEREO POWER AMPLIFIERE.

The ES-5 module is a head phone stereo power stage, with a maximum power by channel of 75W. It could connected to the mixer output or to the auxiliary input of a sound device.

It is supplied by a voltage from 3 up to 6 VDC and the recommended power supply is the FE-1 module or 2 x 1,5 V batteries. It has a protection against polarity inversion.

**Because all the information indicated in this manual instruction, you had to read it.**

### TECHNICAL CHARACTERISTICS.

Voltage .....	From 3 up to 6 VDC
Minimum Consumption .....	10 mA.
Maximum Consumption .....	20 mA.
Minimum Input Signal .....	75 mW.
Output Impedance .....	8 - 32 Ohms
Protection Against Polarity Inversion .....	Yes
Sizes .....	35 x 35 x 15 mm.

### OPERATING.

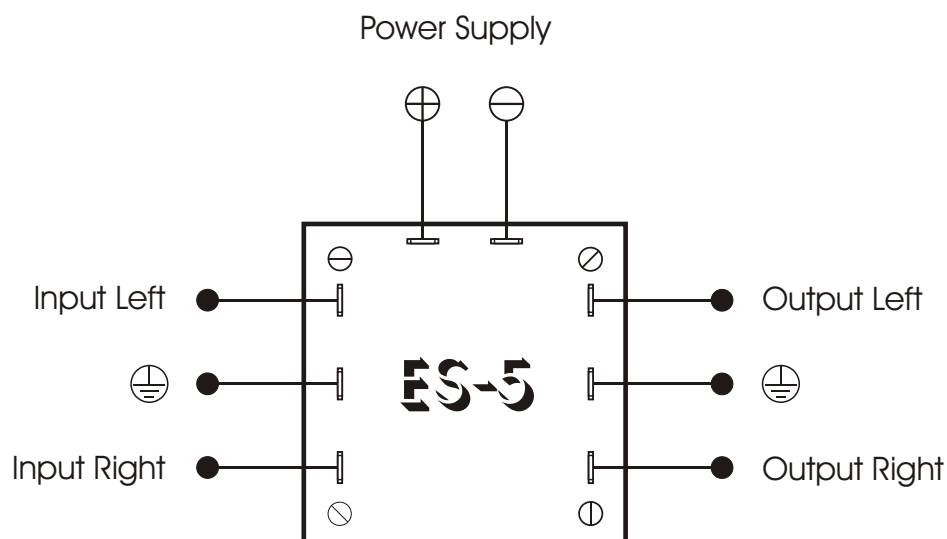
**POWER SUPPLY.** The ES-5 module had to be supplied with a voltage from 3 up to 6 VDC. Then, we recommend you 2 x 1,5 VDC batteries or our FE-1 module which has been specially design for this circuit needs. Connect the positive terminal of the Power Supply to the positive pin indicated in the drawing. Then, do the same operation with the negative terminal. **Verify that the assembly has been well done.**

**OPERATING.** To connect input signals, you have to use shielded cable and parallel cable for loudspeakers. For the input and output audio connections, the power supply had to be disconnect.

**Be careful to not confuse the input and the output audio** to not damage the module.

Connect the right and left audio inputs according to the drawing. Connect both ground to the central terminal. Do the same operation with right and left audio outputs and their ground.

### WIRING MAP.



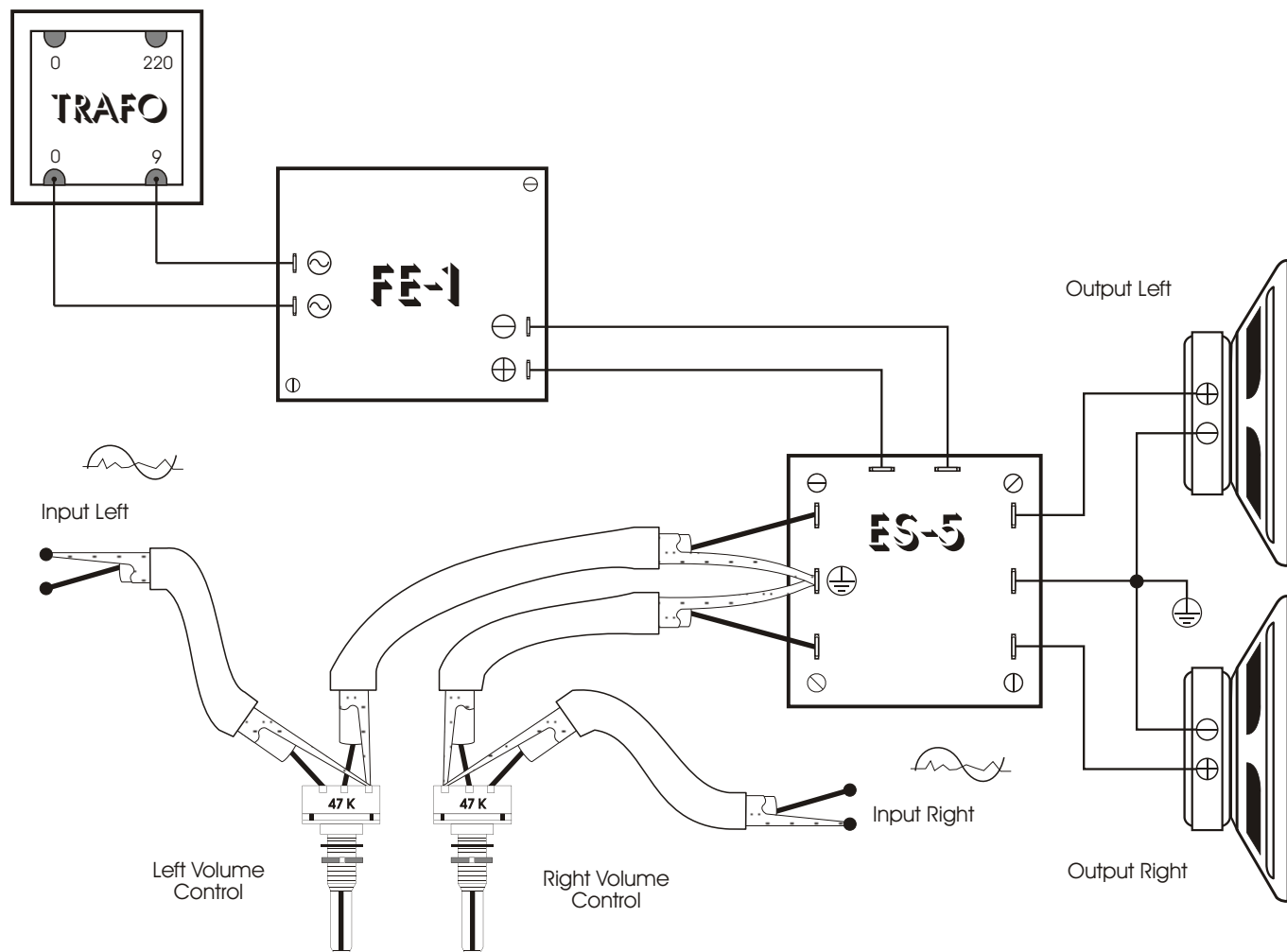


## POWER STAGES.

Rev. Full0302

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### GENERAL WIRING MAP.



### SUGGESTIONS.

All audio circuits could be perturbed by parasites, and one of the main parasites supplier is the power supply. To avoid it, you have to use 2 x 1,5 VDC batteries or FE-1 Power supply well filtered and stabilised. Then, use a low frequency shielded cable. Connect wire as indicated in the drawing. Use a metallic enclosure for the installation and connect the ground of the circuit to the box.

### TECHNICAL QUESTIONS.

If you have any doubt, you could contact your wholesaler or our Technical Department.

- E-Mail, [sat@cebek.com](mailto:sat@cebek.com) | Fax. 34.93.432.29.95 | by mail. P.O. Box. 23455 - 08080 Barcelona - Spain.

- **Keep the invoice of this module.** For any repair, the corresponding invoice had to be added. If the invoice is not presented together with this module, the module's warranty will be automatically cancelled.

All the module's CEBEK have **3 years of total warranty** in technical repairing, and spares from the date of buy.

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**WARRANTY**