



# SB-11

## GENERATOR OF PLANE SOUND

The SB-11 module is an electronic generator of typical plane sounds. Specially designed for toy industries, game machines, small-scale model, etc... It includes connection terminals to make more easy the assembly.

### TECHNICAL CHARACTERISTICS.

Voltage. ....	12 V. DC. (From 8 up to 15 V. DC.).
Minimum Consumption. ....	40 mA.
Maximum Consumption. ....	150 mA.
Output Impedance. ....	8 - 16 .
Maximum R.M,S Output Power. ....	325 mW. (8 ) / 162 mW. (16 )
Protection against Polarity Inmversion. ....	Yes.

### OPERATING.

**POWER SUPPLY.** The SB-11 circuit had to be supplied by a 12 VDC (from 8 up to 15 V DC) power supply correctly filtered. We recommended you the FE-2 power supply which has been developed to perfectly answer to the circuit needs. Install a fuse and a switch has it is indicated on the schedule. Both are necessary for the module's protection as well as for your own safety, as it is required by the "CE" regulations. Connect the positive of the power supply to the positive terminal indicated in the wiring map, then connect the negative of the power supply to the negative terminal indicated in the circuit.

To obtain a correct module's operating, we suggest you to insulate the module from mains parasites, installing between 230 V AC input and Transformer a mains filter. See the correspondinf paragraph. **Verify that the assembly is correct.**

**INSTALLATION.** Install a push button and a loudspeaker at the indicated terminals. See the General Wiring Map paragraph. To obtain a correct module's operating, you have to use quality push button and loudspeaker with 1 W. As minimum.

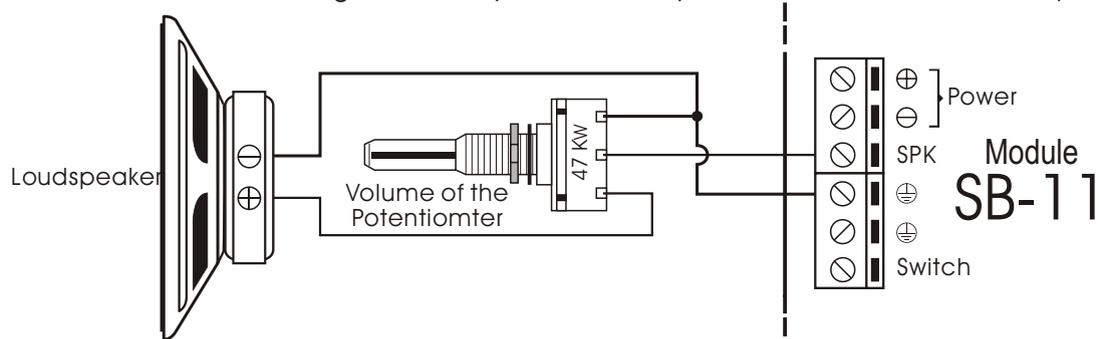
For the cabling between push button and module, the length has to be as short as possible, with a maximum of 50 cm. Use shielded cable, connecting the main wire to the negative terminal of the push button and try to do a cabling inferior than 150 cm.

**OPERATING.** Once module's connections done you could activate the mains switch to supply the module. Then, the module will automatically generate the plane sound.

If you maintain pressed the push button, the module will generate an engine motor acceleration (from the beginning to the maximum "speed"). The module will maintain this sound of maximum "speed" till you release the push button, coming back to the "stop" point.

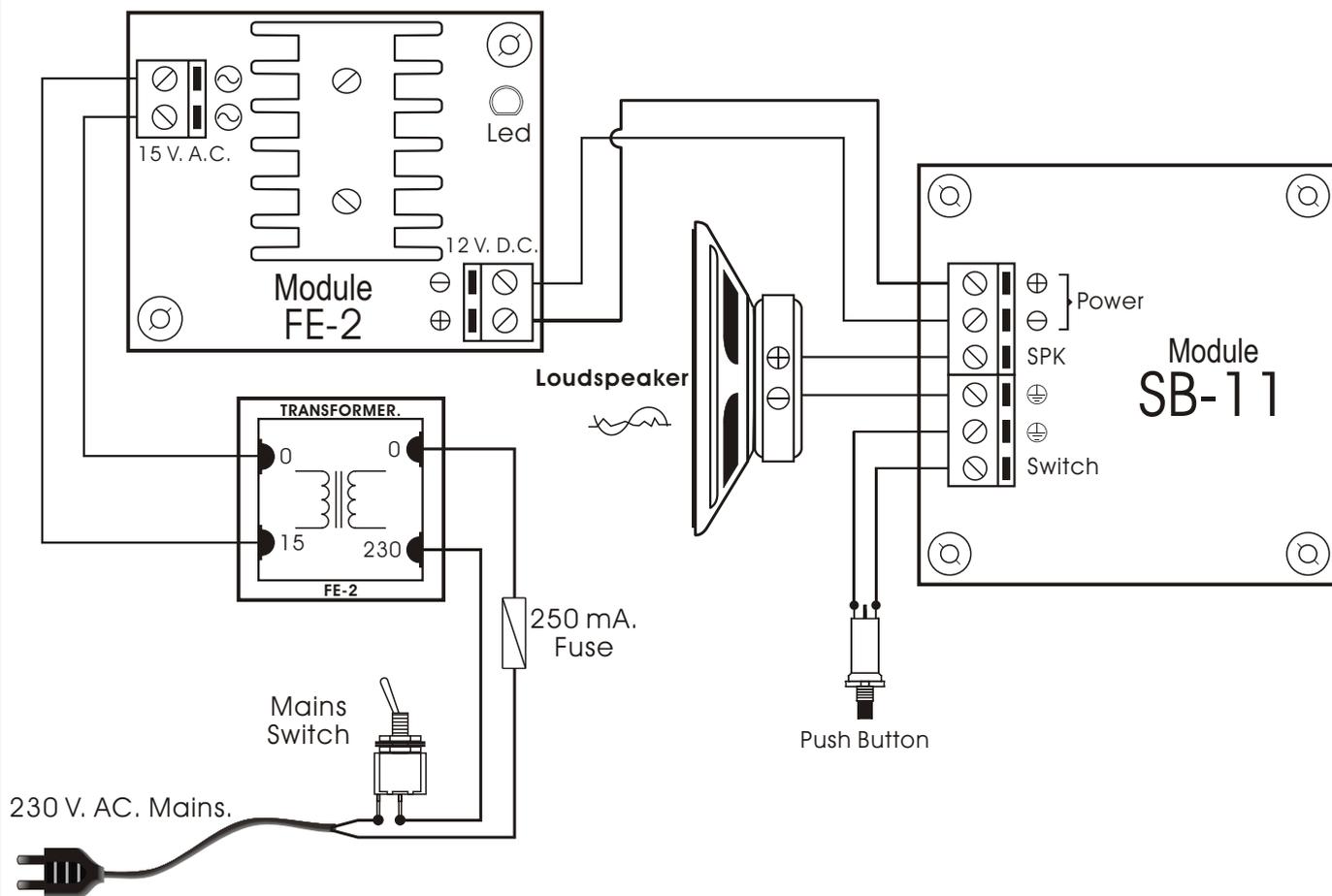
If you press several times between "motors' acceleration", the module will link sounds, creating rythm changes effect from the motor.

If you wish to control the volume level generated by the module, you have to install at the loudspeaker output, a

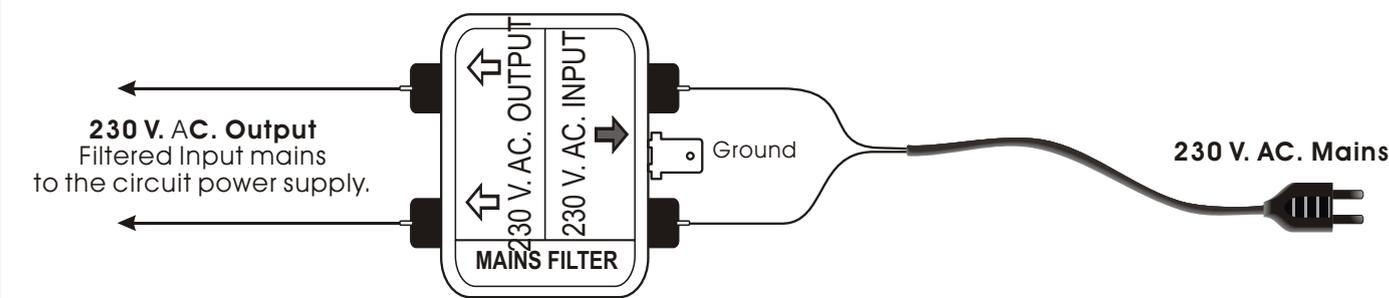




## GENERAL WIRING MAP.



## HOW TO INSTALL A MAINS FILTER.



## TECHNICAL CONSULTATIONS.

If you have any doubt, you could contact your wholesaler or our Technical Department.  
 - Via E-Mail, [sat@cebek.com](mailto:sat@cebek.com) | by mail P.O Box 23455 - 08080 BARCELONA - SPAIN.

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3  
YEARS**