94 dB/125 Hz

SOUND CALIBRATOR

Model : SC-943

Your purchase of this Personal SOUND CALIBRATOR with marks a step forward for you into the field of precision measurement.Although this calibrator is a complex and delicate instrument, its durable structure will allow many years of use if proper operating techniques are developed. Please read the following instructions carefully and always keep this manual within easy reach.

OPERATION MANUAL

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1. FEATURES

Standard 94 dB/125 Hz
Sound calibrator, useful to calibrate another " Sound Level Meter " precisely.

2. SPECIFICATIONS

Frequency	125 Hz ±2%
Sound Pressure Level	94 dB ±0.75 dB. * *Spec. tested under the environment RF Field Strength less than 3 V/M & frequency less than the 30 MHz only.*
Suitable Microphone Type	1 " mic. & 0.5 " mic. * *0.5" microphone is calibrated with 0.5" mic. adapter(standard acc.)*
Distortion	94 dB range harmonic distortion : 3 %.
Operating Temp.	0 ℃ to 50 ℃ (32 ℉ to 122 ℉).
Power Supply	DC 9 V battery (006P, 6F22) x 2 PCs. * *Recommend use the Alkaline or Heavy duty type battery.*
Power Consump.	Approx. DC 10.6 mA (in BAT.TEST position)
	Approx. DC 2.3 mA (in ON position)
Battery Check	Build in " Low Battery Indicator "
Dimension	Dia 50 mm (round) x 145 mm (length).
Weight	Approx. 277 g/0.61 LB (meter only).
Accessories Included	Instruction manual..... 1 PC. 0.5" mic. adapter..... 1 PC. Adjust Screw Driver..... 1 PC. Carrying case, CA-03..... 1 PC.

3. FRONT PANEL DESCRIPTION

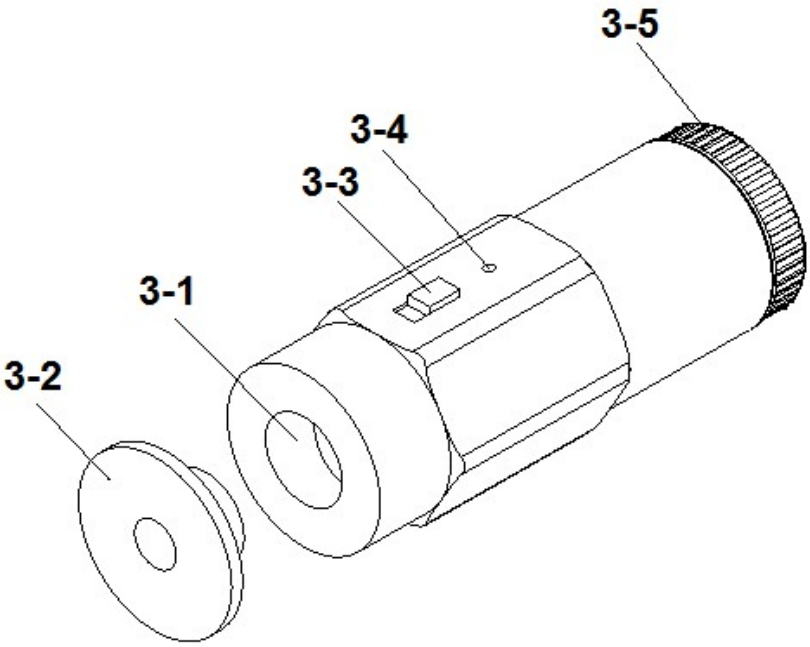

Fig. 1

3-1 Couple Section
3-2 0.5" Mic. Adapter
3-3 ON/OFF Switch
3-4 Power/Low Battery Indicator
3-5 Battery Cover/Compartment

4. CALIBRATION

1) Slide the " ON/OFF Switch " (3-3, Fig. 1) to
" 1 " position to power on the sound level calibrator.

2) If the calibrated " SOUND LEVEL METER " used the 0.5"
microphone, then on the " Couple Section " (3-1, Fig. 1)
should install the " 0.5" Mic. Adapter " (3-2, Fig. 1) first.

Consideration :
If the calibrated " SOUND LEVEL METER " used the 1 inch microphone, then on the " Couple Section " (3-1, Fig. 1) should take away the " 0.5" Mic. Adapter ".

3) Insert the microphone of calibrated " SOUND LEVEL
METER " carefully all the way into the couple section of
the Sound Calibrator. (Refer to Fig. 2).

4) Set the calibrated " SOUND LEVEL METER " to a
range suitable for measuring " 94 dB ", then check the sound
level meter reading value is 94 dB or not .

A pure 125 Hz tone is produced.

5) Adjust the calibration VR (knob) of the calibrated
" SOUND LEVEL METER " until that the display reach
to 94.0 dB exactly or the meter pointer points
to the " CAL " mark. (Refer Fig. 2)

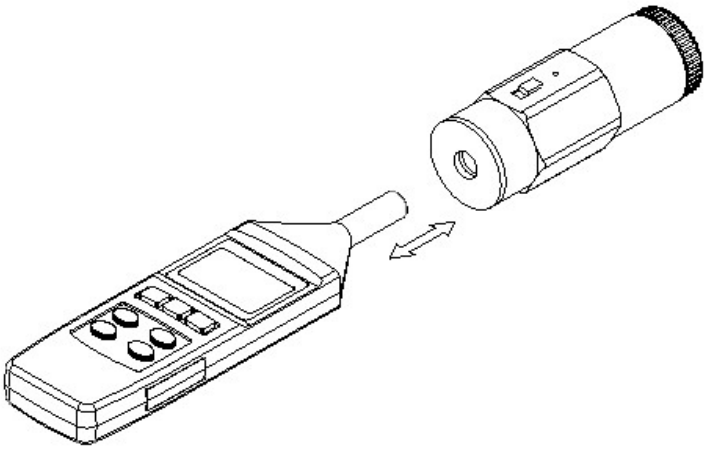

Fig. 2

5. BATTERY CHECK

Under the normal operation, slide " 0 /BAT. TEST/ 1 Switch " (3-3 , Fig. 1) to the "BAT. TEST " position, the " Power/Low Battery Indicator " (3-4, Fig. 1) will light up, then the battery voltage is normal.
If the " Battery Indicator " does not light up, then the batteries are under low voltage codition, it should replace the batteries.

6. REPLACEMENT of BATTERY

1) Take away the " Battery Cover " (3-5, Fig. 1).
   Please refer to Fig. 3.

2) Remove the old batteries & replace the two new 9V batteries.

3) Make sure the battery is installed to the right position & connected to the proper polarization with the battery snap.

4) Reinstate the battery cover after changing the batteries.

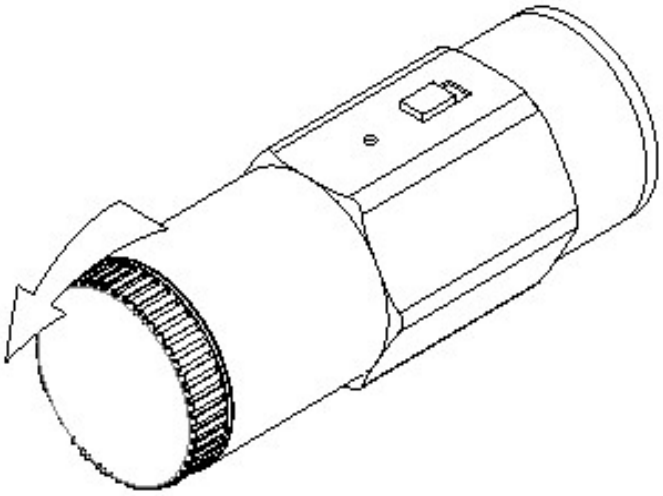

Fig. 3