

94 dB/114 dB

SOUND CALIBRATOR

72-2680



Your purchase of this SOUND CALIBRATOR marks a step forward for you into the field of precision measurement. Although this SOUND CALIBRATOR is a complex and delicate instrument, its durable structure 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/1000 Hz & 114 dB/1000 Hz sound calibrator, useful to calibrate another "Sound Level Meter" precisely.

2. SPECIFICATIONS

Frequency	1000 Hz ± 2%	
Sound Pressure	94 dB \pm 0.75 dB.	
Level	114 dB ± 0.9 dB.	
	* Spec. tested under the environment	
	RF Field Strength less than 3 V/M &	
	frequency less than the 30 MHz only.	
Suitable	1 " mic. & 0.5 " mic.	
Microphone	* 0.5" microphone is calibrated with 0.5"	
Type	mic. adapter(standard acc.)	
Distortion	94 dB range harmonic distortion: ± 2%.	
	114 dB range harmonic distortion: ± 5%.	
Operating	0 to 50 °C (32 to 122 °F).	
Temperature		
Power Supply	DC 9 V battery (006P, 6F22) x 2 PCs.	
	* Recommend use the Alkaline or Heavy	
	duty type battery.	
Power	Approx. DC 7 mA.	
Consumption		
Battery Check	Build in " Low Battery Indicator "	
Dimension	Dia 50 mm (round) x 145 mm (length).	
Weight	Approx. 350 g/0.77 LB	
	(include the batteries).	
Accessories	Instruction manual 1 PC.	
Included	0.5" mic. adapter 1 PC.	
	Adjust Screw Driver 1 PC.	
	Carrying case 1 PC.	

3. FRONT PANEL DESCRIPTION

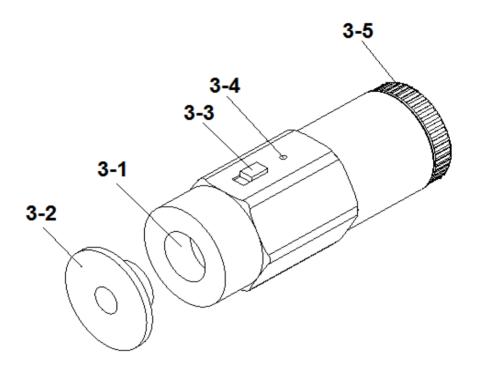


Fig. 1

- 3-1 Couple Section
- 3-2 0.5" Mic. Adapter
- 3-3 Off/94 dB/114 dB Switch
- 3-4 Power/Low Battery Indicator
- 3-5 Battery Cover/Compartment

4. CALIBRATION

1) 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".
- 2) Insert the microphone of calibrated " SOUND LEVEL METER " carefully all the way into the coupler section of the Sound Calibrator. (Refer to Fig. 2).
- 3) Set the calibrated " SOUND LEVEL METER " to a range suitable for measuring " 94 dB " or " 114 dB ".
- 4) Slide the "Off/94 dB/114 dB Switch " (3-3, Fig. 1) to "94 dB" position if the sound level meter intend to check or be calibrated on 94 dB value. Slide the "Off/94 dB/114 dB Switch " (3-3, Fig. 1) to "114 dB" position if the sound level meter intend to check or be calibrated on 114 dB value.

A pure 1,000 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 (114 dB) exactly or the meter pointer points to the " CAL " mark. (Refer Fig. 2)

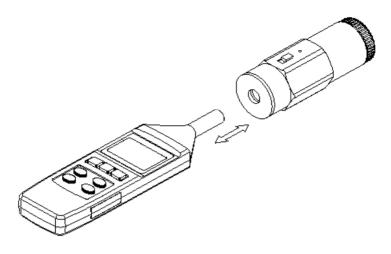


Fig. 2

5. BATTERY CHECK

Under the normal operation, slide " Off/94 dB/114 dB Switch " (3-3 , Fig. 1) to the " 94 dB " or " 114 dB " 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.

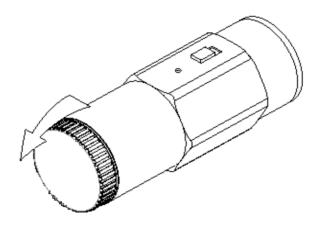


Fig. 3

7. SERVICE & REPAIR

For service repair and calibration, please contact your local Tenma distributor.