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Manual
PCE-S41

ELECTRONIC STETHOSCOPE

Operation Instruction

■ GENERAL INSTRUCTION

This unit is a high performance maintenance tool which is particularly suitable for use in machine noise detection. By using it, you can easily detect and find the early hidden trouble of a machine so that you can service the machine in an early time to ensure the machine's proper operation and avoid any damage and economic loss.

This unit consists of IC circuit and transistor. It features a small size and a light weight. It is very useful and easy to use. It is a powerful tool for a maintenance man.

This unit's probe has a high-sensitivity so that you can use the unit to detect and locate the position where the machine's certain noise come from. All kinds of noise can be detected, for example, valve's quiver sound, tappet's tremolo, a loose piston's sound, tremolo of gear or pump and sound of relay solenoid. In addition, it can also be used to judge whether the liquid in a pipe is flowing or blocked, as well as to judge the working conditions of various motors, internal-combustion engines, diesel engines, engines, household appliances, the automatic assembly line, and so on.

In general, this unit can be widely used in ship, automobile, chemical manufacture, metallurgy, machine, household appliance and many other fields.

■ MAIN USES

This unit can be used as follows:

1. Rapidly detect the machine noise from a diesel engines, an air cylinder or an

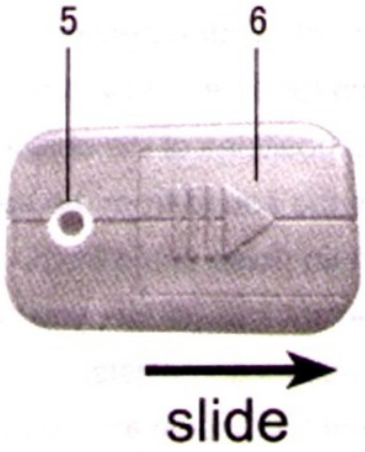
automobile, and exactly find out the malfunction position.

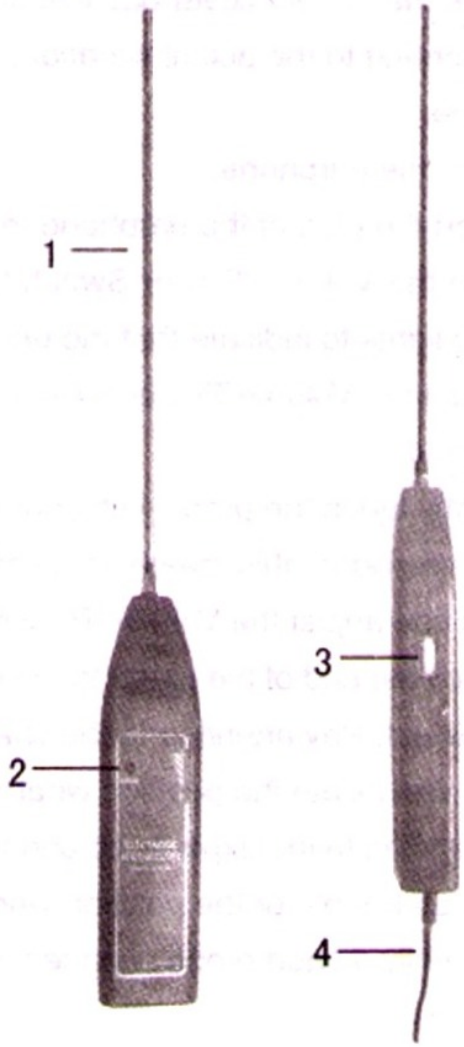
2. Identify the abnormal noise from an engine or a motor to avoid accident.
3. Monitor the automatic assembly line to ensure proper operation.
4. Used in chemical industry to check whether the liquid in a pipe is flowing or blocked
5. Detect abnormal noise in all kinds of boilers or reaction containers.
6. Monitor the working of all kinds of axletrees.
7. Monitor the working of a ship.
8. Used in the maintenance of various vehicles.
9. Used in the maintenance of various household appliances.

■ STRUCTURE

The unit consists of a probe, an earphone and a main part.

1. Probe
2. Signal LED
3. Volume/Power Switch
4. Earphone Lead
5. Earphone Jack
6. Battery Cover





■ SPECIFICATION

1.**Frequency Range :** 100Hz~10kHz
2.**Input Impedance :** >15MΩ
3.**Ambient Noise Permitted :** 100dB
4.**Working Temperature :** -10˚C ~ 55˚C
5.**Power Supply :** 9V(6F22) battery
6.**Size :** 32X50X206mm(main part)
7.**Weight :** about 240g(long probe+ main part)

■ OPERATION INSTRUCTION

1.Slide the battery cover out, install a 9V(6F22) battery, rejoin the cover.
2.According to the actual situation, select and install the long probe or the short probe.
Wear the earphone.
3.Insert the plug of the earphone to the earphone jack.
4.Turn the Volume/Power Switch to switch the stethoscope on and the Signal LED lights to indicate that the unit works.
5.Adjust the Volume/Power Switch, a buzz sound indicates that the stethoscope is good.
6.Lightly touch the probe with your hand, you will hear the response sound from the earphone, this means that you can begin your detection.
7.You can adjust the Volume/Power Switch for a desired volume.
Touch the end of the probe to the desired positions of the object which you want to detect. Pay attention to the change of the sound from the earphone. Finally you can locate the position where a certain noise come from.
Accroding to the experience and the relevant knowledge, you can find the early hidden trouble or the position where a malfunction exists.
8.Normally a short probe can meet your need. If necessary, you can use the long probe.

★ **NOTE:**

Never apply the probe to any live part.

Never apply the probe in any dangerous situation, which may cause personal injury.

While detecting, don't touch the probe with your hand or skin.

■BATTERY REPLACEMENT

When the Signal LED can't light after you switch the unit on, the battery is exhausted and should be replaced. To replace the battery, slide thebattery cover out, replace the exhausted battery with a new one of the same type(9V 6F22), rejoin the battery cover.

Note: When you remove the exhausted battery, please hold this battery with one hand, use another hand to disconnect the connection in order to avoid damage.

ACCESSORY

Earphone: one
Long Probe: one
Bag: one
Short Probe: one
Operation Instruction Sheet: one
Battery: 9V(6F22) one

■ DISPOSAL OF THIS ARTICLE

Dear Customer,

Please help avoiding refuse.

If you at some point intend to dispose of this article, then please keep in mind that many of its components consist of valuable materials, which can be recycled.

Please do not discharge it in the garbage bin, but check with your local council for recycling facilities in your area.

In this direction will find a vision of the measurement technique:
http://www.industrial-needs.com/measuring-instruments.htm

NOTE: "This instrument doesn't have ATEX protection, so it should not be used in potentially explosive atmospheres (powder, flammable gases)."