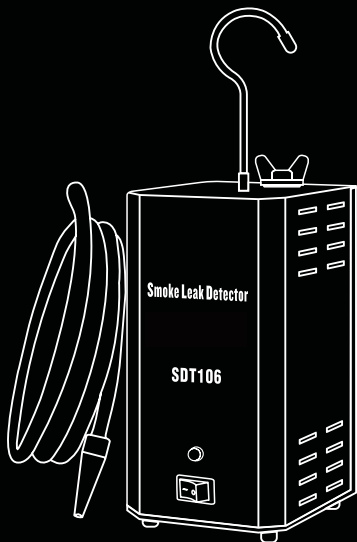


**SDT106**

Smoke Leak Detector

**User Manual**



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## **Caution**

- Non- technical person shall not change, disassemble or repair the product, otherwise all losses caused by this shall be bared by the user himself.
- This product is powered by electricity and should not be used as a toy for children.
- To avoid short circuit, do not immerse the product in water or other liquid.
- Please try to use the power supply and power cord supplied by manufacturer as standard.
- Please do not expose this product to strong light or high temperature when it's not at use.
- Keep away from smoke-sensitive parts for leak detection, for example- the headlight.

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- When you use this detector the first time, please fill 20-30ml oil, not beyond this range.
  - Fresh oil can be filled only when the smoke is light, do not add test oil excessive to the volume of the measuring bottle at one time, 15ml each time will be good enough. Otherwise the smoke outlet equipment will be affected.
  - Replace the detector oil regularly. Before filling fresh oil, please pour out the old remaining oil in the detector.
  - Detector oil selection : Liquid paraffin and baby oil are all OK. But please make sure there is no water inside, and sticky liquid is forbidden.
  - The test equipment has a temperature protector. If the machine is operated continuously for a long time, it will automatically stop and protect after overheating. Meanwhile, the air pump works normally, the heating system stops working, and when the temperature drops to a reasonable temperature, the equipment resumes normal operation. If you need to work continuously, after 15 minutes of work, the equipment shall be shut down for 3-5 minutes.
  - User can use strong airflow for the outside of the device to cool it down, but do not directly use liquid to dissipate heat.

## **Getting Started**

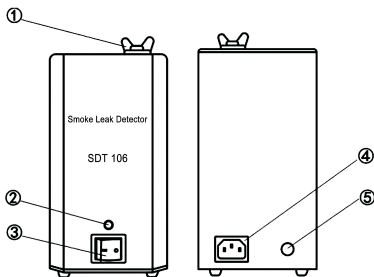
SDT106 is a professional auto pipe leak detect tool. It will help user to position leakage on any pipe system quickly and exactly, such as EVAP system, intake system, exhaust system and so on. It helps technician and car user to solve problem quickly at one time, greatly eliminating repeated repairing work, significantly reducing diagnostic time and improving customer service.

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## Main Unit Structure

SDT106 is designed for detecting the leakage of pipe systems on cars, motorcycles, such as fuel pipe, air intake system and cooling tank.

SDT106 is for all pipe system and EVAP.



- ① Oil Filler: To fill in oil.
- ② Working indicator: It is light when the detector works.
- ③ Power switch: Switch it on, and the detector works.
- ④ Power socket port.
- ⑤ Smoke output: The smoke outlet which connecting with detection port.

## Operation

- Open the engine cover, and hang the detector in the cover.
- Disconnect the pipe that needs to be connected with detector. If the pipe needs to be disconnected in the middle, please secure the other side with a rubber stopple.
- Secure this side with proper taper stopple/pipe, and connect it with smoke output tube.

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- Connect detector with DC12V battery: red with positive, black with negative. Do not connect in a contrary way.
  - Turn on the power switch, and the detector starts to work.
  - In about 3 minutes, the pipe will be filled with smoke. Check the leak parts. Please use head lamp if necessary.
  - After leak detection, please connect the wires and pipe well back together.

## **Maintenance**

- With long time high temperature, the smoke and oil will oxidize and deteriorate. It will infect the service life of smoke generated part, so please change smoke and oil regularly.
- When the smoke output has water drops, please replace with fresh oil.
- Please fill fresh oil with equipped oil bottle

## **How to Do Leakage Test**

- Turn on device then block smoke exhaust port on SDT106, record pressure gauge value.
- Connect smoke exhaust port to the pipe system you want to test.
- Wait for a while. Pressure gauge value decrease means the pipe system have leakage, pressure gauge value show "0" means diameter of leakage point is more than 0.3mm.

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## Specifications

		Name	Smoke Leak Detector
Type	SDT106	Input Voltage	DC 12V
Output Pressure	≤15psi (≈1kg)	Smoke Output	1~6 L/min
Package Size	275*220*255 mm	Main Unit Weight	3.8 kg
Certification	FC, CE, ROHS		

## Packing List

Main Unit	1	Taper Pipe	1
Hook	1	30ml Oil Bottle	1
Rubber Stoppers (with serial specification)	1	User Manual	1
Taper Stopper	1	EVAP Tool Set	1

## Warranty

There are 3 years' warranty for OUR product main unit and 1 year warranty for the accessories since the day the customers have received the product parcel.

## Warranty Access

- Repair or replace the equipment will be done according to the specific fault conditions;
- We guarantee that all replacement parts, accessories or equipment are brand new;
- When there is a product breakdown that can not be solved within 90 days, customer should provide video and pictures as proof, we will bear the freight cost and provide customer the accessories in need to replace. After receiving the product for more than 90 days, the customer shall bear the freight cost, we will provide the accessory for free to replace.