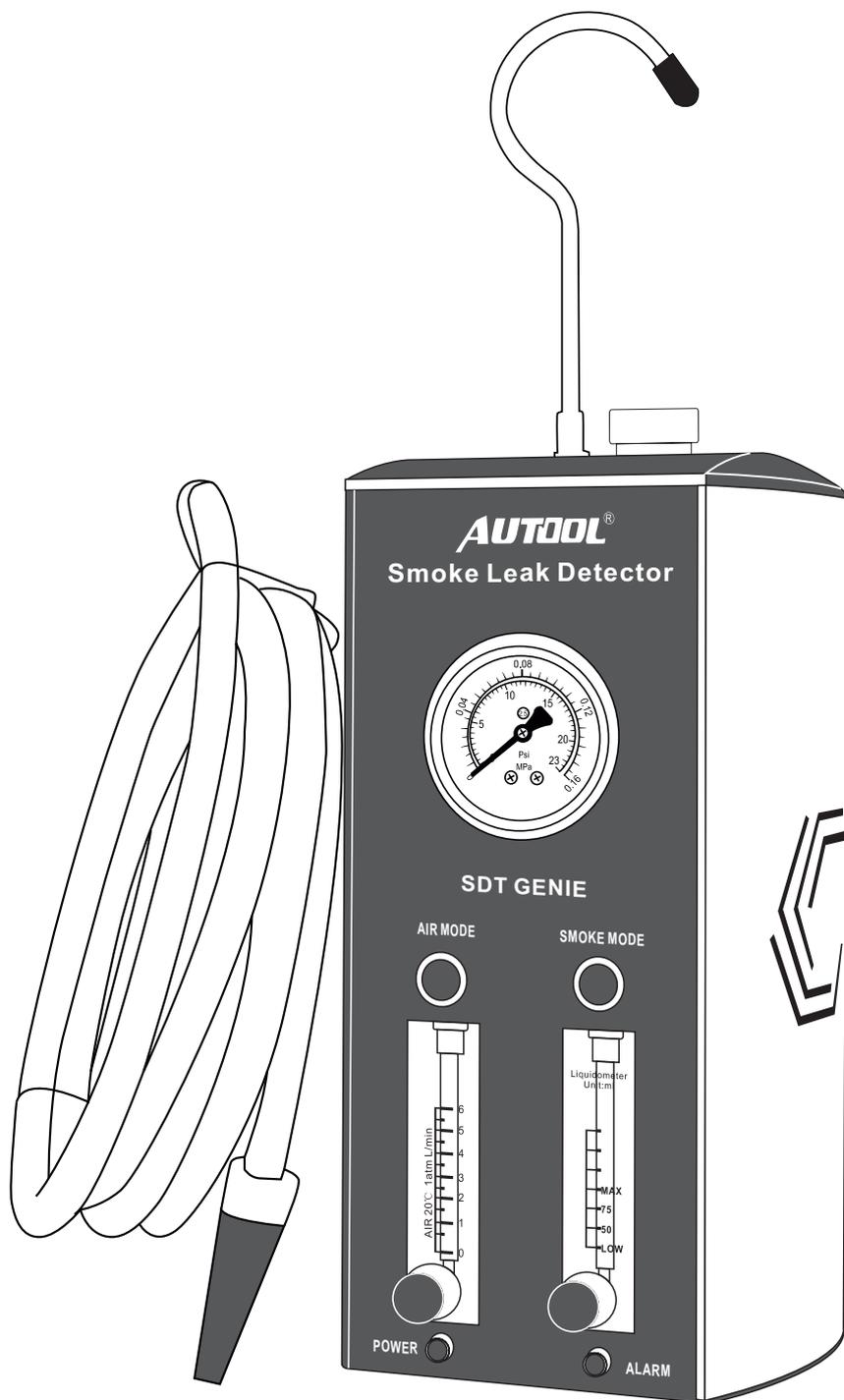


**AUTOOL<sup>®</sup>**

# SDT GENIE

## Smoke Diagnostic Leak Detector

### User's Manual



## 1. GETTING STARTED

This is a professional auto pipe leak detect tool. It will help us position leakage on any pipe system quickly and exactly, such as EVAP system, Intake system, exhaust system...and so on.

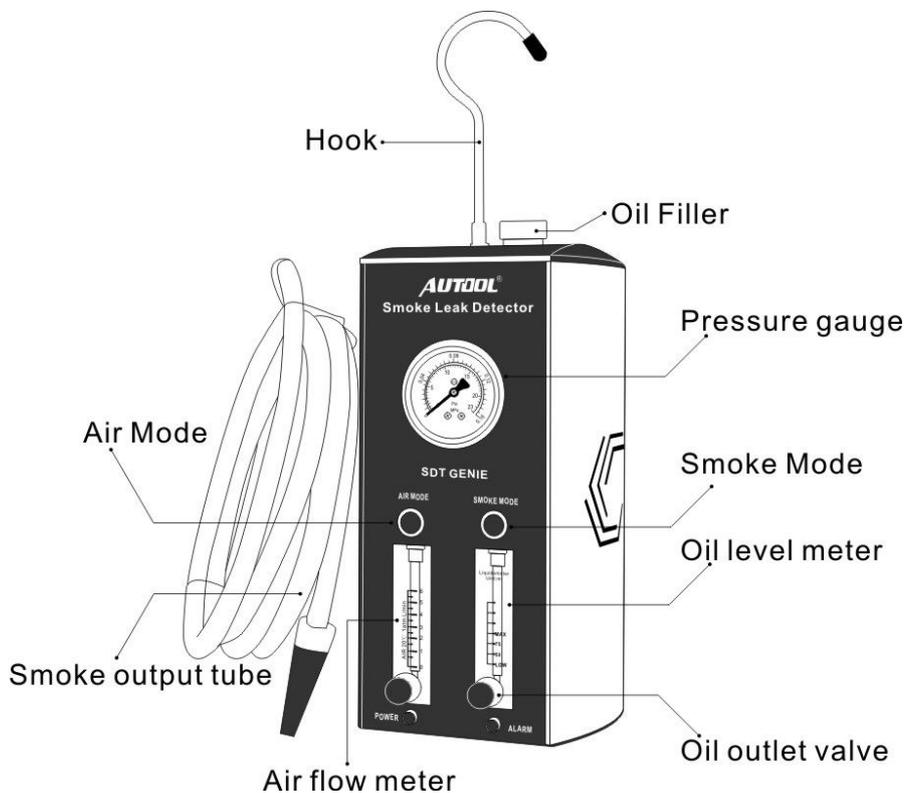
## 2. MAIN UNIT STRUCTURE

This tool is designed for detecting the leakage of pipe systems on cars, motorcycles, such as fuel pipe, air intake system and cooling tank. It is for all pipe system and EVAP.

### ! CAUTIONS:

1. When you use this detector the first time, please fill 20-30ml oil, not beyond this range.
2. Fresh oil can be filled with only when the smoke is light, and it can't be filled over 15ml every time.
3. Before filling fresh oil, please pour out the remaining oil in the detector.
4. Please replace the detector oil regularly.
5. Detector oil selection : Liquid paraffin , skin care glycerin or industrial glycerin, and baby oil are all OK. But please make sure there are not water inside and sticky liquid is forbidden.

## 3.TOOL DESCRIPTION



- 1.Hook.
- 2.Pressure gauge: To indicate the working pressure.
- 3.Working indicator: It is lit when the detector works.
- 4.Oil Filler: To fill oil.
- 5.Power switch: Power it on, and the detector works.
- 6.Smoke output tube: The smoke outlet which connecting with detection port.
- 7.Oil level meter: To indicate the filled oil amount.
- 8.Air flow meter : To indicate the working tube air flow.
- 9.Oil outlet valve: Test oil out let port.

#### **4. OPERATION**

1. Open the engine cover, and hang the detector in the cover.
2. 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.
3. Secure this side with proper taper stopple/pipe, and connect it with smoke output tube.
4. Connect detector with DC12V battery: red with positive, black with negative. Do not connect in a contrary way.
5. Turn on the power switch, and the detector starts to work.
6. In about 3 minutes, the pipe will be filled with smoke. Check the leak points. Please use head lamp if necessary.
7. After leak detection, please connect well the wires and pipe.

Notes:

- \* Please do leak detection away from smoke-sensitive parts.
- \* Do not run the detector over 8 minutes. It needs interval rest.
- \* The detector has protector. If it exceeds working limit, it will power off automatically. In this condition, please operate it later.
- \* The round part of this detector is with temperature, be careful to avoid scalding injury.

#### **5. MAINTENANCE**

With longtime high temperature, the smoke and oil will oxidize and deteriorate. It will infect the ser-vice life of smoke generated part, so please change smoke and oil regularly.

1. Before filling fresh oil, please pour out the remaining oil in the detector.
2. When the smoke output has water drops, please replace with fresh oil. Please fill fresh oil with equipped oil bottle.

## **6. HOW TO DO LEAKAGE TEST?**

1. Turn on device then block smoke exhaust port, record pressure gauge value.
2. Connect smoke exhaust port to the pipe system you want to test.
3. 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.

## **7. PACKING LIST**

1. Main Unit
2. Hook (with hand-tighten nuts)
3. Rubber stopples (with serial specification)
4. Taper stopple
5. Taper pipe
6. 30ml oil bottle
7. User manual
8. EVAP testing accessory
9. Adjustable inflate stopple

## **8. PRODUCT INFORMATION**

Power: DC12V, vehicle battery.

Smoke output value: 6L/min.

Built-in air supply.

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