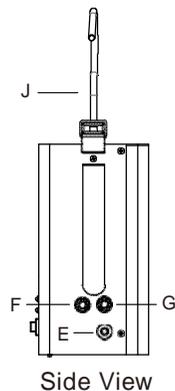
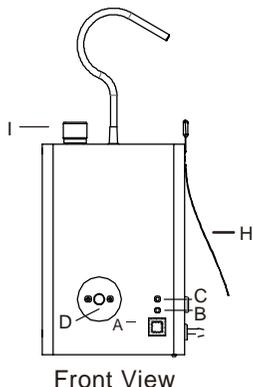


This Automotive Diagnostic Leak Detector is designed for test leaks in vehicle pipe system. It could be used on all cars, motorcycles, snowmobiles, ATV, light trucks, boats, etc.

Turbo Model also applicable on turbo system, but **NOT** for EVAP system.  
EVAP Model also applicable on EVAP system, but **NOT** for Turbo system.

## Main Unit Structure



### A - Start/Stop Button

Press to start a 5 minutes working cycle, press again within 5 minutes will shut it off immediately.

### B,C - Status Indicator

One LED will be ON when power supply is connected.  
Both LEDs will be ON when machine is working.

### D - Mounting Port for Pressure Gauge

Screw the block out, and mount an suitable pressure gauge to monitor pressure status.  
Gauge fitting is 1/8".

### E - Smoke Outlet Port

Plug the smoke tube inside this port at installation.

### F,G - Power Sockets

Plug the power cords into the sockets at installation. Red is for Positive (+) and Black for Negative (-).

**Caution:** The Unit **ONLY** can powered by DC 12V vehicle battery.

### H - Velcro Strap

For fixing the power cords and smoke tube at storage.

### I - Oil Refill Port

Take the plastic screw off, and refill smoking oil in.

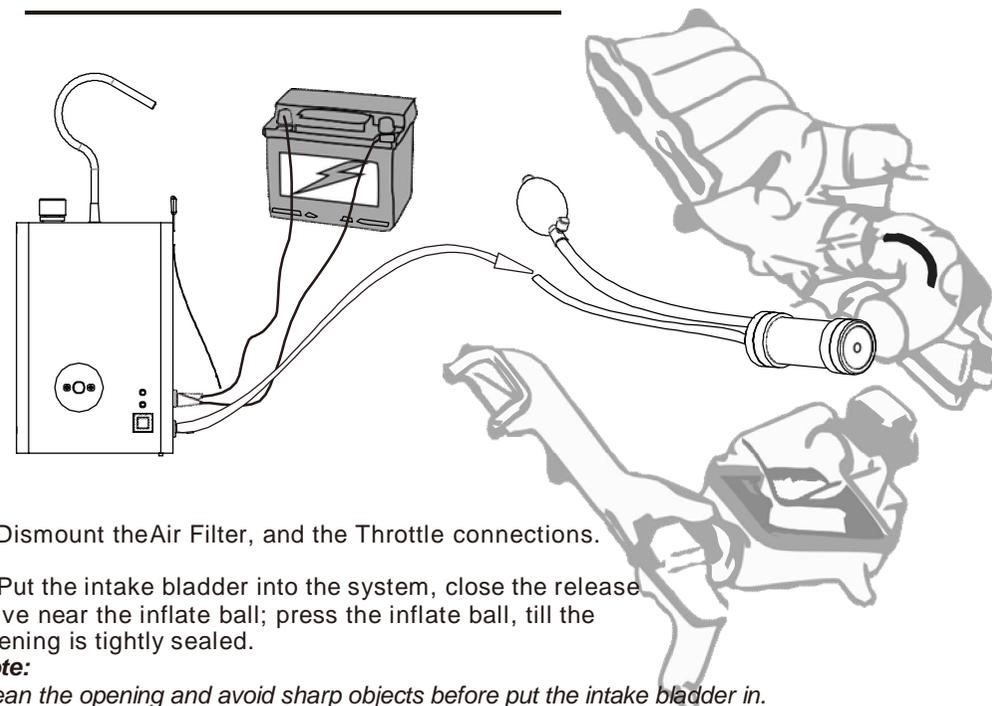
#### **Note:**

1. Only refill when smoke production become weak.
2. Refill level shall not exceed 15ml.
3. **Drain the old oil before refill**, by turn the unit upside down to let old oil come out from the oil refill port.

### J - Hook

Hook shall be installed into the port, for carrying and hang somewhere under the hood.

## Generic Operation Guide



1. Dismount the Air Filter, and the Throttle connections.

2. Put the intake bladder into the system, close the release valve near the inflate ball; press the inflate ball, till the opening is tightly sealed.

#### **Note:**

Clean the opening and avoid sharp objects before put the intake bladder in.

3. Connect power cords to vehicle battery.

Red clamp to positives and black clamp to negative.

one of the Indicators on the panel of the machine should be ON. otherwise, check the power cord connection.

4. Press the Start/Stop button, the machine will start an auto-stop 5 minutes working cycle. Press the Start/Stop button again in 5 minutes to shut it off immediately. Press the Start/Stop button after a working cycle will start another working cycle.

5. When there's obvious smoke come out of the smoke nozzle. plug the nozzle into the opening on the intake bladder tube.

6. In 2 minutes, the system will be ready for leak check. Use a bright light torch or working lamp to assist.

7. After leak test, collect the power cords and smoke tube, and tie them onto the machine with the velcro strap for storage. Do not need to unmount the power cords and smoke tube from the machine.

8. Loose the release valve near the inflate ball of the intake bladder, to let pressured air released from the bladder, then clean the bladder for storage.

#### **Caution:**

The machine can **NOT** be used on testing leak of smoke-sensitive parts, e.g. lamp housing. The Turbo model is **NOT** suitable to test leak in EVAP system.

The EVAP model is **NOT** applicable for Turbo system.

Only 12V vehicle battery are allowed to be used as power supply for the machine.

## **EVAP Leak Test** (Available with EVAP model ONLY)

Beginning with the 1996 model year, U.S. Vehicles have been produced with an EVAP Service Port to access this system. The port is usually located under the hood, but may be located elsewhere on the vehicle. To access this port for testing, remove the cap, then remove the Schrader Valve from inside the Service port, using the supplied Schrader Valve Removal Tool. (**The Schrader Valve has left-hand threads, turn clockwise to remove!**) Connect the supplied Service Port Adaptor to the Service Port.

## **Leak Confirmation**

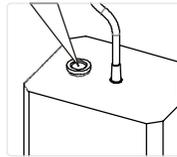
Perform leak test with the standard package, leak status and position could be confirmed by observation with assist of the inspection light, which is available in every workshop.

With optional pressure gauge, supplied pressure could be confirmed by block the smoke nozzle while machine is not producing smoke, if the pressure during test can not reach the same reading, means there's a leak. and the difference in reading indicates the leak size.

## **Chemical**

This Automotive Diagnostic Leak Detector uses **Paraffin/Baby Oil** as smoke juice. Fill 20ml smoke juice before first time use, refill when smoke generated become weak, and confirm with dipstick. **Use a small-opening -bottle to refill.**

**Overfill:** Turn the main unit upside-down to drain smoke juice.



## **Warranty**

1. The main unit entitled free warranty since the date of purchasing up to 12 months.
2. For warranty issue concerning the intake bladder, please make inquiry to the distributor.
3. Any damage to the machine caused by misuse, or improper operation, is not covered by warranty.

## **Product Information**

Power Supply: 12V vehicle battery  
Flow Rate: 5 L/Min  
Flow Control: N/A  
Pressure Control: N/A  
Auto-off: 5 Min

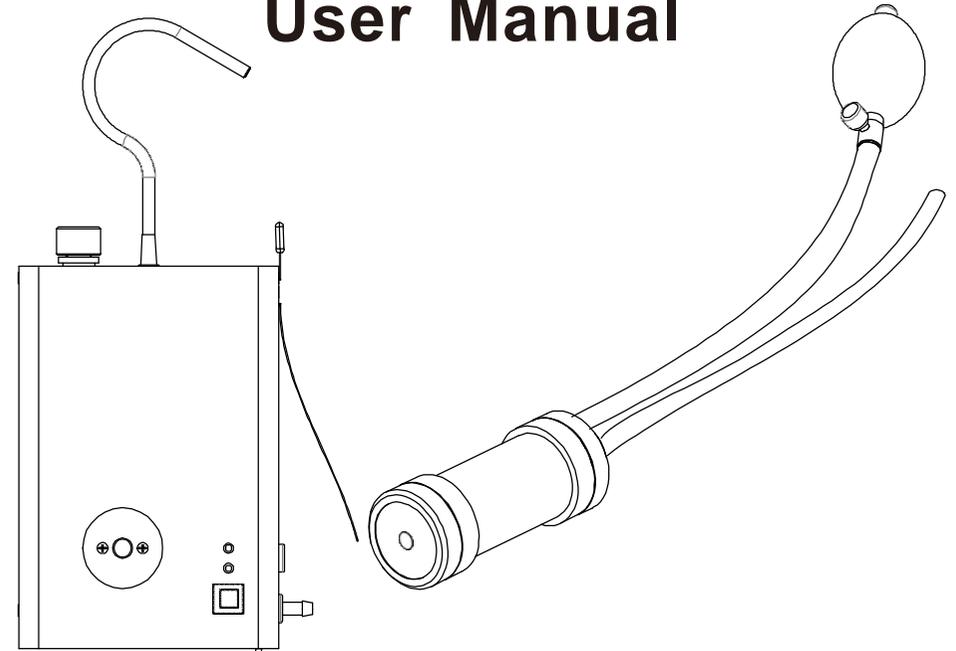
<b>Model</b>	
Data of Purchase	

## **Service Records**

Date	Problem Description	Solution	Signature

# Automotive Diagnostic Leak Detector

## User Manual



### Inside the standard package you could find:

- 01 Plastic Casing
- 01 Main Unit
- 01 Intake Bladder
- 01 Power Cords
- 01 Smoke Tube
- 01 EVAP Adaptor<sup>(1)</sup>
- 01 Schneider valve Removal Tool<sup>(1)</sup>
- 01 Hook
- 01 Manual

<sup>(1)</sup> Only Available in EVAP Model

CE FC

The Manufacturer reserves the right of improving the structure and design of the product without prior notice.