



COMPETITION

BEDIENUNGSANLEITUNG - NOTICE D'UTILISATION - OPERATING INSTRUCTIONS



512.5115

-  RAUCH-LECKSUCHGERÄT
-  DÉTECTEUR DE FUITES PAR FUMÉE
-  SMOKE LEAK DETECTOR
-  DETECTOR DE FUGAS POR HUMO
-  RILEVATORE DI PERDITE A FUMO
-  RØGLÆKAGESØGER
-  WYKRYWACZ NIESZCZELNOŚCI DYMEM
-  ROOKLEKDETECTOR
-  ДЫМОВОЙ ТЕЧЕИСКАТЕЛЬ
-  كاشف تسرب بالدخان

DE/TTE/FFI/20-07-2026

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Introduction

Dear Customer,

You have chosen a product from KS Tools. Thank you for your trust. This manual contains all the information you need for the safe and proper use of the product. Please therefore read the instructions thoroughly before use and always follow the guidance provided therein. These instructions form part of the article and should therefore be kept in such a way that they remain undamaged.

If you have any queries or require further information, please contact: customerservice@competitiontools.com

1. Terms of use

The manufacturer accepts no liability for personal injury or damage to property resulting from unauthorised or improper use.



Please follow the vehicle manufacturer's instructions!

2. Technical specifications

Power supply: 12V car battery

Flow rate: approximately 6 L/min

3. Contents of the package

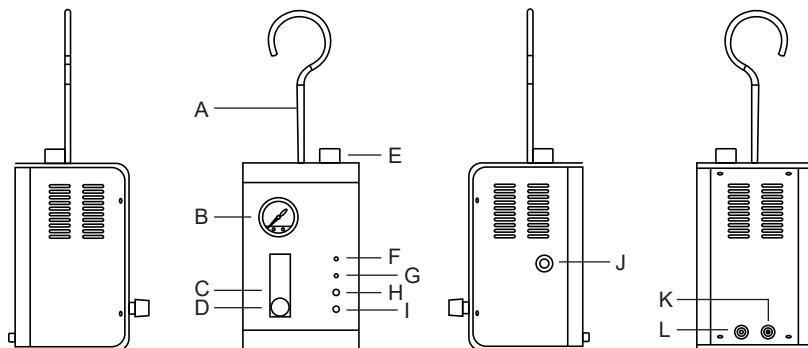
1. Main unit
2. Connection cables (power cables)
3. smoke hose
4. hanging hook
5. filling hopper
6. Inflation adapter
7. Rubber ball (air bladder)
8. Intake adapter cone
9. Sealing plugs (23 pieces)
10. User manual

4. Safety and User Instructions

Tools must generally only be used for their intended purpose, under the specified conditions and within the limits of their intended use.



5. Overview



- A. Hanging hook
- B. Pressure gauge (pressure indicator)
- C. Leak detector
- D. Smoke volume control
- E. Filling opening
- F. Power indicator (Power LED)
- G. Air/Smoke mode indicator
- H. Shift key: Air/Smoke mode
- I. Start/Stop button
- J. Oil level indicator (sight glass)
- K. 12V DC connection
- L. Smoke outlet

This vehicle leak detector (smoke generator) is used to check for leaks in vehicle systems. Suitable for use in cars, motorbikes, snowmobiles, ATVs/quads, light commercial vehicles, boats, etc.

6. How it works

1. Connect the connecting cables to the power sockets
2. Fit the flue pipe to the flue outlet and secure it with the quick-release fastener
3. Open the oil filler cap and pour in the smoke oil
 - Check the oil level through the sight glass
 - The maximum level must not be exceeded
 - If overfilled, turn the unit upside down and drain off the excess oil



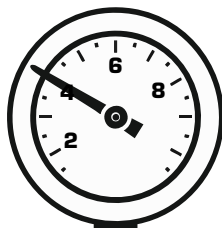
4. Open the smoke volume control
5. The device is ready for use

6.1 Test run

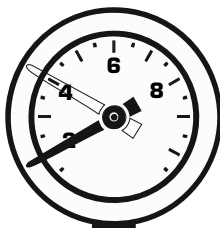
1. Connecting a 12V car battery
 - Red = Positive (+)
 - Black = Negative (-)
 - The power indicator is lit
2. Set the flow regulator to maximum
 - Flow indicator active
3. Set air/smoke mode
 - Green = Air mode
 - Red = Smoke mode
4. Press the start button
 - The float in the leak detector rises
5. Plug the smoke outlet on the hose with your finger
 - The pressure gauge shows the outlet pressure
6. Enable smoke mode
 - The device starts to produce smoke

6.2 General operations

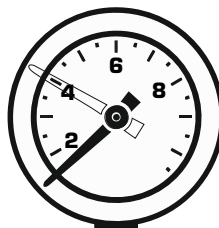
1. Switch off the ignition
 - The engine must be switched off for the leak test
2. Remove the air filter and throttle body connections
3. Clean the connection opening (no sharp edges)
4. Insert the suction adapter cone
5. Connection to a 12V battery
 - The battery should be fully charged
 - Do not use a 12V power supply
6. The device generates a flow of compressed air
7. Set the flow to maximum and direct the smoke through the adapter
8. Wait for about 2 minutes (to build up pressure)
9. Monitor the flow meter and pressure gauge



NO LEAK



A SMALL LEAK



MAJOR LEAK

10. Assess the extent of the leak based on the indicators

11. In the event of a leak

- Enable smoke mode

12. Briefly remove the hose and reinsert it as soon as smoke appears

13. Check the system after about 2 minutes

- Use of a workshop lamp is recommended

14. After the exam:

- Secure the cables and hoses with Velcro
- Clean the adapter

Notes:

1. Use sealing plugs to seal individual openings
2. Partial testing of individual system areas is possible
3. Smoke testing is not suitable for oil-sensitive components (e.g. headlamp housings)
4. Only 12V vehicle batteries are permitted as a power source

6.3 Equipment protection

Continuous operation: max. 10 minutes

Frequency-controlled technology for stable operation

Built-in overheating protection

Please note: Do not top up the oil whilst the machine is running

6.4 Air mode / Smoke mode

Air mode: Detecting leaks

Smoking mode: Locating the leak

You can switch at any time



6.5 EVAP leak test (evaporative emission control system)

You must select the model and kit for the EVAP test

General OBD EVAP-related codes: P0443–0457 / P0465–0469

1. Locate the EVAP inlet connector (green cap in the engine compartment)
2. Remove the Schrader valve using the Schrader valve tool

Note: The valve has a left-hand thread

3. Fit the EVAP service connection adapter
4. Connect the smoke nozzle to the EVAP service port adapter, introduce compressed air into the system and turn the flow regulator to maximum; check the pressure gauge and flow meter to confirm whether there is a leak
5. If there is a leak in the system, press the start/stop button; the device will begin to generate smoke and will automatically stop after a 5-minute cycle
6. Remove the smoke nozzle and reinsert it if smoke is clearly coming out of it
7. The system will be ready for leak testing in 2 minutes. Use a bright torch or work light to help you
8. After the leak test, secure the power cables and the flue pipe with Velcro and clean the intake adapter cone (or the universal intake adapter) before storing

6.6 Chemicals

It is recommended that you use special smoking oil.

Overfilling: Turn the appliance upside down to drain off some oil

7. Maintenance

Faulty or defective spare parts may cause damage.

8. Control

All tools must be checked for damage.

9. Disposal

The tool must be disposed of or recycled in accordance with the relevant national legislation.



10. Warranty and Service

The KS Tools Werkzeuge und Maschinen GmbH warranty applies to all tools used under normal operating conditions.

The following are excluded from the warranty:

- Consumables, e.g. all types of cutting tools, grinding inserts and discs, cutting and scraping tools, brooms, brushes, files, batteries, rechargeable batteries, bits or bit sockets, rotor blades in pneumatic tools, insulators on heating coils, all types of fuses, carbon brushes, etc.
- Malfunctions of parts subject to wear and tear resulting from use or other natural causes, as well as defects in the tool attributable to wear and tear resulting from use or other natural causes.
- Defects in the tool resulting from failure to follow the operating instructions, improper use, use under abnormal environmental conditions or inappropriate operating conditions, overloading, or improper maintenance. This also includes damage to tools caused by the use of accessories or other parts that are not genuine KS Tools parts.
- Tools to which changes or additions have been made.
- Minor deviations from the specified quality, which are, however, of no significance to the value and serviceability of the tool.

The warranty period is 12 months in the case of commercial use or use of a similar nature. The warranty period begins on the date of purchase by the commercial end customer. The date on the original receipt is decisive. For technical products covered by a limited warranty (Types A, B and C), the user must always provide proof of purchase, stating the serial number of the device, if available.

The warranty is valid, subject to the type of warranty, for the period specified in the price list valid on the date of purchase of the product.

WARRANTY STATEMENT

If the product is not covered by the warranty (due to the warranty period having expired or exclusion from the warranty for the reasons listed above), but repair is possible, it will only be carried out once the user has approved the quote.

Any claims other than the right to have defects rectified, as set out in this warranty, are expressly excluded from this warranty.



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