

LEAK-DETECT for optimized engine power



Picture 1: Engine



Picture 2: LEAK-DETECT



Picture 3: LEAK-DETECT Set with case

The highest power of a combustion motor is only achieved when the air - and exhaust system is absolutely airtight. Leakages reduce the power at the engine shaft and cause measurement faults at the engine test station.

Now it is possible to detect the leakages in an easy way: with the ultrasonic leakage detector **LEAK-DETECT**. Typical leakage locations in the engine are hose connections with clips, fittings or couplings; further air filter housings with clamping elements and charge air coolers. During the leakage tests the motor should run idle.

The contact free measurement of **LEAK-DETECT** provides an easy detection: you simply hold the ultrasonic sensor near the suspicious location and listen to the hissing sound in the earphones. Even small leaks are audible. Also leaks of partial vacuum with only 15 mbar inlet air pressure! These tiny leaks can be focused by a focus probe.

The so called „leakage-spray“, which is nothing else than soap and water, does not work in this case. Heated engine parts with more than 200 °C evaporate the soap water or it will be sucked in by vacuum leaks.

In contrast, the **LEAK-DETECT** ultrasonic check is clean, works without any liquid and is more reliable.

Further **LEAK-DETECT** applications:

- leaks in compressed air systems
- tightness check of doors, windows and flaps with an ultrasonic transmitter
- leaks in vacuum systems e.g. films of composite materials in lightweight constructions



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