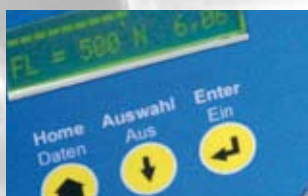


TOOTHED BELT TENSION TESTER ZSM 01

For testing the tension
of a car's toothed belt



Ref. No. 041503_1



Pressure gauge display



Sensor

- Simple, universal use on all types of toothed belts in almost any car
- Permits testing while the belt is being tensioned
- Miniaturised sensor allows the tester to be mounted on fully installed engines
- The sensor can be mounted on the belt with one hand
- Acoustic and visual signals indicate successful tests
- Simple menu leads through the test program

**No subjective adjustments
or checks on belt tension!**

OTHER ADVANTAGES:

- Test result given in Newtons, the official reference value
- For use with 12 V vehicle electrical systems
- Programmable, individual user settings, e.g. lighting, cutout, etc.
- Test results can be transferred to PC via serial interface



DIN EN ISO 9001:2000
Reg.no. 12 100 24343 TMS

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TOOTHED BELT TENSION TESTER ZSM 01

Audi A3



VW Sharan



Fiat



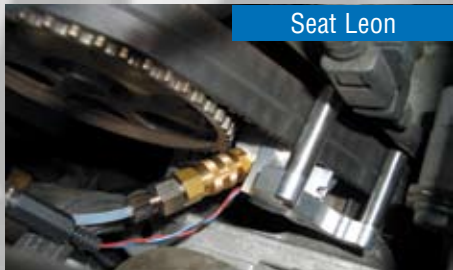
Ford Galaxy



Opel Astra



Seat Leon



How it works:

The ZSM 01 toothed belt tension tester uses pneumatically generated air pressure to determine belt tension in terms of 'longitudinal newton force'. In this context, pneumatically generated air pressure means that a pin is pressed against the belt by means of compressed air. The ZSM 01 consists of a measuring head and a digital display unit, otherwise referred to as a pressure gauge. The tester also features a hand pump for the purpose of generating the compressed air.

ZSM 01 sensor head:

The measuring head of the ZSM 01 constitutes the central element of the tester. Its most important components are the cylinder, the plunger (to transmit force to the belt) and two rollers which enable belt tension to be tested while the belt is being tensioned. A wedge is mounted at the end of the plunger which minimises its surface area and, in this way, permits the maximum transfer of force to the belt. The external dimensions of the measuring head are selected in such a way that it can be installed in any engine compartment. Unlike competitors' products it is placed on the inside of the belt. Here, in most cases, there is always considerably more space for a tester than on the outside, where casings, hoses and other engine components make this difficult. Only one hand is needed to install the measuring head on the belt. Once it has been attached, it remains in place, permitting the hand to be removed from the engine compartment in order to operate the hand pump.

ZSM 01 display unit:

The digital pressure gauge can be mounted directly to any of the standard hand pumps in the Leitenberger GmbH range of vehicle testers. It can be individually programmed to every customer's requirements and features an external interface for the exchange of data with a computer. It is designed to operate on a 12 Volt power supply, so the ZSM 01 tester can also be connected to the car battery.