



- Brake Maintenance
- Hydraulic Devices
- Wheel Alignment
- Tyre Service
- Engineering

Order-No.: **09905-30**

Type: **09905**

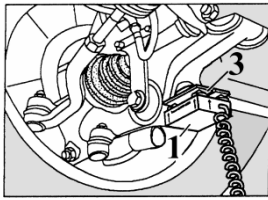


With the electronic measuring device **09905** the vehicle level is registered via the position of the transverse links respectively the axle drive shafts or areas of support in the degree of angle. In addition to the determined angular values (in degree decimal) the reference variables can then be allocated concerning wheel camber, caster and toe. Upon measuring the supporting surfaces you receive the angular deviation with regard to the horizon, e.g. aligning or verifying of a wheel alignment stage.

The electronic measuring device also serves for the measurement of the buckling angle of a drive train. The following angles are measured with the instrument: Absolute angle of the transmission, of the propeller-shaft (1+2, in cases with 3 i.e. rescue vehicles) and of the rear axle middle piece.

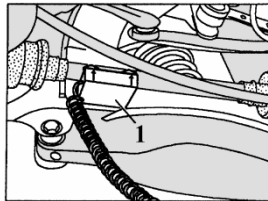
Description:

Application Example on the Front Axle



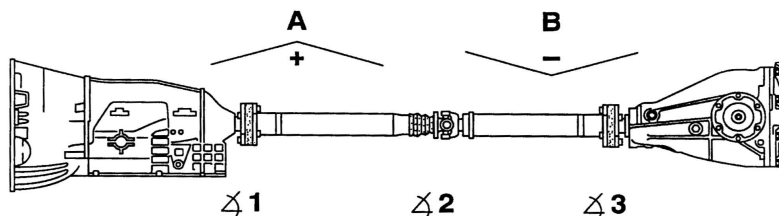
To acquire the data of the lower transverse links a simple adaptation plate (3) is required. By means of this adaptation plate a defined supporting surface is created for the inclinometer (1). Insert the adaptation plate (3) in the sparing on the left lower transverse link and align it. Put on inclinometer (1) (indication is effected via the display of the operating device) and store the measured value. Repeat the work steps on the right lower transverse link.

Application Example on the Rear Axle



The data of the inclination of the rear axle shafts are acquired via the conical contours of the inclinometer. View from the vehicle middle to the left rear axle shaft. Put inclinometer (1) directly from underneath onto the left rear axle shaft and store the measured value. Repeat work step on the right rear axle shaft. Reprint or reproduction allowed only with authorization through the manufacturer.

Application : Propeller – shaft – buckling angle measurement



Technical Data:

Sensor for the measurement of 2 levels, micro processor controlled
 Measuring range: +/- 15.5° horizontal level (x-drivin g direction)
 +/- 7.5° vertical level (y-right angle to driv.-d ir.)

Linearity: 0.035 %

Temperature range: 0-70°C

Power supply: ca. 4.8 – 6 Volt/0.8 Watt

Charging socket for the supply unit: 12 V, ca. 250 mA for charging 4 x 1,2 V NiMH-rechargeable batteries

Dispatch (LxWxH) in mm: 450 x 378 x 90

Weight: about 4.5 kg

Resolution: 0.10° (inclinometer)
 0.02° (buckling angle)

Measuring precision: 1 %

Interface: RS-232, USB

Type of protection: IP 65

Scope of delivery:

Operating device with display, power supply, standard adapter for inclinometer 09606-50 and standard adapter set for propeller-shaft-buckling angle measurement 09935-25, carrying case.

Order-No.:

09905-30 Power supply 230 V/50 Hz

09905-31 Power supply 110 V/60 Hz

Accessories:

Data transfer and charging station with power supply, data cord (9 pole, 1.2 m length), order-no. 09630-10 (220 V)/09630-11 (110 V).

Separate adaptations as a complete standard set:

Sensor support for adaptations:

Adaptation for transmission Ø 10 mm:

Adaptation for transmission Ø 15 mm:

Adaptation for transmission Ø 16 mm:

Adaptation for rear axle middle piece (Y-adaptation):

Adapter set complete for NCV2 (automatic transmission)

(not included in scope of delivery):

Order-No.

09935-25

09935-20

09935-21

09935-22

09935-23

09935-24

20036-50

Modifications and errors reserved, 09/04/2009

Inclinometer for determining the individual inclinations of suspension links, shafts and bodywork elements in motor vehicles protected by patent law EP 0 826 945.

Process for measuring the relative angle position of body parts of vehicles protected by patent law DE 101 13 024.