DÜRR

x-tronic balancer

The mobile measuring device for commercial vehicles

The x-tronic balancer is a mobile measuring device which is available in 2 standard versions:

- x-tronic balancer TC - without ECU communication
- x-tronic balancer TC - with ECU communication

The current turning angle is constantly shown on the LC display. In addition, the device carries out an evaluation of the measuring result and indicates this via LEDs and an acoustic signaller.
The measurement results are transmitted wirelessly or via cable to the test system PC.

Parallel to the chassis adjustment tasks, the test system PC can parameterize ECUs and perform diagnostic tasks via the integrated diagnostic interface of the balancer (option).

FEATURES

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Measuring the steering wheel angle of commercial vehicles

Fixing the steering wheel at the steering lock angle 0°

Communication between test system PC and vehicle electronics (optional)

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APPLICATION

- Measuring and auxiliary device for adjusting the toe position of vehicles in the wheel alignment stand
- Measuring and auxiliary device for the toe angle adjustment under consideration of the steering angle hysteresis
- Measuring device and diagnostic interface for calibration of ESP steering angle sensors, level control, headlamp adjustment
- Diagnostic interface for general electronics tests parallel to chassis adjustment

BENEFIT

- Quick adaptation to different steering wheels due to rotary plate in the support
- Display and evaluability of the steering wheel inclination to control the adjustment process

x-tronic balancer TC for commercial vehicles with ECU diagnosis

TECHNICAL DATA

Steering angle measurement	
Measuring range	$\pm$ 30°
Display resolution	0,1°
Accuracy	0,2° from -10° to +10°, lateral inclination error <1% to 45° Querneigung
Time constant	Averaging parameterizable
Transfer area of the wind screen support	60 mm continuously variable
Steering wheel clamping	Hooks at the back side of the device

Host interfaces	
Cabled: RS232	2 (thereof 1 channel for flashing the device firmware)
Radio:	FHSS
Vehicle interfaces	
CAN - Bus	4 parallel physical CAN channels according to specification 2.0B
K-/L-Line (option) max. 3 modules	2x2 channels per module, multiplexed, according to ISO 9141-2
Further vehicle interfaces	possible via universal expansion slots: on request