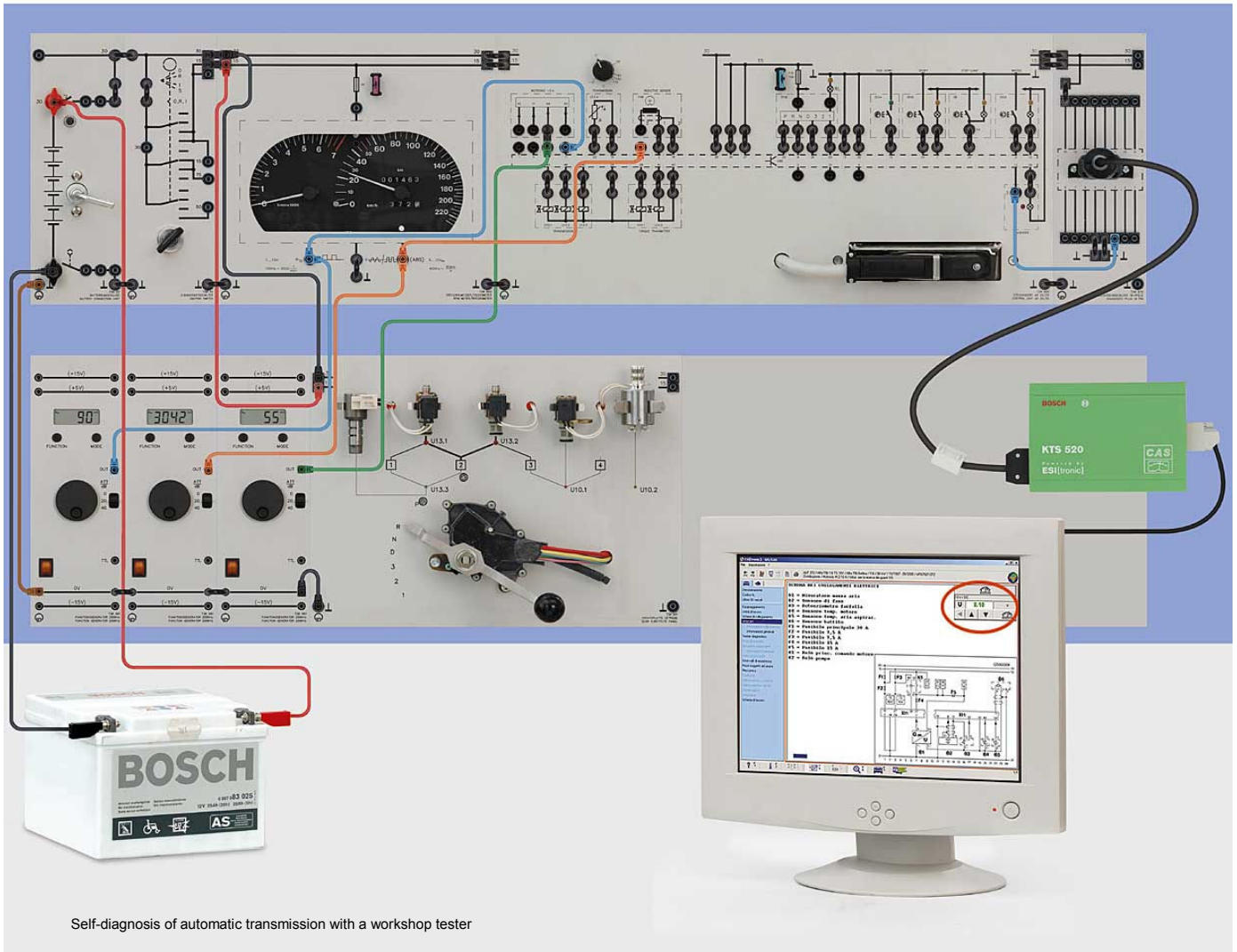


T 3.2.13 Electronically Controlled Power Train and Running Gear Systems

T 3.2.13.1 Automatic Transmission Systems

T 3.2.13.2 Steering Booster



Self-diagnosis of automatic transmission with a workshop tester

Training Objectives

- ➔ function of an automatic transmission
- ➔ drive-gear selection
- ➔ the "kick-start" principle
- ➔ the gear-shift lever's function
- ➔ purpose and control of valves
- ➔ dynamic adaptation of power steering
- ➔ using the self-diagnose function

T 3.2.13 Electronically Controlled Power Train and Running Gear Systems

T 3.2.13.1 Automatic Transmission Systems

T 3.2.13.2 Steering Booster

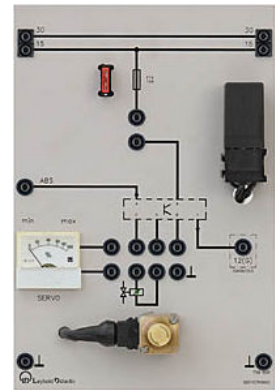
Convenience in the car

In the USA it has been a virtual standard for many years, in Germany it is just now becoming popular – the automatic transmission. This training system is equipped with a 4-speed automatic control that consists of a control unit and a gear substitute panel. Connections for sensors and activators are located on the panel's rear side. The control unit is capable of operational modes: ■ economy ■ sport ■ winter and ■ kick-down. The gear substitute panel has a drive-select lever as well as magnetic valves for: ■ 1-2/3-4 switching ■ 2-3 switching ■ converter coupling ■ pressure regulator and ■ brake band.

Measurement values are recorded with CASSY, the control unit can optionally be connected to additional student test stations (➔ 740 050 and ➔ 740 059).

The control unit for speed-dependent power steering operates a magnetic valve as a function of speed. The slower the vehicle is moving, the greater power steering assistance will be.

- ➔ Both control units are capable of self-diagnosis: the self-diagnose function can be activated with an appropriate diagnostic tester via the diagnose interface.
- ➔ Both systems can be used individually, i.e. as free-standing complete systems, or as an expansion to the "LH-Motronik" (➔ T 3.2.5.10) equipment set.



Servotronic, 739 500

EQUIPMENT LIST, T 3.2.13.1

Automatic Transmission Systems

QTY.	CATALOG NO.	DESIGNATION
1	739 600	Control Unit AR 25/35
1	739 601	Gear Substitute Panel
1	739 602	Tachometer/Speedometer
(1)	738 975	Diagnostic plug 16 pin
1	569 752	Book: Automatic Transmission T 3.2.13.1

EQUIPMENT LIST, T 3.2.13.2

Steering Booster

QTY.	CATALOG NO.	DESIGNATION
1	739 500	Servotronic
1	739 602	Tachometer/Speedometer
(1)	738 975	Diagnostic plug 16 pin
1	569 771	Book: Power-Assisted Steering (Servotronic) T 3.2.13.2

