

**MODEL 129, 140 as of 1.6.96,
163, 170,
202 as of 1.8.96,
208 up to 31.7.99,
210 as of 1.6.96 up to 30.6.99**

General

The instrument cluster (A1) is basically used to inform the driver about important vehicle operating conditions and to warn him about critical operating conditions if necessary. For this the instrument cluster has various warning and indicator lamps, display instruments and acoustic transmitters.

On the instrument cluster with multi-function display some warning and indicator lamps are replaced by text overlays.

The information required is transmitted from the sensors to the instrument cluster via lines or from various control modules to the instrument cluster via CAN data buses.

The instrument cluster has a microprocessor for processing the incoming data. The program and the data required are stored in an electronic memory chip (EEPROM).

As of 06/97 **all** instrument clusters have the Active Service System (ASSYST).

	Function of indicator/warning displays		GF54.30-P-2001A
	Block diagram		GF54.30-P-0002-01A
	Function of display instruments		GF54.30-P-2002A
	Function of inputs/outputs		GF54.30-P-2003A
	Function of control buttons	Models 129, 140, 170, 163 Models 202, 210	GF54.30-P-2004A GF54.30-P-2004B
	Overall function of bus systems		GF54.00-P-0004A
	Function of maintenance display	Model 170	GF54.30-P-0007A
	List of contents of complete system Active Service System (ASSYST)	Model 201 as of 15.02.97 with engines M112, M113 and model 210 as of 01.03.97 with engines M111, OM 602, OM 604, OM 605 and OM 606 and models 129, 140, 170, 202, 208, 210 as of 06/97 Model 163	GF00.20-P-0997AZ