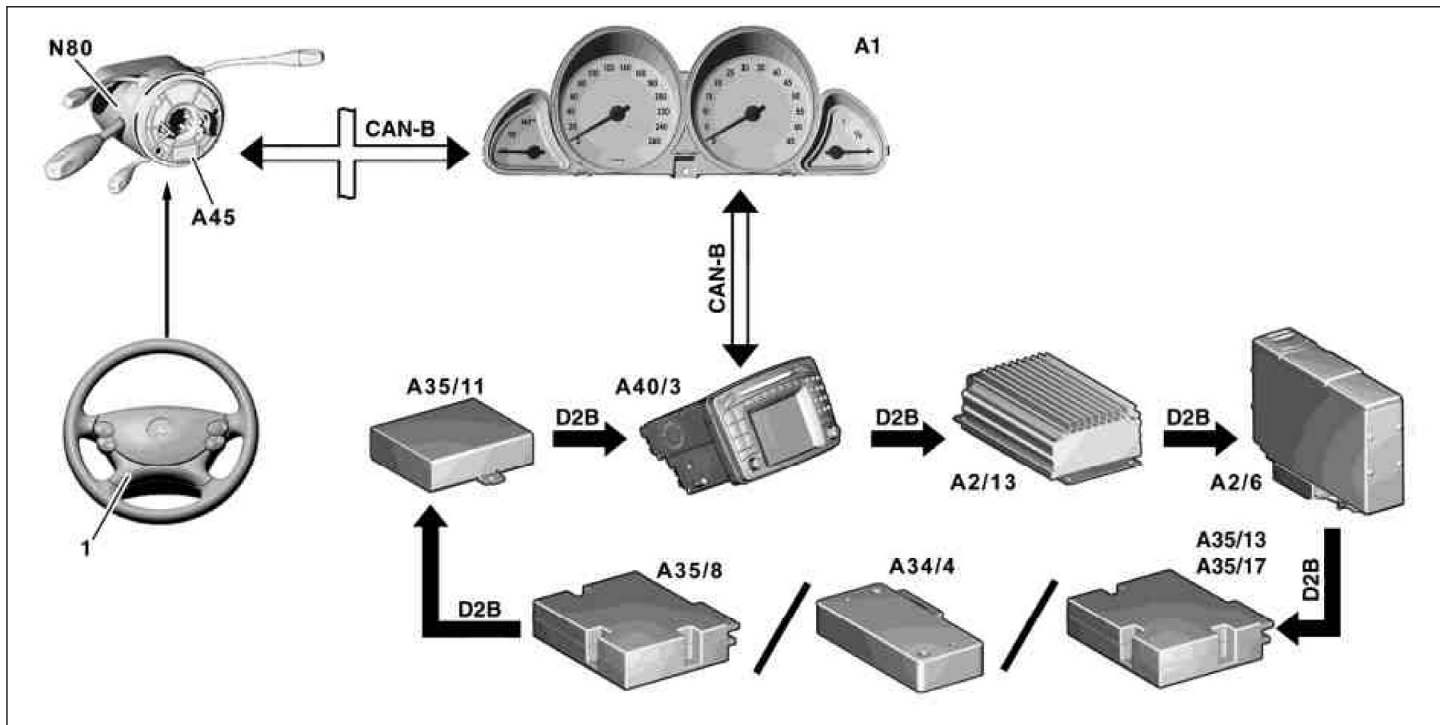


**MODEL 230**

with CODE (352a) COMAND operating and display system  
 except CODE (491) U.S. version  
 except CODE (498) Japanese version



P82.90-2036-09

**Component networking**

<i>CAN B</i>	<i>Passenger compartment CAN bus</i>	<i>A2/13</i>	<i>Sound amplifier</i>	<i>A35/8</i>	<i>Emergency-Call control module (USA only, Japan)</i>
<i>D2B</i>	<i>Digital Data Bus</i>	<i>A34/4</i>	<i>Cellular telephone interface</i>	<i>A40/3</i>	<i>COMAND operating, display and control module</i>
<i>1</i>	<i>Multifunction steering wheel</i>	<i>A35/11</i>	<i>Voice control system control module</i>	<i>A45</i>	<i>Fanfare horns and airbag clock spring contact</i>
<i>A1</i>	<i>Instrument cluster</i>	<i>A35/13</i>	<i>D2B telephone transmitter/receiver</i>	<i>N80</i>	<i>Steering column module</i>
<i>A2/6</i>	<i>CD player with changer (in trunk)</i>	<i>A35/17</i>	<i>D2B telephone and TELE AID transmitter/receiver</i>		

**COMAND operation on multifunction steering wheel**

The following COMAND controlled systems can be operated and information on the system displayed with the aid of the buttons on the multifunction steering wheel and the multifunction display (A1p13) of the instrument cluster (A1):

- Audio systems: Radio, CD changer,...
- Navigation system
- Telephone

All data exchange between the instrument cluster (A1) and the COMAND operating, display and control module (A40/3) takes place via the CAN passenger compartment:

Actuation of the buttons on the multifunction steering wheel are read in voltage-coded by the steering column module (N80) and transported to the instrument cluster (A1) via the passenger compartment CAN bus.

The instrument cluster (A1) links these signals with the systems momentarily displayed on the multifunction display (audio, navigation, telephone).

This interpretation is necessary because the operation of the buttons depends on the current content of the multifunction display (A1p13). The interpreted data is subsequently put onto the CAN by the instrument cluster (A1) and received by the COMAND operating, display and control module (A40/3).

Changing the system on the multifunction display has no effect on the display on the COMAND operating, display and control module (A40/3), however, it does have an effect in the opposite direction.

**i** The instrument cluster (A1) receives the current time from the COMAND module because the time is received automatically via GPS and does not require resetting.

**COMAND-specific operating and display facilities on the multifunction display:**

**Radio**

Readout:

- Set frequency band and possible memory slot number (e. g. FM1)
- Name (only for RDS station) and frequency of station
- Information as to whether station search should take place using frequency or stored station list ("SP")

Operation:

- Volume
- Station search using station list or frequency

**CD changer (optional)**

Readout:

- Number of CD currently playing
- Number of currently stored CD track

Operation:

- Volume
- Select title

-----

- Telephone number (if stored) or name of caller (if transferred via radio)

Operation:

- Volume

**Navigation**

Readout:

- Name of the road currently being traveled along
- Next street to turn off into
- Distance to next turning point (in units of length or as distance beam)
- Turn-off arrow

Operation:

- Volume of voice output

**Walkman (connectable via separate socket in glove compartment)**

Readout:

- None

Operation:

- Volume

**Telephone**

Readout:

- Request for PIN entry
- Name of provider
- Vehicle outside transmit or receive range of telephone network

-----

- Selection of name from stored telephone book, display of telephone number and memory location number of party called
- Acceptance of a call
- Redial

	Operating, display and control module, location/task/design/function		GF82.85-P-3114RA
--	----------------------------------------------------------------------	--	------------------