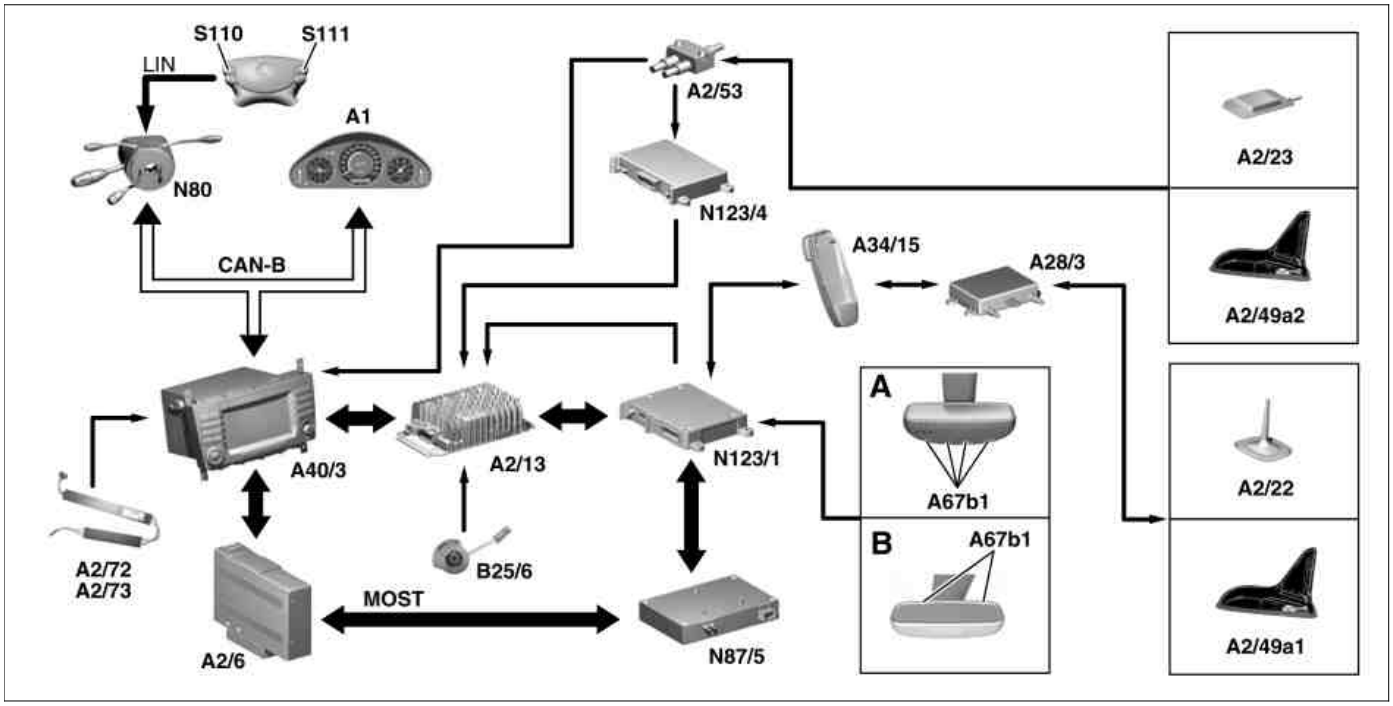
MODEL 209.3 /4 as of 1.6.04 with CODE (530) COMAND APS USA (with navigation system)



P82.86-6026-09

A1	*Instrument cluster*
A2/6	*CD player with changer (in glove box) (with code (819)) 6-disk CD changer*
A2/13	*Sound amplifier*
A2/22	*Telephone antenna (model 209.4, model 209.3 up to 31.5.06)*
A2/23	*GPS antenna (model 209.4, model 209.3 up to 31.5.06)*
A2/49a1	*Telephone antenna (model 209.3 as of 1.6.06)*
A2/49a2	*GPS antenna (model 209.3 as of 1.6.06)*
A2/53	*Telephone/STH radio remote control antenna splitter*
A2/72	*Window antenna amplifier module 2*
A2/73	*Amplifier module 3, window antenna*
A28/3	*E-net compensator*
A34/15	*UPCI [UHI] portable CTEL holder (Universal Handy Interface) (with code (387) Preinstallation for telephone "Handy", UPCI system, USA/ Canada)*
A40/3	*COMAND operating, display and controller unit*
A67b1	*Hands-free system microphone group*
B25/6	*Sound amplifier microphone*
N80	*Steering column module*
N87/5	*SDAR control unit*
N123/1	*Universal Portable CTEL Interface (UPCI [UHI]) control unit (with code (387) Preinstallation for telephone "Handy", UPCI system, USA/ Canada)*
N123/4	*Emergency call system control unit*
S110	*Left multifunction steering wheel button group*
S111	*Right multifunction steering wheel button group*
A	*Vehicles up to 31.5.06*
B	*Vehicles as of 1.6.06*
CAN B	*Controller Area Network bus Class B (interior compartment) (CAN-B)*
MOST	*Media Oriented System Transport*
LIN	*Local interconnect network*

Function

The COMAND operating, display and controller unit (A40/3) is the central Cockpit Management and Data Systems (COMAND) component. Operation takes place using preset function keys and 2 rotary switches as well as menu-assisted on the display. Some functions can also be activated using the left multifunction steering wheel button group (S110) and the right multifunction steering wheel button group (S111). It should be remembered in this case that all operations are first processed by the instrument cluster (A1). The instrument cluster (A1) links the incoming requests with the current menu setting in the multifunction display (A1p13) and, where applicable, it then transmits a message to the COMAND operating, display and controller unit (A40/3). The vehicle can optionally be designed with the following equipment variants:

- Voice control system (VCS [SBS]) (with code (813) Voice control system (VCS [SBS]))
- Digital radio (with code (536) SIRIUS satellite radio)

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i Since modification year 07/1 the SDAR control unit (N87/5) (3rd generation) has been used, which is now also available for vehicles with code (460) Additional parts, Canadian vehicles. The SDAR control unit (N87/5) (3rd generation) differs from previous generations through the following features:

- Shorter response times
- Improved reception properties
- Temperature and electromagnetic compatibility (EMC) properties have been optimized

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Data bus systems

The digital components in COMAND are linked to each other. The data bus system is used to transmit data (control commands and useful information) between the various components. The individual component operate with various data formats and they have different request in terms of transmission rate and reliability. Therefore, the following data bus systems are installed:

- Controller Area Network bus class B (interior) (CAN-B):
  The instrument cluster (A1) receives the audio, telephone and navigation data from the COMAND operating, display and controller unit (A40/3) for the multifunction display (A1p13) in the instrument cluster (A1) as well as the time.
- Media Oriented System Transport (MOST):
  Data are exchanged between the sound amplifier (A2/13), the CD player with changer (in glove box) (A2/6), the telephone system and, where applicable, the voice control system (VCS [SBS]). Both control data as well as the actual audio signals are transmitted.

Additional audio sources (e.g. MP3 player, Walkman) can be connected using the "Audio-AUX" function. For this purpose, an external "AUX" socket is located in the glove compartment as a connection option.

	Cockpit Management and Data System (COMAND), driver information	Information displays in the instrument cluster	GF82.85-P-0003-03QMU
	Switch on/off behavior, function		GF82.85-P-2006QMU