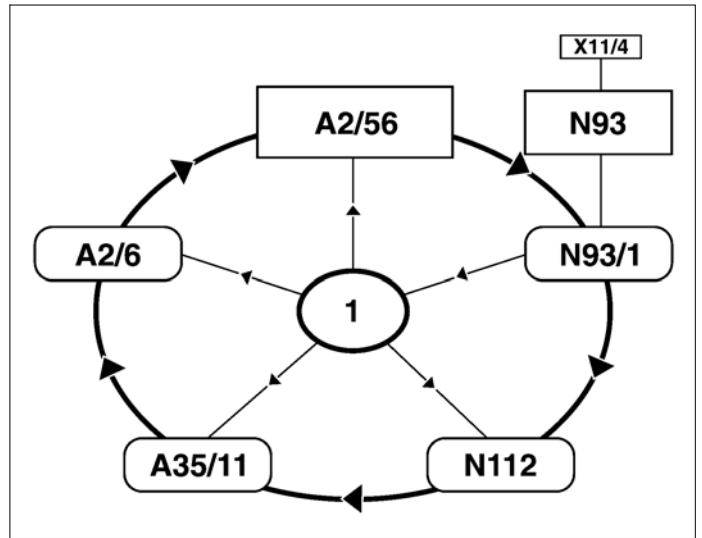


**Sequence of the MOST components with code (525) MB Audio 50 APS radio and with code (813) voice control system (VCS) and with code (819) 6-disk CD changer**

- 1 Wake-up
- A2/6 CD changer  
Radio control panel and navigation unit
- A35/11 Voice control system control module
- N93 Central gateway control module
- N93/1 Audio gateway control module
- N112 Telecommunications control module  
Data link connector



P82.85-9828-11

**Digital MOST**

The digital MOST is a networking system that utilizes the possibilities of optical information transfer.

With this system, the data is transferred by light pulses. The light pulses are transferred to the components that are connected to the MOST (for example: CD changer (A2/6), telecommunications control unit (N112)) with the help of a fiber optical cable.

Commands given to the components, e.g., push the "Play" button on the radio (radio control panel and navigation unit (A2/56) (command for the CD changer) have to be converted into light pulses (optical information (A2/6)) via the MOST for further transmission. The light pulses are then turned into electrical signals in the receiver component in order to execute the command.

Because of its extremely high transfer rate the MOST source data and control data can be transmitted simultaneously. This reduces the quantity of wiring considerably.

Thus, the connected components only require 2 lines for the voltage supply, 2 lines (input/output) for the fiber optical cable of the digital MOST and 1 line for the wake-up signal.

Moreover, a number of audio (AF) signals, can be transferred simultaneously via the fiber optic cable without any negative effect on the information contained.

Data transmission using fiber optic cable has the following advantages:

- Extremely high data transmission rate
- Prevents tapping and cross-talk
- Data transmission is not sensitive to electromagnetic radiation
- Short-circuit resistance
- Floating connection to the MOST participants
- No oxidation
- Low weight of fiber optical cable
- Small line diameter

The MOST has an enclosed ring structure. The components are arranged in a ring line (series circuit). This arrangement is adapted according to the series.

The information is transmitted in only one direction, in other words the light pulses for the CD changer (A2/6) run through all components found at the MOST.

The radio control panel and navigation unit (A2/56) has a central function within the ring structure of the MOST. As a result of the ring structure, all other ring subscribers can be served.

When the system is first put into operation, a system test is performed. During the test, the individual components and their sequence in the ring structure of the MOST are recorded by the audio gateway control unit (N93/1) and compared to the source and control data of the equipment-specific sequence of the data that is stored in the plant.

With the assistance of the STAR DIAGNOSIS the components in the audio gateway control unit (N93/1) can be re-coded (e.g. variant coding).

The MOST is rendered diagnosis capable via the audio gateway control unit (N93/1).

	Data transmission, function	GF82.00-P-2000T
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