

## Video module 2

### Video module 2

For the driver, the on-board monitor system represents a central information medium, providing him/her with data in a uniform format which is necessary or of assistance for driving.

The video module is a component part of the on-board monitor system.

The video module 2 contains the TV receiver with video text functions and aerial diversity as well as the changeover stage for video, audio and RGB signals.

The video module is an I/K-bus user and has self-diagnosis capabilities.

The video module controls the LC screen via RGB lines. Depending on the mode of operation, the sound for voice output of the navigation system (if installed) is switched through to the output of the AF lines to the radio.

If no navigation system is installed, the video module builds up the graphics for the menus on the on-board monitor (user interface).

After ignition ON, the video module automatically recognizes whether a navigation system is a component part of the overall system and responds accordingly.

## Components

### aerial diversity

The aerial diversity function integrated in the video module always ensures the best possible reception when the vehicle is stationary.

The aerial always finds the best reception on the basis of certain criteria. The system consists of 2 window aerials with amplifiers and the diversity function in the video module.

The aerial amplifiers are powered short-circuit-proof by the video module via the aerial sockets.

### TV receiver incl. video text

A TV receiver with video text decoder is integrated in the video module.

### Picture

The video module sends picture signals via three lines (RGB lines) to the LC on-board monitor..

If installed, the navigation system sends the picture signals to the video module. It contains an internal selector switch which changes over between navigation picture/menu and TV picture.

### Sound

The video module is linked via AF lines to the on-board radio which amplifies the signals and outputs via the speakers.

The radio internally switches over the sound signals from the radio to TV/navigation when it receives corresponding information from the video module via the I-bus.

If part of the overall system, the navigation computer sends the sound signals to the video module which in turn internally switches between TV and navigation sound.

## System configuration

There are two possible variants of the on-board monitor system, in which the video module 2 is installed.

After ignition ON, the video module automatically recognizes whether a navigation system is a component part of the overall system and responds accordingly.

## **Without navigation**

If no navigation system is installed in the on-board monitor system, the video module 2 builds up the graphics for the menus (user interface).

## **With navigation**

If a navigation system is a component part of the on-board monitor system, the user interface is set up by the navigation computer.

The navigation computer is linked via RGB (picture signals) and AF (sound signals) lines with the video module. This module switches the RGB lines to the LC monitor and the AF lines to the radio as required.

## **The video module 2 in the workshop**

### **Diagnosis**

There is a diagnostic program for the video module 2. It is possible to work through only after a self-test which lasts approx. 2 minutes has been carried out. This self-test is conducted automatically by the diagnostic program.

### **Encoding**

After replacement, the video module must be encoded with "Coding ZCS".