E60 - Video module 5
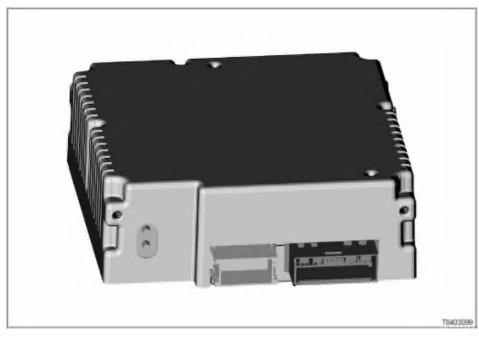
Installation location

Video module 5 is installed at the rear left in the luggage compartment.

Construction

Video module 5 consists of a housing with integrated TV tuner and electronic circuitry for processing signals. On the housing, there are inputs for power supply and for the aerials TV 1 and TV 2. In addition, there are connections for the MOST bus and the FBAS (colour image blanking synchronisation signal).

How it works

The following video modules can be installed on the E60:

- Video module 5 FBAS (EURO version with output for colour image blanking synchronisation signal)
- Video module 5 RGB (Japanese version with output for red-green-blue signal)
- Video module 5 Drive (for rear entertainment with 2 monitors)

The Car Communication Computer is able to process FBAS or RGB signals. With video module 5 FBAS, colours are encoded in the CCC. With video module 5 RGB, colours are encoded in video module 5. The analogue image information in video module 5 FBAS, RGB and Drive is converted to LVDS (Low Voltage Differential Signalling) digital signals in the CCC. These signals are transmitted to the CID via a special LVDS cable.

TV reception

Video module 5 is configured for all global television standards and frequencies.

- **Station selection**

  The correct television standard and frequencies are set by selecting the country concerned in the CID. After the television standard has been selected, the television stations that can be received can be set. The TV signals are transmitted from the two TV aerials to video module 5 via separate coaxial cables. The tuner selects the aerial that has the most powerful reception for the reproduction of the program. The selection is made by the "aerial diversity" in video module 5.
  In video module 5, a list of all stations that can be received is compiled. The list of stations is transmitted to the CCC via the asynchronous channel of the MOST bus and is displayed on the CID. The VPS (Video Program Signal) sorts the list of stations alphabetically according to the station name (ARD, BR3, SAT1 ...). If VPS is not available, the list of stations will be sorted according to the channel assigned (CH5, CH7, CH12 ...).

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- **TV sound**

  TV sound is received in mono. TV sound is digitalised in the video module and is fed in parallel to the left and right-hand channels of the MOST bus. The audio signals are transmitted to the CCC via the synchronous channel of the MOST bus and are output through the loudspeakers.

- **Teletext**

  Teletext can be received and displayed by video module 5. Approximately 1000 pages can be stored in the memory of video module 5. The teletext files are transmitted to the CCC via the asynchronous channel of the MOST bus. The text files are generated by the graphics processor and are displayed on the CID.