

Function requirements:

- D On-board power supply
- D Authentication positive
- D Circuit 15R ON

Function

The TV tuner (A2/10) communicates with the COMAND operating, display and control unit (A40/3), the audio gateway control unit (N93/1) and other system components via the built-in MOST ring interface.

Basic controls of the TV tuner (A2/10):

- D 4-way antenna diversity, separated into audio and video signals
 - D Audio antenna diversity
 - D Video antenna diversity
 - D Multistandard receiver PAL/Secam and NTSC
 - D Multistandard signal processing
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Each receiver unit can automatically select the most suitable input signal. Audio and picture antenna diversity work separately from each other in order to avoid unpleasant interference noises or picture obliteration during mobile reception.



The TV tuner (A2/10) is designed to receive television signals in the majority of Europe.

TV tuner modules for audio and video

The TV system operates with a total of three reception modules, two tuners being used for picture processing and one tuner for the sound signal. The PLL tuners used cover a reception range of 45 to 866 MHz. The reception range is divided internally into three bands: VHF low, VHF high and UHF. Each band has its own controllable pre-stage. The tuner outputs are of a symmetrical design.

The TV tuner box has 4 antenna inputs, into which signals are fed from the car antennas.

The antenna inputs are assigned to the 3 TV receiver units as follows:

- D Ant 1, Ant 2, Ant 3, Ant 4 are assigned to the audio receiver
 - D Ant 1, Ant 2 are assigned to video reception path 2
 - D Ant 3, Ant 4 are assigned to video reception path 1
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Multistandard signal processing

The signals mixed by the tuner on the intermediate frequency level are demodulated in the subsequent signal processing. Both positive and negative amplitude-modulated signals can be processed. The demodulation stage for the sound signal receives a narrow-band filtered intermediate frequency signal which has virtually no video part and cannot cause any further sound interference. The audio signals are "AM" or "FM" depending on the TV standard.