

Ministry of Science and Higher Education of the Russian Federation  
TOMSK STATE UNIVERSITY OF CONTROL SYSTEMS AND  
RADIOELECTRONICS (TUSUR)

# CAR AUDIO SYSTEMS

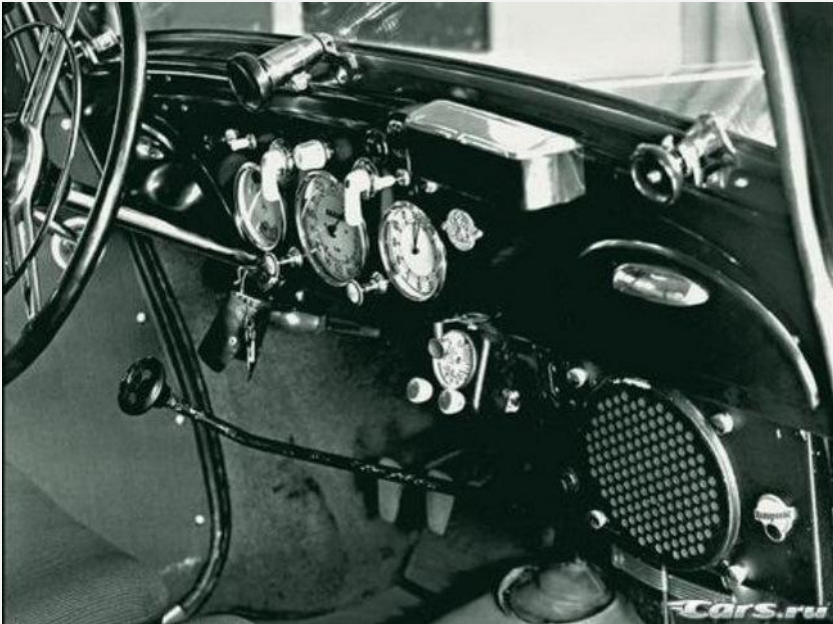
The presentation was prepared by: Semenov Vitaliy;  
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# PRESENTATION CONTENT

1. The first stages of audio systems in car
2. Types of speakers and recorders in the audio system
3. Car audio development and competitions

## THE FIRST STAGES OF AUDIO SYSTEMS IN CAR

**In 1895, Popov invented the first apparatus capable of receiving radio signals. Radio began to sound in cars from the beginning of the 20s of the last century. The then motorists tried to tune their cars. No one thought about sound quality. The home radio in the car did not serve for a long time. Constant shaking did its job, gradually destroying the light bulbs. A huge antenna was located under the ceiling, turning the car into a cage.**



**Until the 1940s, car radio was available only to wealthy people. The rest were content with homemade products. Ordinary Soviet citizens received the first radio in the early 50s, along with the first relatively affordable car, the Moskvich 402 model.**

**In 1952, a receiver with station memory was introduced. In 1954 - with a mechanical device for automatically searching for radio stations, and three years later - the first receivers on transistors**



**In less than 100 years, the radio has evolved from an iron giant into a compact device. Huge antenna turned into stripes on the rear window**



**But the era of vinyl records ended as soon as it began. In their place come the progenitors of audio cassettes - reels, which were much more convenient, and less susceptible to shaking.**



# TYPES OF SPEAKERS AND RECORDERS IN THE AUDIO SYSTEM

## Types of speakers

component



variety



subwoofer



# Types of recorders

1 din



2 din



1 DIN has the characteristics of 178X50 mm in width and height, respectively, and 2 DIN - 178X100 mm. This means that two types of formats are characterized by the same width, but have a difference in the height of the footprint by 2 times. As if one device is placed on top of the other.

CAR RADIOS CAN BE DIVIDED INTO THE FOLLOWING TYPES,  
CAR RADIOS THEMSELVES, REGULAR CAR RADIOS, MULTIMEDIA  
RADIOS.

### USB

Mini radios with a USB output are currently one of the most popular because they allow you to play tracks from a flash drive, and not from CD media.

### With Bluetooth

The universal car radio with Bluetooth function is one of the most modern options. Such a device includes both the radio itself and the speakerphone, which can be used in case of a call.

### With GPS navigator

The multimedia radio can be produced in 1Din or 2Din format. It is easy to guess from the name that the audio systems of such a pan are equipped with a built-in GPS module.



# CAR AUDIO DEVELOPMENT AND COMPETITIONS

**The first competitions in car audio were considered competitions held in the USA in the early 80s. Then young people gathered in cars and compared the volume of their audio systems.**



**The quality and loudness of the sound of audio systems, the assessment of their capabilities and their improvement is the main goal of such music competitions.**



# COMPETITIONS IN OUR DAYS



Car audio competitions are cool events where both amateurs and professionals gather and find out whose system is more musical or louder. The love of high-quality sound of music, loud bass and all this together unites a lot of people!



So, amateur competitions have turned from a regular competition on the principle of "who is cooler" into a mass competition showing whose system sounds better



During the development of the movement, there have been a lot of evaluation criteria. In the dawn of the formation of car audio in Russia, competitions were divided into sound quality and pressure / volume, now there are a lot of competition formats.

## LIST OF SOURCES

- <https://www.drive2.ru/c/472664931569762777/>
- <https://doctorbass.ru/blog/sorevnovaniya-po-avtozvuku/>
- [https://fishki.net/auto/3055106-istorija-vozniknovenija-avtozvuka.html?utm\\_source=aab&sign=124003290969002%2C429408148965262](https://fishki.net/auto/3055106-istorija-vozniknovenija-avtozvuka.html?utm_source=aab&sign=124003290969002%2C429408148965262)

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