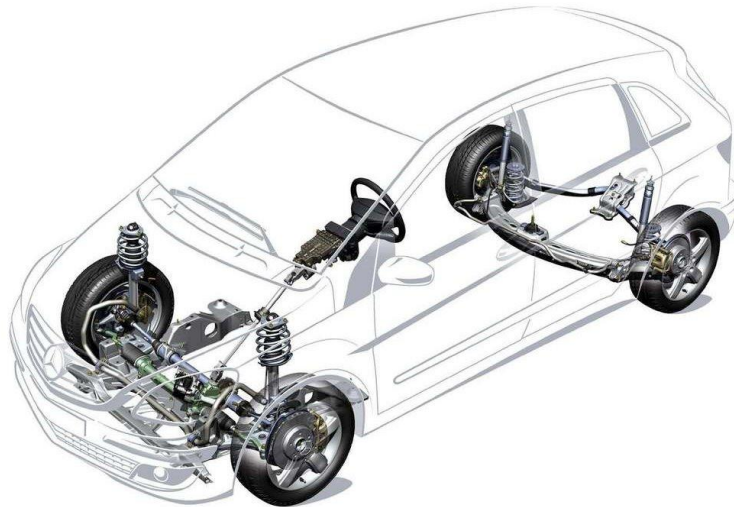


# Car chassis



the work was performed by  
student groups 2t-60  
Shuvaev Alexandr

# Appointment

- The chassis of the car — a set of transmission units, chassis, and management mechanisms. The main nodes of the chassis of the vehicle are used to transmit force from the engine to the drive wheels of the vehicle and to convert the rotary

mechanical velocity of the

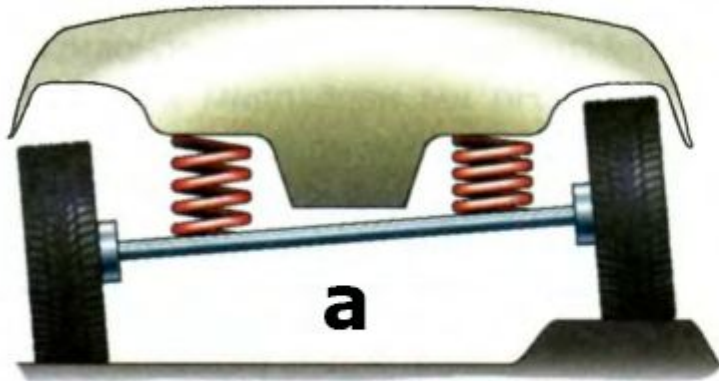


# Suspension

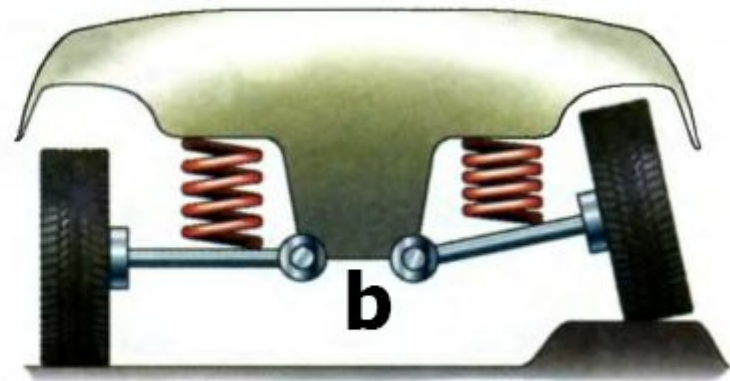
- Car suspension is designed to provide an elastic connection between the wheels and the vehicle body due to perception of the forces and damping



# Types of pendants



**Dependent suspension**



**independent suspension**

- Dependent suspension is a rigid beam that connects the right and left wheels. Together it forms a continuous bridge. The distinctive feature of dependent suspension is the transmission moving one of the wheels in a transverse plane to the
- The wheels on one axle do not have a rigid bundles with each other and change position relative to the body of the car one does or almost does not affect the position of the second

# The main elements of the suspension are:

- Elastic elements, which perceive and transmit the normal (to vertical) reaction force of the road that occurs when hitting the wheels on it the bumps;
- Guide elements, which specify the nature of the movement of the wheels and their connection with each other and with the carrier system, and transmit longitudinal and lateral forces and their r
- The dampers, which serve fo oscillations of the carrier syst of the road.



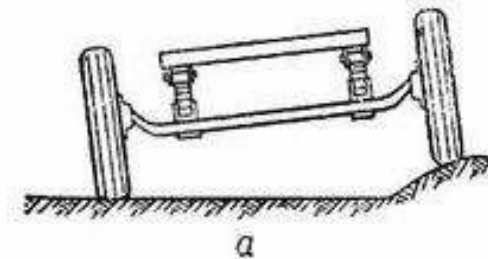
# Dependent suspension

positive characteristics:

- simplicity of design;
- strength;
- low cost;
- resistance to damage;
- permeability.

negative characteristics:

- Lack of controllability, especially at high speed;

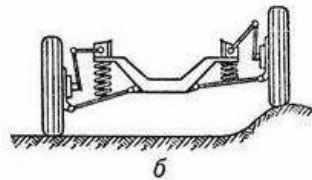


rel of  
native

# Independent suspension

## positive characteristics:

- good handling car, especially at high speed;
- high information content in the management;
- ability to customize the parameters of suspension specific traffic conditions;
- increased comfort



## negative

## characteristics:

- short suspension moves;
- quite a large number of parts and, consequently, increased the likelihood of damage in difficult road conditions.
- difficulties in the field of repair of

# Sources:

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- <http://systemsauto.ru/pendant/pendant.html>
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*THANK YOU FOR YOUR ATTENTION*

