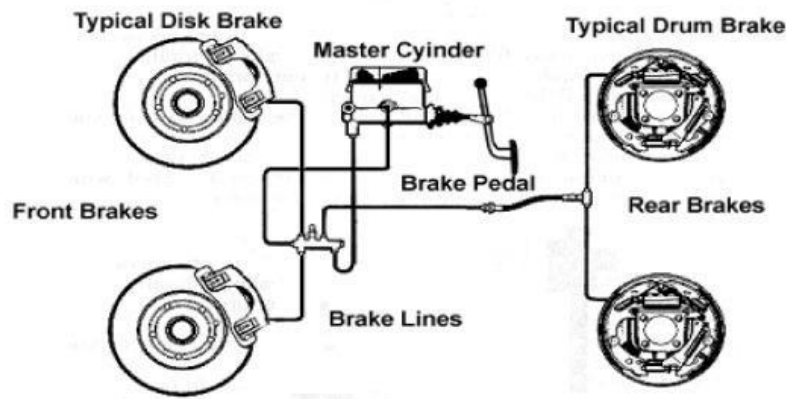


## Brake System



**brakes** – тормоза

**disc brakes** – дисковые тормоза

**drum brakes** – тормоза  
барабанного типа

**master cylinder** - главный  
тормозной цилиндр

### Task 1. Read and translate the text

Brakes are used to slow or stop the car where it is necessary. It is one of the most important mechanisms of the car as upon its proper performance the safety of passengers depends. Car brakes can be divided into two types, namely: drum brakes and disc brakes. The drum type may be either a band brake or a shoe brake. Depending on their functions, the automobile has foot brakes and hand brakes (parking brakes). According to their mode of operation, the brakes are classified as: mechanical brakes, hydraulic brakes, airbrakes, electric brakes. Brakes are controlled by the brake pedal.

Most braking systems in use today are hydraulic. This system consists of a master cylinder mounted on the car frame and wheel cylinders. When the driver pushes down on the brake pedal, it forces the piston to move in the master cylinder and brake fluid is delivered from it to the wheel cylinders. The piston movement causes brake shoes to move and the brakes are applied (the brake shoes are pressed against the brake drums). The air brake uses compressed air to apply the braking force to the brake shoes. Electric brakes use electromagnets to provide the braking effort against the brake shoes.

Formerly brakes were applied only to the two rear wheels, but now all cars are equipped with all-wheels brakes. Today many improvements are being made in brakes.

**Task 2. Match the words (1-9) with the definitions (A-I).**

- |                     |                   |
|---------------------|-------------------|
| 1 _ brake pedal     | 6 _ power brakes  |
| 2 _ disc brake      | 7 _ brake pad     |
| 3 _ drum brake      | 8 _ parking brake |
| 4 _ brake shoe      | 9 _ caliper       |
| 5 _ master cylinder |                   |

- A a thin block used to apply friction to a disc  
B a lever drivers press to slow a car  
C a piece of metal forced against a brake drum  
D a brake system using a brake booster  
E a brake that uses pads and discs to stop a car  
F a brake that is separate from the main system  
G a brake that uses brake shoes to stop a car  
H a container for brake fluid  
I a device that aids brake pads

**Task 3. Match two parts of sentences.**

- |                                 |  |
|---------------------------------|--|
| 1. Brakes are used for...       | a. disc brakes and drum brakes             |
| 2. Brakes are one of ...        | b. the driver pushes down on the pedal     |
| 3. Brakes may be of 2 types:... | c. the brake pedal                         |
| 4. Brakes are applied by        | d. stopping the car                        |
| 5. Brakes are applied when      | e. the most important mechanism of the car |