

## Clutch

**friction device** — фрикционное

**pressure disc** — нажимной диск  
устройство

**hard-wearing material** -  
износостойкий материал

**connect** — соединять

**gearbox** — коробка передач

**frictional force** - сила трения

**start the car** - завести автомобиль

**clutch pedal** — педаль сцепления

**release the engine** —

отсоединить

**is engaged** —

включено(подсоединено)

**fix** — крепить (устанавливать)

**flywheel** - маховик

**is disengaged** - отключено

**friction disc** — фрикционный диск

**run idly** - работать вхолостую



### Task 1. Read and translate the text

The clutch is a friction device. It connects the engine to the gears in the gearbox. It is used for disconnecting the engine from the gearbox, for starting the car and for releasing the engine from the car wheels.

The clutch is fixed between the flywheel of the engine and the gearbox and consists of two plates (discs): the friction disc and the pressure disc. The friction disc is situated between the flywheel and the pressure plate and has a hard-wearing material on each side.

The basic principal operation of the clutch is a frictional force acting between two discs. The clutch is controlled by the clutch pedal. When the pedal is at rest the clutch is engaged and the running engine is connected to the gearbox. When the pedal is pressed down the clutch is disengaged and the engine runs idly.

## **Task 2. Give the Russian equivalents to these words.**

Friction device, clutch, gearbox, to free, to start, to release, flywheel, pressure plate, basic principle of operation, to fix, hard-wearing material, to consist of, to be controlled by, running engine, to run idly, to engage, to disengage, to press down, to be at rest.

## **Task 3. Answer the questions**

1. What device is the clutch?
2. What units does it connect?
3. What is the clutch used for?
4. Where is the clutch placed?
5. What plates does the clutch consist of?
6. What is the basic principal operation of the clutch?
7. What is the clutch controlled by?
8. What takes place when the clutch pedal is at rest?
9. When does the engine run idly?

## **Task 4. Choose the correct endings**

1. The clutch is a device connecting ....
  - a) the rear axle and axle shafts.
  - b) the gearbox and differential.
  - c) the engine and the gearbox.
  
2. The clutch is situated between ....
  - a) the gearbox and cardan shaft.
  - b) the flywheel and the gearbox.
  - c) the gearbox and rear axle.

3. The clutch is controlled by ....

- a) the brake pedal
- b) the clutch pedal.
- c) the gearbox and rear axle.

4. The clutch is engaged ....

- a) when the clutch pedal is pressed down.
- b) when the clutch pedal is at rest.

5. The clutch is disengaged ....

- a) when the clutch pedal is at rest.
- b) when the clutch pedal is pressed down.