TRANSMISSION SYSTEM

13.1. Vocabulary

Ex. 1. *Match the words to their definitions.*

1. rear-wheel drive	a. a specialized lubricant used in
	automatic transmissions to reduce
	friction and heat between moving
	4

parts.

2. front-wheel drive b. the system of components that

transmit power from the engine to

the wheels of a vehicle.

3. clutch c. the process of changing gears in a

vehicle with a manual transmission.

4. engage d. a type of car transmission that

requires the driver to manually shift gears using a gear shift and clutch

pedal.

5. drive train e. a mechanical device used to

connect and disconnect the engine from the drive train in order to

change gears.

6. automatic transmission f. the foot-operated pedal used to

engage or disengage the clutch in a vehicle with a manual transmission.

7. gear shift g. a type of drivetrain where the

front wheels are responsible for propelling the vehicle forward.

8. transmission system h. to make contact or come

together, often referring to gears connecting in a transmission.

9. transmission fluid i. a type of drivetrain where all four

wheels receive power from the engine simultaneously.

10. four-wheel drive j. the electrical system responsible

for transmitting high voltage

electricity from the power source to various components in a vehicle.

11. clutch pedal k. a type of drivetrain where the

rear wheels are responsible for propelling the vehicle forward.

12. manual transmission l. a type of car transmission that

automatically changes gears without the need for manual

shifting.

Ex. 2. Translate the sentences into English.

- 1. Трансмиссионная система отвечает за передачу мощности от двигателя к колесам.
- 2. В моем автомобиле шестиступенчатая механическая коробка передач, которая позволяет мне контролировать переключение передач.
- 3. Трансмиссионную жидкость необходимо менять каждые 60 000 миль, чтобы система трансмиссии работала без сбоев.
- 4. Если вы заметили какие-либо проблемы с системой трансмиссии вашего автомобиля, важно, чтобы ее проверил механик.
- 5. Некоторые новые автомобили оснащены автоматической коробкой передач, что облегчает вождение многим людям.
- 6. Трансмиссия работает совместно с системой трансмиссии, чтобы двигать автомобиль вперед.
- 7. Механикам пришлось заменить всю систему трансмиссии после того, как она вышла из строя во время длительной поездки.

- 8. Система трансмиссии на этом автомобиле очень надежна и редко требует технического обслуживания.
- 9. Перед переключением передач выжмите педаль сцепления, чтобы предотвратить повреждение системы трансмиссии.
- 10. Полноприводные автомобили, как правило, оснащены более мощной системой трансмиссии для работы на пересеченной местности.

13.2. Reading

Ex. 1. Read the text.

Transmission System

The transmission system in a car is the system that transmits power from the engine to the wheels. It includes the clutch, gear shift, and the drive shafts.

There are three types of transmission system in common use. These are manual, automatic, and semi-automatic.

In a manual transmission system, the driver has to manually change the gears using a clutch pedal and a gear shift. When the clutch pedal is pressed down, it disengages the engine from the gearbox. This allows the driver to change gears. When the clutch pedal is released, it engages the engine with the gearbox again. Manual transmission systems are often used in sports cars because they give the driver more control.

In an automatic transmission system, the car changes gears automatically according to the speed of the car. The driver does not need to use a clutch pedal or a gear shift. Instead, there are just two pedals: the accelerator pedal and the brake pedal. Automatic transmission systems are easier to use than manual transmission systems, but they are more expensive to buy and repair.

A semi-automatic transmission system is a combination of a manual and an automatic transmission system. Like a manual transmission system, it has a clutch pedal and a gear shift. However, the clutch pedal is only needed when starting the car or changing gears. Once the car is moving, the driver can change gears without using the clutch pedal. Semi-

automatic transmission systems are also called 'clutchless manual' or 'automated manual' transmission systems.

Different cars have different types of drive train. A drive train is a series of components that deliver power to the driving wheels. There are three main types of drive train: front-wheel drive, rear-wheel drive, and four-wheel drive.

In a front-wheel drive car, the engine powers the front wheels only. Front-wheel drive is the most common type of drive train for small cars. It is also used in many family cars because it is lighter and cheaper than other types of drive train.

In a rear-wheel drive car, the engine powers the rear wheels only. Rear-wheel drive gives better handling in sports cars because it spreads the weight of the car more evenly between the front and back wheels.

In a four-wheel drive car, the engine powers all four wheels. Four-wheel drive gives better traction on slippery surfaces like snow or ice. It is also used in off-road vehicles because it provides better control on rough terrain.

The transmission fluid is an important part of the transmission system. It cools and lubricates the moving parts of the transmission system. If the transmission fluid becomes dirty or low, it can cause problems with the transmission system. For this reason, it is important to check the transmission fluid regularly and change it when necessary.

Ex. 2. Answer the questions.

- 1. What is the function of the transmission system in a car?
- 2. What are the three types of transmission systems commonly used?
- 3. How does a manual transmission system work?
- 4. How does an automatic transmission system differ from a manual transmission system?
- 5. What is a semi-automatic transmission system and how does it work?
- 6. What are the three main types of drive train in cars?

7. Why is front-wheel drive the most common type of drive train for small cars?

13.3. Communication

- Ex. 1. Make sentences using the following words:
- 1. efficiency/testing/engineers
- 2. modifications/upgrading/possible
- 3. delivering/responsible/power
- 4. difference/explain/manual
- 5. immediately/fixed/leak
- 6. component/vital/engine
- 7. malfunction/experienced/car
- 8. manufacturer/fuel-efficient/new
- 9. smoothly/allow/driver
- 10. maintenance/recommended/regular