

Manual transmission, how it Works. - KEY

<https://www.youtube.com/watch?v=wCu9W9xNwtI>

1. What is the basic function of transmission?

The basic function of transmission is to control the speed and torque available to drive wheels for different driving conditions.

2. How can you get more speed when climbing a hill?

By reducing the speed at the transmission.

3. How can we achieve different speed ratios?

By sliding the gears

4. With sliding mesh transmission is quite tricky to slide from one gear and engage with another gear. How can you solve this problem?

With the constant mesh transmission

5. What will happen if the sleeve gets connected with the teeth of the synchronizer cone?

The gear and shaft will turn together or the desired locking action will be achieved.

6. What is used to match the speed of the gear with that of the shaft?

A synchronizer ring

7. What happens when the sleeve presses the synchronizer ring against the cone?

Due to the high frictional force between the synchronizer ring and cone, the speed of the gear will become the same as the shaft.

8. What arrangement does the reverse gear use?

It uses a three-gear arrangement.