

Comparative Study between Automatic and Manual Transmission Car

Mayur R. Mogre

Abstract— “Which transmission car is better?” is the most commonly raising question in every persons mind while buying a car in recent times. Which is followed by questions like “which is suitable for my need?”, “Which is more efficient?”, etc. Main thing that arises is about the fuel consumption and initial cost for automatic and manual transmission car. The presence of the clutch pedal plays an important role in manual transmission, which is absent in automatic transmission. This study tries to answer many questions that arises for both transmission. It gives study about the comfort level in automatic and manual transmission car. Also gives deep study for the maintenance and initial cost of automatic and manual transmission car. Also deals with the advantages and disadvantages of both the automatic and manual transmission car. At the end of this study one can get all the answers related to the automatic and manual transmission.

Keywords— Clutch, Automatic Gearbox, Manual Gearbox.

I. INTRODUCTION

IN the recent times the craze for automatic transmission car has increased to great extent. Many people are attracted towards automatic transmission car. But it didn't decrease the sale of manual transmission car. Many companies of car manufacturing has manufactured both automatic and manual transmission car. A transmission basically transfers the power from a car's engine to drive shaft and the wheels. The gears present inside the transmission change the drive wheel speed and torque in relation to the engine speed and torque (pulling power). Lower gear ratios helps the engine to build up enough of power so that the car can easily accelerate from a halt. The transmission is a device that is connected to the back of the engine and sends the power from the engine to the drive wheels. An automobile engine runs at its best at a certain RPM (Revolutions per Minute) range and it is the transmission's job to make sure that the power is delivered to the wheels while keeping the engine within that range. It does this through various gear combinations. In first gear, the engine turns much faster in relation to the drive wheels, while in high gear the engine is loading even though the car may be going in excess of 70 MPH. In addition to the various forward gears, a transmission also has a neutral position which disconnects the engine from the drive wheels, and reverse, which causes the drive wheels to turn in the opposite direction allowing you to back up. Finally, there is the Park position.

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In this position, a latch mechanism (not unlike a deadbolt lock on a door) is inserted into a slot in the output shaft to lock the drive wheels and keep them from turning, thereby preventing the vehicle from rolling. Let us study manual and automatic transmission individually. For transmission mode refer Fig. 1.

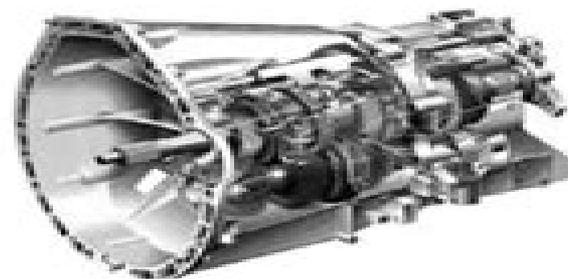


Fig. 1 Transmission Model

II. MANUAL TRANSMISSION

As the name itself indicates, A Manual Transmission enables the driver to shift the gears manually as per the driving requirements and a manual clutch is pressed while shifting the gear from one to another, which uses a solid clutch plate. There is no doubt that a Manual adds the fun in driving due to the changing of gears but as long as you are driving on a clean empty stretch. There are various types of gear system refer to Fig. 2 which shows simple gear system that is the method for shifting the gear. And also there is column type of gear shifting ref. Fig 3. Also there is planetary gear system ref. Fig 4 which shows side view of it.[1]. In city driving, especially like of India where there are mammoth traffic jams, A Manual gearbox could prove to be tiresome to shift in every next moment.

Easiness.

Speaking particularly about the person who is new to driving may find manual gearbox to be messy and confusing to operate but it's all about interest and doesn't takes much time to get familiar with its functioning.[2].

Fuel Efficiency.

For Fuel Efficiency conscious, Manual makes an ideal choice over an Automatic gearbox due to its less consumption of fuel by which your car runs on. However, nowadays with

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