

Department of Electrical and Electronics Engineering

Academic Year: 2021-2022

Semester: VII

Batch: 2018-2022

Subject Code: EE18703

Subject Name: Electric Vehicles

1. Online resources - videos:

- For some of the prerequisite topics and operation of special equipment (eg. Wilson stepped automatic transmission), online video demonstrations were incorporated to enlighten better understanding of the topic.
- Photo or scanned proof

2) Wilson type

The Wilson stepped automatic transmission is simpler than the Simpson type because there is no counter shaft. The 5-speed Wilson type, however, requires three epicyclic gear sets, clutches and brakes along with an OWC.

Figure shows the schematic for a Wilson type automatic having an M/G for hybrid functionality mounted to the torque converter impeller as was the case for the Simpson type. The M/G with torque converter would again be a complete assembly that is aligned and balanced at the manufacturing plant and delivered to the transmission assembly plant.

Both the Wilson type and the Simpson type rely on OWCs for their operation. If it were possible to eliminate the OWCs, the transmission would have fewer components and be simpler to build.

<https://www.youtube.com/watch?v=D6P5ycxnHTI>



