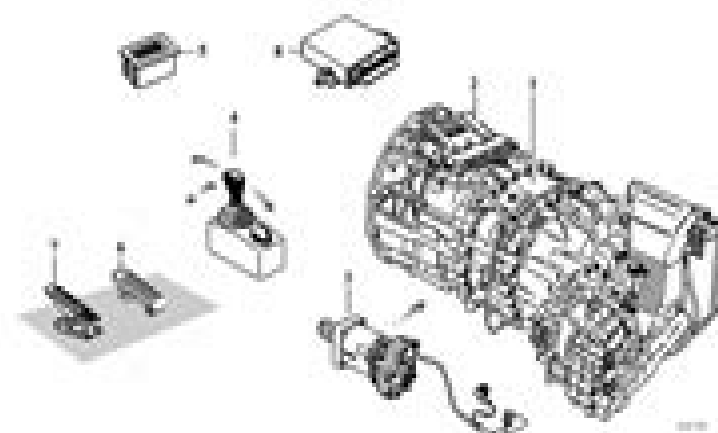


2 Transmission system – components

2.1 System design

The transmission system consists of the transmission (1) and the components needed to actuate the system. The transmission actuator (2) and clutch actuator (3) components are integrated in the transmission.

The peripheral components, i.e. the range selector (4) remote control, display (5) and ZF 6 module (6) should also be installed in the vehicle.



When integrated in the vehicle system, the ZF-6HP900C no longer needs its own peripheral components and instead uses the vehicle's systems such as engine electronics with accelerator pedal (8) and brake pedal (7), electronic brake system with wheel speed sensors etc.

The ZF-6HP900C is integrated in the overall vehicle system by networking the vehicle electronics via a CAN bus. The peripheral system dependencies resulting from this must be investigated as part of a vehicle integration (Table 1).

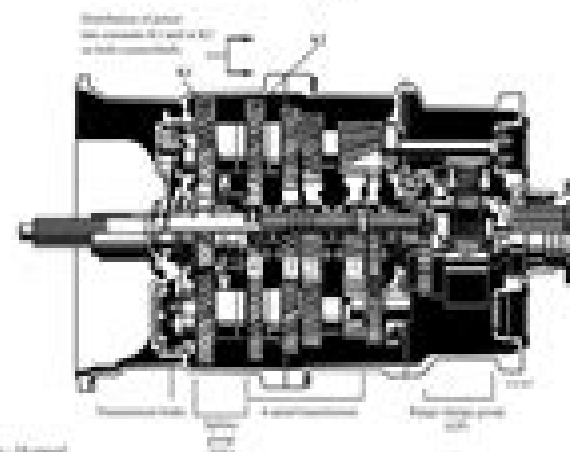
2.2 Transmission and shift system

2.2.1 Description of transmission

The ZF-6HP900C transmission consists of a four-speed section in the 10-speed version or a three-speed section in the 12- and 16-speed versions as well as a splitter group (SPV) and a non-reversal planetary range change group (RPG).

The transmission is based on the twin-shaft parallel design principle. This compact and comparatively lightweight design ensures a favourable distribution of torque, lower spline loading levels and therefore a high degree of efficiency.

The 4.5-speed transmission section is designed with a constant mesh shift system. Synchronisation is accomplished using the IGC and transmission brake. The splitter and range change groups have synchro mesh.



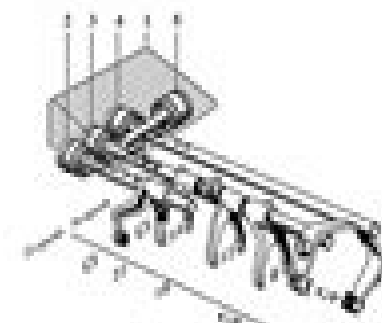
Example: 16-speed

2.2.2 Description of shift system

The shift cylinders are integrated in the transmission actuator and are actuated pneumatically.

Key

- 1 Transmission actuator
- 2 Shift cylinder for splitter group
- 3 Shift cylinder for main transmission
- 4 Shift cylinder for range change group
- 5 Solenoid cylinder for main transmission



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Automotive Engineering , 1983 Official Gazette of the United States Patent and Trademark Office , 2002 *Fleet Owner* , 1999 **Complete Book of Collectible Cars** Richard M. Langworth, 2000 **The Autocar** , 1987 **Cost,**

Effectiveness, and Deployment of Fuel Economy Technologies for Light-Duty Vehicles National Research Council, Division on Engineering and Physical Sciences, Board on Energy and Environmental Systems, Committee on the Assessment of Technologies for Improving Fuel Economy of Light-Duty Vehicles, Phase 2, 2015-09-28 The light duty vehicle fleet is expected to undergo substantial technological changes over the next several decades New powertrain designs alternative fuels advanced materials and significant changes to the vehicle body are being driven by increasingly stringent fuel economy and greenhouse gas emission standards By the end of the next decade cars and light duty trucks will be more fuel efficient weigh less emit less air pollutants have more safety features and will be more expensive to purchase relative to current vehicles Though the gasoline powered spark ignition engine will continue to be the dominant powertrain configuration even through 2030 such vehicles will be equipped with advanced technologies materials electronics and controls and aerodynamics And by 2030 the deployment of alternative methods to propel and fuel vehicles and alternative modes of transportation including autonomous vehicles will be well underway What are these new technologies how will they work and will some technologies be more effective than others Written to inform The United States Department of Transportation s National Highway Traffic Safety Administration NHTSA and Environmental Protection Agency EPA Corporate Average Fuel Economy CAFE and greenhouse gas GHG emission standards this new report from the National Research Council is a technical evaluation of costs benefits and implementation issues of fuel reduction technologies for next generation light duty vehicles Cost Effectiveness and Deployment of Fuel Economy Technologies for Light Duty Vehicles estimates the cost potential efficiency improvements and barriers to commercial deployment of technologies that might be employed from 2020 to 2030 This report describes these promising technologies and makes recommendations for their inclusion on the list of technologies applicable for the 2017 2025 CAFE standards **F&S Index Europe Annual** ,1999 *Autocar* ,2004 **Car and Driver** ,2004

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