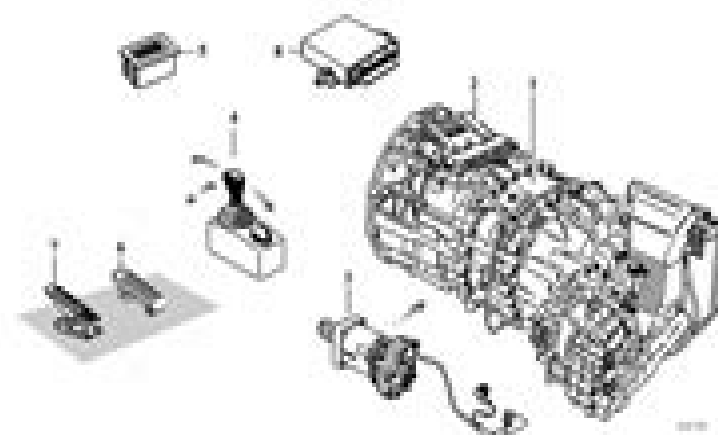


2 Transmission system – components

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).

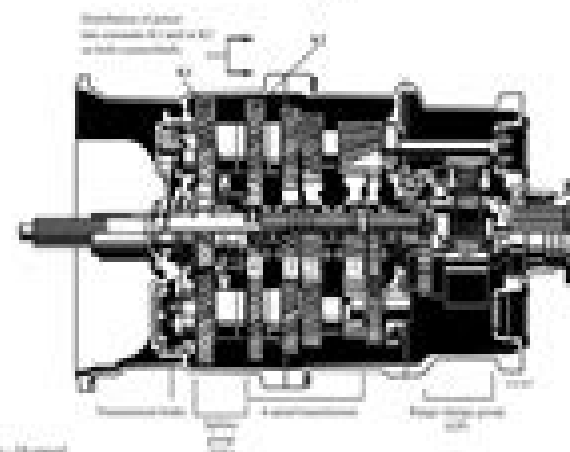
2.2 Transmission and shift system

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 (SG) 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 fork. The splitter and range change groups have synchro mesh.



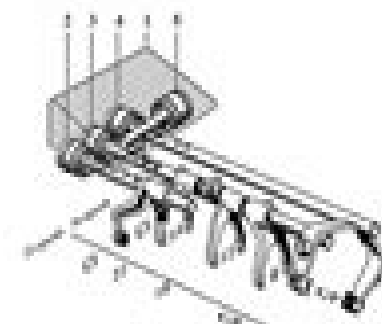
Example: 10-speed

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



Zf 12 Speed As Tronic Gearbox Manual

Jin-Ying Zhang



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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 **Autocar**, 2004 Car and Driver, 2004 *Supercars* John Lamm, 2001

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Table of Contents Zf 12 Speed As Tronic Gearbox Manual

1. Understanding the eBook Zf 12 Speed As Tronic Gearbox Manual
 - The Rise of Digital Reading Zf 12 Speed As Tronic Gearbox Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Zf 12 Speed As Tronic Gearbox Manual
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Zf 12 Speed As Tronic Gearbox Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Zf 12 Speed As Tronic Gearbox Manual
 - Personalized Recommendations
 - Zf 12 Speed As Tronic Gearbox Manual User Reviews and Ratings
 - Zf 12 Speed As Tronic Gearbox Manual and Bestseller Lists
5. Accessing Zf 12 Speed As Tronic Gearbox Manual Free and Paid eBooks
 - Zf 12 Speed As Tronic Gearbox Manual Public Domain eBooks
 - Zf 12 Speed As Tronic Gearbox Manual eBook Subscription Services
 - Zf 12 Speed As Tronic Gearbox Manual Budget-Friendly Options

6. Navigating Zf 12 Speed As Tronic Gearbox Manual eBook Formats
 - ePub, PDF, MOBI, and More
 - Zf 12 Speed As Tronic Gearbox Manual Compatibility with Devices
 - Zf 12 Speed As Tronic Gearbox Manual Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Zf 12 Speed As Tronic Gearbox Manual
 - Highlighting and Note-Taking Zf 12 Speed As Tronic Gearbox Manual
 - Interactive Elements Zf 12 Speed As Tronic Gearbox Manual
8. Staying Engaged with Zf 12 Speed As Tronic Gearbox Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Zf 12 Speed As Tronic Gearbox Manual
9. Balancing eBooks and Physical Books Zf 12 Speed As Tronic Gearbox Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Zf 12 Speed As Tronic Gearbox Manual
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Zf 12 Speed As Tronic Gearbox Manual
 - Setting Reading Goals Zf 12 Speed As Tronic Gearbox Manual
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Zf 12 Speed As Tronic Gearbox Manual
 - Fact-Checking eBook Content of Zf 12 Speed As Tronic Gearbox Manual
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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