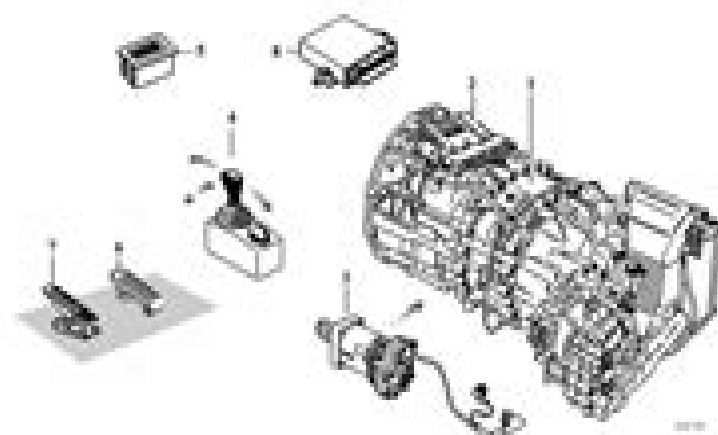


2 Transmission system – components

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).

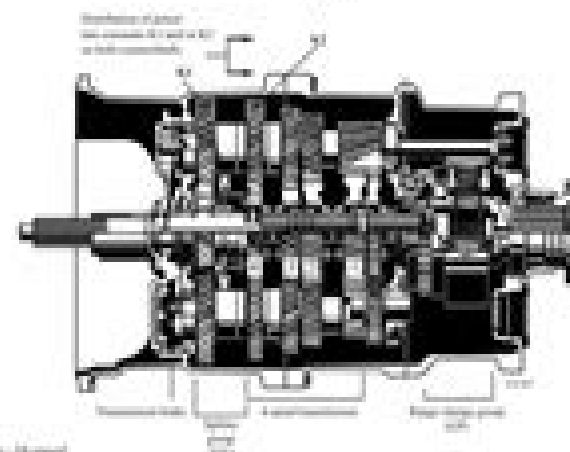
2.2 Transmission and shift system

2.2.1 Description of transmission

The ZF-6HP900C transmission consists of a four-speed section in the 1st-speed version or a three-speed section in the 1st- and 3rd-speed versions as well as a splitter group (S/P) and a non-reversal planetary range change group (R/P).

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 4th-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.



Zf 12 Speed As Tronic Gearbox Manual

Judd E. Hollander



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Automotive Transmissions Harald Naunheimer, Bernd Bertsche, Joachim Ryborz, Wolfgang Novak, 2010-11-09 This book gives a full account of the development process for automotive transmissions Main topics Overview of the traffic vehicle transmission system Mediating the power flow in vehicles Selecting the ratios Vehicle transmission systems basic design principles Typical designs of vehicle transmissions Layout and design of important components e g gearshifting mechanisms moving off elements pumps retarders Transmission control units Product development process Manufacturing technology of vehicle transmissions Reliability and testing The book covers manual automated manual and automatic transmissions as well as continuously variable transmissions and hybrid drives for passenger cars and commercial vehicles Furthermore final drives power take offs and transfer gearboxes for 4 WD vehicles are considered Since the release of the first edition in 1999 there have been a lot of changes in the field of vehicles and transmissions About 40% of the second edition s content is new or revised with new data Fundamentals of Medium/Heavy Duty Commercial Vehicle Systems Gus Wright, Owen C. Duffy, 2019-07 Thoroughly updated and expanded Fundamentals of Medium Heavy Duty Commercial Vehicle Systems Second Edition offers comprehensive coverage of basic concepts building up to advanced instruction on the latest technology including distributed electronic control systems energy saving technologies and automated driver assistance systems Now organized by outcome based objectives to improve instructional clarity and adaptability and presented in a more readable format all content seamlessly aligns with the latest ASE Medium Heavy Truck Program requirements for MTST Back cover

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paint colours and interior trim choices and finally there is guidance on buying and owning one of these acclaimed vehicles the L322 Range Rover **BMW Buyer's Guide** Fred Larimer,2002 **Aston Martin** Matthew Vale,2022-10-11 Aston Martin is a marque that holds a special place in the British motor industry As a manufacturer of cars for over 100 years its history is tied up with the British psyche and the marque holds a special place in the hearts of all motoring enthusiasts This book charts the history of Aston Martin from its early days in central London as Banford and Martin through the Bertelli years in Feltham and the post war David Brown years at Newport Pagnell to the current day with its purpose built state of the art factory in Gaydon Warwickshire Now seen as an iconic luxury British sports car manufacturer Aston Martin has been designing manufacturing and racing cars for over 100 years almost continuously Known for combining quality style and performance in its products the company has often struggled to balance these attributes with financial success Fortunately over the years generous investors who recognize the potential in the company have always been on hand to rescue and perpetuate the brand Looking at the engines the cars the people the business and car owners this book tells the story of a quintessentially British marque **Uncertainty in Industrial Practice** Etienne de Rocquigny,Nicolas Devictor,Stefano Tarantola,2008-09-15 Managing uncertainties in industrial systems is a daily challenge to ensure improved design robust operation accountable performance and responsive risk control Authored by a leading European network of experts representing a cross section of industries Uncertainty in Industrial Practice aims to provide a reference for the dissemination of uncertainty treatment in any type of industry It is concerned with the quantification of uncertainties in the presence of data model s and knowledge about the system and offers a technical contribution to decision making processes whilst acknowledging industrial constraints The approach presented can be applied to a range of different business contexts from research or early design through to certification or in service processes The authors aim to foster optimal trade offs between literature referenced methodologies and the simplified approaches often inevitable in practice owing to data time or budget limitations of technical decision makers Uncertainty in Industrial Practice Features recent uncertainty case studies carried out in the nuclear air space oil mechanical and civil engineering industries set in a common methodological framework Presents methods for organizing and treating uncertainties in a generic and prioritized perspective Illustrates practical difficulties and solutions encountered according to the level of complexity information available and regulatory and financial constraints Discusses best practice in uncertainty modeling propagation and sensitivity analysis through a variety of statistical and numerical methods Reviews recent standards references and available software providing an essential resource for engineers and risk analysts in a wide variety of industries This book provides a guide to dealing with quantitative uncertainty in engineering and modelling and is aimed at practitioners including risk industry regulators and academics wishing to develop industry realistic methodologies **Aston Martin** David Dowsey,The Images Publishing Group,2010 Comprehensive 352 page history with beautiful color photography and detailed illustrations Includes thorough

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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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