

1 Brief Description of the ZF-AS Tronic



1.1 General

The ZF-AS Tronic transmission system is a combination of an electronically-pneumatically shifted constant mesh gearbox and an automated dry clutch. An electronic engine control unit and CAN communication must be in place before the ZF-AS Tronic transmission system can be used.

The automated clutch (no clutch pedal) renders clutch operation by the driver unnecessary. The actual shift process is undertaken by the electronic transmission control unit.

The driver has the opportunity to drive the vehicle in both semi-automatic mode and fully automatic mode. When in semi-automatic mode, manual shifting is simplified through the use of a range selector.

When in fully automatic mode, gears are selected and shifted by the electronic transmission control unit, although the driver can intervene if so desired. All system functions needed, e.g. Neutral, gear change, clutch overload, and diagnosis information are shown on the display.

Zf Astronic Parts Manual

Lei Shi

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the author's name.

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Plunkett's Engineering & Research Industry Almanac 2006: The Only Complete Guide to the Business of Research, Development and Engineering Jack W. Plunkett, 2006-05 A complete guide to trends and leading companies in the Engineering and Research business fields design development and technology based research Includes market analysis R D data and several statistical tables Nearly 400 in depth profiles of Engineering and Research firms Plunkett's Automobile Industry Almanac: Automobile, Truck and Specialty Vehicle Industry Market Research, Statistics, Trends & Leading Companies Jack W. Plunkett, 2007-10 Provides information on the truck and specialty vehicles business including automotive industry trends and market research mergers acquisitions globalization automobile manufacturers truck makers makers of specialty vehicles such as RVs automobile loans insurance and other financial services dealerships and components manufacturers 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, 2019-07-15 Fundamentals of Medium Heavy Duty Commercial Vehicle Systems Second Edition offers comprehensive coverage of basic concepts and fundamentals building up to advanced instruction on the latest technology coming to market for medium and heavy duty trucks and buses This industry leading Second Edition includes six new chapters that reflect state of the art technological innovations such as distributed electronic control systems energy saving technologies and automated driver assistance systems Advanced Vehicle Technology Heinz Heisler, 2002-07-17 This eagerly awaited second edition of Heinz Heisler s Advanced Vehicle Technology is a comprehensive and thorough description of vehicle bodies and components The second edition has been rigorously updated to provide additional material on subjects such as antilock braking vehicle aerodynamics tire tread design advances electronically controlled anti vibration engine mountings and transport refrigeration Around 100 new diagrams have been included to complement the text Advanced Vehicle Technology 2nd edition s depth of coverage detailed illustrations and fluent and precise style are the outstanding features in this high quality student text More quality artwork

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interpreted The resulting coherent methodology can be applied to represent the uncertainty in dependability models

European Motor Business ,1994 *F&S Index Europe Annual* ,1999 **Public Transport International** ,2004

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