

Technical Service Information



MANUAL INTRODUCTION

ZF8HP55



*This ZFHP55 was provided by
Worldwide Transmission Parts
in Chicago Illinois*

ZF8HP45/70/90



*This ZFHP45 was provided by
Corteco - Transtec
Milan Ohio*

ZF8HP Series Transmissions: 8HP45 / 8HP55 / 8HP70 / 8HP90 - (Variation 845RE / 870RE)

Applications: Audi Q5, Q7, A8 and A8L, BMW 1, 3, 5 and 7 series, Chrysler 300, Dodge Charger and Durango, Ram 1500, Jeep G Cherokee, Range Rover, Rolls-Royce and Bentley.

The ZF8HP transmission uses four single planetary gear sets to produce 8 forward speeds and reverse. These gear sets are connected to five clutch assemblies (shaft elements). Two of which are multi-disc brake type clutch assemblies and three which are driving type multi-disc clutch assemblies. Reducing drag, these clutch assemblies are arranged in such a manner that three clutch assemblies need to be applied (closed) while two remain released (open) for each gear.

The valve body and solenoids are joined together with the electronic transmission control (EGS) referred to as the Mechatronic Assembly. All of which is designed to transfer more torque to the wheels while simultaneously increasing efficiency.

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Mike Thomas



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Automotive Automatic Transmission and Transaxles Keith Santini, Kirk Vangelder, 2017-05-18 Automotive Automatic Transmission and Transaxles published as part of the CDX Master Automotive Technician Series provides students with an in depth introduction to diagnosing repairing and rebuilding transmissions of all types Utilizing a strategy based diagnostics approach this book helps students master technical trouble shooting in order to address the problem correctly on the first attempt Outcome focused with clear objectives assessments and seamless coordination with task sheets Introduces transmission design and operation electronic controls torque converters gears and shafts reaction and friction units and manufacturer types Equips students with tried and true techniques for use with complex shop problems Combines the latest technology for computer controlled transmissions with traditional skills for hydraulic transmissions Filled with pictures and illustrations that aid comprehension as well as real world examples that put theory into practice Offers instructors an intuitive methodical course structure and helpful support tools With complete coverage of this specialized topic this book prepares students for MAST certification and the full range of transmission problems they will encounter afterward as a technician About CDX Master Automotive Technician Series Organized around the principles of outcome based education CDX offers a uniquely flexible and in depth program which aligns learning and assessments into one cohesive and adaptable learning system Used in conjunction with CDX MAST Online CDX prepares students for professional success with media rich integrated solutions The CDX Automotive MAST Series will cover all eight areas of ASE certification **Truck and Trailer Systems Lab Manual** Mike Thomas, 2014-03-08 A practical medium and heavy duty truck systems Featuring more than 100 in depth lab exercises this hands on guide provides the practice you need to succeed as a medium and heavy duty truck service technician The labs meet and exceed NATEF standards Every system is thoroughly covered from electrical and lighting to brakes and transmissions Each lab includes Objective of the lab Safety precautions Tools needed to complete the lab Challenging review questions help to reinforce the topics covered and are patterned after the typical questions found on the ASE Medium Heavy Duty Truck Certification tests T3 through T8 Written by an expert with decades of experience as an automotive and diesel technician and instructor this lab manual is the perfect companion to the comprehensive text Truck and Trailer Systems Truck and Trailer Systems Lab Manual covers Vehicle identification numbers Engine transmission and drive axle ID tag numbers Safety Tools and measuring equipment Basic electrical Magnetism Batteries Starting system Charging system Lighting and wiring Computer systems Mobile heating ventilation and air conditioning systems Tires wheels and wheel end systems Frames and suspensions Steering systems Trailers and fifth wheels Hydraulic brake systems Air brake foundation brakes Air brake air system Anti lock brake systems Drive lines Clutches Drive axles Single and twin countershaft manual transmissions Automated manual transmissions Automatic transmissions Allison automatic transmissions PMI Auxiliary power units **Fundamentals of Automotive Technology** Kirk VanGelder, Kirk T.

VanGelder,2022-02-23 **Fundamentals of Automotive Technology Principles and Practice Third Edition** is a comprehensive resource that provides students with the necessary knowledge and skills to successfully master these tasks **Truck and Trailer Systems (PB)** Mike Thomas,2013-10-22 The most complete visual guide to servicing medium and heavy duty truck systems Written by an expert with decades of experience as an automotive and diesel technician and instructor Truck and Trailer Systems offers comprehensive information on medium and heavy duty truck service The book begins by discussing the trucking industry professional certifications safety tools and measuring equipment Then each system is thoroughly covered from electrical and lighting to brakes and transmissions Factory procedures from the most common manufacturers for diagnosis and repair are presented along with annotated photos and diagrams This practical authoritative resource is essential for those starting out in the field as well as experienced professionals in need of a detailed on the job reference Chapters include Objectives Notes Cautions Service tips Photos and diagrams Chapter reviews Truck and Trailer Systems covers Industry safety Basic electrical Magnetism Batteries Starting system Charging system Lighting and wiring Computer systems Mobile heating ventilation and air conditioning systems Tires wheels and wheel end systems Frames and suspensions Steering systems Trailers and fifth wheels Hydraulic brake systems Air brake foundation brakes Air brake air systems Antilock brake systems Drive lines Clutches Drive axles Single and twin countershaft manual transmissions Automated manual transmissions Automatic transmissions Allison transmission overhaul PMI Auxiliary power units

Fundamentals of Automotive Technology Vangelder,2017-02-24 Revised edition of Fundamentals of automotive maintenance and light repair Kirk T VanGelder 2015 **GM Automatic Overdrive Transmission Builder's and Swapper's Guide** Cliff Ruggles,2008 Vehicle maintenance **Innovations in Automotive Transmission Engineering**

Martin G Gabriel,2003-12-15 The automotive transmission plays a vital role in the vehicle powertrain yet in an optimum operation environment it is invisible to the customer This report examines the technological innovations in transmission design that contribute to important overall vehicle characteristics such as fuel economy vehicle performance quality and reliability This book is a reference providing background and solid supportive data for the manager and engineer with responsibility for directing the application of the transmission in vehicle design concepts Historical information is briefly reviewed as a basis for the state of development of future transmissions Topics Covered Transmission Types Gearing the Transmission Transmission Controls Performance Attributes Transmission Efficiency and Internal Component Power Losses Harnessing Noise Vibration and Harshness NVH and more *South African Automotive Light Vehicle Level 4 CDX* Automotive,2013-06-15 **Chrysler TorqueFlite A-904 & A-727** Tom Hand,2017-10-16 The A 904 and A 727 debuting in 1960 and 1962 respectively are 3 speed automatic Chrysler TorqueFlite Transmissions In Mopar circles they have become synonymous with strength durability and performance In fact 43 years after its first application A 904s were still found in the Jeep lineup TorqueFlites are known for their dependability but many have endured a tremendous amount of abuse over 50

plus years when hooked up to V 8 Mopar powerplants There is little doubt that some of these automatics could be prone to failure or at least need a thorough rebuild Tom Hand shares his decades of experience rebuilding TorqueFlite transmissions with chapters dedicated to troubleshooting disassembly and reassembly performance modifications post installation procedures and the most thorough source guide offered in print ever The author walks you through the TorqueFlite rebuild with color photos showcasing step by step procedures with highly detailed easy to follow text This book will keep money in your pocket and add experience to your r sum but more important it will help you get your Mopar back on the road p p1

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Official Gazette of the United States Patent and Trademark Office ,2004 The American Legion ,1987 **The American Legion Magazine** ,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 **Publishers' Directory** Gale Group,2003 Provides detailed information on more than 20 000 U S and Canadian publishers including nearly 1 000 distributors wholesalers and jobbers as well as small independent presses The latest edition adds approximately 500 new entries with increased Canadian listings and Web site and e mail addresses

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