

**Installation**

- 01 Heat the output bearing's inner race to max. 110 °C. Place protection ring 1X56 138 187 (1) onto the output bearing to do this.

**NOTE**

The shafts must be assembled correctly ready for installation.

**DANGER**

Only touch heated protective tool when wearing protective gloves.

- 02 Remove protection ring 1X56 138 187 and carefully insert the shafts fully into the transmission housing.
- 03 Pull the shafts into the correct axial position from the output end using a bushing (against the bearing inner race or speedometer worm) and a hex bolt (M12x1.5). Tightening torque = 120 Nm.

**NOTE****Separate clutch housing version**

Check the installation is correct by measuring distance "B", see section 10.1. Remove the bushing and hex bolt.

- 04 Remove fixtures and auxiliary strip
- 05 Coat thread of articulated bolts with sealing compound. First screw in articulated bolts of 1st/2nd gear with spring washer.

**NOTE**

Articulated bolts for 1st/2nd gear (2) = approx 48.5 mm

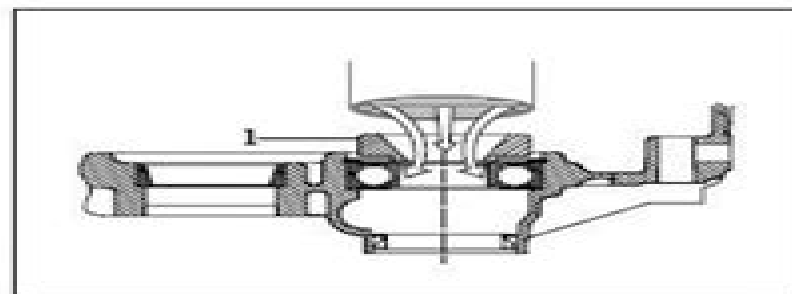
Articulated bolts for 3rd/4th gear (3) = approx 55.0 mm

Articulated bolts for 5th/6th gear (4) = approx 55.0 mm

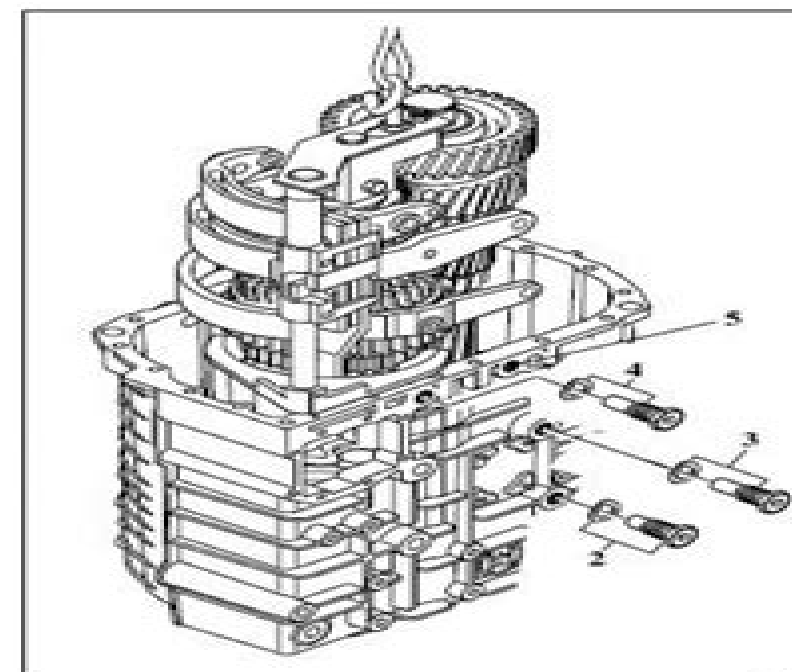
**NOTE**

Overdrive version (4),  
direct drive version (5).

- 06 Screw in and tighten the remaining articulated bolts and spring washers as previously described. Tightening torque = 160 Nm.



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# Zf Transmission Repair Manual

**Shasha Hu**



## **Zf Transmission Repair Manual:**

*How To Rebuild and Modify Your Manual Transmission* Robert Bowen, This resource explains how to rebuild and modify transmissions from both rear and front wheel drive cars It explains the principles behind the workings of all manual transmissions and helps readers understand what they need to do and know to rebuild their own transmissions Includes how to determine what parts to replace how and why to replace certain seals spacers springs forks and other parts and where to find and how to measure the specifications for each particular transmission *Chilton's Truck and Van Repair Manual* ,1986

**Motor Auto Repair Manual, 1982-1988** Motor,1987 This latest edition of the bestselling Auto Repair Manual covers more than 1 900 models of domestic cars from 1982 1988 and includes more than 55 000 essential service specifications and repair facts as well as 2 500 diagrams cutaways and quick check spec charts Illustrated *Bentley BMW 3 Series Service Manual 1992-1998* Bentley Publishers,1999 If you re looking for better understanding of your E36 BMW look no further See and learn how to perform routine maintenance procedures with the highest level of clarity and comprehensiveness This in depth manual provides maintenance procedures for everything from brake fluid changes to resetting the service indicator Covers M3 318i 323i 325i 328i sedan coupe and convertible models 1992 98 **Chilton's Auto Repair Manual 1986**

Chilton Book Company,1985 **Chilton's Ford Repair Manual, 1980-1987** ,1987 The total Ford manual for multi vehicle owners information for all models cars and light trucks [The BMW 507 Saga II](#) Thomas S. Pesikay,2022-10-14 [The BMW 507 Saga II](#) By Thomas S Pesikay This book is the true story of one man s decades long quest for his personal automotive Holy Grail In his own words along with copious amounts of images Thomas S Pesikay presents his lifelong passion for one of BMW s most prized and rare automobile models the BMW 507 Records show that only 254 were built between 1956 and 1959 and the 507 has been widely praised as one of the most stunningly beautiful automobiles ever made *General Motors Full-Size Trucks (99-01) Repair Manual* Jeff Kibler,2002 This manual offers do it yourselves at all levels total maintenance service and repair information including photos and exploded view illustrations **Chilton's Auto Repair Manual** ,1993 Each edition includes information for that year and several previous years [Chilton's Auto Repair Manual, 1991](#) Chilton Book Company,1990 [Chilton's Auto Repair Manual, 1988-1992](#) Jeff S. Chilton,Chilton Book Company,1991 Information on repair replacement and adjustment for major components of American cars mass produced between 1988 and 1992

**Direct Support and General Support Maintenance Manual (including Repair Parts and Special Tools Lists)** ,1983 **Chilton's Chrysler Dodge/Plymouth Repair Manual 1988-1992** Chilton Book Company,1992 These manuals provide comprehensive repair and maintenance information on all makes and model years as indicated for each manufacturer For consumers who stick to one make of car this series will provide multi vehicle information For retailers with limited shelf space this series provides model specific coverage in only five volumes **Land Rover Discovery Maintenance and Upgrades Manual, Series 1 and 2** Ralph Hosier,2014-10-31 Based on real life experiences and written by expert authors

the books in the Maintenance and Upgrades series from Crowood will help owners develop the workshop skills needed for the maintenance and repair of their cars and give guidance on possibilities for improvements and upgrades to performance. With step by step instructions and safety information throughout this book is a valuable technical resource for owners of the Land Rover Discovery Series 1 and 2. Illustrated with over 300 photographs the book covers sourcing parts and tools common problems and solutions covering all engine types including Rover V8 and diesel engines service and repair improvements for wheels and tyres and detailed specifications. This valuable technical guide for owners of the Land Rover Discovery Series 1 and 2 will be of particular interest to home and professional mechanics and Land Rover enthusiasts specialists and owners clubs. Illustrated with over 300 colour photographs

**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

101 Projects for Your Corvette 1984-1996 Richard Newton, One of the most popular and most easily acquired Corvettes is the C4 produced from 1984 through 1996. The performance enhancements maintenance procedures and restoration tips provided in this book provide Corvette owners a wide variety of options to upgrade their cars all within reasonable price ranges. Projects include restoration tips time estimates tools needed expertise level and money necessary to complete the project so the reader will know what is required before starting

Ford Pick-ups & Bronco Automotive Repair Manual John B. Raffa, John Harold Haynes, 1991

**Transmission Service and Repair** Mitchell International, Inc, Mitchell, Mitchell Information Services, 1980

**Chilton's Repair Manual** Richard J. Rivele, 1991

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