

**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

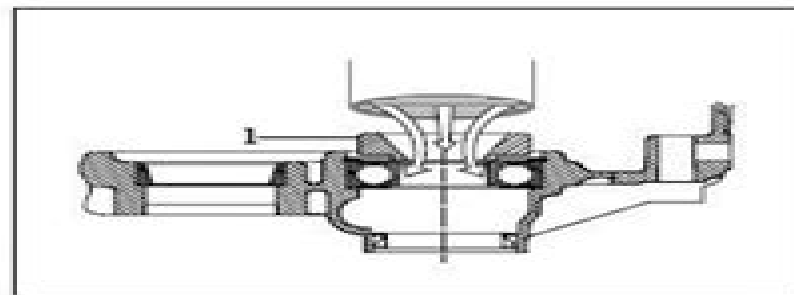
Articulated bolts for 3rd/4th gear (3) = approx 55.0 mm

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 12 Speed Repair Manual

**Haoran Hu, Simon Baseley, Xubin Song**

A red circular graphic with a gradient, appearing as a partial circle or a stylized arrow pointing to the right, located behind the author names.

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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 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 Motor Imported Car Repair Manual ,1983 BMW 3-Series (E30) Performance Guide 1982-1994 Robert Bowen,2013-02-15 The model that truly launched BMW into the performance arena in the United States were the second generation of 3 series cars Today the E30 family of BMWs are both readily affordable and are popular with enthusiasts wanting to personalize them **Chilton's Ford Repair Manual, 1980-1987** ,1987 The total Ford manual for multi vehicle owners information for all models cars and light trucks *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 Chilton Book Company Repair Manual Chilton Book Company,The Nichols/Chilton,1988 Chilton s original line of model specific information covers older vehicles Each manual offers repair and tune up guidance designed for the weekend for the weekend mechanic covering basic maintenance and troubleshooting For the hobbyist or used car owner this information is essential and unavailable elsewhere **Chilton's Import Car Repair Manual, 1975-81** Chilton Automotive Books,1981-04 Each section contains car identification service procedures and specifications Areas covered include electrical system engine rebuilding troubleshooting cooling systems emission controls fuel systems transmissions turbocharging diesel engines clutches transaxles differentials suspension steering brakes and fuel injection Lemon-Aid New and Used Cars and Trucks 2007-2017 Phil Edmonston,2017-03-11 Steers buyers through the

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