

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

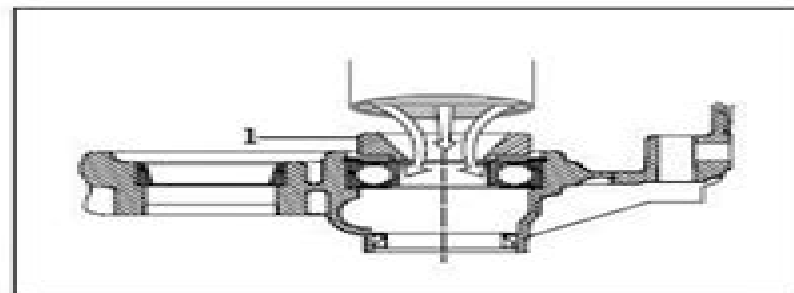
Articulated bolts for 3rd/4th gear (3) = approx 55.0 mm

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

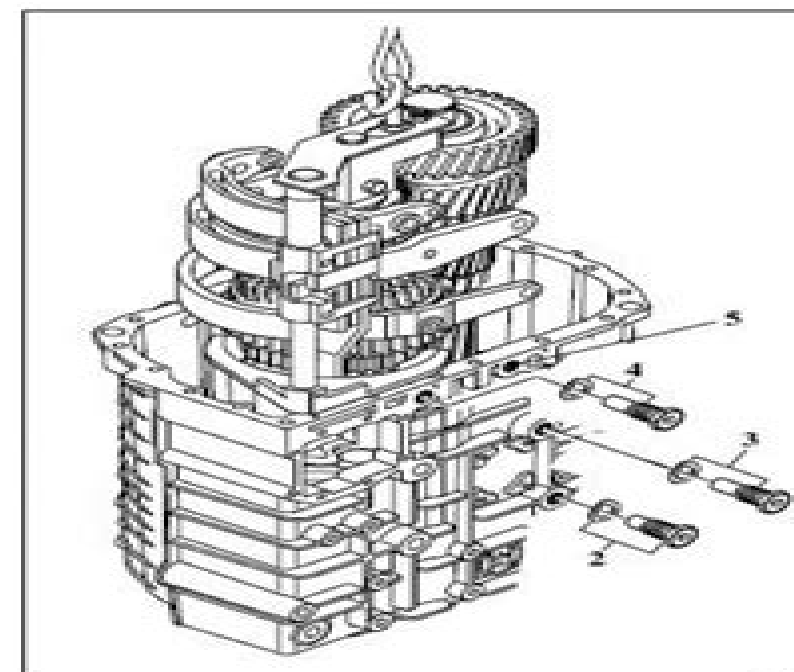
NOTE

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 Repair Manual Gearbox

Robert R. Redfield



Zf Repair Manual Gearbox:

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 **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 *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 *Direct Support and General Support Maintenance Manual (including Repair Parts and Special Tools Lists)*,1983 *Porsche 356 Owners Workshop Manual 1957-1965* Trade Trade,2014-08-08 This do it yourself Workshop Manual has been specially written for the owner who wishes to maintain his vehicle in first class condition and to carry out the bulk of his own servicing and repairs Considerable savings on garage charges can be made and one can drive in safety and confidence knowing the work has been done properly Comprehensive step by step instructions and illustrations are given on most dismantling overhauling and assembling operations Certain assemblies require the use of expensive special tools the purchase of which would be unjustified In these cases information is included but the reader is recommended to hand the unit to the agent for attention Throughout the Manual hints and tips are included which will be found invaluable and there is an easy to follow fault diagnosis at the end of each chapter Whilst every care has been taken to ensure correctness of information it is obviously not possible to guarantee complete freedom from errors or omissions or to accept liability arising from such errors or omissions Instructions may refer to the righthand or lefthand sides of the vehicle or the components These are the same as the righthand or lefthand of an observer standing behind the vehicle and looking forward **Bentley BMW 5-Series 1989-95 Service Manual** Bentley Publishers,1998-07-03 If you re looking for better understanding of your BMW look no further This manual provides the highest level of clarity and completeness for all service and repair procedures Covers 525i 530i 535i 540i including touring **Chilton's Import Car Repair Manual** Chilton Automotive Editorial Staff,Chilton Book Company,1979 This book includes repair information on cars and light trucks Includes specifications tune ups troubleshooting and diagnosis engine rebuilding emissions controls brakes transmissions and more **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

General Motors Full-Size Trucks (99-01) Repair Manual Jeff Kibler, 2002 This manual offers do it yourselfers 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 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

Aviation Intermediate Maintenance Manual, 1989

Mitchell Transmission Service & Repair Mitchell, Mitchell Information Services, 1986

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

, 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

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

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

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Reviewing **Zf Repair Manual Gearbox**: Unlocking the Spellbinding Force of Linguistics

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