

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

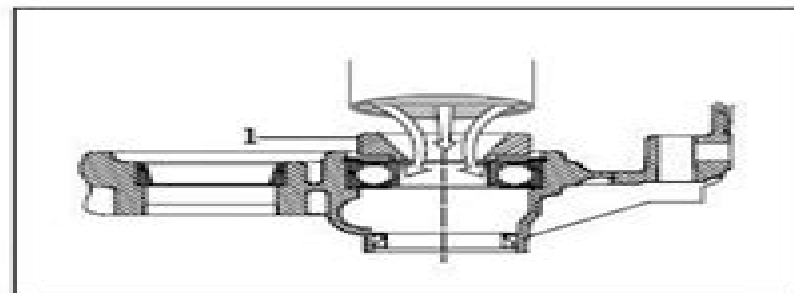
Articulated bolts for 3rd/4th gear (3) = approx 55.0 mm

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

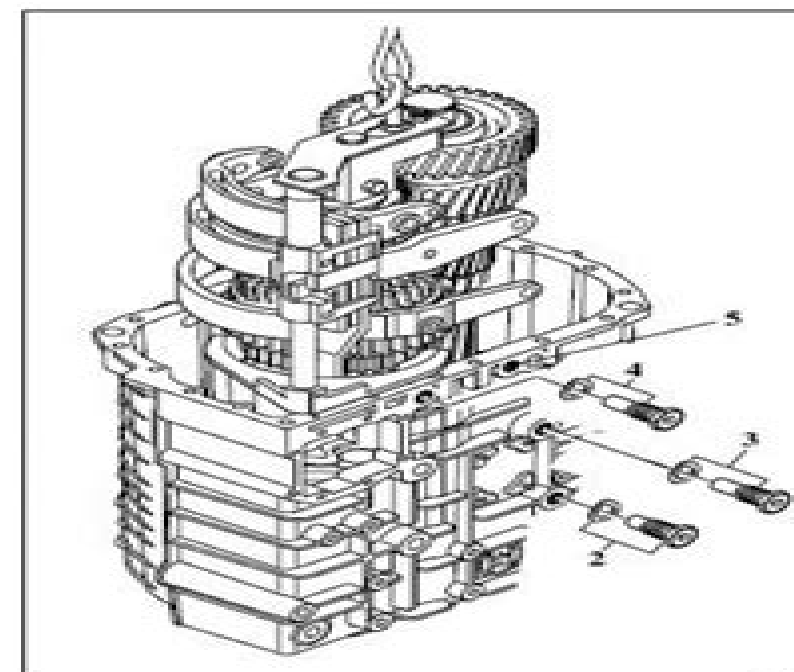
NOTE

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 Cvt Repair Manual

DJ Losen



Zf Cvt Repair Manual:

MGF and TF Restoration Manual Roger Parker, 2013-03-01 MGF and TF Restoration Manual provides the MGF or TF owner with a complete workshop guide to mechanical and body restoration for the cars With the MGF in production between 1995 and 2001 and the MG TF until 2011 many of the cars have survived in a structurally and mechanically sound state without the huge costs and complications of needing a complete body restoration that is so often the case with pre 1980 MGs Topics covered include Model overview and parts supply Workshop safety information Bodywork external and subframes Trim including hood problems and replacement All mechanical components including head gasket replacement Electrical systems including security systems Modification cosmetic mechanical and engine An essential and practical workshop guide for all owners of these attractive sports cars Gives instructions on minor repair and maintenance procedures and covers a full engine strip and rebuild Covers workshop safety information bodywork trim all mechanical components and much much more Features a number of different project cars Superbly illustrated with approximately 1000 colour step by step photographs Roger Parker is an acknowledged MGF and TS expert with years of restoration experience Synthetic Lubricants And High- Performance Functional Fluids, Revised And Expanded Leslie R. Rudnick, Ronald L. Shubkin, 1999-03-10 Offers state of the art information on all the major synthetic fluids describing established products as well as highly promising experimental fluids with commercial potential This second edition contains chapters on polyinternalolefins polymer esters refrigeration lubes polyphenyl ethers highly refined mineral oils automotive gear oils and industrial gear oils The book also assesses automotive industrial aerospace environmental and commercial trends in Europe Asia South America and the US The Automotive Industry and the Environment P Nieuwenhuis, P Wells, 2003-07-25 The automotive industry currently faces huge challenges The fundamental technological paradigm it relies on volume production has become progressively more unprofitable in the face of increasingly segmented niche markets At the same time it faces increasing regulatory and social pressures to improve both the sustainability of its products and methods of production Building on a wealth of research The automotive industry and the environment addresses those challenges and how they can be met in producing a sustainable and profitable industry for the future The authors first discuss the development of the automotive industry and the problems it currently faces They then consider the solutions the industry can adopt The book reviews trends in more environmentally friendly technologies such as the use of more sustainable fuel sources and new types of modular design with built in recyclability However these technologies can only be fully exploited if methods of manufacture change The book also describes models of decentralised production particularly the micro factory retailing MFR model which provide an alternative to volume production and promise to be both more sustainable and more profitable The automotive industry and the environment provides both a cogent diagnosis of the environmental and other problems facing the industry and a blueprint for a better future It will be widely welcomed by the industry policy makers and all those

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Automotive Electricity Joseph Beretta,2013-03-04 Since the beginning of the century electrical engineering technologies and applications have pervaded daily life and are present in the majority of everyday products tools and appliances Increasingly these applications are becoming more prevalent in the automotive vehicle and products market While change in this field has been relatively slow over the last ten last years the pace of change is now beginning to accelerate and we are witnessing a wave driven by regulatory constraints and market laws which are sweeping away the last bastions of resistance This book discusses both the historical and scientific issues surrounding the application of electrical technology in the automotive drives field as well as potential future developments such as hybrid vehicles and fuel cells In the current context of energy conservation pollution prevention and carbon control this book will provide an important and timely examination of a potentially enormous new market **Automotive Lubricants Reference Book** Arthur J. Caines,Roger F. Haycock,John E. Hillier,2004 The automotive lubricants arena has undergone significant changes since the first edition of this book was published in 1996 Environmental concerns particularly regarding improvement of air quality have been important in recent years Reduced emissions are directly related to changes in lubricant specifications and quality and the second edition of the Automotive Lubricants Reference Book reflects the urgency of such matters by including updated and expanded detail

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