

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

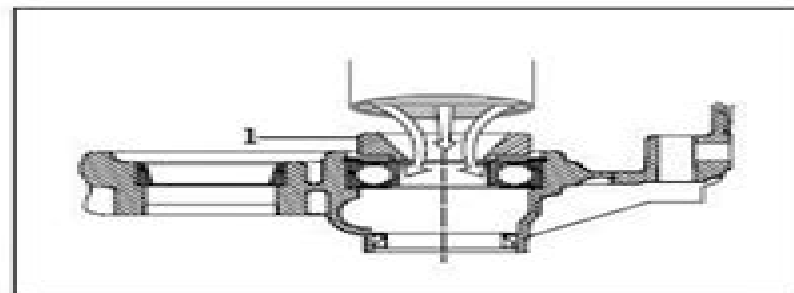
Articulated bolts for 3rd/4th gear (3) = approx 55.0 mm

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

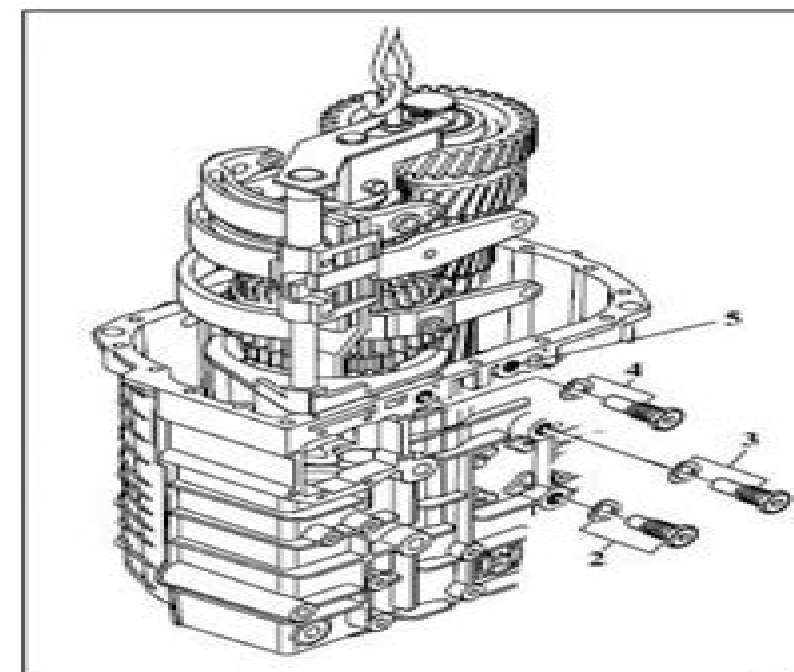
NOTE

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 5hp590 Transmission Repair Manual

John Haynes



Zf 5hp590 Transmission Repair Manual:

Public Transport International ,1997 **Max Ellery's Transmission Repair Manual Holden's 1963-1988** Max Ellery,1996-07-01 Truck Unit Repair Manual ,1978 *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 Transmission Repair Book Ford 1960 to 2007 Max Ellery,2003-05-01 Automatic AOD BW 35 40 LE85 91 93 95 97 C4 C5 C6 C9 C10 FMX and M51 Manual 3 speed 4 speed and 5 speed single rail Top Loader T5 and M57 Step by step instructions for a pull down and rebuild Includes specifications torque settings problem diagnosis shift speeds plus more information This book is from an Australian publisher and covers both American and Australian applications

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