

Fuller Mid-Range Transmissions TRSM0180

October 2007

FS-7206A



Powering Business Worldwide

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SUPPORT

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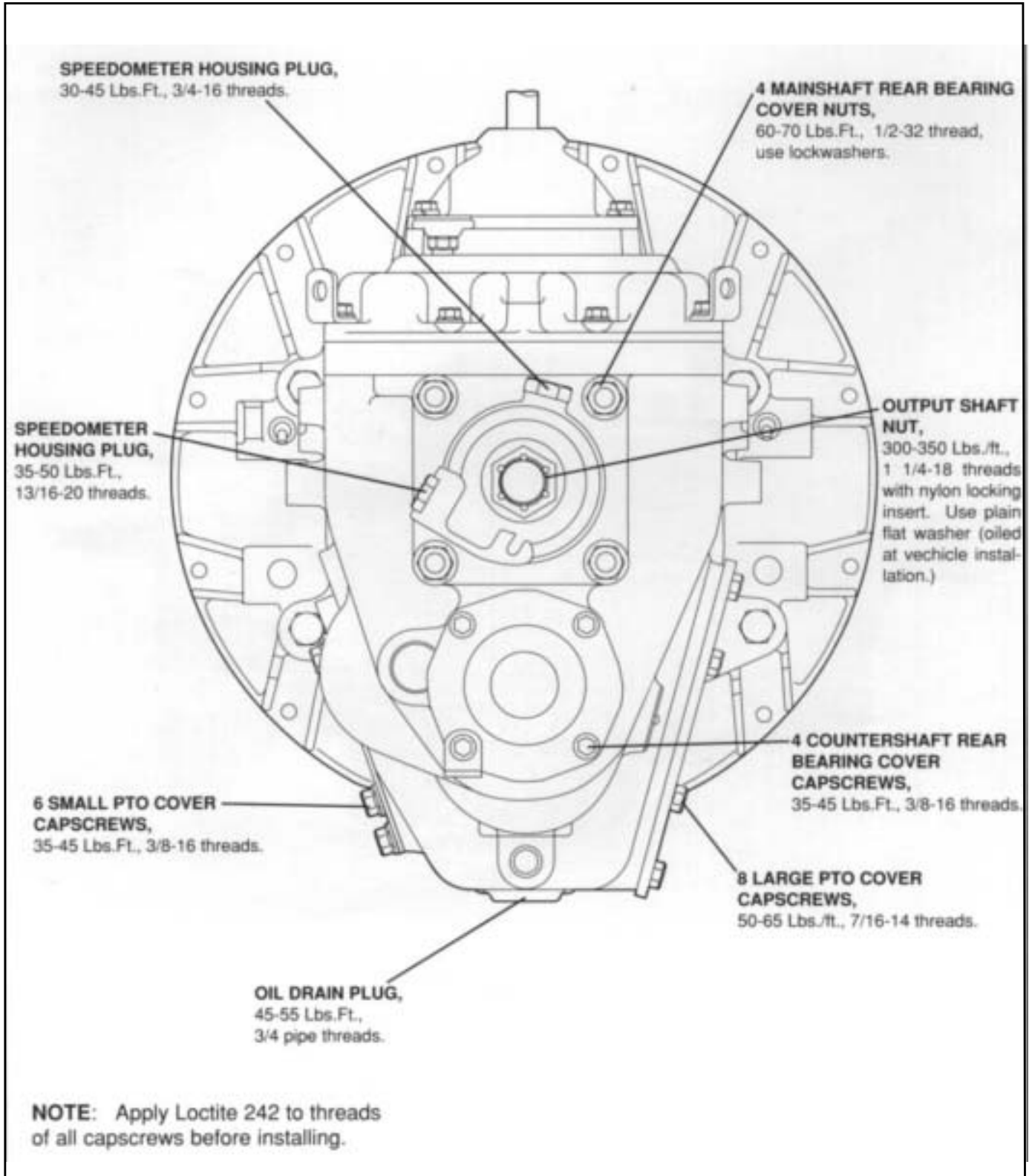


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TORQUE RECOMMENDATIONS

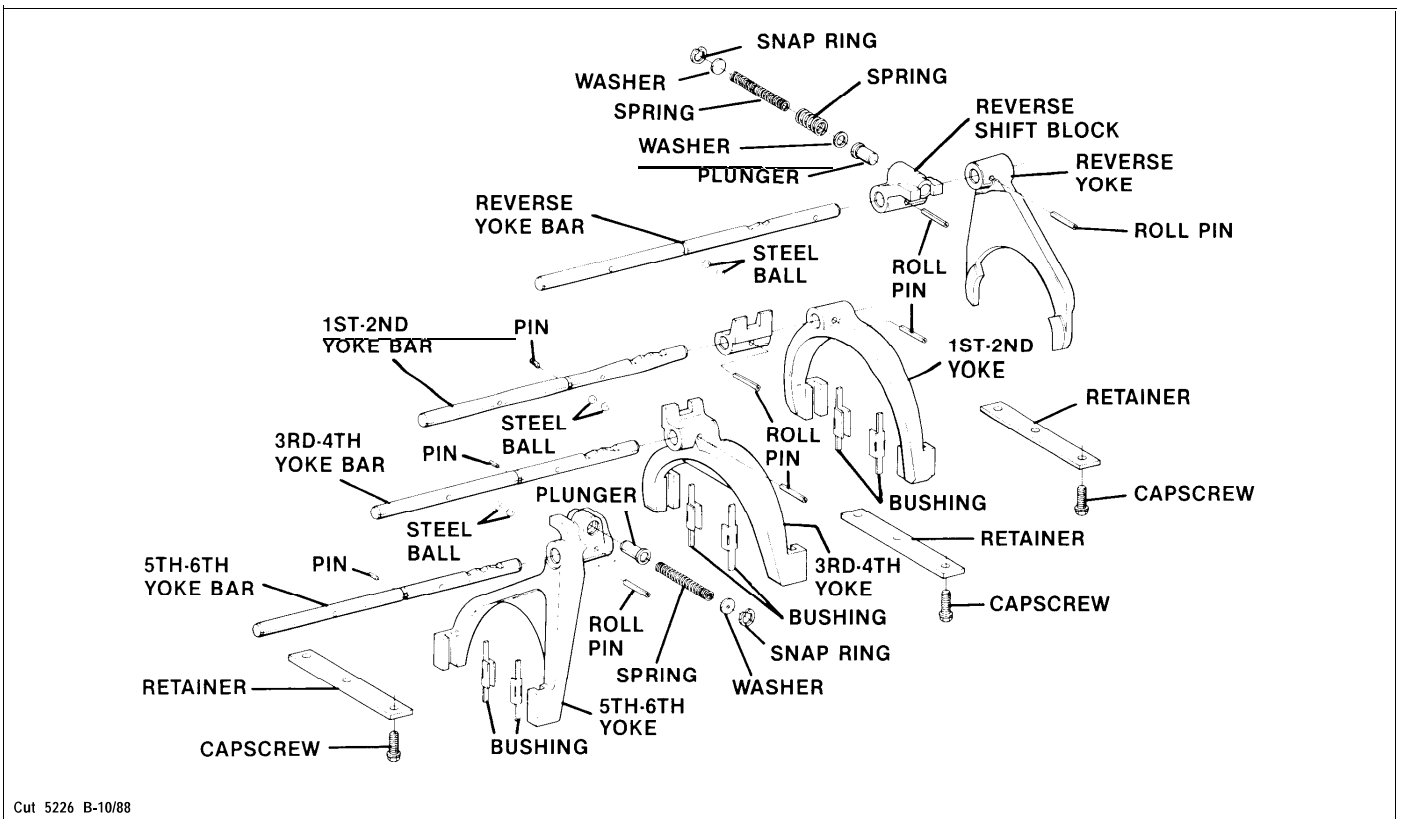
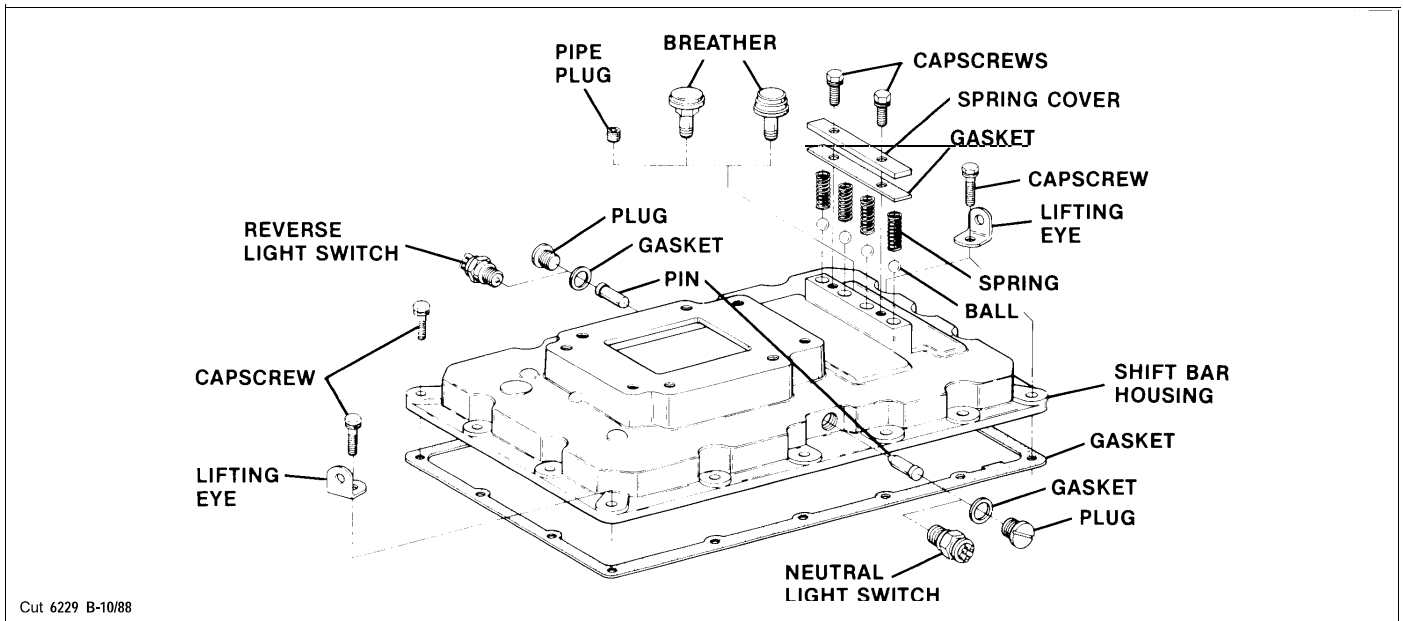
Correct torque application is extremely important to assure long transmission life. Over-tightening or under-tightening of fasteners can result in a loose installation and, in many instances, eventually cause damage to the transmission. Use a torque wrench to attain recommended torque ratings. Do not torque capscrews dry.



DISASSEMBLY AND REASSEMBLY SHIFTING CONTROLS

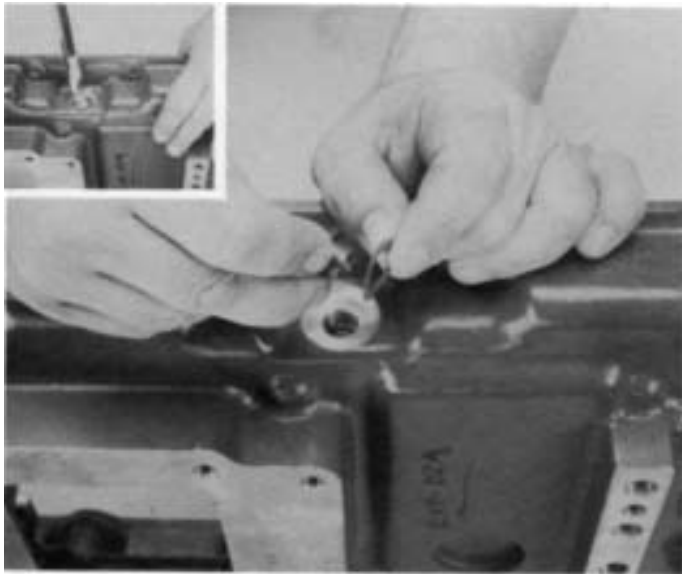
SHIFT BAR HOUSING ASSEMBLY

A. Removal and Disassembly Round Rail Design

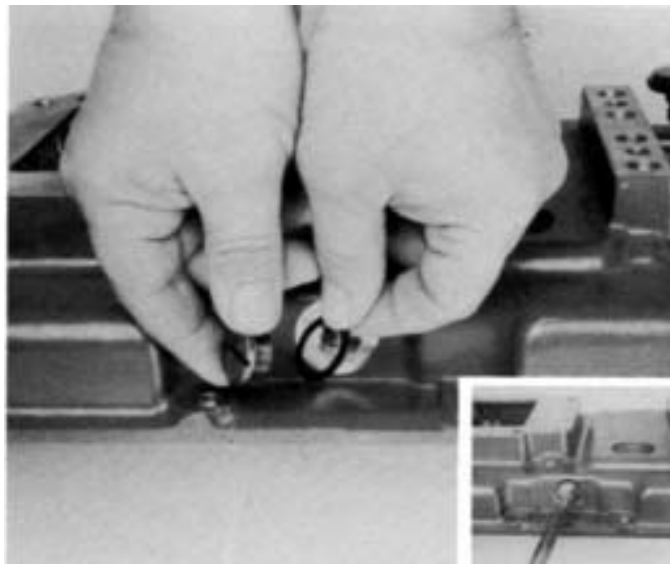


DISASSEMBLY AND REASSEMBLY SHIFTING CONTROLS

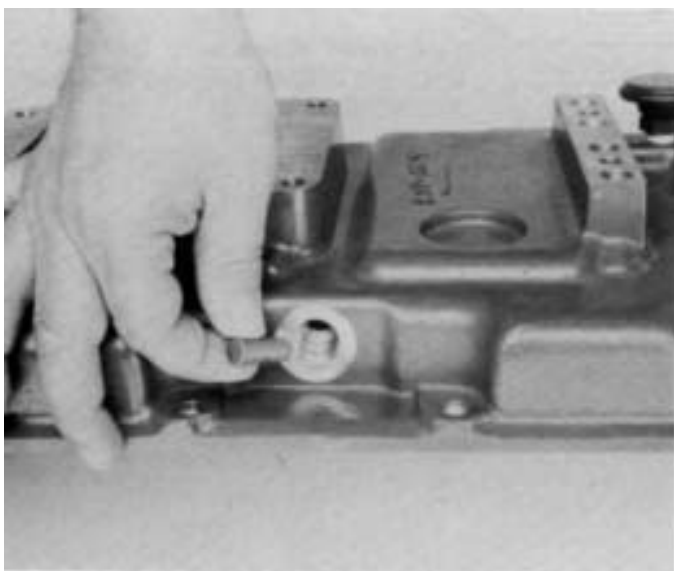
SHIFT BAR HOUSING ASSEMBLY (con't.)



13. Install reverse light switch or plug and gasket in shift bar housing. Tighten reverse light switch or plug (inset).



15. Install the neutral light switch or plug and gasket in shift bar housing. Tighten neutral light switch or plug in shift bar housing (inset).

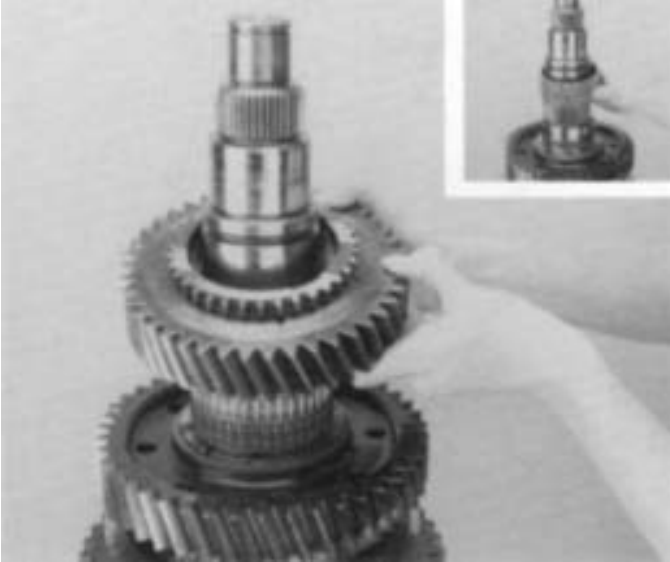


14. Install the neutral light switch pin in the shift bar housing.

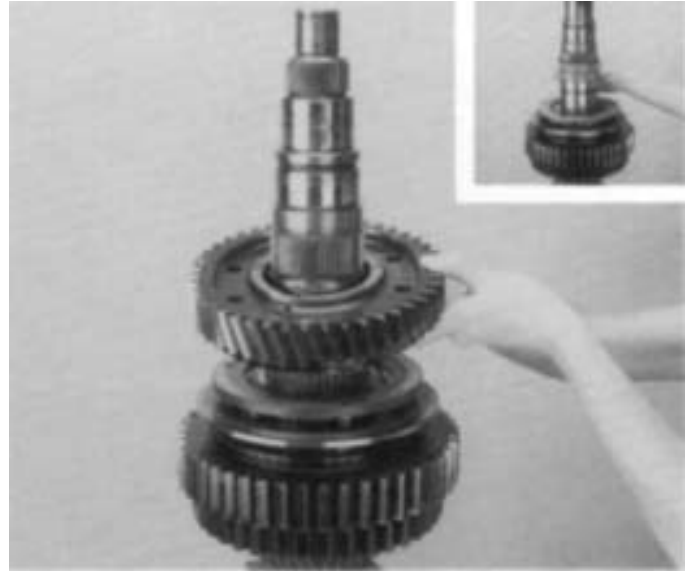


16. Install interlock balls in the shift bar housing in the following sequence: position two interlock balls in the 1st-2nd crossbore; 3rd-4th crossbore; and the 5th-6th crossbore.

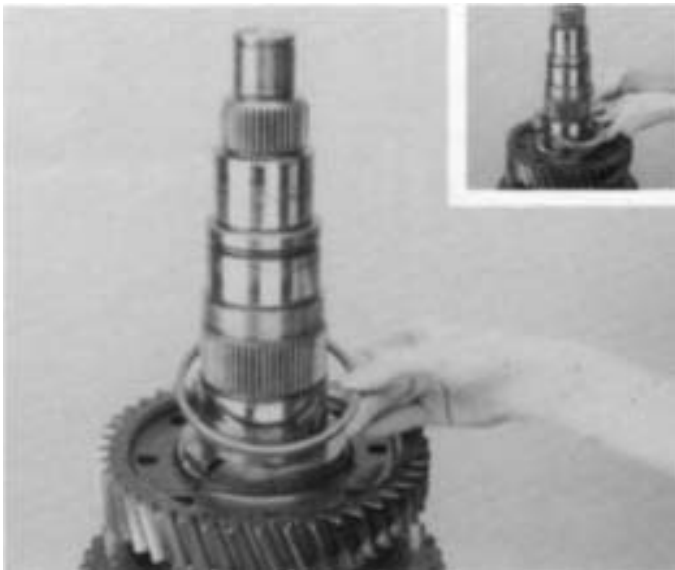
DISASSEMBLY - TRANSMISSION



11. Remove the 3rd speed gear from the mainshaft. Remove the 3rd speed gear bearings from the mainshaft (inset).



13. Remove 2nd speed gear and 2nd speed gear bearings from the mainshaft (inset).



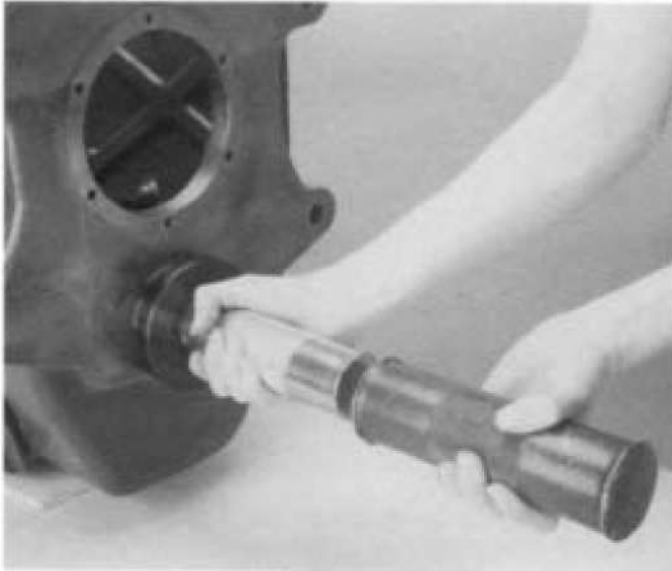
12. Remove the split washer retaining ring and split washers from the mainshaft.



14. Remove 1st-2nd speed synchronizer assembly from the mainshaft. Reposition the mainshaft in a vise, as shown, mainshaft rear facing up (inset).

REASSEMBLY - TRANSMISSION

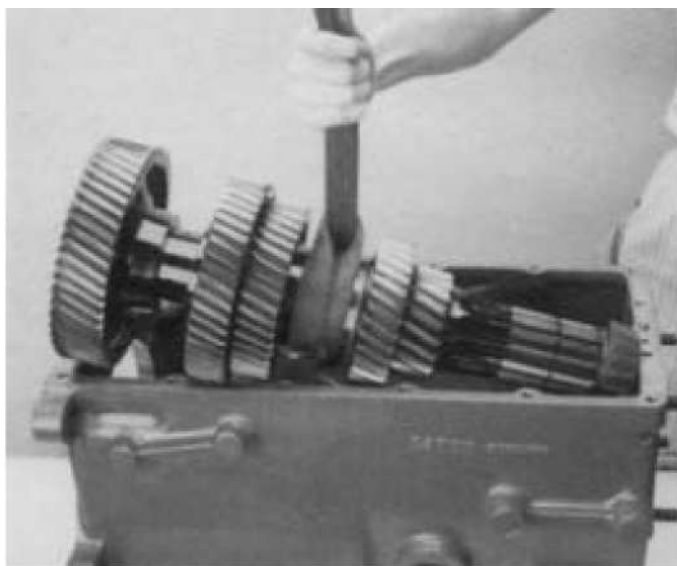
⚠ WARNING DO NOT REPLACE A DAMAGED, BENT, OR DENTED COUNTER. SHAFT FRONT BORE PLUG. USE A NEW BORE PLUG TO PREVENT OIL LEAKAGE.



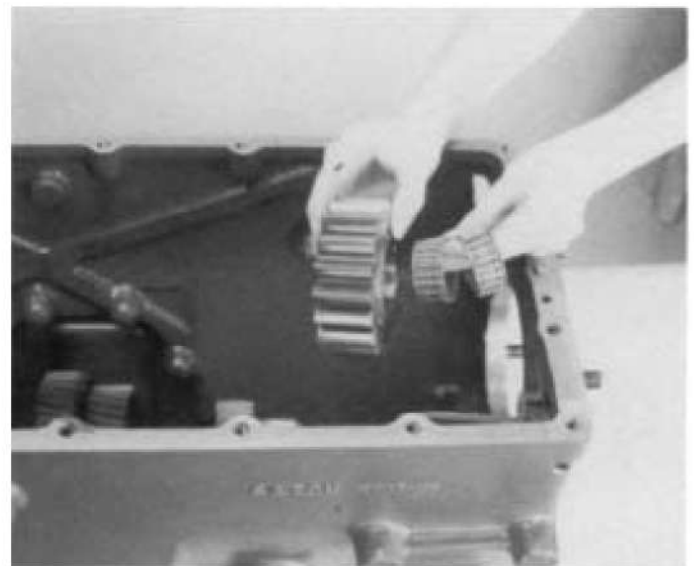
10. If previously removed, coat the outer diameter of the countershaft front bore plug with Loctite #510. Using a bearing driver, carefully drive the bore plug into the transmission case. The outer diameter bore plug lip should be even with the transmission case front. Make sure the bore plug is not cocked in the bearing bore.



12. Install a new O-ring in the reverse idler shaft O-ring groove.

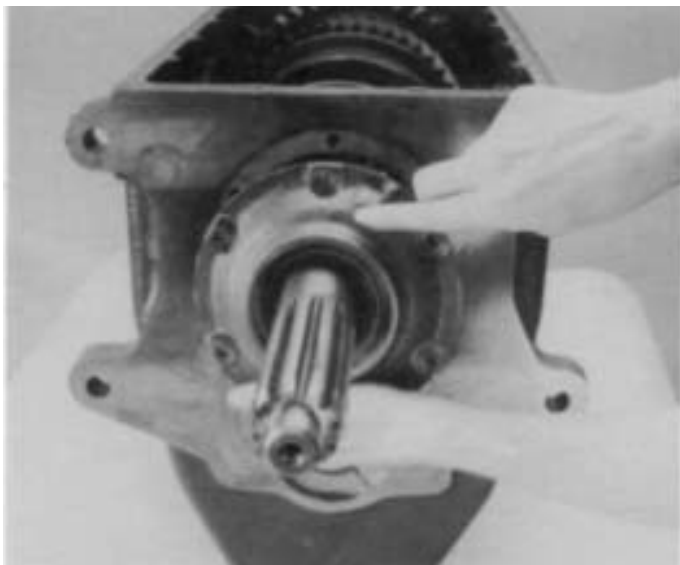


11. Carefully lower the countershaft assembly into the case. Do not seat the countershaft in the front bearing race. Let the rear of the countershaft extend out the countershaft rear bearing bore, to aid in the installation of the reverse idler gear.



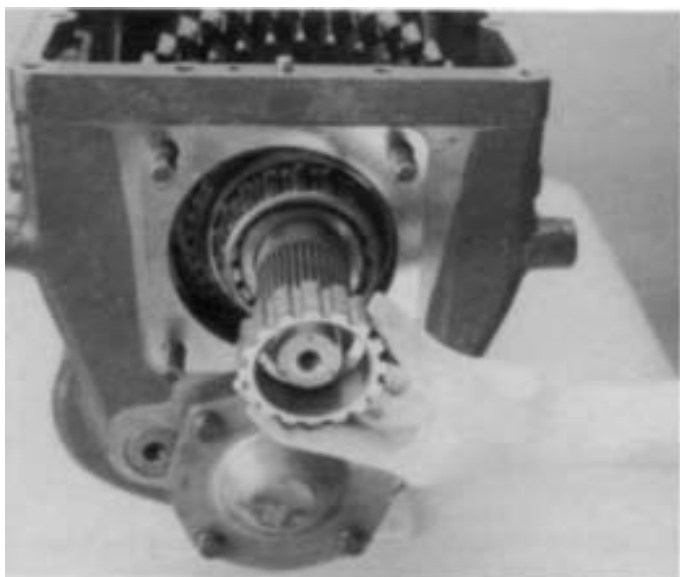
13. Install the reverse idler gear bearings in the I.D. of the reverse idler gear.

REASSEMBLY - TRANSMISSION



25. Install the front bearing cover and gasket, align the cover and gasket with the six capscrew holes in the case. Install the six capscrews and tighten to the recommended torque.

NOTE: The top of the front bearing cover is marked **ÓTOPÓ** for proper installation.



26. Install the speedometer drive or rotor on the output shaft.

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