

DESCRIPTION & OPERATION

The IB5 transaxle is a fully synchronized 5-speed manual overdrive transaxle. An aluminum transaxle housing comprises 2 sections. See **Fig. 2** . Clutch system is hydraulically controlled. All gears are constant mesh. When reverse is selected, direction of rotation in output shaft is changed by an idler gear. All gears are helical and have synchronizers, except reverse. 1st and 2nd gears have dual synchronizers that consist of an inner synchronizer ring, cone ring, outer synchronizer ring and synchronizer hub. See **Fig. 3** and **Fig. 4** . Dual synchronization gives considerable improved gearshift quality. Input torque is transmitted to the differential through a spur gear. If front wheels are traveling at different speeds, front half-shaft pinions can move on differential pinions. The IB5 manual transaxle uses synthetic fluid. See **LUBRICATION** . Fluid changes are not necessary.

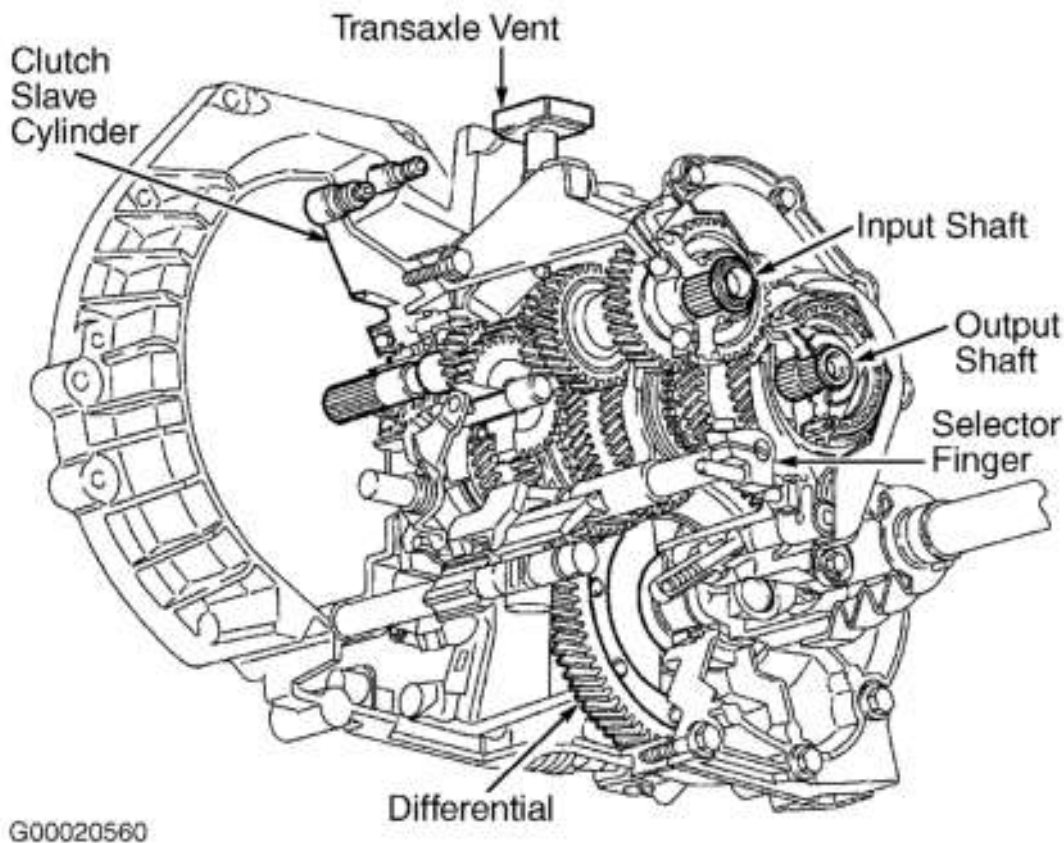
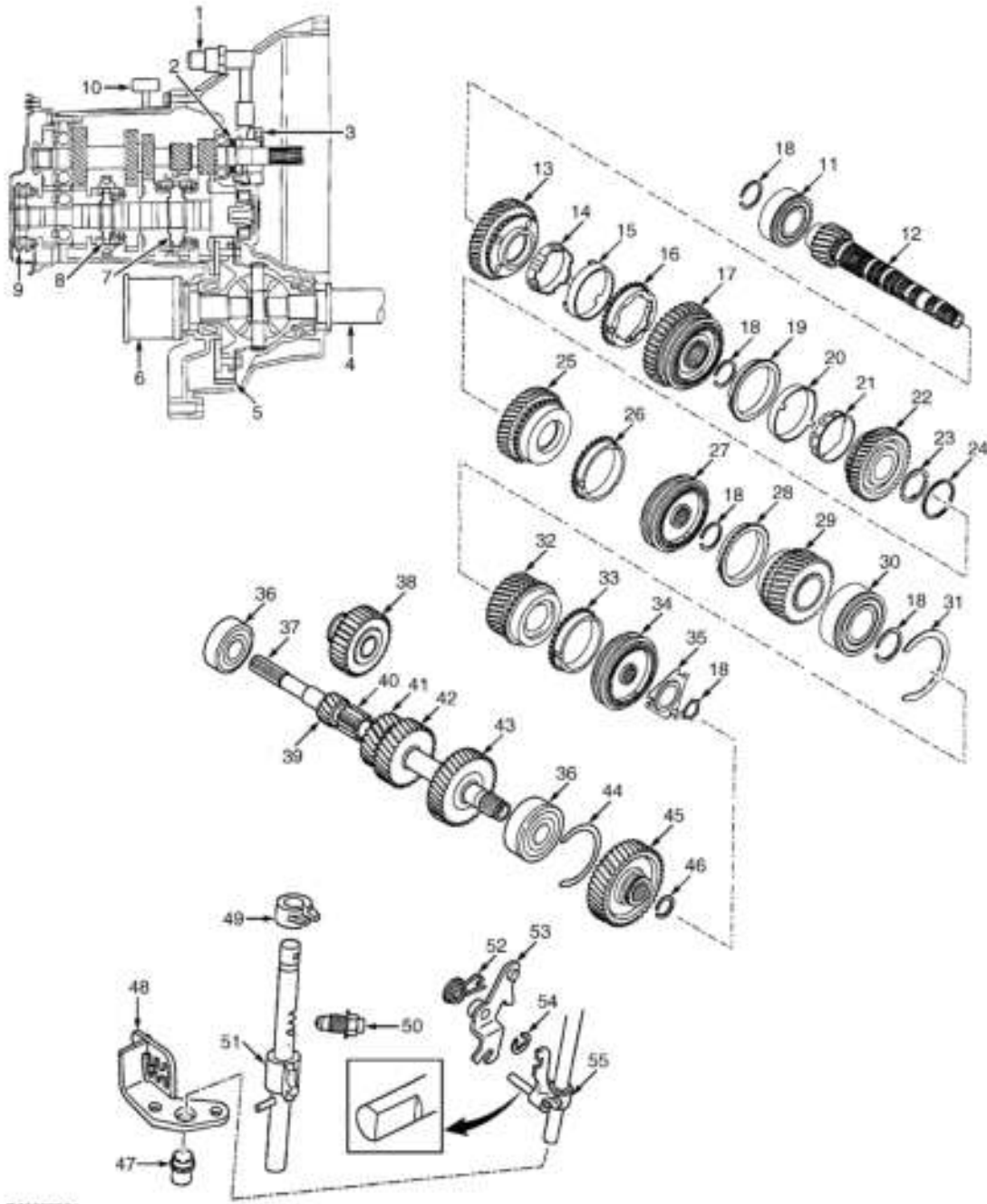


Fig. 2: Identifying Manual Transaxle Components
Courtesy of FORD MOTOR CO.



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Fig. 3: Exploded View Of IB5 Transaxle Components (1 Of 2)
 Courtesy of FORD MOTOR CO.

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|--|---|---|
| 1. Quick-Release Coupling | 20. Synchronizer Cone | 37. Input Shaft |
| 2. Oil Seal | 21. Inner Synchronizer Ring | 38. Reverse Idler |
| 3. Clutch Slave Cylinder | 22. 2nd Gear Wheel | 39. 1st Gear Wheel |
| 4. Intermediate Shaft | 23. Half-Round Snap Ring | 40. Reverse Gear Wheel |
| 5. Spur Gear | 24. Snap Ring | 41. 2nd Gear Wheel |
| 6. Drive Axle Tripod Housing | 25. 3rd Gear Wheel | 42. 3rd Gear Wheel |
| 7. Gear Synchronizer -
1st/2nd Gear | 26. Synchronizer Ring -
3rd Gear | 43. 4th Gear Wheel |
| 8. Gear Synchronizer -
3rd/4th Gear | 27. Gear Synchronizer -
3rd/4th Gear | 44. Snap Ring |
| 9. Gear Synchronizer -
5th Gear | 28. Synchronizer Ring -
4th Gear | 45. 5th Gear Wheel |
| 10. Transaxle Breather | 29. 4th Gear Wheel | 46. Snap Ring |
| 11. Cylinder Roller Bearing | 30. Ball Bearing (Closed
Both Sides) | 47. Selector Rod Guide Sleeve -
5th/Reverse Gear |
| 12. Output Shaft | 31. Snap Ring | 48. Selector Gate |
| 13. 1st Gear Wheel | 32. 5th Gear Wheel | 49. Select Interlock Plate |
| 14. Inner Synchronizer Ring | 33. Synchronizer Ring -
5th Gear | 50. Selector Shaft Interlock
Mechanism |
| 15. Synchronizer Cone | 34. Gear Synchronizer -
5th Gear | 51. Selector Shift |
| 16. Outer Synchronizer Ring | 35. Retaining Plate | 52. Return Spring -
Selector Lever/Reverse Gear |
| 17. 1st/2nd Gear Synchronizer
(With Reverse Gear Wheel) | 36. Ball Bearing | 53. Selector Lever -
Reverse Gear |
| 18. Snap Ring | | 54. Snap Ring |
| 19. Outer Synchronizer Ring | | 55. Selector Fork -
5th/Reverse Gear |

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Fig. 4: Legend For Exploded View Of IB5 Transaxle Components (2 Of 2)
Courtesy of FORD MOTOR CO.