

# FOUR-SPEED TRANSMISSION (MUNCIE)

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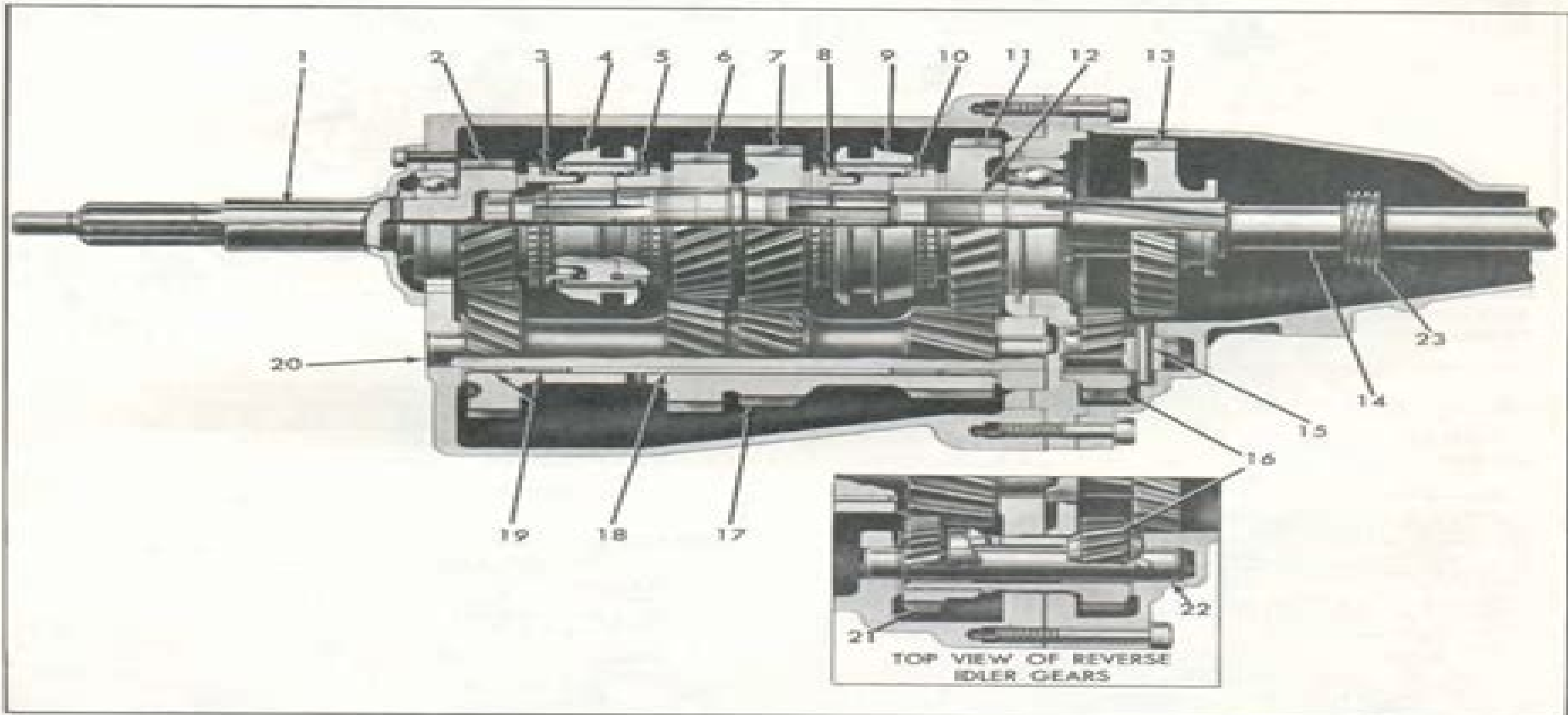


Fig. 1M—Four-Speed Transmission Cross Section (Close Ratio Shown)

- |   |   |                                  |  |
|---|---|----------------------------------|--|
| 1. Bearing Retainer                       | 6. Third Speed Gear                       | 11. First Speed Gear             | 18. Countershaft Bearing Roller Spacer |
| 2. Main Drive Gear                        | 7. Second Speed Gear                      | 12. First Speed Gear Sleeve      | 19. Countershaft Bearing Roller        |
| 3. Fourth Speed Synchronizing Ring        | 8. Second Speed Synchronizing Ring        | 13. Reverse Gear                 | 20. Countershaft                       |
| 4. Third and Fourth Speed Clutch Assembly | 9. First and Second Speed Clutch Assembly | 14. Mainshaft                    | 21. Reverse Idler Gear (Front)         |
| 5. Third Speed Synchronizing Ring         | 10. First Speed Synchronizing Ring        | 15. Reverse Idler Shaft Roll Pin | 22. Reverse Idler Shaft                |
|   |   | 16. Reverse Idler Gear (Rear)    | 23. Speed Drive Gear                   |
|   |   | 17. Countershaft                 |  |

# Muncie Transmission Manual

**ML Yell**



## **Muncie Transmission Manual:**

**Muncie 4-Speed Transmissions** Paul Cangialosi, 2014-10-15 The Muncie 4 speeds M20 M21 and M22 are some of the most popular manual transmissions ever made and continue to be incredibly popular The Muncie was the top high performance manual transmission GM offered in its muscle cars of the 60s and early 70s It was installed in the Camaro Chevelle Buick GS Pontiac GTO Olds Cutlass and many other classic cars Many owners want to retain the original transmission in their classic cars to maintain its value Transmission expert and veteran author Paul Cangialosi has created an indispensable reference to Muncie 4 speeds that guides you through each crucial stage of the rebuild process Comprehensive ID information is provided so you can positively identify the cases shafts and related parts It discusses available models parts options and gearbox cases Most important it shows how to completely disassemble the gearbox identify wear and damage select the best parts and complete the rebuild It also explains how to choose the ideal gear ratio for a particular application Various high performance and racing setups are also shown including essential modifications gun drilling the shafts cutting down the gears to remove weight and achieving race specific clearances Muncie 4 speeds need rebuilding after many miles of service and extreme use In addition when a muscle car owner builds a high performance engine that far exceeds stock horsepower a stronger high performance transmission must be built to accommodate this torque and horsepower increase No other book goes into this much detail on the identification of the Muncie 4 speed available parts selection of gear ratios and the rebuild process     How to Rebuild Corvette Rolling Chassis 1963-1982 George McNicholl, Second and third generation Corvettes may well be the stuff of some collectors dreams but if you're an owner or enthusiast who'd like to drive your dream car this guide to repairing and rebuilding will put you and your Vette on the road With step by step notes and photographs George McNicholl documents the complete rebuilding of four Corvettes 1965 and 1967 convertibles and 1969 and 1972 coupes putting the process within reach of any do it yourself mechanic McNicholl's focus is on rebuilding the second and third generation Corvette rolling chassis for daily use with clear and concise information on engines transmissions differentials frames front suspensions brakes wheels and fuel exhaust and cooling systems for models from 1963 to 1982     Chevelle SS Restoration Guide, 1964-1972 Paul A. Herd, Get all the details exactly right on engines frames suspension exterior interior and more Includes all the vital numbers to assure authenticity including original parts numbers Don't settle for less Your Super Sport deserves the best Important features in this book include 350 photos and diagrams Collector Car News     *How to Build a Killer Street Machine* Jefferson Bryant, 2010     **Moody's Manual of Railroads and Corporation Securities**, 1910     Chevrolet SS Muscle Car Red Book Peter C. Sessler, 1991 A complete and accurate statistical guide to the extremely popular Super Sport Chevys 1967-72 Camaro SS and 1965-73 Chevelle SS and 1962-70 Impala SS Colors options serial numbers production totals specs and facts A vital fact book Similar to the popular Corvette Black Book     Muncie HM-290 Series Manual Transmissions General Motors Corporation. Hydra-matic Division, 1987

How to Restore Your Camaro 1967-1969 Tony E. Huntimer,2010 Covers all major systems components Cover

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