

Muncie Transmission Information

Ratios that were available

Model	Application	Input spline	Counter shaft OD	1 st gear ratio	2 nd gear ratio	3 rd gear ratio	4 th gear
M20	1963-65	10	7/8" only	2.56	1.91	1.48	1.00
M20	1965-74	10 or 26	1" only	2.52	1.88	1.46	1.00
M21	1963-65	10 or 26	7/8" only	2.20	1.64	1.28	1.00
M21	1965-1974	10 or 26	1" only	2.20	1.64	1.28	1.00
M22	1967-1974	10 or 26	1" only	2.20	1.64	1.28	1.00

Muncie information

Case casting numbers

Casting #: 3831704 Years: 1963 Only 7/8" Counter shaft pin (207 input bearing)
 Casting #: 3839606 Years: 1963 - 1964 7/8" Counter shaft pin
 Casting #: 3851325 Years: 1964 - 1965 7/8" Counter shaft pin
 Casting #: 3864848 Years: 1965 only 7/8" Counter shaft pin
 Casting #: 3864___ Years: 1965 only 7/8" Counter shaft pin (last 3 digits milled off)
 Casting #: 3885010 Years: 1965 - 1967 1" Counter shaft pin
 Casting #: 3925660 Years: 1968 - 1970 1" Counter shaft pin
 Casting #: 3925661 Years: 1970 - 1974 1" Counter shaft pin (used in some early 1975 cars)

Ratios of the M20 , M21 , M22

Year 1963-1965 Type: M20 Rings: None Ratio: 2.56 / 1.91 / 1.48 / 1.00 / 3.16
 Year 1966-1974 Type: M20 Rings: Two Ratio: 2.52 / 1.88 / 1.46 / 1.00 / 3.11
 Year 1963-1974 Type: M21 Rings: One Ratio: 2.20 / 1.64 / 1.28 / 1.00 / 2.27
 Year 1967-1974 Type: M22 Rings: None Ratio: 2.20 / 1.64 / 1.28 / 1.00 / 2.27

Input Shaft Tooth and Spline Count Related to Year

Year 1963-1965 Type: M20 Rings: None Spline: 10 Tooth Count: 24
 Year 1966-1970 Type: M20 Rings: Two Spline: 10 Tooth Count: 21
 Year 1970-1974 Type: M20 Rings: Two Spline: 26 Tooth Count: 21
 Year 1963-1970 Type: M21 Rings: One Spline: 10 Tooth Count: 26
 Year 1970-1974 Type: M21 Rings: One Spline: 26 Tooth Count: 26
 Year 1967-1970 Type: M22 Rings: None Spline: 10 Tooth Count: 26
 Year 1969-1974 Type: M22 Rings: None Spline: 26 Tooth Count: 26

Important Notes

Some input shafts produced by General Motors and After-market Company's have no identifying rings on them.

The rings originally corresponded with rings or grooves on the cluster gear so that the assembler matched a one or two ring input with a one or two ring cluster. When regular production was stopped in 1974, GM stopped making inputs with these marks, possibly to save machining costs. Tail housing casting numbers 3857584 (1966-1970 27 spline tails) and 3978764 (1970-1974 32 spline tails) had passenger side speedometer outputs, all others used drivers side speedometer outputs. All 32 spline tails had the passenger side speedometer output.

Serial and VIN Numbers

Serial numbers on the Muncie 4 speeds begin with the letter "P". The serial number includes a date code of when the transmission was assembled. Serial numbers from 1963 to 1966 included just the month and day. P0101 would indicate January 1st. From 1967 to 1968 the serial number got a year designator and a letter designator for the month such as P7D27, meaning April 27 for the 1967 model year. One thing to remember, if you have a Muncie dated with a September to December build date, the transmission was actually assembled the prior year. An example would be the date code P9R12C, this is for a 1969 production car, the R stands for October and 12 stands for the day. This means this Muncie was assembled October 12, 1968 for the 1969 model year. 1969 to 1974 Muncie's got a ratio designator at the end of the serial number. Another example is P4K31B, this works out to be July 31, 1974, M21 ratio.

Month Code Chart

January	Letter: A	May	Letter: E	September	Letter: P
February	Letter: B	June	Letter: H	October	Letter: R
March	Letter: C	July	Letter: K	November	Letter: S
April	Letter: D	August	Letter: M	December	Letter: T

Ratio Code Chart

Letter: A	M20 Ratio
Letter: B	M21 Ratio
Letter: C	M22 Ratio