

AXLE COMPONENTS

9.75"/8.8"/7.5" RING GEAR AND PINION SETS

PART NUMBER	RATIO	AXLE
MUSTANG/RANGER/F-150 8.8"		
M-4209-F308*	3.08:1	-
M-4209-F327*	3.27:1	-
M-4209-G355M*	3.55:1	-
M-4209-F373N*	3.73:1 ③	-
M-4209-G410A*	4.10:1	-
M-4209-G430M*	4.30:1	-
M-4209-G456*	4.56:1	-
M-4209-G488*	4.88:1	-
M-4209-G513*	5.13:1 ①	-
MUSTANG/RANGER 7.5"		
M-4209-L345*	3.45:1	-
M-4209-L373M*	3.73:1	-
M-4209-L410N*	4.10:1	-



M-4209-F308 shown

PART NUMBER	RATIO	AXLE
5.4L F-150, EXPEDITION, NAVIGATOR, F-250/350 ②		
M-4209-H373*	3.73:1	9.75" (rear)
M-3410-L373*	3.73:1	8.8" (front)
M-4209-J410M*	4.10:1	9.75" (rear)
M-4209-J456M*	4.56:1	9.75" (rear)
M-4209-K410M*	4.10:1	10.25" (rear)
M-4209-K456M*	4.56:1	10.25" (rear)

NOTES:

- ① May require rear cover modifications.
- ② These ring and pinions have been developed to increase towing capability of 5.4L Expeditions.
- ③ Replaces our popular M-4209-F373. New manufacturing technology utilizing a Face Hob Process which features a single pass pinion tooth machining operation compared to a conventional three pass process for machining. CNC cut and lapped gear teeth. Higher strength and better quality gears are produced with the Face Hob Process. NOTE: These new gears look a little different, the gear teeth are cut on a different angle and the ring gear has a bevel on the back of the gear.

RECALIBRATOR

M-9731-T01* 2001-04 (except P221 truck)

- Fits most Ford vehicles with square connector on speed sensor
- Corrects speedometer, odometer, ABS, cruise control systems and other calibration errors related to any changes in axle ratio or tire size



RECALIBRATOR

M-9731-T99* 1999-00

- Fits most Ford vehicles that come factory equipped with D-shaped connector on speed sensor
- Corrects speedometer, odometer, ABS, cruise control systems and other calibration errors related to any changes in axle ratio or tire size



SPEEDOMETER GEAR USAGE CHART – 7.5" AND 8.8" AXLE

The chart specifies the driven gear recommended to obtain approximately correct MPH readings when the listed Ford Racing ring and pinion gear sets are used in conjunction with the indicated speedometer drive gear and Mustang original equipment. 15"/16"/17" tires (800-815 revolutions/mile). A dash in the chart indicates that particular combination cannot be obtained. If you are using oversize/undersize tires, obtain the revolutions/mile information from the tire manufacturer and plug it into the formula below. The part numbers of the various speedometer drive and driven gears are shown in the charts. The gears can be obtained from any Ford/Lincoln-Mercury dealer. They are not available from Ford Racing. The drive gears on T-5/T-45/SROD/Tremec manual transmissions can be changed. The drive gear on Ford rear wheel automatic transmissions is machined into the output shaft. Changing the drive gear is impractical since it requires a new output shaft and transmission teardown. Most have 7 or 8 teeth.

AXLE RATIO	SPEEDOMETER DRIVEN GEAR TEETH		
	DRIVE GEAR TEETH		
	6T	7T ①	8T ②
3.08	-	18	20
3.27	16	19	21
3.45/3.55	17	20	-
3.73	18	21	-
4.10	20	-	-
4.30	21	-	-

- NOTES:** ① Used in most vehicles with V-8 and T-5 transmissions from 1983-89 and 1996-98 Cobra with T-45 transmissions.
 ② Used on 1990-95 Mustang V-8 with T-5 transmissions and 1996-98 Mustang GT with T-45 transmissions.
 ③ Discontinued.

T-5 MANUAL TRANS. DRIVE GEARS (17285)			MANUAL TRANS. DRIVEN GEARS (17271)			AUTO TRANS. DRIVEN GEARS (17271)		
NUMBER OF TEETH	COLOR	SERVICE PART NUMBER	NUMBER OF TEETH	COLOR	SERVICE PART NUMBER	NUMBER OF TEETH	COLOR	SERVICE PART NUMBER
6	Black	E3ZZ-B	16	Wine	C0DZ-A	16	Blue	D0AZ-A ③
7	Yellow	E3ZZ-A	17	White	C3DZ-C	17	Green	C7SZ-A
8	Green	F0ZZ-A	18	Yellow	C0DD-B	18	Gray	C7SZ-B ③
T-45 MANUAL TRANS. DRIVE GEARS (17285)			19	Pink	C0DZ-B	19	Tan	C7VY-A
			20	Black	C1DZ-A	20	Orange	C8SZ-B
7		F6ZZ-AA	21	Red	C40Z-A	21	Purple	D00Z-B
8		F6ZZ-BA						

SPECIAL APPLICATIONS DRIVEN GEAR CALCULATION EXAMPLE

STEP 1

If your axle/tire combination is not in the above charts, you can calculate the number of teeth required on the driven gear by using this formula:

$$\text{Driven Gear Teeth} = \frac{\text{Drive Gear Teeth} \times \text{Axle Ratio} \times \text{Tire Rev. Per Mile}}{1000} = \frac{7 \times 3.73 \times 815}{1000} = 21.3 \text{ (driven gear teeth)}$$

STEP 2

- T-5 Trans.
- Drive Gear Teeth = 7
- Axle Ratio = 3.73
- Tire Rev. Per Mile = 815 (225/60 VR15)

STEP 3

You would select driven gear with closest whole number of teeth, which would be the 21-tooth C40Z-17271-A part.