

## MODULAR RATIOS AND ASSEMBLIES

At Auto Gear, the part numbers for modular countershaft Gearboxes, Gearbox Kits, and Gearsets all contain three digit 'Ratio Codes' (charted below).

### RATIO CODES FOR GEARBOXES, GEARBOX KITS AND GEARSETS

M22 RATIOS	M23 RATIOS	4 <sup>TH</sup> GEAR	3 <sup>RD</sup> GEAR	2 <sup>ND</sup> GEAR	1 <sup>ST</sup> GEAR (1)
311	314	1.000	1.729	2.225	2.984(2.994)
321	324	1.000	1.593	2.225	2.984(2.994)
331	334 M23Z	1.000	1.468	2.225	2.984(2.994)
	344	1.000	1.353	2.225	(2.994)
312	315	1.000	1.729	2.043	2.984(2.994)
322	325	1.000	1.593	2.043	2.984(2.994)
332 M22Z (3)	335 (3)	1.000	1.468	2.043	2.984(2.994)
	345	1.000	1.353	2.043	(2.994)
	316	1.000	1.729	1.879	(2.994)
	326	1.000	1.593	1.879	(2.994)
	336	1.000	1.468	1.879	(2.994)
	346	1.000	1.353	1.879	(2.994)
211	214 M23W	1.000	1.483	1.908	2.559(2.568)
221 (2) (3)	224 (2) (3)	1.000	1.366	1.908	2.559(2.568)
231	234	1.000	1.259	1.908	2.559(2.568)
	244	1.000	1.160	1.908	(2.568)
212	215	1.000	1.483	1.752	2.559(2.568)
222 M22W	225	1.000	1.366	1.752	2.559(2.568)
232	235	1.000	1.259	1.752	2.559(2.568)
	245	1.000	1.160	1.752	(2.568)
	216	1.000	1.483	1.611	(2.568)
	226	1.000	1.366	1.611	(2.568)
	236	1.000	1.259	1.611	(2.568)
	246	1.000	1.160	1.611	(2.568)
111 M22 (3)	114 M23 (3)	1.000	1.274	1.640	2.199(2.207)
121	124	1.000	1.174	1.640	2.199(2.207)
131	134	1.000	1.082	1.640	2.199(2.207)
	144	1.000	0.997	1.640	(2.207)
112	115	1.000	1.274	1.506	2.199(2.207)
122 M22X	125 M23X	1.000	1.174	1.506	2.199(2.207)
132	135	1.000	1.082	1.506	2.199(2.207)
	145	1.000	0.997	1.506	(2.207)
	116	1.000	1.274	1.385	(2.207)
	126	1.000	1.174	1.385	(2.207)
	136	1.000	1.082	1.385	(2.207)
	146	1.000	0.997	1.385	(2.207)

Notes: (1) M22 and M23 ratios differ in 1<sup>st</sup> gear only, the latter shown in parenthesis.

(2) SCCA 'American Sedan' approved gearsets.

(3) This gearset offers nearly identical RPM drops between gears, so-called 'Geometric' spacing.



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*Prefixes ('Product Codes') tell us whether the item is a Gearbox ('18-000-'), Gearbox kit ('18-400-') or Gearset ('18-410-'). For example, '18-000-122' is a complete M22X gearbox, '18-400-222' is an unassembled M22W gearbox kit, and '18-410-332' is an M22Z gearset.*

*Suffixes ('Option Codes') refine the specification. There are two sets, one for Gearboxes and Gearbox kits, and a second for Gearsets.*

### OPTION CODES FOR GEARBOXES AND GEARBOX KITS

GEARBOX OPTION CODE	INPUT SPLINE	OUTPUT SPLINE	ROLLER 1ST
-0X (NOT WRITTEN OUT)	26 OILSEAL	32	YES
-1X (OBSOLETE)	26 NUT	32	YES
-2X	26 OILSEAL	27	YES
-3X (OBSOLETE)	26 NUT	27	YES
-4X	10 NUT	32	YES
-6X	10 NUT	27	YES
-8X	26 OILSEAL	32	NO
-9X (OBSOLETE)	26 NUT	32	NO
-10X	26 OILSEAL	27	NO
-11X (OBSOLETE)	26 NUT	27	NO
-12X	10 NUT	32	NO
-14X	10 NUT	27	NO

### OPTION CODES FOR GEARSETS

GEARSET OPTION CODE	INPUT SPLINE	ROLLER 1ST
-0X (NOT WRITTEN OUT)	10 NUT	NO
-1X	10 NUT	YES
-2X	26 OILSEAL	NO
-3X	26 OILSEAL	YES
-4X	26 NUT	NO
-5X	26 NUT	YES