

MODULAR RATIOS AND ASSEMBLIES



At AutoGear, 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

M23 RATIOS	4TH GEAR	3RD GEAR	2ND GEAR	1ST GEAR (1)
314	1 .000	1 .729	2 .225	2 .984(2 .994)
324	1 .000	1 .593	2 .225	2 .984(2 .994)
334 M23Z	1 .000	1 .468	2 .225	2 .984(2 .994)
344	1 .000	1 .353	2 .225	(2 .994)
315	1 .000	1 .729	2 .043	2 .984(2 .994)
325	1 .000	1 .593	2 .043	2 .984(2 .994)
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)
214 M23W	1 .000	1 .483	1 .908	2 .559(2 .568)
224 (2) (3)	1 .000	1 .366	1 .908	2 .559(2 .568)
234	1 .000	1 .259	1 .908	2 .559(2 .568)
244	1 .000	1 .160	1 .908	(2 .568)
215	1 .000	1 .483	1 .752	2 .559(2 .568)
225	1 .000	1 .366	1 .752	2 .559(2 .568)
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)
114 M23 (3)	1 .000	1 .274	1 .640	2 .199(2 .207)
124	1 .000	1 .174	1 .640	2 .199(2 .207)
134	1 .000	1 .082	1 .640	2 .199(2 .207)
144	1 .000	0 .997	1 .640	(2 .207)
115	1 .000	1 .274	1 .506	2 .199(2 .207)
125 M23X	1 .000	1 .174	1 .506	2 .199(2 .207)
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 1st 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.

9-6-24

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DESIGNED & ASSEMBLED IN THE USA



530 State Fair Boulevard
Syracuse, NY 13204
P: 315.471.8141
Toll Free: 800.634.3001



MODULAR RATIOS AND ASSEMBLIES

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 1 ST
NO X-CODE USED	26 OILSEAL	32	YES
-1X	26 NUT	32	YES
-2X	26 OILSEAL	27	YES
-3X	26 NUT	27	YES
-4X	10 NUT	32	YES
-6X	10 NUT	27	YES
-8X	26 OILSEAL	32	NO
-9X	26 NUT	32	NO
-10X	26 OILSEAL	27	NO
-11X	26 NUT	27	NO
-12X	10 NUT	32	NO
-14X	10 NUT	27	NO

OPTION CODES FOR GEARSETS

GEARSET OPTION CODE	INPUT SPLINE	ROLLER 1 ST
NO X-CODE USED	10 NUT	NO
-1X	10 NUT	YES
-2X	26 OILSEAL	NO
-3X	26 OILSEAL	YES
-4X	26 NUT	NO
-5X	26 NUT	YES



UNIT COUNTERSHAFT GEARBOXES AND GEARSETS



Prefixes ('Product Codes') tell us whether the item is a Gearbox ('18-000-'), Gearbox kit ('18-400-') or Gearset ('18-410-'). For example, '18-000-003' is a complete M22X gearbox, '18-400-002' is an unassembled M22W Gearbox kit, and '18-410-033' 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 1 ST
NO X-CODE USED	26 OILSEAL	32	YES
-1X	26 NUT	32	YES
-2X	26 OILSEAL	27	YES
-3X	26 NUT	27	YES
-4X	10 NUT	32	YES
-6X	10 NUT	27	YES
-8X	26 OILSEAL	32	NO
-9X	26 NUT	32	NO
-10X	26 OILSEAL	27	NO
-11X	26 NUT	27	NO
-12X	10 NUT	32	NO
-14X	10 NUT	27	NO

OPTION CODES FOR GEARSETS

GEARSET OPTION CODE	INPUT SPLINE	ROLLER 1 ST
NO X-CODE USED	NUT	NO
-1X	NUT	YES
-2X	OILSEAL	NO
-3X	OILSEAL	YES





UNIT COUNTERSHAFT GEARBOXES AND GEARSETS

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

RATIO CODES FOR GEARBOXES, GEARBOX KITS AND GEARSETS

COMMON NAME	MAIN DRIVE SPLINES	GEAR BOX	GEAR SET	4 TH GEAR	3 RD GEAR	2 ND GEAR	1 ST GEAR
M22Z	10	008	033	1 .000	1 .468	2 .043	2 .984
M22Z	26	008	034	1 .000	1 .468	2 .043	2 .984
M22W	10	002	007	1 .000	1 .366	1 .752	2 .559
M22W	26	002	008	1 .000	1 .366	1 .752	2 .559
M22	10	001	003	1 .000	1 .274	1 .640	2 .199
M22	26	001	004	1 .000	1 .274	1 .640	2 .199
M20	10	004	009	1 .000	1 .461	1 .880	2 .521
M20	26	004	011	1 .000	1 .461	1 .880	2 .521

