



BMW Gear Ratios													
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DIY Projects and Maintenance	The Chart below shows E36 E46 E90 E91 E92 E93 E85 E86 E83 E82 E88 transmission gear ratios. It only shows cars that were available in the US.												
BMW Differential Info	Note: Data may not be 100% accurate. Please let me know if you see any errors												
Gear Ratios (E46, E90... )	Model	Platform	Type	Transmission	1	2	3	4	5	6	reverse	final drive	redline
Gear Ratio swaps for E46s	Series - E36												
Gear Ratio Calculator	318i	E36	Sedan	Manual	4.23	2.52	1.66	1.22	1.00	-	4.04	3.45	6300
How does final drive ratio affect my top speed?	318is	E36	Coupe	Manual	4.23	2.52	1.66	1.22	1.00	-	4.04	3.45	6300
Where to buy a Differential?	318ic	E36	Convertible	Manual	4.23	2.52	1.66	1.22	1.00	-	4.04	3.45	6300
FAQ	318ti	E36	Compact	Manual	4.23	2.52	1.66	1.22	1.00	-	4.04	3.45	6300
Links	323i	E36	Sedan	Manual	4.23	2.52	1.66	1.22	1.00	-	4.04	2.93	6500
	323is	E36	Coupe	Manual	4.23	2.52	1.66	1.22	1.00	-	4.04	2.93	6500
	323ic	E36	Convertible	Manual	4.23	2.52	1.66	1.22	1.00	-	4.04	2.93	6500
	325i	E36	Sedan	Manual	4.23	2.52	1.66	1.22	1.00	-	4.04	3.15	6500
E46fanatics.com	325is	E36	Coupe	Manual	4.23	2.52	1.66	1.22	1.00	-	4.04	3.15	6500
	325ic	E36	Convertible	Manual	4.23	2.52	1.66	1.22	1.00	-	4.04	3.15	6500
	328i	E36	Sedan	Manual	4.2	2.49	1.66	1.24	1.00	-	3.89	2.93	6500
	328is	E36	Coupe	Manual	4.2	2.49	1.66	1.24	1.00	-	3.89	2.93	6500
BMW Parts Catalog	328ic	E36	Convertible	Manual	4.2	2.49	1.66	1.24	1.00	-	3.89	2.93	6500
	M3 Coupe 95	E36	Coupe	Manual	4.2	2.49	1.66	1.24	1.00	-	3.89	3.15	6500
	M3 Coupe	E36	Coupe	Manual	4.2	2.49	1.66	1.24	1.00	-	3.89	3.23	6500
	M3 Sedan	E36	Sedan	Manual	4.2	2.49	1.66	1.24	1.00	-	3.89	3.23	6500
	M3 Convertible	E36	Convertible	Manual	4.2	2.49	1.66	1.24	1.00	-	3.89	3.23	6500
	318i	E36	Sedan	Automatic	2.86	1.62	1.00	0.72	-	-	2.00	4.44	6300
	318is	E36	Coupe	Automatic	2.86	1.62	1.00	0.72	-	-	2.00	4.44	6300
	318ic	E36	Convertible	Automatic	2.86	1.62	1.00	0.72	-	-	2.00	4.44	6300
	318ti	E36	Compact	Automatic	2.86	1.62	1.00	0.72	-	-	2.00	4.44	6300
	323i	E36	Sedan	Automatic	2.86	1.62	1.00	0.72	-	-	2.00	3.91	6500
	323is	E36	Coupe	Automatic	2.86	1.62	1.00	0.72	-	-	2.00	3.91	6500
	323ic	E36	Convertible	Automatic	2.86	1.62	1.00	0.72	-	-	2.00	3.91	6500
	325i	E36	Sedan	Automatic	2.86	1.62	1.00	0.72	-	-	2.00	3.91	6500
	325is	E36	Coupe	Automatic	2.86	1.62	1.00	0.72	-	-	2.00	3.91	6500
	325ic	E36	Convertible	Automatic	2.86	1.62	1.00	0.72	-	-	2.00	3.91	6500
	328i	E36	Sedan	Automatic	2.86	1.62	1.00	0.72	-	-	2.00	3.91	6500
	328is	E36	Coupe	Automatic	2.86	1.62	1.00	0.72	-	-	2.00	3.91	6500
	328ic	E36	Convertible	Automatic	2.86	1.62	1.00	0.72	-	-	2.00	3.91	6500
	M3 Coupe	E36	Coupe	Automatic	3.67	2.00	1.41	1.00	0.74	-	4.1	3.38	6500
	M3 Sedan	E36	Sedan	Automatic	3.67	2.00	1.41	1.00	0.74	-	4.1	3.38	6500
	M3 Convertible	E36	Convertible	Automatic	3.67	2.00	1.41	1.00	0.74	-	4.1	3.38	6500
	3 Series - E46												
	323i	E46	Sedan	manual	4.23	2.52	1.66	1.22	1.00	-	4.04	3.07	6500
	323ci	E46	Coupe	manual	4.23	2.52	1.66	1.22	1.00	-	4.04	3.07	6500
	323cic	E46	Convertible	manual	4.23	2.52	1.66	1.22	1.00	-	4.04	3.46	6500
	323iT	E46	Wagon	manual	4.23	2.52	1.66	1.22	1.00	-	4.04	3.46	6500
	328i	E46	Sedan	manual	4.21	2.49	1.66	1.24	1.00	-	3.85	2.93	6500
	328ci	E46	Coupe	manual	4.21	2.49	1.66	1.24	1.00	-	3.85	2.93	6500
	325i	E46	Sedan	manual	4.23	2.52	1.66	1.22	1.00	-	4.04	3.15	6500
	325ci	E46	Coupe	manual	4.23	2.52	1.66	1.22	1.00	-	4.04	3.15	6500
	325cic	E46	Convertible	manual	4.23	2.52	1.66	1.22	1.00	-	4.04	3.46	6500
	325iT	E46	Wagon	manual	4.23	2.52	1.66	1.22	1.00	-	4.04	3.46	6500
	325xi	E46	Sedan AWD	manual	4.21	2.49	1.66	1.24	1.00	-	3.85	3.23	6500
	325xiT	E46	Wagon AWD	manual	4.21	2.49	1.66	1.24	1.00	-	3.85	3.23	6500
	330i	E46	Sedan	manual	4.21	2.49	1.66	1.24	1.00	-	3.85	2.93	6500
	330ci	E46	Coupe	manual	4.21	2.49	1.66	1.24	1.00	-	3.85	2.93	6500
	330cic	E46	Convertible	manual	4.21	2.49	1.66	1.24	1.00	-	3.85	3.07	6500
	330xi	E46	Sedan AWD	manual	4.21	2.49	1.66	1.24	1.00	-	3.85	3.07	6500
	330i 6spd	E46	Sedan	manual	4.35	2.5	1.66	1.23	1.00	0.85	3.93	2.93	6500
	330ci 6spd	E46	Coupe	manual	4.35	2.5	1.66	1.23	1.00	0.85	3.93	2.93	6500
	330cic 6spd	E46	Convertible	manual	4.35	2.5	1.66	1.23	1.00	0.85	3.93	3.07	6500
	330xi 6spd	E46	Sedan AWD	manual	4.35	2.5	1.66	1.23	1.00	0.85	3.93	3.07	6500
	330i ZHP	E46	Sedan	manual	4.35	2.5	1.66	1.23	1.00	0.85	3.93	3.07	6800
	330ci ZHP	E46	Coupe	manual	4.35	2.5	1.66	1.23	1.00	0.85	3.93	3.07	6800
	330cic ZHP	E46	Convertible	manual	4.35	2.5	1.66	1.23	1.00	0.85	3.93	3.07	6800
	M3 Coupe	E46	Coupe	manual	4.23	2.53	1.67	1.23	1.00	0.83	3.75	3.62	8000
	M3 Convertible	E46	Convertible	manual	4.23	2.53	1.67	1.23	1.00	0.83	3.75	3.62	8000
	323i	E46	Sedan	automatic	3.67	2.00	1.41	1.00	0.74	-	4.1	3.46	6500
	323ci	E46	Coupe	automatic	3.67	2.00	1.41	1.00	0.74	-	4.1	3.46	6500
	323cic	E46	Convertible	automatic	3.67	2.00	1.41	1.00	0.74	-	4.1	3.46	6500
	323iT	E46	Wagon	automatic	3.67	2.00	1.41	1.00	0.74	-	4.1	3.46	6500
	328i	E46	Sedan	automatic	3.67	2.00	1.41	1.00	0.74	-	4.1	3.46	6500
	328ci	E46	Coupe	automatic	3.67	2.00	1.41	1.00	0.74	-	4.1	3.46	6500
	325i	E46	Sedan	automatic	3.67	2.00	1.41	1.00	0.74	-	4.1	3.46	6500
	325ci	E46	Coupe	automatic	3.67	2.00	1.41	1.00	0.74	-	4.1	3.46	6500
	325cic	E46	Convertible	automatic	3.67	2.00	1.41	1.00	0.74	-	4.1	3.46	6500
	325iT	E46	Wagon	automatic	3.67	2.00	1.41	1.00	0.74	-	4.1	3.46	6500
	325xi	E46	Sedan AWD	automatic	3.45	2.21	1.59	1.00	0.76	-	3.17	3.46	6500
	325xiT	E46	Wagon AWD	automatic	3.45	2.21	1.59	1.00	0.76	-	3.17	3.46	6500
	330i	E46	Sedan	automatic	3.45	2.21	1.23	1.00	0.76	-	3.17	3.38	6500
	330ci	E46	Coupe	automatic	3.45	2.21	1.23	1.00	0.76	-	3.17	3.38	6500
	330cic	E46	Convertible	automatic	3.45	2.21	1.23	1.00	0.76	-	3.17	3.38	6500
	330xi	E46	Sedan AWD	automatic	3.42	2.22	1.60	1.00	0.75	-	3.03	3.46	6500
	330i ZHP	E46	Sedan	automatic	3.45	2.21	1.23	1.00	0.76	-	3.17	3.64	6800
	330ci ZHP	E46	Coupe	automatic	3.45	2.21	1.23	1.00	0.76	-	3.17	3.64	6800
	330cic ZHP	E46	Convertible	automatic	3.45	2.21	1.23	1.00	0.76	-	3.17	3.64	6800
	3 Series - E9x												
	325i	E90	Sedan	manual	4.32	2.46	1.66	1.23	1.00	0.85	3.94	3.23	7000
	325i	E90	xDrive Sedan	manual	4.35	2.5	1.67	1.23	1.00	0.85	3.93	3.38	7000
	325i	E91	xDrive Wagon	manual	4.35	2.5	1.67	1.23	1.00	0.85	3.93	3.38	7000
	330i	E90	Sedan	manual	4.32	2.46	1.66	1.23	1.00	0.85	3.93	3.15	7000
	330i	E90	xDrive Sedan	manual	4.35	2.5	1.67	1.23	1.00	0.85	3.93	3.15	7000
	328i	E90	Sedan	manual	4.32	2.46	1.66	1.23	1.00	0.85	3.94	3.23	7000
	328i	E90	xDrive Sedan	manual	4.35	2.5	1.67	1.23	1.00	0.85	3.93	3.38	7000

328i	E91	Wagon	manual	4.32	2.46	1.66	1.23	1.00	0.85	3.94	3.23	7000
328i	E91	xDrive Wagon	manual	4.35	2.5	1.67	1.23	1.00	0.85	3.93	3.38	7000
328i	E92	Coupe	manual	4.32	2.46	1.66	1.23	1.00	0.85	3.94	3.23	7000
328i	E92	xDrive Coupe	manual	4.35	2.5	1.67	1.23	1.00	0.85	3.93	3.38	7000
328i	E93	Convertible	manual	4.32	2.46	1.66	1.23	1.00	0.85	3.94	3.38	7000
335i	E90	Sedan	manual	4.06	2.4	1.58	1.19	1.00	0.87	3.68	3.08	7000
335i	E90	xDrive Sedan	manual	4.06	2.4	1.58	1.19	1.00	0.87	3.68	3.08	7000
335i	E92	Coupe	manual	4.06	2.4	1.58	1.19	1.00	0.87	3.68	3.08	7000
335i	E92	xDrive Coupe	manual	4.06	2.4	1.58	1.19	1.00	0.87	3.68	3.08	7000
335i	E93	Convertible	manual	4.06	2.4	1.58	1.19	1.00	0.87	3.68	3.08	7000
M3	E92	Coupe	manual	4.06	2.4	1.58	1.19	1.00	0.87	3.68	3.85	8300
M3	E90	Sedan	manual	4.06	2.4	1.58	1.19	1.00	0.87	3.68	3.85	8300
M3	E93	Convertible	manual	4.06	2.4	1.58	1.19	1.00	0.87	3.68	3.85	8300
325i	E90	Sedan	automatic	4.17	2.34	1.52	1.14	0.87	0.69	3.4	3.73	7000
325i	E90	xDrive Sedan	automatic	4.17	2.34	1.52	1.14	0.87	0.69	3.4	3.91	7000
325i	E91	xDrive Wagon	automatic	4.17	2.34	1.52	1.14	0.87	0.69	3.4	3.91	7000
330i	E90	Sedan	automatic	4.17	2.34	1.52	1.14	0.87	0.69	3.4	3.64	7000
330i	E90	xDrive Sedan	automatic	4.17	2.34	1.52	1.14	0.87	0.69	3.4	3.64	7000
328i	E90	Sedan	automatic	4.07	2.37	1.55	1.16	0.85	0.67	3.2	3.73	7000
328i	E90	xDrive Sedan	automatic	4.07	2.37	1.55	1.16	0.85	0.67	3.2	3.91	7000
328i	E91	Wagon	automatic	4.07	2.37	1.55	1.16	0.85	0.67	3.2	3.73	7000
328i	E91	xDrive Wagon	automatic	4.07	2.37	1.55	1.16	0.85	0.67	3.2	3.91	7000
328i	E92	Coupe	automatic	4.07	2.37	1.55	1.16	0.85	0.67	3.2	3.73	7000
328i	E92	xDrive Coupe	automatic	4.07	2.37	1.55	1.16	0.85	0.67	3.2	3.91	7000
328i	E93	Convertible	automatic	4.07	2.37	1.55	1.16	0.85	0.67	3.2	3.91	7000
335i	E90	Sedan	automatic	4.17	2.34	1.52	1.14	0.87	0.69	3.4	3.46	7000
335i	E90	xDrive Sedan	automatic	4.17	2.34	1.52	1.14	0.87	0.69	3.4	3.46	7000
335d	E90	Sedan	automatic	4.17	2.34	1.52	1.14	0.87	0.69	3.4	2.81	7000
335i	E92	Coupe	automatic	4.17	2.34	1.52	1.14	0.87	0.69	3.4	3.46	7000
335i	E92	xDrive Coupe	automatic	4.17	2.34	1.52	1.14	0.87	0.69	3.4	3.46	7000
335i	E93	Convertible	automatic	4.17	2.34	1.52	1.14	0.87	0.69	3.4	3.46	7000
<b>Z4 - E85 / E86</b>												
Z4 2.5i	E85	roadster	manual	4.23	2.52	1.66	1.22	1.00	-	4.04	3.46	6500
Z4 3.0i	E85	roadster	manual	4.35	2.5	1.66	1.23	1.00	0.85	3.93	3.07	6500
Z4 3.0si	E85	roadster	manual	4.35	2.5	1.66	1.23	1.00	0.85	3.93	3.23	7000
Z4 3.0i N52	E85	roadster	manual	4.32	2.46	1.66	1.23	1.00	0.85	3.94	3.38	7000
Z4 M3.2	E85	roadster	manual	4.35	2.5	1.66	1.23	1.00	0.85	3.93	3.62	8000
Z4 2.5i	E85	roadster	automatic	4.23	2.52	1.66	1.22	1.00	-	4.04	3.64	6500
Z4 3.0i	E85	roadster	automatic	4.23	2.52	1.66	1.22	1.00	-	4.04	3.46	6500
Z4 3.0si	E85	roadster	automatic	4.17	2.34	1.52	1.14	0.87	0.69	3.4	3.64	7000
Z4 3.0i N52	E85	roadster	automatic	4.17	2.34	1.52	1.14	0.87	0.69	3.4	3.73	7000
Z4 3.0si	E86	coupe	manual	4.35	2.5	1.66	1.23	1.00	0.85	3.93	3.46	7000
Z4 M3.2	E86	coupe	manual	4.35	2.5	1.66	1.23	1.00	0.85	3.93	3.62	8000
Z4 3.0si	E86	coupe	automatic	4.17	2.34	1.52	1.14	0.87	0.69	3.4	3.64	7000
<b>X3 - E83</b>												
X3 2.5i	E83	SAV	manual	4.35	2.5	1.66	1.23	1.00	0.85	3.93	3.91	6500
X3 3.0i	E83	SAV	manual	4.35	2.5	1.66	1.23	1.00	0.85	3.93	3.64	6500
X3 3.0i N52	E83	SAV	manual	4.35	2.5	1.66	1.23	1.00	0.85	3.93	3.91	7000
X3 3.0si	E83	SAV	manual	4.35	2.5	1.66	1.23	1.00	0.85	3.93	3.73	7000
X3 2.5i	E83	SAV	automatic	3.67	2	1.41	1.00	0.74	-	4.04	3.91	6500
X3 3.0i	E83	SAV	automatic	3.67	2	1.41	1.00	0.74	-	4.04	3.64	6500
X3 3.0i N52	E83	SAV	automatic	4.07	2.37	1.55	1.16	0.85	0.67	3.2	4.44	7000
X3 3.0si	E83	SAV	automatic	4.07	2.37	1.55	1.16	0.85	0.67	3.2	4.44	7000
<b>1 Series E8x</b>												
128i	E82	Coupe	manual	4.32	2.46	1.66	1.23	1.00	0.85	3.94	3.23	7000
128i	E88	Convertible	manual	4.32	2.46	1.66	1.23	1.00	0.85	3.94	3.23	7000
135i	E82	Coupe	manual	4.06	2.4	1.58	1.19	1.00	0.87	3.68	3.08	7000
135i	E88	Convertible	manual	4.06	2.4	1.58	1.19	1.00	0.87	3.68	3.08	7000
128i	E82	Coupe	automatic	4.065	2.37	1.55	1.16	0.85	0.67	3.2	3.73	7000
128i	E88	Convertible	automatic	4.065	2.37	1.55	1.16	0.85	0.67	3.2	3.73	7000
135i	E82	Coupe	automatic	4.17	2.34	1.52	1.14	0.87	0.69	3.4	3.46	7000
135i	E88	Convertible	automatic	4.17	2.34	1.52	1.14	0.87	0.69	3.4	3.46	7000