

SPARK PLUG APPLICATION CHART

U.S. Model	Spark Plug	Plug Gap
3 Series		
318i (E30, E36) M42 All	Bosch F7LDCR NGK BKR6EK	Non-adjustable Non-adjustable
318i (E30) M10 All	Bosch WR9DS	.032" - .036" (0.8 - 0.9 mm)
318i, Z3 (E36) M44 All	Bosch F7LDCR NGK BKR6EK	Non-adjustable
320i (E21) M10 All '77 - '79	Bosch W9D	.024" - .028" (0.6 - 0.7 mm)
320i (E21) M10 All '80 - '83	Bosch WR9DS	.024" - .028" (0.6 - 0.7 mm)
325e (E30) M20 All	Bosch WR9LS	.028" - .032" (0.7 - 0.8 mm)
325e (E30) M20 All*	Bosch W8LCR	.028" - .032" (0.7 - 0.8 mm)
325i (E30) M20 All	Bosch W8LCR/W8LPR (+)	.028" - .032" (0.7 - 0.8 mm)
325iX (E30) M20 All	Bosch W8LCR/W8LPR (+)	.028" - .032" (0.7 - 0.8 mm)
M3 (E30) S14	Bosch X5DC	.024" - .028" (0.6 - 0.7 mm)
325i (E36) M50 All	Bosch F7LDCR NGK BKR6EK	Non-adjustable Non-adjustable
323i, 328i, Z3 (E36) M52 All	Bosch F8LDCR	Non-adjustable
Z3 (E36) M52TU, M54 All	NGK BKR6EQUP Bosch FGR7DQP	Non-adjustable
323i, 325i, 328i, 330i (E46) M52TU, M54, M56 All	NGK BKR6EQUP Bosch FGR7DQP	Non-adjustable
325i, 330i (E90) N52	NGK ILZFR6D11 Bosch FR7NPP332	Non-adjustable Non-adjustable
M3 (E36) S50	Bosch F7LDCR NGK BKR6EK	Non-adjustable Non-adjustable
M3, M roadster, M coupe (E36) S52 All	Bosch FGR8KQC	Non-adjustable
M3 (E46), M roadster, M coupe S54 All	NGK DCPR8EKP	Non-adjustable
Z4		
Z4 (E85) roadster M54 All	NGK BKR6 EQUP Bosch FGR7DQP	Non-adjustable
5 Series		
528e (E28) M20 All '82 - '87	Bosch WR9LS	.028" - .032" (0.7 - 0.8 mm)
528e (E28) M20 All 1988*	Bosch W8LCR	.028" - .032" (0.7 - 0.8 mm)
528i (E12) M30 All 1979	Bosch W9D	.024" - .028" (0.6 - 0.7 mm)
528i (E12) M30 All '80 - '81	Bosch WR9DS	.024" - .028" (0.6 - 0.7 mm)
525i (E34) M20 All	Bosch W8LCR / W8LPR (+)	.028" - .032" (0.7 - 0.8 mm)
525i (E34) M50 All	Bosch F7LDCR NGK BKR6EK	Non-adjustable Non-adjustable
528i (E39) M52 All	Bosch F8LDCR	Non-adjustable
525i, 528L, 530i (E39) M52TU, M54 All	NGK BKR6EQUP Bosch FGR7DQP	Non-adjustable
525i, 530i (E60) M54	NGK BKR6EQUP Bosch FGR7DQP	Non-adjustable
525i, 530 (E60) N52	NGK ILZFR6D11 Bosch FR7NPP332	Non-adjustable Non-adjustable
530i (E12) M30 All	Bosch W8DC	.024" - .028" (0.6 - 0.7 mm)
530i (E34) M60 All	Bosch F7LDCR NGK BKR6EK	Non-adjustable Non-adjustable
533i / 535i (E28) M30 All '83 - '88	Bosch WR9LS	.028" - .032" (0.7 - 0.8 mm)
535i (E34) M30 All	Bosch WLCR / W8LPR (+)	.028" - .032" (0.7 - 0.8 mm)
540i (E34) M60 All	Bosch F7LDCR NGK BKR6EK	Non-adjustable Non-adjustable
540i (E39) M62 All up to 7/97	Bosch F7LDCR NGK BKR6EK	Non-adjustable Non-adjustable
540i (E39) M62 All from 7/97	Bosch F8LDCR	Non-adjustable
540i (E39) M62TU All	NGK BKR6EQUP Bosch FGR7DQP	Non-adjustable
545i (E60) N62	NGK BKR6EQUP Bosch FGR7DQP	Non-adjustable
M5 (E28) S38	Bosch X5DC	.024" - .028" (0.6 - 0.7 mm)
M5 (E34) S38	Bosch Y6DC	.024" - .028" (0.6 - 0.7 mm)
M5 (E39), Z8 (E52) S62	NGK BKR6EQUP	Non-adjustable

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6 Series		
630CSi (E24) M30 All	Bosch W8DC	.024" - .028" (0.6 - 0.7 mm)
633CSi (E24) M30 All '78 - '79	Bosch W9D	.024" - .028" (0.6 - 0.7 mm)
633CSi (E24) M30 All '80 - '81	Bosch WR9DS	.024" - .028" (0.6 - 0.7 mm)
633/635 CSi (E24) M30 All '82 - '84	Bosch WR9LS	.028" - .032" (0.7 - 0.8 mm)
635 CSi (E24) M30 '88* - '89*	Bosch W8LCR/W8PR (+)	.028" - .032" (0.7 - 0.8 mm)
645Ci (E63) 645Cic (E64) N62	NGK BKR6EQUP Bosch FGR7DQP	Non-adjustable
M6 (E24) S38	Bosch X5DC	.024" - .028" (0.6 - 0.7 mm)
7 Series		
733i (E23) M30 All '79 - '79	Bosch W9D	.024" - .028" (0.6 - 0.7 mm)
733i (E23) M30 All '80 - '81	Bosch WR9DS	.024" - .028" (0.6 - 0.7 mm)
733i / 735 (E23) M30 All '82 - '84	Bosch WR9LS	.028" - .032" (0.7 - 0.8 mm)
735i (E32) M30 All	Bosch W8LCR / W8LPR (+)	.028" - .032" (0.7 - 0.8 mm)
740i (E32) M60 All	Bosch F7LDCR NGK BKR6EK	Non-adjustable Non-adjustable
740i (E38) M60 All	Bosch F7LDCR NGK BKR6EK	Non-adjustable Non-adjustable
740i (E38) M62 All up to 7/97	Bosch F7LDCR NGK BKR6EK	Non-adjustable Non-adjustable
740i (E38) M62 All from 7/97	Bosch F8LDCR	Non-adjustable
740i (E38) M62TU All	NGK BKR6EQUP Bosch FGR7DQP	Non-adjustable
745i (E65) N62 All 750i (E65)	NGK BKR6EQUP Bosch FGR7DQP	Non-adjustable Non-adjustable
750i (E32) M70 All	Bosch F8LCR	.028" - .032" (0.7 - .08 mm)
750i (E38) M73 All	Bosch F9LCR2	Non-adjustable
750i (E38) M73TU All	NGK BKR6EQUP Bosch FGR7DQP	Non-adjustable
760i (E66) N73	NGK BKR6EQUP Bosch FGR7DQP	Non-adjustable
8 Series		
840Ci (E31) M60 All	Bosch F7LDCR NGK BKR6EK	Non-adjustable Non-adjustable
840Ci (E31) M62 All	Bosch F7LDCR	Non-adjustable
850i (E31) M70 All	Bosch F8LCR	.028" - .032" (0.7 - 0.8 mm)
850i (E31) M73 All	Bosch F9LCR2	Non-adjustable
850CSi (E31) S70	Bosch F8LCR2	Non-adjustable
SAV		
X3 (E83) M54	NGK BKR6EQUP Bosch FGR7DQP	Non-adjustable
X5 (E53) M62TU, M54 All	NGK BKR6EQUP Bosch FGR7DQP	Non-adjustable
X5 From 9/03 (E53) M54, N62 All	NGK BKR6EQUP Bosch FGR7DQP	Non-adjustable

*With Motronic M1.1

(+) M20 and M30 engines - platinum spark plugs may be used in place of the standard type.

SPECIAL NOTES

- The BMW Special Tool combinations listed below will facilitate spark plug installation.

Engine	Tool Number	Engine	Tool Number
M10	90 88 6 121 200 and standard (13/16") spark plug socket	M42, M44	88 88 6 121 171 and 90 88 6 121 200 or 88 88 6 121 172
M20		M50, M52/TU, M54, M56	
M30		S50, S52, S54	
S14	88 88 6 121 172 and 88 88 6 121 160 (S38 tool)	M60, M62/TU, N62	
S38		M70, M73/TU, N73 S70, S62	

- Torque specifications for unlubricated spark plugs (i.e., no oil, grease, etc. on threads)
Standard Engines: Spark Plug Thread = M14 x 1.25 Motorsport Engines: Spark Plug Thread = M12 x 1.25
31 ± 2Nm (23 ± 1.5 ft/lb) 23 ± 3Nm (17 ± 2.2 ft/lb)