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

U.S. Model	Spark Plug	Plug Gap
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

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

Engine	Tool Number
M10 M20 M30	90 88 6 121 200 and standard (13/16”) spark plug socket
S14 S38	88 88 6 121 172 and 88 88 6 121 160 (S38 tool)

Engine	Tool Number
M42, M44 M50, M52/TU, M54, M56 S50, S52, S54 M60, M62/TU, N62 M70, M73/TU, N73 S70, S62	88 88 6 121 171 and 90 88 6 121 200 or 88 88 6 121 172

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