### U.S. Model | Spark Plug | Plug Gap
--- | --- | ---
3 Series
318i (E30, E36) M42 All | Bosch F7LDCR NGK BKR6E6K | Non-adjustable
318i (E30) M10 All | Bosch WR9DS | .032" - .036" (0.8 – 0.9 mm)
318i, Z3 (E36) M44 All | Bosch F7LDCR NGK BKR6E6K | Non-adjustable
320i (E21) M10 All ‘77 – ‘79 | Bosch W8D | .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)
M3 (E30) S14 | Bosch X5DC | .024" - .028" (0.6 – 0.7 mm)
M3 (E36) M50 All | Bosch F7LDCR NGK BKR6E6K | Non-adjustable
323i, 328i, Z3 (E36) M52 All | Bosch F8LDCR | Non-adjustable
Z3 (E36) M52TU, M54 All | NGK BKR6EQUP Bosch FGR7DQP | Non-adjustable
323i, 328i, 330i (E46) M52TU, M54, M56 All | NGK BKR6EQUP Bosch FGR7DQP | Non-adjustable
325i, 330i (E90) N52 | NGK ILZFR6D11 Bosch FR7NPP332 | Non-adjustable
M3 (E36) S50 | Bosch F7LDCR NGK BKR6E6K | Non-adjustable
M3, M roadster, M coupe (E36) S52 All | Bosch FGR8KQC | Non-adjustable
M3 (E46), M roadster, M coupe S54 All | NGK DCR8EK6P | Non-adjustable
Z4 | Z4 (E85) roadster M54 All | NGK BKR6EQUIP 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 W8D | .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 BKR6E6K | Non-adjustable
528i (E39) M52 All | Bosch F8LDCR | Non-adjustable
525i, 528i, 530i (E39) M52TU, M54 All | NGK BKR6EQUP Bosch FGR7DQP | Non-adjustable
525i, 530i (E50) M54 | NGK BKR6EQUP Bosch FGR7DQP | Non-adjustable
525i, 530i (E60) N52 | NGK ILZFR6D11 Bosch FR7NPP332 | Non-adjustable
530i (E12) M30 All | Bosch W8DC | .024" - .028" (0.6 – 0.7 mm)
530i (E34) M60 All | Bosch F7LDCR NGK BKR6E6K | 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 BKR6E6K | Non-adjustable
540i (E39) M62 All up to 7/97 | Bosch F7LDCR NGK BKR6E6K | 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 | Bosch F8LDCR | 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 BKR6E6QUP | Non-adjustable

### SPARK PLUG APPLICATION CHART

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

2. Torque specifications for unlubricated spark plugs (i.e., no oil, grease, etc. on threads)

<table>
<thead>
<tr>
<th>Engine</th>
<th>Tool Number</th>
<th>M10</th>
<th>M12</th>
</tr>
</thead>
<tbody>
<tr>
<td>90 88 6 121 200 and 90 88 6 121 200</td>
<td>M40, M44</td>
<td>M50, M52/TU, M54, M56 S50, S52, S54 M60, M62/TU, M62 S70, S62</td>
<td></td>
</tr>
<tr>
<td>31 standard (13/16&quot;) spark plug socket</td>
<td>88 88 6 121 172 and 88 88 6 121 172</td>
<td>S14 23 ± 1.5 Nm (17 ± 2.2 ft/lb)</td>
<td></td>
</tr>
<tr>
<td>88 88 6 121 160 (S38 tool)</td>
<td></td>
<td>S38 23 ± 3 Nm (17 ± 2.2 ft/lb)</td>
<td></td>
</tr>
</tbody>
</table>

3. SPECIAL NOTES
   - With Motronic M1.1
   - (+) M20 and M30 engines - platinum spark plugs may be used in place of the standard type.