

# IDENTIFYING DENSO PLUGS

## Iridium Plugs / Platinum Plugs / Normal Plugs

S	W K	16 20	E	XR PR	-U -A	11 11																																																								
Type of precious metal	Thread Diameter and Hex Size	Heat Range	Reach	Shape (Type)	Shape (Type)	Gap																																																								
<b>F</b> .....Center: 0.55 mm diameter iridium Ground electrode: 0.7 mm diameter platinum <b>P</b> .....Platinum plug <b>S</b> .....0.7 mm diameter iridium <b>SV</b> .....0.4 mm diameter iridium <b>Z</b> .....0.55 mm diameter iridium	<b>C</b> .....12×14.0 <b>L</b> .....18×22.2 (Reach: 12 mm) <b>M</b> .....18×25.4 (Reach: 12 mm) <b>MA</b> .....18×20.6 (Taper seat, Reach: 12 mm) <b>MW</b> .....18×20.6 (Reach: 12 mm) <b>J</b> .....14×20.6 (Projected plug) <b>K</b> .....14×26.0 (ISO Small Hex plug) <b>KJ</b> .....14×16.0 (ISO Projected Small Hex plug) <b>LP</b> .....14×20.6 (Plug for LPG applications) <b>N</b> .....10×16.0 <b>Q</b> .....14×16.0 (Small Hex plug) <b>QJ</b> .....14×16.0 (Projected Small Hex plug) <b>QL</b> .....14×20.6 (Small Hex long housing plug) <b>S</b> .....14×20.6 (Surface gap or Rotary) <b>T</b> .....14×16.0 (Taper seat) <b>TR</b> .....14×20.6 (For marine applications) <b>W</b> .....14×20.6 .....14×19.0 (Compact type) <b>X</b> .....12×18.0 <b>XE</b> .....12×14.0 <b>XU</b> .....12×16.0 <b>U</b> .....10×16.0 <b>Y</b> .....8×13.0 <b>Z</b> .....1/2PF×23.8	<table border="1"> <thead> <tr> <th>0.5Zmm</th> <th>NGK</th> <th>CHAMPION</th> <th>BOSCH</th> </tr> </thead> <tbody> <tr><td>4</td><td></td><td></td><td></td></tr> <tr><td>9</td><td>2</td><td>18</td><td>10</td></tr> <tr><td>14</td><td>4</td><td>16,14</td><td>9</td></tr> <tr><td>16</td><td>5</td><td>12,11</td><td>8</td></tr> <tr><td>20</td><td>6</td><td>10,9</td><td>7,6</td></tr> <tr><td>22</td><td>7</td><td>8,7</td><td>5</td></tr> <tr><td>24</td><td>8</td><td>6,63,61</td><td>4</td></tr> <tr><td>27</td><td>9</td><td>4,59</td><td>3</td></tr> <tr><td>29</td><td>9.5</td><td>57</td><td></td></tr> <tr><td>31</td><td>10</td><td>55</td><td>2</td></tr> <tr><td>32</td><td>10.5</td><td>53</td><td></td></tr> <tr><td>34</td><td>11</td><td></td><td></td></tr> <tr><td>35</td><td>11.5</td><td></td><td></td></tr> </tbody> </table>	0.5Zmm	NGK	CHAMPION	BOSCH	4				9	2	18	10	14	4	16,14	9	16	5	12,11	8	20	6	10,9	7,6	22	7	8,7	5	24	8	6,63,61	4	27	9	4,59	3	29	9.5	57		31	10	55	2	32	10.5	53		34	11			35	11.5			<b>A</b> .....19.0 mm (Electrode position: 7.0 mm) .....21.5 mm <b>B</b> .....19.0 mm (Electrode position: 9.5 mm) <b>C</b> .....19.0 mm (Electrode position: 5.0 mm) <b>D</b> .....19.0 mm (Shroud 1.5) <b>E</b> (With gasket) .....19.0 mm .....20.0 mm <b>E</b> (Taper seat) .....19.0 mm <b>F</b> .....12.7 mm <b>FE</b> .....19.0 mm (Half thread) <b>G</b> .....19.0 mm (Shroud 2.8) .....19.0 mm (Shroud 3) <b>H</b> .....19.0 mm (Electrode position: 8.5 mm) .....26.5 mm <b>L</b> .....11.2 mm <b>M</b> .....8.6 mm <b>N</b> (Taper seat, Half thread) .....17.5 mm <b>V</b> (Taper seat) .....25.0 mm <b>None</b> .....9.5 mm .....11.2 mm .....19.0 mm .....21.5 mm <b>None</b> (Taper seat) .....8.3 mm .....11.2 mm	<b>A</b> .....Double ground electrodes <b>A</b> .....Slant ground electrode (For racing) <b>AY</b> .....Double ground electrodes with bent shape (special) <b>B</b> .....Triple ground electrodes <b>BG</b> .....Triple ground electrodes (shrouded) <b>C</b> .....Shroud 1.5 <b>D</b> .....Quadruple ground electrodes .....Projected (2.0 mm projection) .....Projected (1.5 mm projection, spark position 3.5 mm) <b>E</b> .....Shroud: 25 <b>K</b> .....Projected (1 mm projection) <b>LM</b> .....Compact type (Hex size: 20.6 mm) <b>M</b> .....Shortened insulator head length <b>M</b> .....Compact type (Hex size: 19.0 mm) <b>P</b> .....Projected (1.5 mm projection) <b>Q</b> .....Projected 2mm, Spark position 3.5mm <b>R</b> .....5Kohm resistor plug <b>S</b> .....Non-projected (0 mm Projection) .....Single Iridium <b>T</b> .....Double ground electrodes <b>TM</b> .....Double ground electrodes <b>TN</b> .....Double ground electrodes <b>V</b> .....Slant ground electrodes <b>X</b> .....Full projected (2.5 mm Projection)	<b>-A</b> .....Special specification <b>-B</b> .....Special specification <b>-C</b> .....Cut-back ground electrode <b>-E</b> .....Special specification <b>-F</b> .....Special specification <b>-G</b> .....Grease applied on to threads, for CNG applications <b>-GL</b> .....Platinum center electrode <b>-L</b> .....Heat resistant ground electrode .....Thin center electrode .....3.5 mm projected insulator for motorcycles .....Retracted insulator for motorcycles <b>-M</b> .....Larger ground electrode <b>-N</b> .....For Yamaha and Kawasaki <b>-P</b> .....A double layer of platinum Ground electrode .....Single platinum <b>-R</b> .....10K ohm resistor plug <b>-S</b> .....Semi-surface gap discharge type <b>-S</b> .....Stainless gasket <b>-TP</b> .....Taper-cut, single platinum plug <b>-U</b> .....U-Groove ground electrode <b>-US</b> .....Star-shaped center electrode <b>-V</b> .....1.3 mm diameter, nickel center electrode <b>-Z</b> .....Taper cut <b>-ZU</b> .....ZU Plug	<b>5</b> .....0.5 mm (.020") <b>8</b> .....0.8 mm (.032") <b>9</b> .....0.9 mm (.035") <b>10</b> .....1.0 mm (.040") <b>11</b> .....1.1 mm (.044") <b>13</b> .....1.3 mm (.050") <b>14</b> .....1.4 mm (.055") <b>15</b> .....1.5 mm (.060") <b>20</b> .....2.0 mm (.080") <None> Cars: 0.8 mm M.C: 0.7 mm <Exceptions> P16R, PQ16R, PQ20R are 1.1 mm
0.5Zmm	NGK	CHAMPION	BOSCH																																																											
4																																																														
9	2	18	10																																																											
14	4	16,14	9																																																											
16	5	12,11	8																																																											
20	6	10,9	7,6																																																											
22	7	8,7	5																																																											
24	8	6,63,61	4																																																											
27	9	4,59	3																																																											
29	9.5	57																																																												
31	10	55	2																																																											
32	10.5	53																																																												
34	11																																																													
35	11.5																																																													

### IRIDIUM POWER Series (Power, Tough, Plus)

I	U	27	A																																												
High Performance Plug	Thread Diameter, Reach, and Hex Size	Heat Range	Type																																												
<b>I</b> .....0.4 mm diameter iridium <b>V</b> .....0.4 mm diameter iridium with platinum tip	<Thread Diameter × Reach × Hex Size> (mm) <b>K</b> .....14×19.0×16.0 <b>KA</b> .....14×19.0 (Shrouded, New Triple Electrodes)×16.0 <b>KB</b> .....14×19.0 (New Triple Electrodes)×16.0 <b>KD</b> .....14×19.0 (Shrouded)×16.0 <b>KH</b> .....14×26.5×16.0 <b>NH</b> .....10×19.0 (Half Thread)×16.0 <b>T</b> .....14×17.5 (Taper Seat)×16.0 <b>TF</b> .....14×11.2 (Taper Seat)×16.0 <b>TL</b> .....14×25.0 (Taper Seat, Long Insulator)×16.0 <b>TV</b> .....14×25.0 (Taper Seat)×16.0 <b>Q</b> .....14×19.0×16.0 <b>U</b> .....10×19.0×16.0 <b>UF</b> .....10×12.7×16.0 <b>UH</b> .....10×19.0 (Half Thread)×16.0 <b>W</b> .....14×19.0×20.6 <b>WF</b> .....14×12.7×20.6 <b>WM</b> .....14×19.0×20.6 (Compact Insulator) <b>X</b> .....12×19.0×18.0 <b>XG</b> .....12×19.0 (Shrouded)×18.0 <b>XU</b> .....12×19.0×16.0 <b>Y</b> .....8×19.0 (Half Thread)×13.0	<table border="1"> <thead> <tr> <th>DENSO</th> <th>NGK</th> <th>CHAMPION</th> <th>BOSCH</th> </tr> </thead> <tbody> <tr><td>16</td><td>5</td><td>12,11</td><td>8</td></tr> <tr><td>20</td><td>6</td><td>10,9</td><td>7,6</td></tr> <tr><td>22</td><td>7</td><td>8,7</td><td>5</td></tr> <tr><td>24</td><td>8</td><td>6,63,61</td><td>4</td></tr> <tr><td>27</td><td>9</td><td>4,59</td><td>3</td></tr> <tr><td>29</td><td>9.5</td><td>57</td><td></td></tr> <tr><td>31</td><td>10</td><td>55</td><td>2</td></tr> <tr><td>32</td><td>10.5</td><td>53</td><td></td></tr> <tr><td>34</td><td>11</td><td></td><td></td></tr> <tr><td>35</td><td>11.5</td><td></td><td></td></tr> </tbody> </table>	DENSO	NGK	CHAMPION	BOSCH	16	5	12,11	8	20	6	10,9	7,6	22	7	8,7	5	24	8	6,63,61	4	27	9	4,59	3	29	9.5	57		31	10	55	2	32	10.5	53		34	11			35	11.5			<b>A</b> .....Slant electrode, No U-Groove, No taper cut <b>B</b> .....Projected insulator (1.5 mm) <b>C</b> .....No U-Groove <b>D</b> .....No U-Groove, Inconel ground electrode <b>ES</b> .....Stainless steel gasket <b>F</b> .....Special <b>G</b> .....Stainless steel gasket <b>J</b> .....Spark position: 5 mm <b>K</b> .....Spark position: 4 mm <b>L</b> .....Spark position: 5 mm <b>T</b> .....For LPG applications <b>Y</b> .....0.8 mm gap <b>Z</b> .....Taper cut
DENSO	NGK	CHAMPION	BOSCH																																												
16	5	12,11	8																																												
20	6	10,9	7,6																																												
22	7	8,7	5																																												
24	8	6,63,61	4																																												
27	9	4,59	3																																												
29	9.5	57																																													
31	10	55	2																																												
32	10.5	53																																													
34	11																																														
35	11.5																																														

CHINA  
INDONESIA  
KOREA  
MALAYSIA  
PHILIPPINES  
SAUDIARABIA  
SINGAPORE  
TAIWAN  
JAPAN  
EUROPE & USA  
MOTOR CYCLE  
SMALL ENGINE  
CROSS REFERENCE  
PART NUMBER