

# Design Symbols: Spark Plugs

B		P		5	E		S		-11			
Thread Dimensions / Hex. Size		Construction (One or more letters may be combined)		Heat Rating	Thread Reach		Firing End Construction		Spark Gap			
A	18mm / 1" (25.4mm)	L	Compact Type	2		E	19.0mm (3/4")	A	Special Design	None	Motorcycle: 0.7 - 0.8 mm Car: 0.8 - 0.9 mm	
AB	18mm / 13/16" (20.8mm)	M	Compact Type (Bantam) 3/4" Hex Size	4		EH	19.0mm (3/4") Half Thread	B	Integral Terminal (Solid)	-6	0.6mm (.024")	
B	14mm / 13/16" (20.8mm)	P	Projecting Insulator Type	5		H	12.7mm (1/2")	C	Low Angle Ground Electrode	-7	0.7mm (.028")	
BC	14mm / 5/8" (16.0mm) JIS Type	R	Resistor Type	6		L	11.2mm (7/16")	CM	Low Angle Ground Electrode Compact Type (Insulator Length:18.5mm)	-8	0.8mm (.032")	
BK	14mm / 5/8" (16.0mm) ISO Type	U	Surface Gap, Semi-Surface Discharge Gap or Supplementary Gap Inductive Resistor Type	7		S	9.5mm (3/8")	E	V-Grooved Center Electrode (14mm only) 1.5mm Insulator Projection	-9	0.9mm (.036")	
C	10mm / 5/8" (16.0mm)			8		Z	Inductive Resistor Type	9	Z	21mm	F	Tapered Seat
D	12mm / 5/8" (18.0 mm)						Bantam Type		G	Fine Wire Nickel Alloy Center Electrode	-11	1.1mm (.044")
DC	12mm / 5/8" (16.0mm)			10					-G	Copper Core Ground Electrode	-13	1.3mm (.052")
E	8mm /13.0mm			11		BM---	9.5mm (3/8')	GP	Platinum Alloy Fine Wire	-14	1.4mm (.055")	
J	12mm / 5/8" (16.0mm)					BPM---	9.5mm (3/8')	GV	Gold-Palladium Center Electrode (Racing Line)	-15	1.5mm (.060")	
						CM---	9.5mm (3/8')	I	Single Iridium Spark Plug			
					Tapered Seat		IX	High Performance Iridium (0.6mmØ)				
							K	2-Ground Electrode	-S	Special Gasket		
					A-F---	10.9mm	-L	Medium Heat Rating	-E	Special Resistance		
					B-F---	11.2mm (7/16")	-LM	Compact Type (Insulator Length:14.5mm)				
					B-EF---	17.5mm (.708") Reach 5/8" Hex Size	N	Special Ground Electrode				
					BM-F---	7.8mm	P	Premium Platinum				
					No Symbol		Q	4-Ground Electrode				
							S	Standard Type (2.5mm Center Electrode)				
					18mmØ	12mm Reach	T	3-Ground Electrode				
					14mmØ	9.5mm (3/8') Reach	U	Semi-Surface Discharge				
							V	Fine Wire Gold-Palladium Center Electrode				
							VX	High Performance Platinum				
							W	Tungsten Electrode				
							Y	V-Grooved Center Electrode (14mm only) 2.5mm Insulator Projection				
							YA	Fouling Resistant				
							Z	Thick 2.9mm Center Electrode				

# Design Symbols: Spark Plugs

I		T					R	4	A		15		
(One or more letters may be combined)		Thread	Reach	Seat Type	Hex	RESISTOR	Heat Rating	Firing End Construction		Spark Gap			
<b>D</b>	High ignitability plug with double fine electrode	<b>KA</b>	ø12.0	19.0mm, (3/4")	Gasket		14.0mm	2	↑ Hot Type	A,B,C... Special Code		None	<b>Motorcycle:</b> 0.7-0.8mm <b>Car:</b> 0.8-0.9mm
<b>I</b>	Premium Iridium	<b>KB</b>	ø12.0	19.0mm, (3/4")	Gasket		Bi-Hex, 14mm	4				-7	0.7mm, (.028")
<b>LF</b>	Long thread reach plug Gasket type (26.55mm reach)	<b>MA</b>	ø10.0	19.0mm (3/4")	Gasket		14.0mm	5				-9	0.9mm, (.036")
<b>LT</b>	Long thread reach plug Tapered seat type (25mm reach)	<b>NA</b>	ø12.0	26.5mm	Tapered		16.0mm, (5/8")	6	I	Single Iridium Spark Plug	-10	1.0mm, (.040")	
<b>P</b>	Premium Platinum	<b>F</b>	ø14.0	19.0mm, (3/4")	Gasket		20.8mm, (13/16")	7	P	Single Platinum Spark Plug	-11	1.1mm, (.044")	
<b>S</b>	Square Tip Type	<b>G</b>	ø14.0	19.0mm, (3/4")	Gasket		18.0mm	8			-13	1.3mm, (.052")	
<b>Z</b>	Extended Projection	<b>J</b>	ø12.0	19.0mm, (3/4")	Gasket		16.0mm, (5/8")	9	ZGR-B	1.5 mm Ext. Metal Shell Reach	-14	1.4mm, (.055")	
Above letters are occasionally used in combination. Ex. ILFR, ILZTR  "L", Long thread reach is prior to other letters which stand for thread reach. Exception: PTR5A-13; reach 25 mm  Ex. Gasket type FR5AP-11; reach 19 mm LFR5AP-11; reach 26.5mm  Ex. Tapered-seat type PTR5C-13; reach 17.5 mm PLTR6A-10G; reach 25 mm		<b>K</b>	ø12.0	19.0mm, (3/4")	Gasket		16.0mm, (5/8")	10	ZGR-C	3 mm Ext. Metal Shell Reach	-15	1.5mm, (.060")	
		<b>L</b>	ø10.0	12.7mm, (1/2")	Gasket		16.0mm, (5/8")	11	ZGR-D	3.5 mm Ext. Metal Shell Reach	-A Non Gasket		
		<b>M</b>	ø10.0	19.0mm, (3/4")	Gasket		16.0mm, (5/8")			ZGR-E	3.5 mm Ext. Metal Shell Reach	-B	Special Design
		<b>T</b>	ø14.0	17.5mm, (0.708")	Tapered	16.0mm, (5/8")					-C	Special Design	
		<b>U</b>	ø14.0	11.2mm, (7/16")	Tapered	20.8mm, (13/16")					-D	Metal Shell Plating Spec Change	
		<b>W</b>	ø18.0	10.9mm	Tapered	20.8mm, (13/16")					-E	Special Resistance	
		<b>X</b>	ø14.0	9.5mm, (3/8")	Gasket	20.8mm, (13/16")					-G	Copper Core Ground Electrode	
<b>Y</b>	ø14.0	11.2mm, (7/16")	Tapered	16.0mm, (5/8")					-H	Special Thread Type			
										-J	2-Ground Electrode		
										-K	Vibration-resistant Ground Electrode		
										-N	Special Ground Electrode		
										-Q	4-Ground Electrode		
										-S	Special Gasket		
										-T	3-Ground Electrode		
		<b>PTR5A-13</b>	ø14.0	25.0mm	Tapered	16.0mm, (5/8")							

T						R	5	5		-1		IX		
Thread Dimension / Hex Size						RESISTOR	Heat Rating	Spark Gap		Special Design Type		Firing End Construction		
<b>F</b>	ø14.0	19.0mm, (3/4")	Gasket	Projected	16.0mm		2	↑ Hot Type	None	1.0 mm (.040")	F-1	3.0 mm Ext. Metal Shell Reach	None	3.0 mm Ext. Metal Shell Reach
<b>G</b>	ø14.0	19.0mm, (3/4")	Gasket	Projected	20.8mm, (13/16")		4		5	1.5mm (.060")	T-1	3.0 mm Ext. Metal Shell Reach	IX	3.0 mm Ext. Metal Shell Reach
<b>T</b>	ø14.0	17.5mm, (.708")	Tapered	Projected	16.0mm, (5/8")		5		6	2mm (.080")	W-1	13.7mm Thread Reach	GP	13.7mm Thread Reach
<b>U</b>	ø14.0	11.2mm, (7/16")	Tapered	Projected	16.0mm (5/8")		6							
<b>W</b>	ø18.0	10.9mm	Tapered	Projected	20.8mm, (13/16")		7							
<b>X</b>	ø14.0	9.5mm, (3/8")	Gasket	Projected	20.8mm, (13/16")		8							
<b>Y</b>	ø14.0	11.2mm, (7/16")	Tapered	Non-Projected	16.0mm, (5/8")		9							
							10							
							11	↓ Cold Type						