

# Industrial Spark Plugs: Application Guide

Engine Make	Model	Double Ir	Long Life	Standard
<b>Caterpillar</b>	G3306, G333 3/4" Reach	7315	7311	
	G343	7315	7311	
	G3304	7315	7311	
	G3400 Series	7315	7311	
	G3508		7306	7302
	G3512		7306	7302
	G3516		7306	7302
	G3516B		7306	7302
	G3520	7305	7306	
	G3520C (Biogas only)	7305	7306	
	G3600 Series		7306	
<b>Cooper Bessemer</b>	ENG, CNG		7303	
	GDJ, GMA, GMB, GMC, w/G402 reducing Bushing		7303	
	GDT, GFB, GFE, GFK, w/G402 reducing Bushing		7303	
<b>Cummins</b>	L-10	7322	7321	
	QSV 81G	7305	7306	7302
	QSV 91G	7305	7306	7302
	QSK 19G	7305	7306	
	QSK 45G	7305	7306	
	QSK 60G	7305	7306	
	QSK 38G	7305	7306	
QSK 50G	7305	7306		
<b>Deutz</b>	G620 V-8, TBG616 V-8, TBG616 V-12	7308	7307	
	TBG616K V-8K, TBG616K V-12, TBG616K V-16K	7308	7307	
	TBG620 V-8, TBG620 V12, TBG620 V-16	7308	7307	
	TBG620K V-12K, TBG620K V-16K	7308	7307	
<b>Dresser Clark</b>	TLA6	7322	7321	
<b>Dorman</b>	3DAG, 4DAG, 6DAG	7315	7311	
	6QG	7315	7311	
	6PG, 12PG		7303	
	6SEG, 8SEG, 12SEG	7315	7311	
	6SETCWG Min Nox	7315	7311	
	12SG		7303	
	12S, 12STCWG, 12STCAG		7303	
	DATG-4	7315	7311	
<b>General Motors</b>	305, 351, 401, 478, 702 Gasoline and LPG	7315	7311	
<b>Guascor</b>	FG180, FGLD180	7305	7306	7302
	FG240, FGLD240	7305	7306	7302
	FGLD360	7305	7306	7302
	FGLD480, SFGLD480	7305	7306	7302

Engine Make	Model	Double Ir	Long Life	Standard
<b>John Deere</b>	300 Series	7315	7311	
	400 Series (Nat. Gas and LPG)		7303	
	500 Series (Nat. Gas and LPG)		7303	
<b>Liebherr</b>	G 924T, G 924TC	7315	7311	
	G 926T, G 926TC, G 926TC 40	7315	7311	
	G 9408 TC, G 9408 TC 40	7322	7321	
<b>MAN</b>	E 0824 E301, E0824 E302	7315	7311	
	E 0826 E301, E0826 E302	7315	7311	
	E 2842, E2842 LE	7315	7311	
	E 2843 LN	7315	7311	
	E 2876	7315	7311	
	E 0834	7322	7321	
<b>Perkins</b>	E 0836	7322	7321	
	G4-203	7315	7311	
	G4-236	7315	7311	
	900 Series	7315	7311	
	4000 Series	7305	7306	
	<b>Superior</b>	1706G2	7305	7306
	1712G1	7305	7306	7302
	2400 G Series	7305	7306	7302
<b>Waukesha</b>	ATGL Series			
	AT27GL Series - 13/16" Rch Heads		7306	7302
	VGF Series			
	P48	7305	7306	7302
	L36	7305	7306	7302
	H24	7305	7306	7302
	F18	7305	7306	7302
	VHP Series			
	P9390GSI		7303	
	P9390GL - 1/2" Rch Heads		7303	
P9390GL - 13/16 Rch Heads		7306	7302	
L7044GSI - 13/16" Rch Heads	7305	7306		
L7042GSI		7303		
L7042G		7303		
7042GL - 1/2" Rch Heads		7303		

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Engine Make	Model	Double Ir	Long Life	Standard
<b>Waukesha (cont.)</b>	7042GL - 13/16" Rch Heads		7306	7302
	L5790G		7303	
	L5790GL - 1/2" Rch Heads		7303	
	L5790GL - 13/16" Rch Heads		7306	7302
	F3521G		7303	
	F3521GL - 1/2" Rch Heads		7303	
	F3521GL - 13/16 Rch Heads		7306	7302
	<b>Other</b>			
	L5108G, L5108GSI		7303	
	L5108GL - 1/2" Rch Heads		7303	
L5108GL - 13/16" Rch Heads		7306	7302	
L5115GL		7306		
F1905GR		7303		
F11G, F11GSI/GSID	7315	7311		
F1197GRSI		7303		
F1905GRSI		7303		
F2894G, F2894GRSI		7303		
F2895G, F2895GSI		7303		
F2895GL - 1/2" Rch Heads		7303		
F2895GL - 13/16 Rch Heads		7306	7302	
F3520G		7303		
L5100GR, L5100GRSI		7303		
L5788GR, L5788GRSI		7303		
L7040G		7303		
6BZ, 6LRZ, 6LRZB, 6MZA, 6MZR		7303		
6NK, 6WAK, 6WAKB		7303		
140GK, 145GK		7303		
180G, 180GB, 180GKB, 185GLB		7303		
190, 190GLB, 195G, 195GK		7303		
<b>Other Natural and LP Gas (14mm Heads)</b>				
P2154G, P2154GSI	7315	7311		
H1077G, H1077GSI	7315	7311		
L1616G, L1616GSI	7315	7311		
VRG220, VRG330	7315	7311		
VRN265, VRN283, VRN310	7315	7311		

See <http://industrial.boschautoparts.com> for the most current application guide

# Other Industrial Products



7330 – Combustion Sensor

## Combustion Monitoring

Also included in the Industrial Series is the 7330 Combustion Sensor for Caterpillar G3600 series engines. This sensor immediately alerts the engine management at the first sign of abnormal combustion. The same robust construction and innovative design found in the 7306 spark plug can be found in the Bosch Industrial Series Combustion Sensor.



15703 – Oxygen Sensor

## Industrial Oxygen Sensors

Bosch has both Rich Burn, traditional switching-type sensors and Lean Burn, the LSU broadband Lambda sensors. The Rich Burn is a standard narrow band type oxygen sensor and is only capable of accurately measuring a stoichiometric air/fuel ratio (e.g. 14.7:1). The Lean Burn is a planar ZrO<sub>2</sub> two-cell limit current sensor with an integral heater suitable for measuring the oxygen content and the λ value of exhaust gases in vehicle engines.

Common switching sensors used in stationary gas engines are 12028, 15718, 13190 and the 15703. Lean burn sensors are used when the air fuel ratio has more air than in a stoichiometric mixture.



Knock Sensors

## Knock Sensors

Vibration sensors of this type are suitable for detecting structure-born vibration occurring for example in motor-vehicle engines due to irregular combustion and in machines. Thanks to their robust design, these vibration sensors can withstand even the most severe operating conditions.