

## **BOSCH IRIIDIUM/DOUBLE PLATINUM/PLATINUM SPARK PLUG LIMITED WARRANTY TO LICENSED AUTOMOTIVE REPAIR SHOPS**

Robert Bosch LLC (“Bosch”) warrants to all licensed automotive repair shops that all new Bosch Iridium, Double Platinum and Platinum spark plugs (“Products”) will be free from defects in material and workmanship in accordance with the following:

This limited warranty is effective for a period of one (1) year from the date of installation (“Warranty Period”). Bosch will reimburse the Shop for the cost of the Product, in the amount of (A) up to \$6.99/plug for Iridium sparkplugs; (B) up to \$4.49/plug for Double Platinum spark plugs, and (C) up to \$2.99/plug for Platinum spark plugs, plus the normal and customary labor costs, at the rate up to \$75.00 per hour, incurred in installing the defective Product. All labor costs will be calculated so as not to exceed the standard labor times published by ALLDATA.

**THIS LIMITED WARRANTY DOES NOT COVER** the workmanship of any installer. **THIS LIMITED WARRANTY IS VOID** under the following circumstances:

- Failure to install the Product using a professional technician and a licensed automotive repair shop (“Shop”);
- Failure to follow Bosch’s application recommendations printed in the Bosch catalog;
- Failure to change the spark plug within the recommended interval for spark plug changes published in the vehicle manual;
- Damage or failure caused by misuse, abuse, vandalism, negligence, modification, abuse, or improper application, installation or operation;
- Damage cause by water, fire, environmental hazard, force of nature or other impact outside of normal operating guidelines, and
- Damage or failure caused by unauthorized service or use of unauthorized parts.

Bosch reserves the right to make changes in design or improvements on its Product without creating or assuming any obligation to install or implement the same on any Products previously sold. In addition, Bosch may change this limited warranty policy at any time. Please refer to [www.boschautoparts.com/SparkPlugs](http://www.boschautoparts.com/SparkPlugs) for the most current version of this limited warranty policy.

TO THE EXTENT PERMITTED BY LAW, THIS LIMITED WARRANTY IS IN LIEU OF ALL OTHER EXPRESS OR IMPLIED WARRANTIES, INCLUDING IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. BOSCH WILL NOT BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL, SPECIAL OR EXEMPLARY DAMAGES OF ANY KIND, INCLUDING, WITHOUT LIMITATION, TELEPHONE CALLS, LOSS OF TIME, INCONVENIENCE AND LOST PROFITS. ALSO, TO THE EXTENT PERMITTED BY LAW, THIS WARRANTY SETS OUT YOUR EXCLUSIVE REMEDIES WITH RESPECT TO THE PRODUCT. NO ATTEMPT TO ALTER, MODIFY OR AMEND THIS WARRANTY SHALL BE EFFECTIVE UNLESS AUTHORIZED IN WRITING BY AN OFFICER OF BOSCH.

**To obtain performance of this limited warranty**, the Shop must submit a warranty claim to Bosch’s TSS Department within thirty (30) days after discovery of the damage or Product failure and make the alleged defective Product available for examination and testing within fourteen (14) days thereafter. All warranty claims must be substantiated with the following:

- Completed warranty claim form;
- Repair order from the initial installation;
- Repair order from the replacement installation; and
- Proof of purchase of the Product.

**Bosch TSS Department**

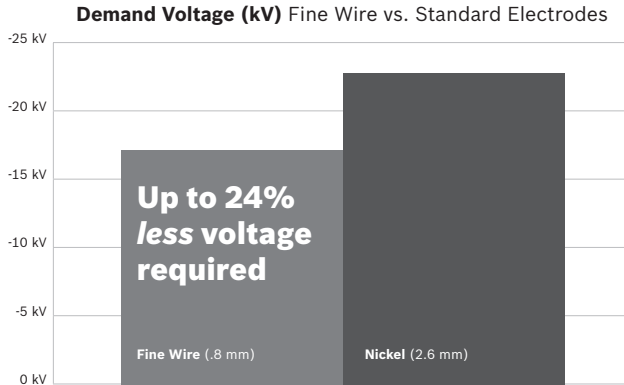
**1-800-732-6724**

Some states do not allow limitations on how long implied warranties last, or the exclusion or limitation of consequential or incidental damages, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights. You may also have other rights which vary from state to state.

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**Why Fine Wire Technology**

The Bosch OE Fine Wire family takes less voltage to fire, increasing the lifetime of the spark plugs and other components (coils) and ensuring reliable ignition.



If a non-fine wire plug is used where the OE called for fine wire, demand voltage can be adversely affected leading to weaker spark and lower ignitability. A fine wire plug provides:

- Improved ignitability
- Better idle stability
- Improved throttle response/acceleration
- Easier starts in cold weather
- Lower emissions
- Reduced stress on other ignition system components (coils)

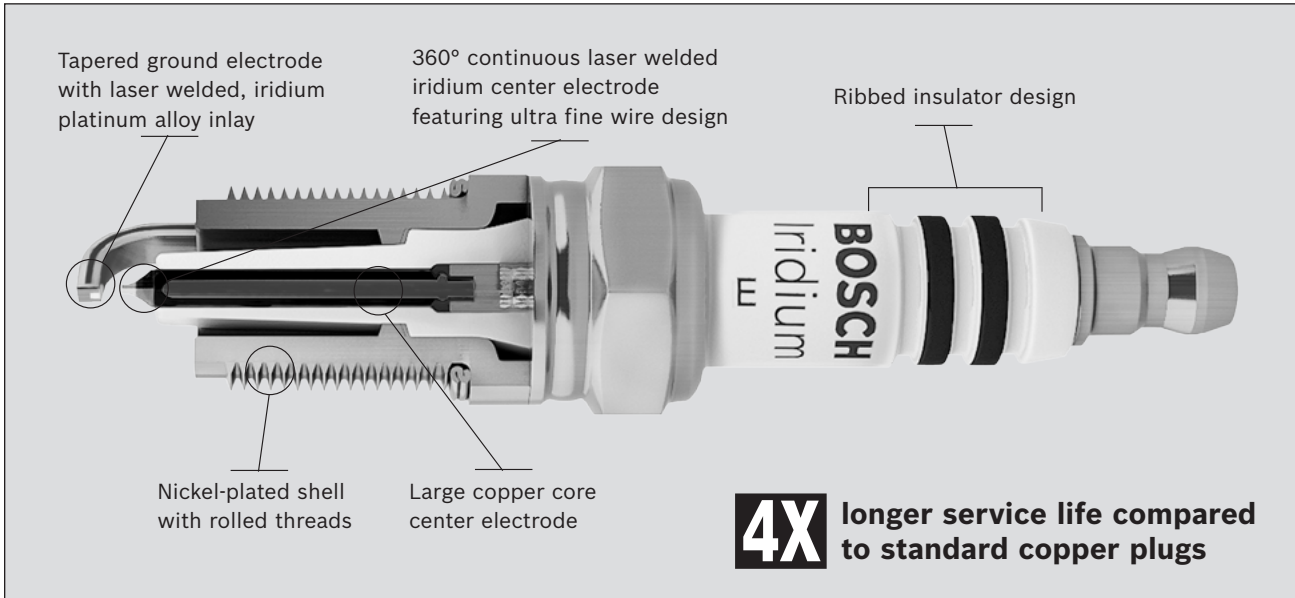
Not all competitors utilize fine wire technology in their precious metal spark plugs.

Don't sacrifice performance. Choose the Bosch OE Fine Wire Spark Plug family.

***Fine wire spark plugs are great upgrades for older vehicles with lower energy ignition systems.***

Feature Matrix	Bosch Iridium	Bosch Double Platinum	Bosch Platinum
Service life versus standard Copper plugs	4X	3X	2X
Customer satisfaction guarantee	7 years	6 years	4 years
Performance / Long life	Highest performance / Longest life	Longer life	Performance
Original equipment specific fine wire design	•	•	•
Professional technician warranty	•	•	•
Pre-gapped	•	•	•
Turbo, gasoline direct injection compatible	•	•	•
Precious metal	Iridium ground electrode & center electrode	Platinum ground electrode & center electrode	Platinum center electrode
Electrode close-up			

## OE Fine Wire Iridium Features and Benefits

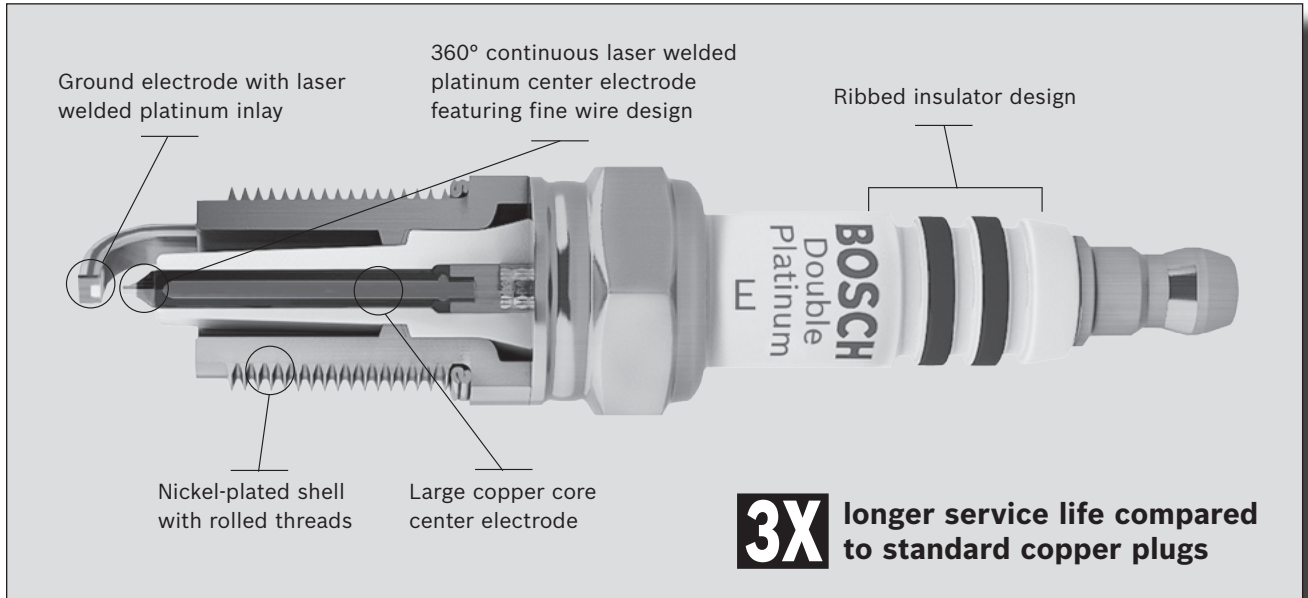


### OE Fine Wire Iridium

*High performance. Long life. OE technology.*

You don't have to choose between high performance and long life in your iridium spark plug – Bosch Iridium Spark Plugs are engineered to deliver both. Bosch original equipment design, materials and processes represent the best of OE technology. This member of Bosch's OE fine wire spark plug family includes an ultra fine wire design and laser welded tapered ground electrode to deliver optimum performance, while the iridium center electrode and ground electrode help it to go the distance.

Feature	Benefit
Ultra fine wire design	Delivers the ultimate in ignitability and performance life
Iridium center electrode	Provides longest life and resists wear
360° continuous laser welded center electrode	Provides exceptional resistance to thermal shock and cracking, increasing durability
Tapered ground electrode power	Reduces flame shrouding for improved combustion and more power
Laser welded Iridium ground electrode	Promotes durability and longest life, resists cracking and potential loss for improved durability
Nickel plated housing	Provides complete anti-seize and corrosion protection
Pre-gapped	No need for gap – faster installation
7-year performance satisfaction guarantee	Gives your customers miles of worry-free driving
Professional Technician Warranty	Industry-leading warranty for peace of mind



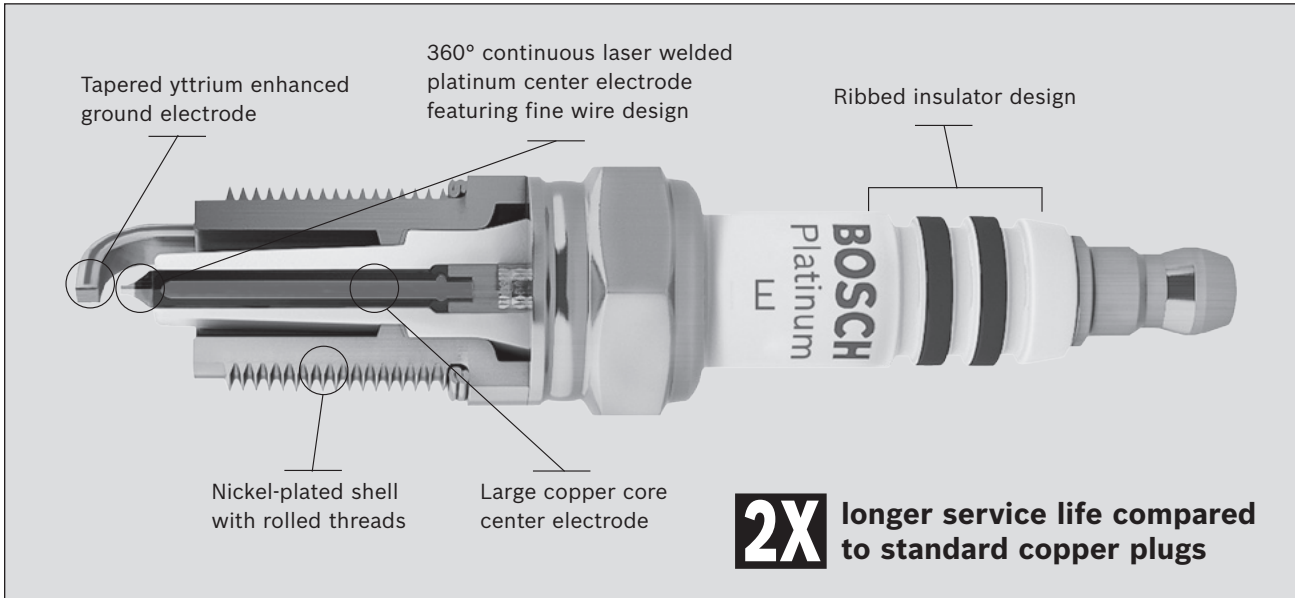
**OE Fine Wire Double Platinum**

*Extended performance life. OE technology.*

Bosch Double Platinum spark plugs are engineered to extend performance life and durability. The fine wire design of the center electrode improves ignitability and performance in your engine while the platinum tip on both the center and ground electrodes ensure longer life

<b>Feature</b>	<b>Benefit</b>
Fine wire design	Delivers better ignitability and performance life
Platinum center electrode	Promotes durability and longer life
360° continuous laser welded center electrode	Provides exceptional resistance to thermal shock and cracking, increasing durability
Laser welded platinum tipped ground electrode	Promotes durability and longer life
Nickel plated housing	Provides complete anti-seize and corrosion protection
Pre-gapped	No need for gap – faster installation
6-year performance satisfaction guarantee	Gives your customers miles of worry-free driving
Professional Technician Warranty	Industry-leading warranty for peace of mind

## OE Fine Wire Platinum Features and Benefits

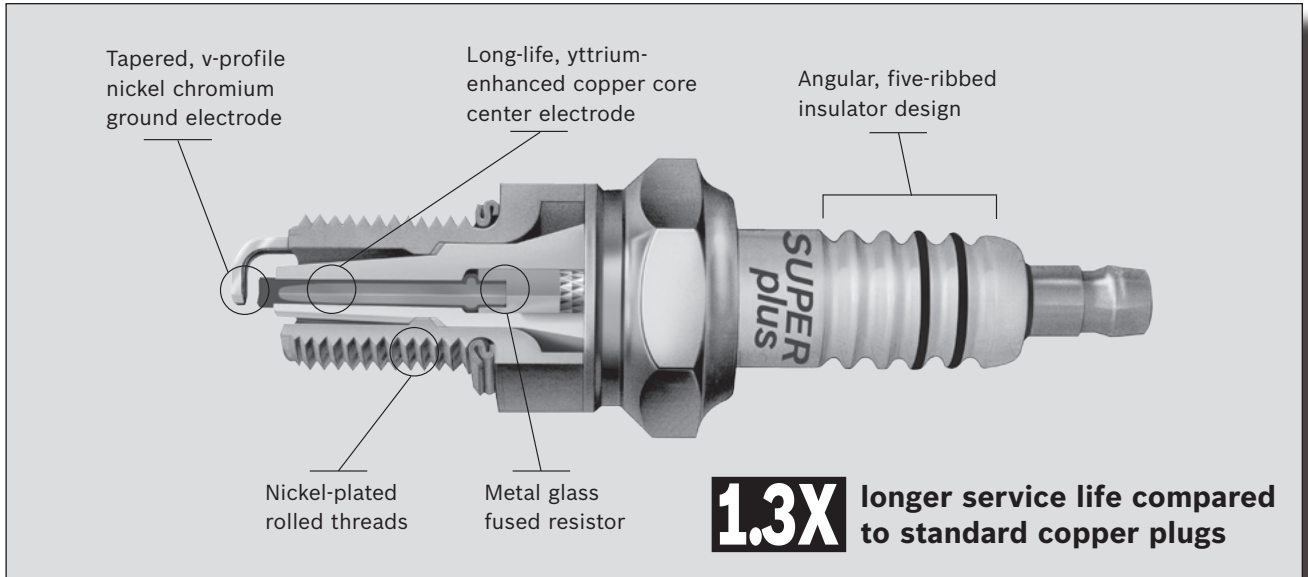


### OE Fine Wire Platinum

*Improved ignitability and performance life. OE technology.*

From the brand trusted in the world's most advanced engines, Bosch Platinum Spark Plugs are engineered to provide you with improved ignitability and performance. The OE fine wire platinum design delivers optimum fit and function.

Feature	Benefit
Fine wire design	Delivers improved ignitability and performance life
Platinum center electrode	Promotes long life and resistance to wear
360° continuous laser welded center electrode	Provides exceptional resistance to thermal shock and cracking, increasing durability
Yttrium enhanced tapered ground electrode	Resists wear and reduces flame shrouding for improved combustion, more power and increased durability
Nickel plated housing	Provides complete anti-seize and corrosion protection
Pre-gapped	No need for gap – faster installation
4-year performance satisfaction guarantee	Gives your customers miles of worry-free driving
Professional Technician Warranty	Industry-leading warranty for peace of mind



**Bosch Super Plus**

For practically every vehicle there is a suitable Bosch Super Plus variant available that, with its special heat range, has been precisely adapted to the engine in question.

Bosch Super Plus features an yttrium-enhanced copper core center electrode and an electrode gap which has been set at the factory. The center electrode's copper core serves to efficiently conduct the heat away to prevent the electrode from overheating. The yttrium alloy protects the copper core against corrosion and ensures up to a **30% longer performance life.**



*With yttrium*



*Without yttrium*

<b>Feature</b>	<b>Benefit</b>
Long-life, yttrium-enhanced copper core center electrode	Superior reliability and increased resistance to spark plug erosion for a 30% longer performance life vs. even OE copper core plugs
Tapered, v-profile nickel chromium ground electrode	Improved starting in cold weather and increased fuel ignitability
Nickel-plated rolled threads	Complete anti-seize and corrosion protection
Metal glass fused resistor	Maximum interference suppression
Angular, five-ribbed insulator design	Prevents misfire due to current leakage

**If you don't feel the difference with Bosch or are not satisfied, we will pay for the plugs.**

### **OE Fine Wire Iridium Warranty**

Robert Bosch LLC guarantees your satisfaction or the improved performance in your vehicle when you use Bosch Iridium Spark Plugs. If you are not satisfied or do not experience quicker starts, smoother acceleration and improved fuel efficiency, return the plugs with your dated sales receipt and Bosch will refund the purchase price of the spark plugs. This guarantee applies to properly tuned vehicles and extends for seven years, or for the manufacturer's recommended spark plug change interval as indicated in the owner's manual, whichever occurs first. For maximum performance and lowered emissions, do not exceed the vehicle manufacturer's recommendations. This guarantee does not extend to damages due to misuse, accident, abuse, neglect, improper installation or application. This guarantee is limited solely to refund of the cost of spark plugs and does not include the cost of labor for removal or installation.

### **OE Fine Wire Double Platinum Warranty**

Robert Bosch LLC guarantees that you will feel the improved performance in your vehicle when you use Bosch Double Platinum spark plugs. If you do not experience quicker starts, smoother acceleration and improved fuel efficiency, return the plugs with your dated sales receipt and Bosch will refund the purchase price of the spark plugs. This guarantee applies to properly tuned vehicles and extends for six years, or for the manufacturer's recommended spark plug change interval as indicated in the owner's manual, whichever occurs first. For maximum performance and lowered emissions, do not exceed the vehicle manufacturer's recommendation. This guarantee does not extend to damages due to misuse, accident, abuse, neglect, improper installation or application. This guarantee is limited solely to the refund of the cost of the spark plugs and does not include cost of labor for removal or installation.

### **OE Fine Wire Platinum Warranty**

Robert Bosch LLC guarantees that you will feel the improved performance in your vehicle when you use Bosch Platinum spark plugs. If you do not experience quicker starts, smoother acceleration and improved fuel efficiency, return the plugs with your dated sales receipt and Bosch will refund the purchase price of the spark plugs. This guarantee applies to properly tuned vehicles and extends for four years, or for the manufacturer's recommended spark plug change interval as indicated in the owner's manual, whichever occurs first. For maximum performance and lowered emissions, do not exceed the vehicle manufacturer's recommendation. This guarantee does not extend to damages due to misuse, accident, abuse, neglect, improper installation or application. This guarantee is limited solely to the refund of the cost of the spark plugs and does not include cost of labor for removal or installation.

Visit [BoschAutoParts.com](http://BoschAutoParts.com) for downloadable forms.

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## Spark Plug Warranty

Robert Bosch Corporation (“Bosch”) warrants all new Bosch Spark Plugs (“Product”) sold by it against defects in material and workmanship throughout the vehicle manufacturer’s entire recommended spark plug change interval as indicated in the vehicle owner’s manual commencing on the date of sale to the first end-user (“Consumer”). If engine damage occurs which is proven to have been caused by a defective Product, Bosch will assume the reasonable costs of repairing the damage. Bosch will not assume any liability for damage resulting from any deviation from Bosch’s application recommendations as printed in Bosch’s catalog, nor will Bosch assume liability for any Product which has not been properly installed in accordance with Bosch’s written instructions and accepted industry standards.

This warranty is limited to the original Consumer, i.e., not transferable to subsequent owners of the Product or Vehicle. Specifically excluded from this warranty are failures caused by misuse, neglect, modification, abuse, improper application, installation or operation, or by unauthorized service or use of unauthorized parts.

To the extent allowed by law, this warranty sets out your exclusive remedies with respect to Products covered by it, whether for negligence or otherwise. Neither Robert Bosch Corporation nor its affiliated companies will be liable for incidental or consequential damages, such as telephone calls, loss of time, inconvenience, commercial loss, etc. THIS WARRANTY IS IN LIEU OF ALL OTHER EXPRESS WARRANTIES. ANY WARRANTY IMPLIED BY LAW, WHETHER FOR MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE, IS LIMITED TO THE PERIOD THAT THIS EXPRESS WARRANTY IS EFFECTIVE. No attempt to alter, modify, or amend this warranty shall be effective unless authorized in writing by an officer of Bosch.

Some states do not allow limitations on how long implied warranties last, or the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

## Manufacturers’ Warranties

Consumers are sometimes told by an automobile dealer’s service writer or mechanic that a brand of replacement spark plug cannot be used in the consumer’s vehicle during the warranty period. The claim is made that use of the brand will “void the warranty,” with the statement or implication that only the original equipment brand of spark plugs may be used. This, of course, tends to cast doubt on the quality of the replacement spark plug.

That claim is simply not true. Under the Magnuson-Moss Warranty Act and general principles of the Federal Trade Commission Act, a manufacturer may **not** require the use of any brand of spark plug (or any other article) unless the manufacturer provides the item **free of charge** under the terms of the warranty.

So if the consumer is told that only the original equipment spark plug will not void the warranty, he should request that the OE spark plug be supplied free of charge. If he is charged for the spark plug, the manufacturer or dealer will be violating the Magnuson-Moss Warranty Act or other applicable law.












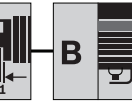

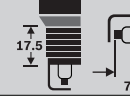

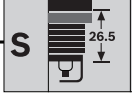
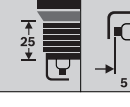












It should be noted that the Magnuson-Moss Act applies only to consumer products, and not to businesses such as fleets or government agencies.

Bosch Spark Plugs meet or exceed warranty requirements of all vehicle and engine manufacturers and when properly installed in accordance with the recommended application will not adversely affect the emission control system of any vehicle.

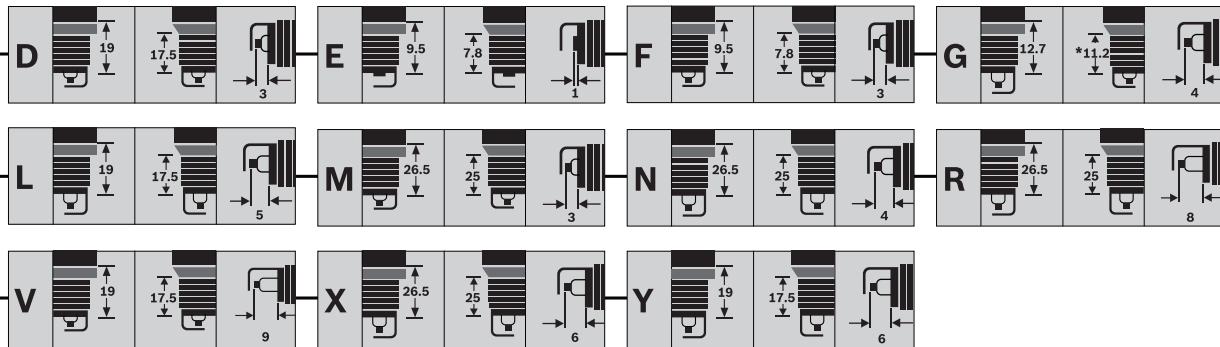
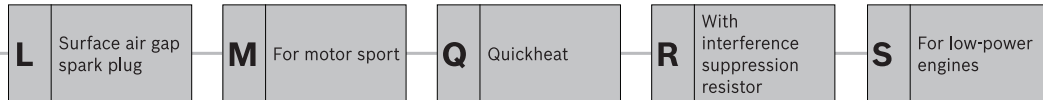
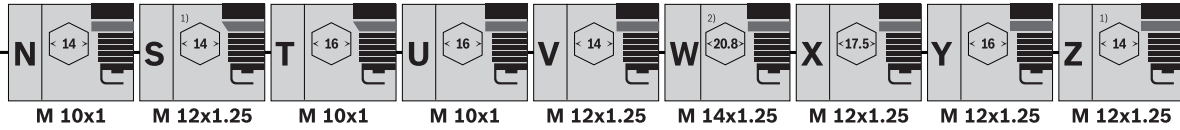


# Numbering System



Seat shape and thread	A  $\langle 14 \rangle$	D  $\langle 20.8 \rangle$	E <sup>1)</sup>  $\langle 12 \rangle$	F  $\langle 16 \rangle$	H  $\langle 16 \rangle$	K <sup>1)</sup>  $\langle 14 \rangle$	L  $\langle 14 \rangle$	M  $\langle 26 \rangle$	M 12x1.25	M 18x1.5	M 10x1.0	M 14x1.25	M 14x1.25	M 14x1.25	M 14x1.25	M 14x1.25	M 18x1.5			
Design	B	Water-tight, for shielded ignition cable dia. 7 mm	C	Water-tight, for shielded ignition cable dia. 5 mm	E	Surface gap spark plug without ground electrode	G	Surface gap spark plug with ground electrode (s)	H	Half thread										
Heat range code number																				
Thread length Spark position	A 		B 		C 		H 		J 		K 		S 		T 		U 			
Type of electrode	D 		T 		Q 															
Electrode material	C Copper		E Nickel-yttrium		P Platinum		S Silver		I Platinum-iridium											
Version	R Burn-off resistor		S 		T 		U 		V 		W 		X 		Y 		Z 		+ SUPER plus Technology	

\* The thread length for spark plugs with seat shape D and spark position A or B is 10.9 mm.

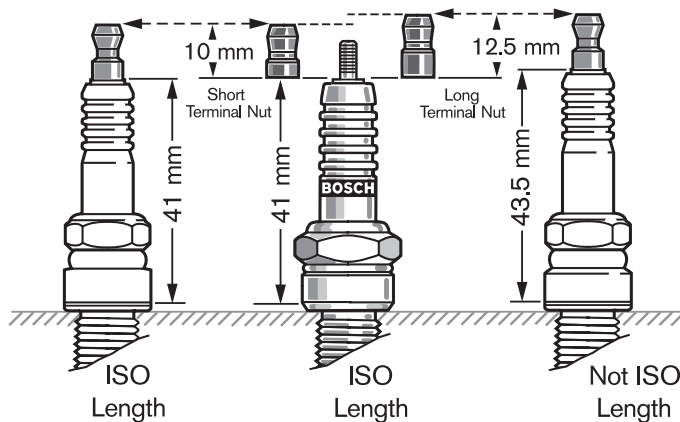


<b>0</b>	Differences from basic design						
<b>1</b>	P0 design with Ni ground electrode						
<b>2</b>	Binary ground electrode						
<b>3</b>	Special length thread						
<b>4</b>	Extended insulator nose						
<b>9</b>	Special design						
	Center electrode with welded-on platinum wafer Diameter 0.8 or 1.1 mm possible	Center electrode with welded-on platinum wafer Diameter 0.6 or 0.8 mm possible	Ground electrode Mono nickel-yttrium	Ground electrode Binary nickel-yttrium	Ground electrode Mono nickel-yttrium laser-alloyed platinum inlay	Ground electrode Binary nickel-yttrium laser-alloyed platinum inlay	
<b>10</b>	●	-	●	-	-	-	
<b>15</b>	●	-	●	-	-	-	
<b>22</b>	●	-	-	-	●	-	
<b>222</b>	●	-	-	-	-	●	
<b>23</b>	-	●	-	-	●	-	
<b>232</b>	-	●	-	-	-	●	
<b>30</b>	-	●	●	-	-	-	
<b>302</b>	-	●	-	●	-	-	
<b>33</b>	-	●	-	-	●	-	
<b>332</b>	-	●	-	-	-	●	

1) Double hexagon 2) Hexagon size 19.0 mm for low-power engine version WS

## ISO Spark Plug Applications

Prior to 1989 several Japanese vehicle manufacturers installed spark plugs which exceeded ISO length standards. To provide correct electrical connection, equivalent Bosch spark plugs (FR7 and 8DCX, FR7 and 8DPX) are supplied with a "long" terminal nut to match the length of the non-conforming ISO competitive spark plugs. See illustration below.



Starting in 1989 Japanese vehicle manufacturers installed spark plugs which conform to ISO standards. The difference in the two plugs can be identified by the letter "K" prior to the heat range number.

	NGK	ND
ISO	BKR6E-11	K20R-U
Not ISO	BCPR6E-11	Q20R-U

A short terminal nut should be used on applications with centrally located ISO spark plugs (as in 4 valve per cylinder applications) installed as OE. When replacing centrally located ISO standard spark plugs with Bosch spark plugs FR7DCX, FR7DPX, FR8DCX or FR8DPX a short terminal nut must be used.