Bosch Glow Plug Application Guide

U.S. Model	Spark Plug	Phug Gap	U.S. Model	Spark Plug	Plug Gap
3 Series	-		4 Series	-	100
218 (ESC. ESG MAZ AL	Bouch FTLDCR	Non-activately	400CB RING MIN AN	Boach WRDC	204" - 208" (0.6 - 0.7 mm
	NGK BKRECK	Non-adustable	600C% 6040 MS0 At 78 - 79	Boach WSO	524 - 529 - 5.6 - 0.7 mm
INS (EX) MYG AR	Boson WPGCS	1002" - 1008" (D.B - 0.8 mm)	BOOKS BOOK MODERN WELL BY	Boach WESCH	504" - 509" 654 - 0.7 mm
318, 23 636 MH AI	Boach F7LDCR	Non-adjustable	630/636 CRI 6024 MSC AL 102 - 164	Boach WFIG. 5	
	NOK BAPIER		600 CGs 8246 MOD '88" - '89"	Busch WELCOWNER (+)	496" - 460" (6.7 - 6.8 mm
320 E71 M10 At 77 - 79	Boach WID	1004" - 008" (0.6 - 0.7 mins	MARCO GINE MOD CON MONE MOD ARE - ARE	MON BERBECK P	038" - 432" (0.7 = 0.8 mm
320 EJ1 M12 A/ 10 - 10	Boach WRIGOS	604" - 608" (0.6 - 0.7 mm)	849CH (684) N62	Storch FORTDOP	Non-adjustable
NOTE AND AND AN	Boson WHILE	400 - 500 p.7 - 6.6 mms	Me gize son	Seach MSDC	004" - 008" 604 - 0.7 min
3254 (E30) M00 AF	Boach WISLCIR	208" - 032" ELT - 0.8 mmg	7 Series	SERVI AND A	1004 - 1004 St. 8 - 71 MIN
319 (EX) MIG AI	Booch WISLCHWILPS (+)	608" - 580" (0.7 - 0.8 mm)	750 #25 MSC At 79 - 79	-	
SUSSIX (ESS) MIDD AN	Boach WBLCR/WBLPR (+)	208" - 332" (0.7 - 0.6 mm)		Boach WSO	004" - 008" (0.4 - 0.7 mm
NO 830 514	Bosch NSOC	304" - 308" ID.6 - 0.7 mm	750 dick M00 At 40 - 41	Bosch WP905	.004"009" (E.B - 0.7 mm
305 ENG MSS AI	Boach F7LDCR	Non-adjustable	730 / 736 (620) MSG AI '82 - '84	Bosch WRISES	.008"080" (0.7 - 0.8 mm
	NOK BKROCK	Non-adjustable	736 (E32) M30 All		.004"080" (0.7 - 0.8 mm
323, 329, 23 £36 M52 AI	Brosch FBLDCR	Non-adjustable	PAGE (ESIS) MINO AN	Blowch FTLDCR	Non-adjustable
29 (EM) MEETY, MS4 AI	NOS BICHOLOUP	Non-education		NGK BICPIECK	hon-will-work
N. W. C.	Bosch FGR70QP		740x (EDB) MBC AR	Boach F7LDCR	Non-adjustable
329, 305, 326, 306 (E46 MS2TU,	NGK BKR6EQUP	Aton-adjustable	NAME OF TAXABLE PARTY.	NOK BKREK	Non-ediameter
MG4, MG6 AI	Bosch, FORTOOP		7401 (ESIE) MAZ AR Up to 7/97	Busch FTLDCR	Non-adjustable
315, 330 (E90) NS2	NOK ILZYMOTT	Non-edjustable	The same of the sa	NGK BYREEK	Non-adjustable
MO 636 550		Non-education	7401 (E38) M62 All from 7/67	Bosch FBLDCR	Non-adjuntable
MO (E34) 500	Boson FTLDCR NGK BKRISK	Non-adjustable Non-adjustable	THOI (ESIS) MISCITU ALI	NOK BKREGUP	Non-adjustable
MS, M roadster, M coupe (ESR) SS2 AL	Brech FOREKOC			Bosch FSRCOOP	
MD (EAS), M madater, M coupe \$54 All	MGK DCPRIEKP	Non-adjustable	7454 (DES) NEC AN	NSK BKMEQUP	Non-adjustation
Zá	MUK DOPHBOOP	Non-adjustable	750 (846)	Boach FGEPOGE	Non-adjustable
Ze disti number Mile Al	NOV BON TOLE	and the same of th	7501 (E32) M70 All	Booch FBLCR	.00%"000" (0.706 mm
24 (ERC) roadsow MSA AL	South FORTOOP	Non-adjustable	750 (E36) M73 At	Bosch FSLCR2	Non-adjustable
5 Series	Total Decree		TSO JESSE MYSTU AS	NSA BARBOUP	Non-adjustable
10% SIZE MOD AS '82 - '87	Seach WHILS			Bosch FGRYDGP	
SON EUR MOD AN 1968"		598" - 598" (5.7 - 6.8 mm)	7601 (686) ACS	NOK BKM60UP	Non-adjustable
	Boach WILCH	200 - 200 GT - GA mms.	President Control	Bown FGR70GP	
528 (E12) MSC AN 1979	Boach WIIO	.004"009" (D.8 - 0.7 mm)	8 Series		
126 £12 MIC AI 10 - VI	Boach WHIDS	304" - 304" (0.4 - 6.7 mm)	MOCI (EST) MICI AI	Boach F7LDCR	Non-adjustable
SS EH MS AI		039" - 032" (0.7 - 0.8 min)	-	NOK BKREEK	Non-adjustative
525 (E34) MSC AT	Bowth F7LDCR	Non-adjustable	(MOC) (EST) MAS AS	Beech F7LDGR	Non-adverable
DE ENEMO AL	NOK BURBER Boach FBLOCE	Non-walkendow	860 831) M70 All	Boach FBLCR	326 330, 911 - 918 www
SUS. SUR. SUS JESU MILITU MIN AN	NGK BKNED P	Non-adjustable	M C'M (15) King	Boach FSLCR2	Non-adjustable
SUS, SUSE, SXX (ESS) MIGTU, MIA AI	Rosen FSR/100P	Non-equations	860CSI (E31) 570	Breich FBLOR2	Non-subjectables
525, 550 (E40 M54	NON BROWN OF		SAU	5 CANADA SA	20070302
NOTE THAT SERVICE STATES	Bouch FOR/COP	Non-adjustable	X3 283 WH	NOK BKMBOUP	Non-advetable
525, 550 (EAG NS2	NGK 8,2796011	Non-adjustable	A STATE OF THE STA	Breith FGR7DGF	23360000
Search Street Street Louis	Bosch FRINGPPSSC	Non-adjunctive	KS (ESS) MOUTU, MSH AU	NGK BKPMEQUP	Non-adjustable
500 S12 M30 Al	Boach WBDC	004" - 008" (0.6 - 0.7 mint)		Brech FGR/DGP	enict was
130 E36 MO AL	Board FILDOR	Non-adjustable	XS From 9/00 (053) MS4, N62 All	NOK BKREEGUP	Non-adjustable
The same of the sa	NUMBER OF THE PARTY OF THE PART	Non-adiumbra		Brech FGR/DGP	
535 / 535 (636) M3C At 40 - 46	Bosen Wilsia S	509" - 500" (0.7 - 0.8 men)	"With Multiplic M1.1		
509 (E34) M30 At	Boach WLCR / WILPR (a)	2007 - 2007 (0.7 - 0.8 mm)	(v) NOO and MOO engines - platform spark pix		endant type.
Selv dillie selvi Ac	Boach FRIDOR	Non-adiabation		SPECIAL MOTES	
and have been	NGK BKREEK	Non-aduatable	The BMW Special fool combinations talls Regime Sections		statation.
SAD SENS MISS AN Up to 1787	Book FTLDOR	Non-adiadates	MOD 1 SCARA 121 200	Singlese MASS, MASS	Tool Humber
	NGK BKNEEK	Non-adulation	MOD and	MANUAL MA	M M M S 121 171
SHO IEING MIEZ AIT from 7/97	Boach FBLDCR	Non-adjustable	MOD 3 standard (15/167) spark plug so	Charl 550, 552, 554	and
NO ESH METU AN	NGK BYFREQUE	Non-adjustable	and by management	SASS, AMSO TU, NIST	90 88 6 121 200
	Boson FGR70GP		DOC MINISTER CO.	M70, M75/TU, N73 5/70, SMF	M M & 121 177
545-500 MIZ	NOK BKRBEQUE	Non-adjustable	TOR 80.00 0 121 100 (520 tout)	m-m, 1862	A 100 00 0 121 172
0.0000000000000000000000000000000000000	Blowth FGR7DOP		II. Torque apecifications for unsubvicated ap-	and pringer five, no cel, greater, etc. o	o Preside
MS (E28) 538	Brech XSOC	204" - 208" (D.6 - D.7 mars)	Standard Engineer Spark Plug Street v h	\$14 x 1.25 Mintergraft Engineer S	park Plus Tremat a M12 a 1.25
MS (E34) SOR	Blosch YSOC	504" - 509" (0.6 - 0.7 mars)	27 a 290m (23 a 1.5 M)		D a Shim (17 a 2.2 ft/ftp
MS (E39), ZN (E52) 562	NOK BKRISEOUP		Nex. 04/05		\$1000

Bosch Glow Plug Application Guide

Glow plugs are critical components in diesel engines, responsible for preheating the combustion chamber to ensure efficient fuel ignition, especially in cold weather conditions. Understanding which glow plug is appropriate for a specific vehicle application can enhance engine performance, improve fuel efficiency, and reduce emissions. This Bosch glow plug application guide will provide comprehensive information on the various aspects of selecting and replacing glow plugs in diesel engines.

Understanding Glow Plugs

Glow plugs function by heating the air in the combustion chamber to facilitate the ignition of diesel fuel. Unlike spark plugs in gasoline engines, glow plugs remain active for a longer duration, allowing for a smooth and efficient start.

Types of Glow Plugs

There are several types of glow plugs, each designed for specific operating conditions:

- 1. Conventional Glow Plugs: These are standard resistive glow plugs that heat up due to electrical resistance. They are generally less expensive but take longer to reach optimal temperatures.
- 2. Fast Glow Plugs: These glow plugs can reach high temperatures quickly, reducing the wait time for

starting the engine. They are ideal for cold climates and high-performance applications.

3. Smart Glow Plugs: These advanced glow plugs feature a control module that regulates heating based on engine temperature, ensuring optimal performance under varying conditions.

Why Choose Bosch Glow Plugs?

Bosch is a renowned name in the automotive parts industry, particularly for their high-quality glow plugs. Here are some reasons to choose Bosch glow plugs:

- Durability: Bosch glow plugs are built to withstand extreme temperatures and harsh conditions, offering longevity and reliable performance.
- Precision Engineering: With advanced technology and strict manufacturing standards, Bosch ensures that their glow plugs meet or exceed OEM specifications.
- Comprehensive Range: Bosch offers a wide range of glow plugs that cater to various diesel engine applications, making it easier for technicians and vehicle owners to find the right part.

Choosing the Right Bosch Glow Plug

Selecting the appropriate Bosch glow plug for your vehicle involves understanding several factors:

1. Vehicle Make and Model

The first step is identifying the specific make and model of your vehicle. Each manufacturer may have different specifications for glow plugs based on engine design and performance characteristics.

2. Engine Type and Size

Different engines, whether naturally aspirated or turbocharged, have unique requirements for glow plug performance. Additionally, the engine size can affect the type of glow plug required.

3. Operating Conditions

Consideration of the typical operating conditions of the vehicle is crucial. Vehicles operating in colder climates may benefit from fast or smart glow plugs that provide quicker heating.

4. OEM Specifications

Always refer to the original equipment manufacturer (OEM) specifications for glow plug replacements. Bosch glow plugs are designed to meet or exceed these standards, ensuring compatibility and reliability.

How to Find the Right Bosch Glow Plug Part Number

Bosch provides an easy-to-use part number system to help identify the correct glow plug for your application. Here's how to navigate it:

- 1. Check the Vehicle Identification Number (VIN): The VIN can provide crucial information about your vehicle's specifications, including engine type and options.
- 2. Consult the Bosch Catalog: Bosch maintains an online catalog and application guide that allows users to search for glow plugs by vehicle make, model, and engine type.
- 3. Use Online Tools: Many automotive parts retailers offer online tools that allow you to input your vehicle information to find the correct Bosch glow plug part number.
- 4. Seek Professional Assistance: If in doubt, consult a certified mechanic or an automotive parts professional who can help identify the right glow plug for your vehicle.

Replacing Bosch Glow Plugs

Replacing glow plugs is a straightforward process, but it requires attention to detail to ensure proper installation. Here are the steps to replace Bosch glow plugs:

Tools Required

- Socket wrench set
- Torque wrench
- Anti-seize compound
- Cleaning brush
- Compressed air (optional)

Step-by-Step Replacement Process

- 1. Preparation: Ensure the engine is cool and disconnect the battery to prevent electrical shock.
- 2. Access the Glow Plugs: Remove any engine covers or components obstructing access to the glow plugs.

- 3. Clean the Area: Use a cleaning brush or compressed air to remove dirt and debris around the glow plugs to prevent contamination.
- 4. Remove the Old Glow Plugs: Carefully unscrew the old glow plugs using the socket wrench. Be cautious of any debris that may fall into the combustion chamber.
- 5. Apply Anti-Seize Compound: Apply a small amount of anti-seize compound to the threads of the new Bosch glow plugs to prevent them from seizing in the future.
- 6. Install New Glow Plugs: Hand-tighten the new glow plugs into place, then use the torque wrench to tighten them according to the manufacturer's specifications.
- 7. Reassemble: Replace any components or covers that were removed, reconnect the battery, and start the engine to test the new glow plugs.

Maintenance Tips for Glow Plugs

Proper maintenance can prolong the life of your glow plugs and enhance engine performance. Here are some tips:

- Regular Inspections: Schedule periodic inspections of your glow plugs, especially if you notice starting issues or poor engine performance.
- Monitor Engine Performance: Pay attention to any changes in engine performance, such as rough idling or difficulty starting, which could indicate failing glow plugs.
- Use Quality Fuel: Using high-quality diesel fuel can reduce carbon build-up on glow plugs, enhancing their lifespan.
- Follow Service Intervals: Refer to your vehicle's maintenance schedule for recommended glow plug inspection and replacement intervals.

Conclusion

In summary, understanding the role and application of glow plugs is crucial for maintaining diesel engine performance. The Bosch glow plug application guide provides valuable insights into selecting the right components for specific vehicles and conditions. With Bosch's reputation for quality and durability, vehicle owners can trust their glow plugs to deliver reliable performance in various operating environments. By following proper maintenance practices and replacement procedures, you can ensure that your diesel engine remains efficient and responsive, even in the coldest conditions.

Frequently Asked Questions

What is the purpose of a glow plug in diesel engines?

Glow plugs are used to preheat the combustion chamber in diesel engines to ensure proper ignition of the fuel during cold starts.

How do I determine the correct Bosch glow plug for my vehicle?

You can determine the correct Bosch glow plug by checking your vehicle's manual, using the Bosch glow plug application guide, or consulting with a professional mechanic.

What are the signs that my glow plugs need replacement?

Common signs include difficulty starting the engine, increased exhaust smoke, rough idling, and a decrease in engine performance.

Can I use Bosch glow plugs in place of other brands?

Yes, Bosch glow plugs can typically be used as replacements for other brands as long as they match the specified part number and application requirements.

What factors should I consider when selecting a glow plug?

Consider the engine type, the specific vehicle model, the operating conditions, and whether you need standard or high-performance glow plugs.

How long do Bosch glow plugs typically last?

Bosch glow plugs generally last between 60,000 to 100,000 miles, but this can vary based on engine conditions and driving habits.

What is the installation process for Bosch glow plugs?

The installation process involves safely accessing the glow plug, removing the old plug, applying antiseize compound, and installing the new Bosch glow plug with the correct torque.

Are there any specific maintenance tips for glow plugs?

Regularly inspect the glow plugs during maintenance, check for electrical connections, and ensure the fuel system is clean to prolong their lifespan.

What is the warranty period for Bosch glow plugs?

Bosch typically offers a warranty period of 12 months or 12,000 miles for their glow plugs, but it's best to check specific product documentation for details.

Where can I find the Bosch glow plug application guide?

The Bosch glow plug application guide can be found on the official Bosch website or through authorized Bosch distributors and retailers.

Bosch Glow Plug Application Guide

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"Explore our comprehensive Bosch glow plug application guide to find the right fit for your vehicle. Discover how to enhance performance today!"

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