

FREQUENTLY ASKED QUESTIONS

DO ORIGINAL SPARK PLUGS HAVE TO BE USED?

A spark plug is a spare part of an engine that is normalised by international standards. It can therefore be replaced by a different type of spark plug and it is not important who produced it. However what is important is that it is a good quality product. Quality systems guarantee product quality. The most well known systems are ISO 9001, VDA 6.1 and QS 9000. Some car manufacturers condition the guarantee to a car by using the original spare parts and include the spark plugs among these. This condition is not technically justified.

CAN BRISK SPARK PLUGS BE COMPARED WITH COMPETING TOP WORLD BRANDS?

BRISK spark plugs are totally comparable with the products of top world firms. They are manufactured in the production process of a certified quality system as required by car manufacturers in Europe and America - ISO 9001, VDA 6.1, QS 9000. Among other things these systems guarantee global purchase of material, supplier assessment, cooperation in engine development, production process management and so on.

ARE THERE ANY MANUFACTURING STANDARDS FOR SPARK PLUG PRODUCTION?

Brisk spark plugs are manufactured in the production process of a certified quality system as required by car manufacturers in Europe and America – ISO 9001, VDA 6.1, QS 9000. Among other things these systems guarantee global purchase of material, supplier assessment, cooperation in engine development, production process management and so on.

HOW DO I KNOW WHEN SPARK PLUGS NEED TO BE REPLACED?

The first reason for replacing spark plugs is the expiry of their replacement interval. Another signal for replacement is jerking of the engine during acceleration or poor starts. However this may also be caused by poor condition of high-voltage cables, cable terminals or the ignition system.

WHAT IS USED TO TEST THE CORRECTION FUNCTION OF SPARK PLUGS?

Today's engines and spark plugs are of such high quality that during their replacement interval spark plugs are only given a preventive check. (We recommend once a year)

IS THE HEAT VALUE OF SPARK PLUGS IMPORTANT FOR A PARTICULAR ENGINE?

The spark plug heat value (almost always expressed by a number in the centre of the spark plug type marking) is a very important spark plug parameter. If a plug is chosen that is too hot for the engine, serious damage to the sparkplug and engine may occur, if too cold spark plug is chosen, the electric insulation resistance of spark plug will be reduced due to conductive deposit build up on the spark plug insulator surface and the plug will fail to properly ignite the air/fuel mixture inside the ignition chamber.

IS THE HEAT VALUE OF SPARK PLUGS IMPORTANT FOR A CAR ENGINE?

The heat value (almost always expressed by a number in the centre of the spark plug type marking) is a very important spark plug parameter. If a plug is chosen that is too hot for the engine, the engine may be destroyed, if too cold a plug is chosen, the electrical insulation resistance will be reduced at the spark plug insulator tip surface and the plug will cease to ignite the mixture of petrol and air in the ignition chamber.

SHOULD THE PRESCRIBED ELECTRODE DISTANCE FOR SPARK PLUGS BE MAINTAINED?

Of course, always use spark plugs with a prescribed electrode distance. The spark-over voltage between the electrodes of the spark plugs depends on the electrode distance and therefore the engine ignition system is sized by this voltage. Likewise the size of the electrode distance depends on the ratio of fuel and air. However what is decisive is the electrode distance the moment the spark plug replacement interval is reached. Therefore, in some cases multi-electrode spark plugs or plugs with better quality electrodes such as new ones may have greater electrode distance.

IT IS POSSIBLE TO REPLACE SPARK PLUGS WITH VARIOUS SPARK GAP DESIGN?

Generally preference should be given to replacing a spark gap with the same design, nevertheless this does not mean that spark plugs of different design are worse than the original. In some cases a higher engine output or reduction in consumption may be achieved.

WHY DO SOME SPARK PLUGS HAVE A REPLACEMENT INTERVAL OF 15,000, 20,000, 30,000, 60,000 AND 90,000 KM?

The replacement interval depends on the spark gap design of spark plugs and the material used. Generally multi-electrode plugs and plugs with electrodes made of noble metals have a higher replacement interval than single-electrode ones.

IS IT GOOD TO REPLACE THE SPARK PLUG BEFORE THE EXPIRY OF THE REPLACEMENT INTERVAL?

The replacement interval is set at an optimum for spark plugs operating in engines. The older the engine, the worse the conditions for the operation of the spark plugs. Therefore it is good to replace plugs sooner in older engines than waiting until the replacement interval expires.