



AVIATION TECHNICAL BULLETIN

Champion Spark Plug Company

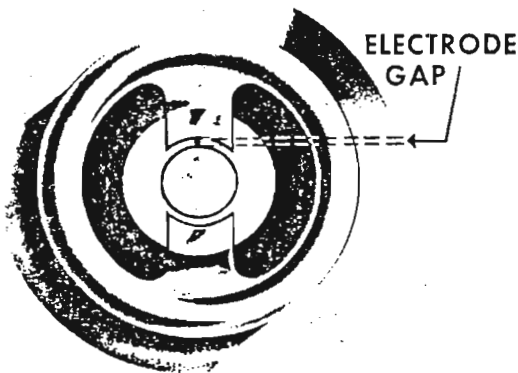
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WHAT IS A NOMINAL GAP?

It is obviously impractical to make every part of a product exactly the same. Hence, tolerances in dimensions are always provided for - the objective being to obtain, of course, the highest quality consistent with acceptable cost.



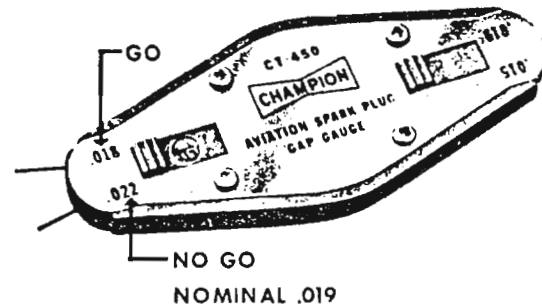
GAP MEASUREMENT

This is why spark plug electrode gaps are described as NOMINAL gaps, with actual gaps subject to certain allowable manufacturing tolerances, as established by the military and S.A.E. standards committees working together.

Normal tolerances have been set at MINUS .001 and PLUS .003 in. This means that a feeler gauge of .001 less than the nominal gap will go through the smallest electrode gap on the plug and that a feeler gauge of .003 in. greater than the nominal will not go through the largest gap.

Therefore, a plug manufactured to a NOMINAL gap of .019 may have gaps as low as .018 (.019 - .001), but none as high as .022 (.019 + .003).

It should be observed that on a particular spark plug with two or more separate electrode gaps, that all gaps need not be the same. However, they will normally be within .002 of each other.



GAPPING GAUGE