



AVIATION TECHNICAL BULLETIN

Champion Spark Plug Company

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GAP BRIDGING ON FINE WIRE PLUGS

Platinum fine wire spark plugs normally have excellent foul resistance capabilities. However, certain combinations of installation and operating procedures, fuel-lead contents, etc. can result in complete or partial gap bridging.

Complete gap bridging from unvaporized lead and/or combustion chamber deposits can occur any time and immediately shorts the plug, rendering it inoperative. Partial bridging is the narrowing of the gap over a period of time during service by the build-up of contaminate, which in turn decreases the spark energy and will eventually fail to ignite the fuel/air mixture.

It is suggested that in such cases, the gaps be increased to a nominal setting of .019. This increased setting will not affect the operating period or total plug life.

If gap bridging is a chronic problem even with the larger gap, then it is suggested that idling procedures, fuel control procedures, carburetor settings, etc. be checked for the possible source of trouble.

CHAMPION SPARK PLUG COMPANY

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