



# AVIATION TECHNICAL BULLETIN

Champion Spark Plug Company

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## THROTTLE JOCKEYING

Does Throttle Jockeying, i.e. rapid movement of throttle from low to high power settings, have an effect on spark plug operations? It certainly does - and here's how.

The deposits formed on spark plugs during extended idle or low power settings are electrically conductive to some extent. However, sudden elevations of temperatures cause them to change chemically through stages to increasingly higher electrically conductive compounds. Misfiring then can occur if the gaps become bridged or the material covers a sufficient area of the insulator nose.

Low temperature carbon deposits formed on spark plugs during idle or low power can normally be removed by performing a proper engine "burn-out." This is accomplished by slowly opening the throttle until full power is achieved. Should misfire occur during power application, decrease power slightly until all plugs fire consistently for approximately 15 to 30 seconds, and again slowly open the throttle until full power capability has been achieved.

Please discourage throttle jockeys and get better plug and engine performance.

CHAMPION SPARK PLUG COMPANY

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