



# AVIATION TECHNICAL BULLETIN

Champion Spark Plug Company

P. O. BOX 910, TOLEDO, OHIO 43601

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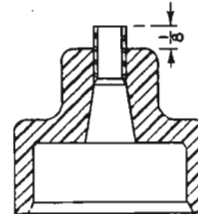
*A SERVICE TIP FROM THE CHAMPION AVIATION SERVICE DEPARTMENT*

## IS YOUR CHAMPION CLEANER DOING A GOOD JOB FOR YOU?

The hard cinder-like deposits that are characteristic of engine operation on high lead content fuel are difficult to remove from the spark plug firing end. We have therefore, over the years, improved our cleaning abrasive so that it is now sharper and harder than it once was. This enhances the plug cleaning process, but also brings about three incidental disadvantages.

1. The rubber nozzle in the cleaner is more rapidly worn by the improved abrasive spray pattern and, if worn, the cleaner efficiency deteriorates. We recommend you update your cleaner at minimum cost by installing the heavy duty nozzle shown here.

The heavy duty nozzle bushing may be expected to clean up to 2500 plugs. Replace nozzle Part No. 8-850 as required to maintain cleaning efficiency. Nozzle bushing Part No. 8-850 should be pressed into rubber nozzle Part No. 622 with coned end of bore down and to  $\frac{1}{8}$ " dimension as illustrated.



2. The improved abrasive can damage a plug more easily than heretofore if overblasting or excessive air pressure is used. We recommend using a pressure regulator ahead of the plug cleaner (some Champion models have this feature built in) so that cleaning air pressure never exceeds 80 psi for fine wire plugs and 110 for massive electrode plugs. Use short 3 to 4 second abrasive blasts, then inspect the plug for cleanliness, repeating until the plug is perfectly clean.
3. Moisture can be a greater problem than so many of us realize. It causes, for example, caking of the abrasive resulting in poor or even no cleaning action. The only solution then is to remove the old abrasive and recharge with new.

Install a good water trap, such as Champion P/N L-300 in the air line to the cleaner to help prevent this problem.

CHAMPION SPARK PLUG COMPANY

R. L. Anderson  
Aviation Service Manager

*First Choice for Dependable Engine Performance*