



AVIATION TECHNICAL BULLETIN

Champion Spark Plug Company

P. O. BOX 910, TOLEDO, OHIO 43601

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| ROUTE TO | |
| SERVICE MANAGER | |
| SALES MANAGER | |

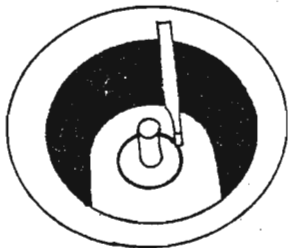
April 29, 1983

No. 83-3

CONSTANT POLARITY WEAR/EXCESSIVE ELECTRODE EROSION

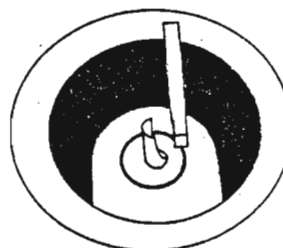
CONSTANT MAGNETO POLARITY FIRING WILL CAUSE EXCESSIVE ELECTRODE EROSION. ONE SPARK PLUG FIRES WITH POSITIVE POLARITY CAUSING EXCESSIVE GROUND ELECTRODE WEAR, WHILE THE NEXT SPARK PLUG FIRES NEGATIVELY, CAUSING EXCESSIVE CENTER ELECTRODE WEAR. NOTE THE FOLLOWING ILLUSTRATIONS:

Spark Plug Fired Positive



ADVERSE
Ground Electrode Wear

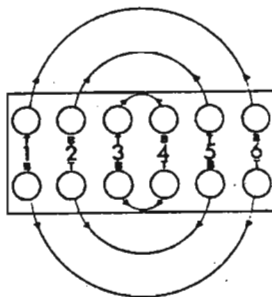
Spark Plug Fired Negative



ADVERSE
Center Electrode Wear

IN ORDER TO EQUALIZE THIS WEAR AND RECEIVE THE FULL SERVICE VALUE OF THE 'S' TYPE SPARK PLUG, IT IS SUGGESTED THAT THE FOLLOWING ROTATION PROCEDURE BE ADHERED TO EVERY 100 HOURS OF PLUG SERVICE.

1. Place spark plugs in a tray identified by cylinder locations as indicated in the following example:



2. After servicing, return spark plugs to their original positions in the tray.
3. Rotate the spark plugs as shown above when reinstalling them in the engine.

MAINTAIN .016 GAP

SRF/ch