



AVIATION TECHNICAL BULLETIN

Champion Spark Plug Company

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ROUTE TO	
SERVICE MANAGER	
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AGF2 GLOW PLUG

This Technical Bulletin is written to review the inspection and cleaning procedures of the Champion AGF2 Glow Plug.

Visually inspect the element coil for fused areas. Figures #1 and #2 are typical examples. The acceptable maximum fused area limit is 1/8" x 1/32" (one only). Any glow plug that exceeds this limit should be discarded.



Figure #1

Figure 1 -- initial or early state of fusing; usually found acceptable by functional test.



Figure #2

Figure 2 -- advanced, more extensive fusing. Many times will be found not acceptable by functional test.

If the glow plug passes the above visual check and the glow plug shows evidence of carbon deposit build-up, clean as follows.

CLEANING:

1. Immerse the element end of the glow plug in cold carbon remover for ten to thirty minutes.
2. Brush off the loosened carbon with a soft nylon brush or equivalent. NEVER USE A METAL BRUSH.
3. Rinse the element thoroughly in hot running water.
4. Remove all excessive fluid with a low pressure air blast.
5. Re-inspect the element coil for the presence of fused area.

FUNCTIONAL TEST:

- (1) Attach the glow plug to the ignition lead.
- (2) Switch ignition ON.
- (3) The glow plug is acceptable if it reaches a bright yellow color in approximately 8 seconds.
- (4) Switch ignition OFF.

Field experience shows that operators who adhere to the above cleaning and inspection procedures, as well as maintaining a good power source for starting, have greatly improved glow plug service life and engine starts.
