



SERVICE LETTER

No. 841

Piper Aircraft Corporation

Lock Haven, Pennsylvania, U.S.A.

January 7, 1980

M

Subject: Heater Spark Plug Replacement or Modification

Models Affected:

PA-31T1 Cheyenne I

PA-31T Cheyenne II

Serial Numbers Affected:

31T-7904016 through 31T-7904054,
31T-7904056, 31T-7904057, 31T-8004001
31T-7920042 through 31T-7920094,
31T-8020001, 31T-8020002.

Compliance Time:

At owner/operator's discretion.

Purpose:

On the above-referenced aircraft, a one-hole spark plug (Janitrol Part No. 10E75-2) was installed in the cabin combustion heater. In subsequent production aircraft, the one-hole spark plug has been replaced with a three-hole spark plug (Janitrol Part No. 10E75-3/Piper Part No. 763 495) which enhances heater reliability by providing more positive plug ventilation to prevent fouling.

This Service Release provides instructions for either the replacement of the existing one-hole spark plug with a three-hole plug (Janitrol Part No. 10E75-3/Piper Part No. 763 495) or for the field modification of the existing one-hole plug.

Instructions:

1. Refer to Cheyenne Maintenance Manual, Section XIII for Heater Spark Plug Installation instructions.
2. Proceed to step a. or b., below:
 - a. Replacement
Replace existing spark plug with appropriate replacement.
(See Material Required, below.)
 - b. Modification
Modify existing spark plug in accordance with attached Sketch/Instruction data.
3. Make appropriate logbook entry of compliance with this service release.

(over)

Material Required:

For replacement, one (1) each per aircraft spark plug (Janitrol Part No. 10E75-3/
Piper Part No. 763 495).

Availability of Parts:

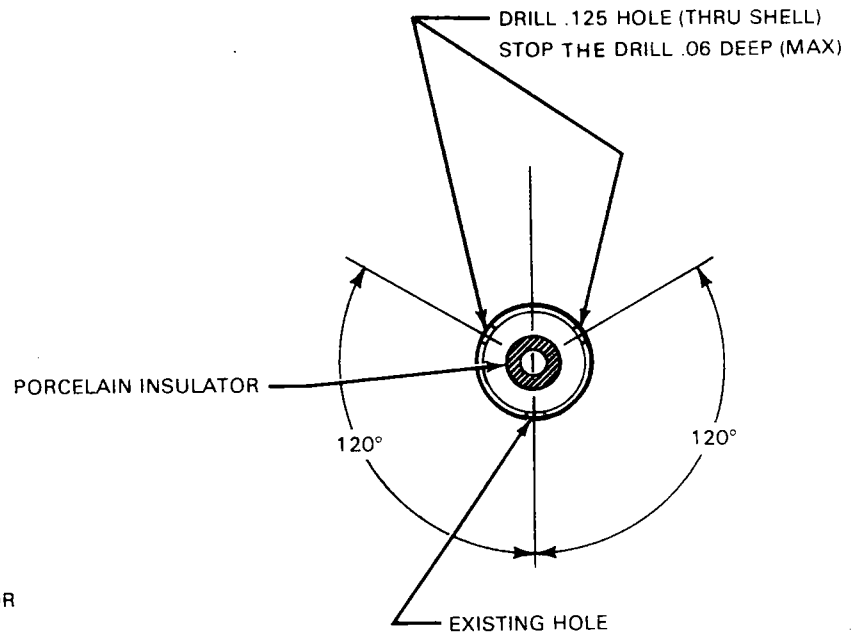
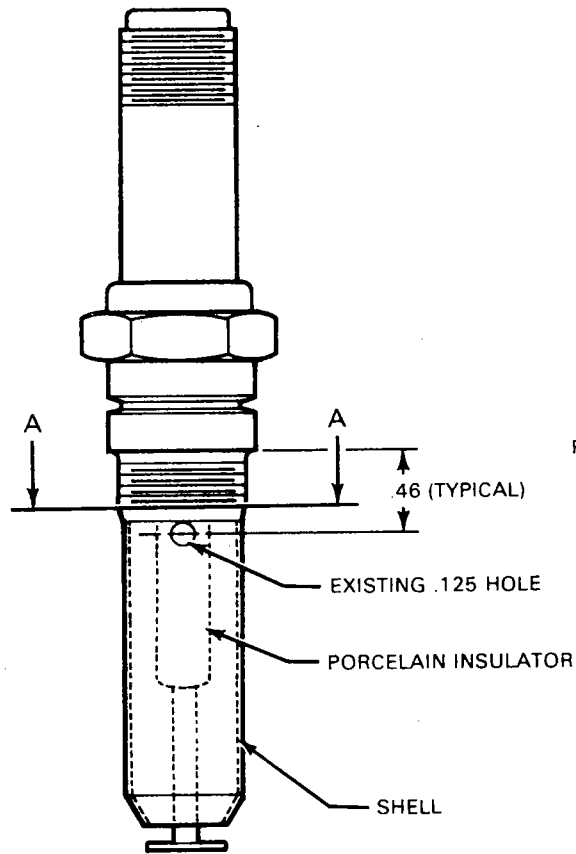
Your Piper Field Service Facility.

Effectivity Date:

This Service Release is effective upon receipt.

Summary:

Please contact your Piper Field Service Facility to arrange for incorporation of this refinement.

SECTION A-AINSTRUCTIONS

1. Remove access panel on right side of fuselage nose section to gain access to heater.

NOTE

Insure heater electrical circuits are de-energized.

2. Unscrew and remove the high voltage lead connector at the spark plug. Exercise care to avoid fouling or damaging the connector.
3. Remove spark plug from heater. Make sure spark plug gasket is also removed.
4. Refer to sketch above. Locate and drill (2) additional .125 holes in spark plug shell as shown.

CAUTION

When drilling the (2) .125 holes in spark plug shell, stop drill .06 deep (max.). Extreme care must be taken not to drill into porcelain insulator.

5. Remove all drill chips from inside spark plug shell.
6. Reinstall spark plug, with gasket, into heater. Torque to 28 foot-pounds.
7. Carefully insert the spring connector, on the high voltage lead, into the spark plug shell press down gently and start the nut on the threads. Tighten nut to 20 foot-pounds.
8. Check heater for proper operation.
9. Replace access panel.
10. Make proper logbook entry of Service Letter 841 compliance.