

SERVICE BULLETIN

Beechcraft

TITLE: FUEL - INSPECTION FOR CHAFING OF ELECTRICAL CONNECTOR AND ASSOCIATED WIRING ON FUEL LINE

1. Planning Information

A. Effectivity

(1) Airplanes

Model G36 Bonanza, Serials E-3630, E-3636 through E-3817, E-3819 through E-3834, E-3836 through E-3887, E-3889 through E-3896, E-3898 and E-3899.

If you are no longer in possession of the airplane, please forward this information to the present owner.

(2) Spares

None.

B. Reason

WARNING

Owners / operators shall not take off if fuel odor is present in the cockpit or evidence of fluid is present on the floor forward of the pilot's seat. Investigate fluids in the inspection area to ensure no fuel has leaked into the cockpit. If either condition is noted during flight, land as soon as practical at a suitable airport. If erratic instrument readings are encountered, follow procedures listed in the Model G36 Bonanza Pilot's Operating Handbook/ Airplane Flight Manual, Section 3 Emergency Procedures and Section 3A Abnormal Procedures.

This Service Bulletin is being issued to inspect for and, if found, correct an improper installation of the P60 / J60 electrical connector, associated wiring, and fuel line. Contact between the fuel line and electrical components may cause damage to the fuel line, up to and including leakage. Safety Communiqué 303 was issued on this subject in April of 2009.

The export of these commodities, technology or software are subject to the U.S. Export Administration Regulations. Diversion contrary to U.S. law is prohibited. For guidance on export control requirements, contact the Commerce Department's Bureau of Export Administration at <http://www.bis.doc.gov>.

Hawker Beechcraft Corporation (HBC) issues Service Information for the benefit of owners and fixed base operators in the form of two classes of Service Bulletins. The first class, Mandatory Service Bulletins (red border) includes changes, inspection and modifications that could affect safety or crashworthiness. HBC also issues Service Bulletins with no red border which are designated as either recommended or optional in the compliance section within the bulletin. In the case of recommended Service Bulletins, HBC feels the changes, modifications, improvements or inspections will benefit the owner/operator and although highly recommended, Recommended Service Bulletins are not considered mandatory at the time of issuance. In the case of Optional Service Bulletins, compliance with the changes, modifications, improvements or inspections is at the owner/operator's discretion.

Both classes are available on the web at <http://pubs.hawkerbeechcraft.com> and mailed to:

- (a) Owners of record on the FAA Aircraft Registration Branch List and the HBC Safety of Flight Information (SOFI) List.
- (b) Those having a publications subscription.

Information on Safety of Flight Information (SOFI) or subscription can be obtained through the Hawker Beechcraft Corporation Technical Manual Distribution Center (TMDC). As Mandatory Service Bulletins and Service Bulletins are issued, the Service Bulletin Master Index will be updated and available online at <http://pubs.hawkerbeechcraft.com>. Warranty will be allowed only when specifically defined in the Service Bulletin and in accordance with HBC Warranty Policy.

Unless otherwise designated, HBC Mandatory Service Bulletins, Service Bulletins and HBC Kits are approved for installation on HBC airplanes in original or HBC modified configurations only. HBC Mandatory Service Bulletins, Service Bulletins and Kits may not be compatible with airplanes modified by STC installations or modifications other than HBC approved kits.

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C. Description

An inspection is performed on the P60 / J60 electrical connector [part numbers (P/N) 207019-1 / 207020-1, respectively], associated wiring, and fuel line (P/N 36-920001-13) to verify that proper clearance exists between the components and that the protective insulating tube is installed on the proper section of the fuel line. If chafing is found, damaged components are replaced and positive clearance is established.

D. Compliance

An Airworthiness Directive will be requested on the matter covered by this Service Bulletin.

Hawker Beechcraft Corporation (HBC) considers this to be a Mandatory Service Bulletin. It must be accomplished within the next 10 flight hours or six (6) calendar months from receipt of this Service Bulletin, whichever occurs first.

E. Approval

The engineering data contained in this Service Bulletin is FAA approved.

Prior to accomplishment, owners / operators of airplanes registered in countries other than the United States shall consult with their local Aviation Regulatory Authority.

Incorporation of this Service Bulletin restores the airplane to original type design.

F. Manpower

The following information is for planning purposes only:

Estimated man-hours to perform inspection: 1 hour.

Estimated man-hours to install chafe protection: 2 hours.

Estimated additional man-hours to install new fuel line, if required: 3 hours.

Suggested number of men to perform inspection / maintenance: 1 man.

The above is an estimate based on experienced, properly equipped personnel complying with this Service Bulletin. Occasionally, after work has started, conditions may be found that could result in additional man-hours.

G. Weight and Balance

None.

H. Electrical Load Data

Not changed.

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I. Software Accomplishment Summary

Not applicable.

J. References

Safety Communiqué 303 dated April, 2009;

Bonanza Series Maintenance Manual (MM) P/N 36-590001-9B2 or subsequent revision,
Chapter 20-06-00;

Advisory Circular (AC) 43.13-1B, Paragraph 8-31.

K. Publications Affected

None.

L. Interchangeability of Parts

Not applicable.

M. Warranty Credit

Warranty credit for labor and parts to the extent noted under MANPOWER and MATERIAL will be allowed on all affected airplanes.

Warranty coverage offered in this Service Bulletin will expire six (6) months from the last day of the month this Service Bulletin is issued. After that date, the owner / operator assumes the responsibility for compliance cost. Hawker Beechcraft Corporation (HBC) reserves the right to void warranty coverage in the area affected by this Service Bulletin until the date the Service Bulletin is accomplished by an HBC Authorized Service Center (ASC).

All warranty work must be accomplished by an HBC ASC rated to perform maintenance on the specific model of Hawker Beechcraft airplane. The HBC ASC will submit the appropriate paperwork directly to HBC Warranty for parts and labor to the extent noted under Section 1.M. Warranty Credit for warranty consideration. The owner / operator should contact an HBC ASC to schedule the work to be accomplished.

In the event that work will not be accomplished at an HBC ASC, parts may be purchased directly from RAPID and a warranty claim for parts only should be submitted directly to HBC Warranty.

After the Service Bulletin has been accomplished, a warranty claim must be submitted to HBC within 60 days of the Service Bulletin completion date.

2. Material Information

A. Materials - Price and Availability

Contact a Hawker Beechcraft Authorized Service Center for information.

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B. Industry Support

Not applicable.

C. Airplane

The following parts required for this modification may be ordered through a Hawker Beechcraft Authorized Service Center or RAPID:

Part Number	Description	Quantity Per Airplane
HT1/2T	Spiral Wrap	As Required
207019-1	P60 Electrical Connector	As Required
207020-1	J60 Electrical Connector	As Required
36-920001-13	Fuel Line	As Required

D. Spares

Not applicable.

E. Reidentified Parts

None.

F. Tooling - Price and Availability

Not applicable.

3. Accomplishment Instructions

This Service Bulletin shall be accomplished as follows:

NOTE

Should any difficulty be encountered in accomplishing this Service Bulletin, contact Hawker Beechcraft Corporation at 1-800-429-5372 or 316-676-3140.

WARNING

Observe all Warnings and Cautions contained in the airplane manuals referenced in this Service Bulletin.

Whenever any part of this system is dismantled, adjusted, repaired or renewed, detailed investigation must be made on completion to make sure that distortion, tools, rags or any other loose articles or foreign matter that could impede the free movement and safe operation of the system are not present, and that the systems and installations in the work area are clean.

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- (1) Remove all power from the airplane and disconnect the battery. Display warning notices prohibiting reconnection of airplane electrical power.
- (2) Gain access to inspection area, which is aft of the firewall and forward of the pilot's instrument panel on the left side. Refer to Figure 1.
- (3) Just aft of the firewall and forward of the instrument panel on the pilot's side, inspect fuel line P/N 36-920001-13, P60 / J60 electrical connector and associated wiring for damage as a result of chafing.
- (4) Make the following determinations:

IF:	THEN:
The fuel line, connector or associated wiring is damaged.	Replace fuel line if damaged. Replace or repair damaged wiring (Refer to AC 43-13-1B, Chapter 11). Replace connector if damaged. Ensure fuel line, electrical connectors and associated wiring are secure and have a minimum of 0.50-inch separation.
The fuel line has factory protective insulating tube properly installed (starting at the firewall and continuing for a minimum of 10.50 inches past the first bend in the fuel line). Refer to Figure 2. No damage to the fuel line, electrical connector or associated wiring.	Ensure fuel line, electrical connectors, and associated wiring are secure and have a minimum of 0.50-inch separation.
The fuel line does <u>not</u> have factory protective insulating tube properly installed and there is no damage to the fuel line, electrical connector, or associated wiring.	Install spiral wrap P/N HT1/2T on the fuel line in the location depicted in Figure 2. Ensure fuel line, electrical connectors, and associated wiring are secure and have a minimum of 0.5-inch separation. NOTE If fuel line is already protected with approved chafe protection, it is not necessary to add spiral wrap.

- (5) Install items removed in Step (2) to gain access to inspection area.
- (6) Reconnect the airplane battery, remove warning notices and restore power.
- (7) Ensure all work areas are clean and clear of tools and miscellaneous items of equipment.
- (8) Return airplane to service.

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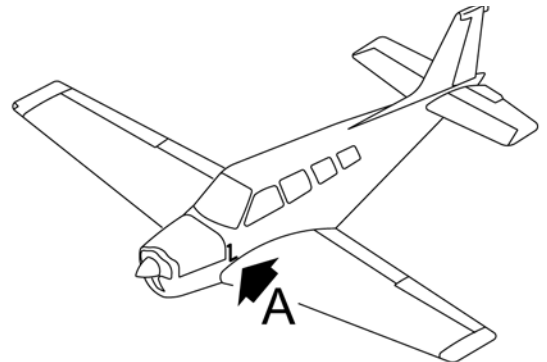
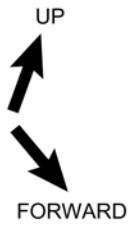
A. Spares

Not applicable.

B. Record of Compliance

Upon completion of this Service Bulletin, make an appropriate maintenance record entry.

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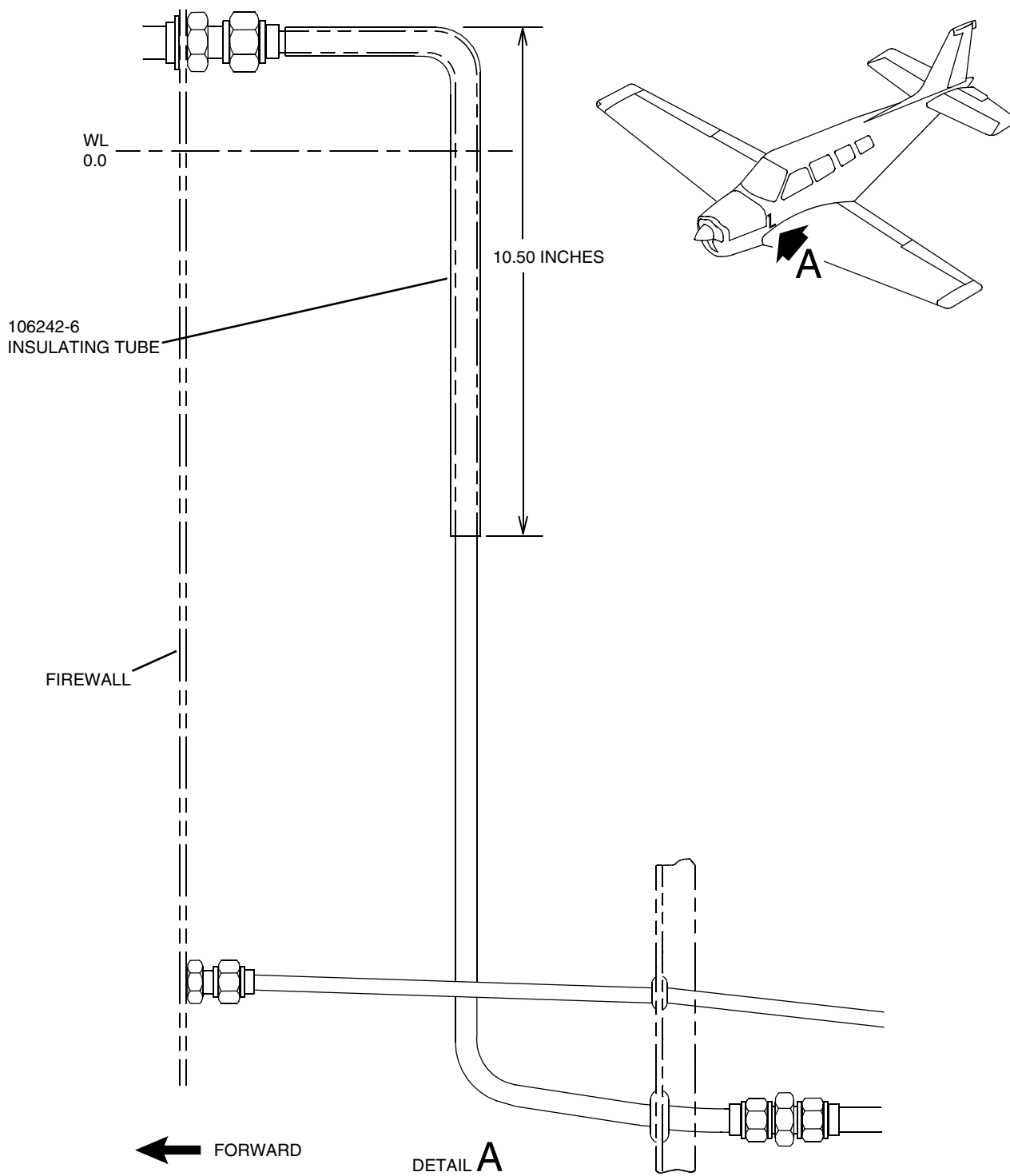
AREA OF POTENTIAL CHAFING

DETAIL **A**

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View Looking Up and Outboard from Above Pilot's Rudder Pedals
Figure 1

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**Fuel Line with Insulation Tube Installed During the Manufacturing Process
Figure 2**