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# Service Bulletin

## Service Bulletin No. 051

### **Replacement of P/N 69C13 Base in 65C30 Series Sealed Control Assembly**

#### 1. Planning Information

##### A. Effectivity

- (1) Any Hartzell Engine Technologies LLC (HET) P/N 65C30 Series Sealed Control Assembly with no prefix or with A through F prefixes as used with HET Aircraft Combustion Heaters are affected by this Service Bulletin:
  - (a) If a P/N 69C13 base must be replaced for any reason.
  - (b) If an affected P/N 65C30 Series Sealed Control assembly is being overhauled.

**CAUTION:** DO NOT USE OBSOLETE OR OUTDATED INFORMATION. PERFORM ALL INSPECTIONS OR WORK IN ACCORDANCE WITH THE MOST RECENT REVISION OF THIS SERVICE BULLETIN (SB). INFORMATION CONTAINED IN THIS SB MAY BE SIGNIFICANTLY CHANGED FROM EARLIER REVISIONS. FAILURE TO OBSERVE THIS SB OR USE OF OBSOLETE INFORMATION MAY CREATE AN UNSAFE CONDITION THAT MAY RESULT IN DEATH, SERIOUS BODILY INJURY, AND / OR SUBSTANTIAL PROPERTY DAMAGE. REFER TO THE HET WEBSITE FOR THE MOST RECENT REVISION LEVEL OF THIS SB.

##### B. Concurrent Requirements

- (1) If not previously done, comply with HET SIL A-144 Rev New or latest in conjunction with this SB. The SIL replaces the Solenoid Valve Clamp in P/N 65C30 Series Sealed Control.

##### C. Reason

- (1) The aircraft heater fuel line may be removed and reinstalled for various reasons. HET has discovered that before or prior to overhaul of P/N 65C30 Series Sealed Control Assemblies, the hard fuel line inside the unit may be stressed, resulting in cracks or fracture.
- (2) Generally no indication of this condition is apparent unless fuel leakage is noted coming from the Sealed Control Assembly overboard drain line.
- (3) This SB is intended to provide instructions for the installation of an improved base, P/N 69C13-1, which incorporates a bracket to restrict movement of the union allowing proper torque to be established without access to the inside of the Sealed Control Assembly.
- (4) SB instructions clearly establish proper torque for the external fuel line unions.
- (5) Regulatory action is not expected.

##### D. Description

- (1) This publication provides Additional Maintenance Instruction (AMI).
- (2) This publication requires replacement of P/N 69C13 base in the P/N 65C30 Series Sealed Control Assembly at next overhaul and announces availability of an improved base P/N 69C13-1 which will provide a terminating action for this Service Bulletin.

# Service Bulletin

## Service Bulletin No. 051

### **Replacement of P/N 69C13 Base in 65C30 Series Sealed Control Assembly**

#### E. Compliance

- (1) At the next overhaul of a P/N 65C30 Series Sealed Control Assembly with no prefix or with A through F prefixes or whenever a repair is made to the Sealed Control Assembly that requires replacement of the P/N 69C13 whichever occurs first.
  - (a) Replacement of P/N 69C13 base with P/N 69C13-1 base is a one time occurrence, after which, replacement of the P/N 69C13-1 base is on condition.

#### F. Approval

- (1) This technical publication has been approved by Hartzell Engine Technologies LLC.

#### G. Manpower

- (1) One (1) additional man hour for removing and reinstalling the base and fuel fittings is required at overhaul.
- (2) Four (4) man hours for removing and reinstalling the new base on to an existing Sealed Control Assembly only. (Overhaul not being performed.)

#### H. References

**CAUTION:** DO NOT USE OBSOLETE OR OUTDATED INFORMATION. ALWAYS PERFORM ALL INSPECTIONS OR WORK IN ACCORDANCE WITH THE MOST RECENT REVISION OF THE DOCUMENTS.

- (1) HET Service Information Letter SIL A-144, "65C30 Series Sealed Control Solenoid Valve Clamp Replacement".
- (2) HET 93C35 Sealed Control Overhaul & Maintenance manual for 65C30 Series latest revision.

#### I. Other Publications Affected

- (1) None

#### J. Weight and Balance

- (1) Not affected

## 2. Material Information \*\*\*

- (1) One (1) each, P/N 69C13-1 base per sealed control assembly.
- (2) Eight (8) each, Lock Nut, P/N MS20365-428A; four (4) each, seal washer, P/N 27C30; and five (5) each, gasket P/N 83A83 per assembly.
- (3) Four (4) each, gasket, P/N MS35769-8 per assembly.
- (4) One (1) each, packing, MS29513-274 per assembly.

\*\*\* Base replacement only, does not include parts for overhaul or miscellaneous repair.

# Service Bulletin

## Service Bulletin No. 051

### Replacement of P/N 69C13 Base in 65C30 Series Sealed Control Assembly

#### 3. Accomplishment Instructions

**WARNING:** THIS PROCEDURE MUST BE PERFORMED BY COMPETENT AND QUALIFIED PERSONNEL WHO ARE FAMILIAR WITH AIRFRAME MAINTENANCE THAT IS SPECIFIC TO THE AIRCRAFT HEATING SYSTEM. FAILURE TO DO SO MAY RESULT IN ECONOMIC LOSS, EQUIPMENT DAMAGE, AND/OR PHYSICAL INJURY.

**CAUTION:** DO NOT USE OBSOLETE OR OUTDATED INFORMATION. PERFORM ALL WORK IN ACCORDANCE WITH THE MOST RECENT REVISION OF THIS SERVICE BULLETIN (SB) AND THE HET 95C35 SEALED CONTROL OVERHAUL & MAINTENANCE MANUAL. ANY INSTALLATION ACTIVITY MUST BE DONE ACCORDANCE WITH THE MOST RECENT REVISION OF THE APPLICABLE AIRCRAFT MAINTENANCE MANUAL. INFORMATION CONTAINED IN THESE MANUALS OR THIS SB MAY BE SIGNIFICANTLY CHANGED FROM EARLIER REVISIONS. FAILURE TO COMPLY WITH THIS SB OR THE USE OF OBSOLETE INFORMATION MAY CREATE AN UNSAFE CONDITION THAT MAY RESULT IN DEATH, SERIOUS BODILY INJURY, AND / OR SUBSTANTIAL PROPERTY DAMAGE. REFER TO THE APPLICABLE AIRCRAFT MAINTENANCE MANUAL INDEX FOR THE MOST RECENT REVISION LEVEL OF THEIR PUBLICATIONS. REFER TO THE HET WEBSITE FOR THE CURRENT REVISION LEVELS OF HET PUBLICATIONS.

#### A. Instructions:

**NOTE 1:** Do not depend on this SB for gaining access to the Sealed Control Assembly. This instruction requires that you use the applicable aircraft manufacturer's service instruction or maintenance manual to accomplish removal and installation.

**NOTE 2:** This SB contains instructions for replacing the P/N 69C13 base with the P/N 69C13-1 base. **It does not contain complete overhaul instructions.** When repair or overhaul is being performed on a 65C30 Series Sealed Control Assembly, use of the HET/Janitrol Overhaul Manual 95C35 Rev B or latest is required. The P/N 95C35 overhaul manual contains procedures including disassembly, inspection, assembly, and testing.

#### **Preparation:**

- (1) Assemble standard aircraft hand tools including wrenches, screw drivers, safety wire pliers, ratchet and socket set (size as appropriate). Also needed are a light source of at least 1,700 lumens (100 watt equivalent) and a 5X to 10X magnifying glass.
- (2) Place the complete Sealed Control Assembly with the base up (fuel fittings face up) in a clean area on a suitable work bench clear of other parts and non-related equipment. Be sure to cap the inlet and outlet fittings.

# Service Bulletin

## Service Bulletin No. 051

### Replacement of P/N 69C13 Base in 65C30 Series Sealed Control Assembly

#### Disassembly:

- (1) Disassemble by use of the HET/Janitrol Overhaul Manual 95C35 Rev B or latest. All numbers (#) referenced correspond with items listed in the exploded view of the above manual.

#### **NOTE:**

It should be noted that the base is heavy as it contains a fuel pump, fuel filter, pressure relief valve, fuel regulator and the fuel Solenoid Valve Assembly. When the base is being removed from the jacket/cover, care must be taken not to drop it.

- (2) Using the instructions found in the P/N 95C35 manual, proceed with complete disassembly of the old base.
  - (a) Remove electrical connectors and harness.
  - (b) Remove all components from old base.
  - (c) Retain all clamps and connecting hardware, discard the old base P/N 69C13.

#### Inspection:

- (1) Inspection to be performed by qualified and competent persons using the HET/Janitrol Overhaul Manual 95C35 Rev B or latest.

#### Assembly:

- (1) Install new P/N 69C13-1 base as shown in Figure 1.
- (2) Using the assembly instructions found in the P/N 95C35 manual, build the assembly on the new P/N 69C13-1 base. In general, assembly is done in reverse of disassembly per the 93C95 manual with two exceptions.
  - (a) When installing the fuel inlet fitting (union is on fuel filter #75) through the new base, install the existing washer (#69) and a new copper gasket (#68), P/N MS35769-8 on the fitting, then place the two flats of the fuel filter in the bracket as shown in Figure 1.
    - (i) When installing the fuel outlet fitting (union is on fuel solenoid valve #52) through the new base, install the existing washer (#48) and a new copper gasket (#47), P/N MS35769-8 on the fitting. The fuel outlet is clamped in place and does not use an additional bracket.
  - (b) When fuel inlet fitting is through the new base, place a new copper gasket (#68), P/N MS35769-8 on the fitting, place the existing shroud (#67) on the fitting, and install nut (#66). Torque fitting nut to 170 +/- 5 inch pounds.
    - (i) When fuel outlet fitting is through new base, place a new copper gasket (#47), P/N MS35769-8 on fitting, place the existing shroud (#46) on the fitting, and install nut (#45). Torque fitting nut to 170 +/- 5 inch pounds.

# Service Bulletin

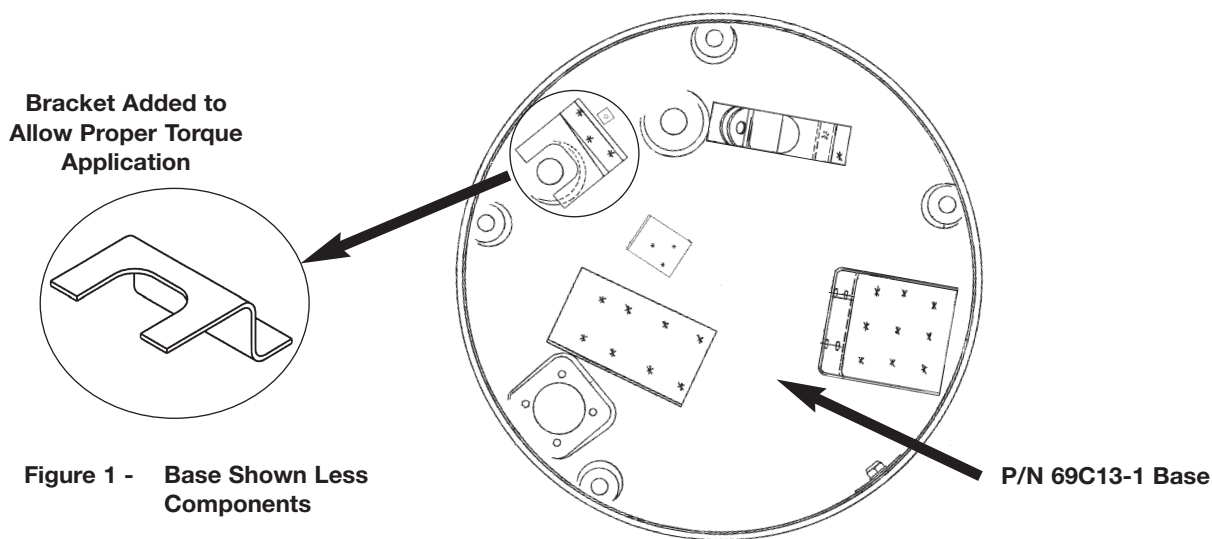
## Service Bulletin No. 051

### Replacement of P/N 69C13 Base in 65C30 Series Sealed Control Assembly

#### Testing:

**NOTE:** Testing required in the P/N 95C35 overhaul and maintenance manual for the Sealed Control Assembly assumes that individual components have been tested prior to assembly on the base per their applicable manuals or instructions. The Sealed Control Assembly fuel tests are done with the base assembly complete and the pressure tests are done with the Sealed Control Assembly completely assembled.

- (1) If overhauled, refer to the testing instructions found in the P/N 95C35 manual for complete testing of components and assembly prior to return to service.
- (2) If repaired by replacement with a P/N 69C13-1 base, using the instructions contained in the P/N 95C35 manual, test the base assembly for fuel leaks and pressure test the complete Sealed Control Assembly prior to return to service.



#### D. Return to Service

- (1) Before operating the installed heater, pressurize the heater fuel system lines and check lines and fittings to ensure no leaks exist. Be sure all air intake scoops, air ducts, and exhaust tubes are clean and free of debris. Utilize the applicable and most recent aircraft service instructions or maintenance manual as required.
- (2) Place the aircraft outside or in a well ventilated area and perform a normal heater start, run, and shutdown. Utilize the most recent aircraft AFM or POH to determine the procedure for proper operation.
- (3) Using the applicable aircraft manufacturer's maintenance manuals of the latest revision, install any portion of the aircraft that was removed to gain access.

E. Upon successful completion of this Service Bulletin per the applicable compliance action listed, make an appropriate log book entry noting compliance with this Service Bulletin as terminating action.

# Service Bulletin

## Service Bulletin No. 051

### **Replacement of P/N 69C13 Base in 65C30 Series Sealed Control Assembly**

#### 4. Contact Information:

- A. All communications regarding this Service Bulletin, must be placed either through Hartzell Engine Technologies Technical Support at (888) 461-6077 or via Fax (334) 386-5450. For the Warranty department, (334) 386-5441.
- B. Written communications must be placed through Hartzell Engine Technologies Technical Support, 2900 Selma Highway, Montgomery, AL 36108, USA.
- C. If E-mail communication is desired, go to our website: <http://www.HartzellEngineTech.com> and select "contact" and follow instructions or e-mail [techsupport@hartzellenginetech.com](mailto:techsupport@hartzellenginetech.com).
- D. All current Service Bulletins or Service Letters may be viewed and/or printed by going to our website: <http://www.hartzellenginetech.com>. From the home page, go to "Technical Support", Service Bulletins, and select the product line and publication you are interested in.

***No commercial assistance or warranty applies to this Service Bulletin.***