



A Textron Company

ALERT SERVICE BULLETIN

214-12-72

6 January 2012

**MODEL AFFECTED:** 214B/B-1

**SUBJECT:** ENGINE – FUEL SYSTEM – INCORRECTLY  
MAINTAINED FUEL CONTROLS

**HELICOPTERS AFFECTED:** Serial number 28001 through 28070.

**COMPLIANCE:** See attached bulletin

**DESCRIPTION:**

The purpose of this bulletin is to achieve complete distribution of the attached vendor bulletin to the current affected model distribution list on record by Bell Helicopter.

**APPROVAL:**

See attached bulletin

**CONTACT INFO:**

For any questions regarding this bulletin, please contact:

Honeywell Global Technical Operations Center. See following website for contact information:

<https://portal.honeywell.com/wps/portal/aero/support/techoperations>

# Honeywell

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## SERVICE BULLETIN

**ENGINE – FUEL SYSTEM – INCORRECTLY MAINTAINED FUEL CONTROLS**

**ALERT CATEGORY 1, Safety**

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ECCN: 9E991, NLR Eligible.

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## SERVICE BULLETIN

T5508D Part No. 2-000-030-28

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# T5508D-A0048

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# Honeywell SERVICE BULLETIN

T5508D Part No. 2-000-030-28

## Transmittal Information

Honeywell Pub. No. T5508D-A0048

## Summary

Initial release

## Revision History

Refer to Table below.

### Service Bulletin Revision History

Revision	Date of Release
Initial Release	26 Aug 2011

26 Aug 2011

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T5508D Part No. 2-000-030-28

### 1. Planning Information

#### A. **Effectivity**

- (1) This is an ALERT CATEGORY 1, Safety Service Bulletin.
- (2) This service bulletin applies to the following engine models:

<u>Part Number</u>	<u>Engine Model No.</u>	<u>Serial No.</u>	<u>Application</u>
2-000-030-28	T5508D	All	Bell 214B-1

#### B. **Concurrent Requirements**

- (1) Not applicable.

**WARNING: FAILURE TO COMPLY WITH THIS SERVICE BULLETIN COULD CAUSE DISRUPTION OF FUEL CONTROL OPERATION AND A CORRESPONDING LOSS OF, OR REDUCTION IN, ENGINE POWER AND SERIOUS INJURY OR DEATH TO PERSONNEL AND DAMAGE TO, OR LOSS OF, THE AIRCRAFT.**

#### C. **Reason**

- (1) The Honeywell Prince Edward Island facility has converted Part No. 2-160-620-21 units to the Part No. 2-160-620-22 configuration for several years. These conversions were not done so in accordance with the fuel control manufacturer's continuing airworthiness instructions. Instead, the units were overhauled using the manual applicable to Part No. 2-160-620-21. These fuel controls therefore do not incorporate the product improvements of the -22 configuration, which are the basis for the -22 configuration's time between overhaul (TBO) extension from 1800 hours to 2400 hours. These controls do not conform to their Authorized Release Certificates and must be removed from service and returned to Prince Edward Island for a complete overhaul and re-identification as a Part No. 2-160-620-21 configuration, or returned to Hamilton Sundstrand for an overhaul and upgrade to a Part No. 2-160-620-22 configuration in accordance with the applicable technical documentation or continuing airworthiness instructions. (See Section 4 Appendix, Table 1.)
- (2) When the Honeywell Prince Edward Island repair station overhauled fuel controls, Part No. 2-160-620-21, (including the controls that were converted to the Part No. 2-160-620-22 configuration, as discussed in Para C. (1)), the N2 linkage position adjustment group sub-assembly within the fuel control was not always completely disassembled for inspection. One instance has occurred where a portion of the sub-assembly in an overhauled unit fractured. If this occurred in other controls, it is possible that their full functionality could be impaired. These controls must be removed from service and returned to Hamilton Sundstrand for overhaul in accordance with the applicable Hamilton Sundstrand technical documentation or continuing airworthiness instructions. (See Section 4 Appendix, Table 1.) Units that were not converted to the -22 configuration may be returned to the Honeywell Prince Edward Island repair station for overhaul.

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- (3) All fuel controls previously converted by Hamilton Sundstrand from Part No. 2-160-620-21 to Part No. 2-160-620-22 that were subsequently serviced (repaired or overhauled) by the Honeywell Prince Edward Island repair station have not been maintained in accordance with applicable continuing airworthiness instructions. Honeywell Prince Edward Island does not possess the required documentation to perform maintenance on Part No. 2-160-620-22 fuel controls. These controls must be removed from service and returned to Hamilton Sundstrand for service in accordance with the applicable Hamilton Sundstrand technical documentation or continuing airworthiness instructions. (See Section 4 Appendix, Table 2.)
- (4) The appendix lists the serial numbers of the affected controls and the schedule for their removal from service.

### D. Description

- (1) This service bulletin provides instructions for fuel controls maintained by the Prince Edward Island facility and the schedule for removal of the control from service.

### E. Compliance

- (1) Compliance addresses safety. Honeywell recommends that this service bulletin be complied with within the schedule in the appendix.
- (2) Affected fuel controls that have complied with service bulletin T5508D-0047 must also comply with this service bulletin, T5508D-A0048. Affected fuel controls that have not complied with either service bulletin must comply with this service bulletin, T5508D-A0048, (i.e., compliance with this service bulletin, T5508D-A0048, implies compliance with service bulletin T5508D-0047; however, compliance with service bulletin T5508D-0047 does not imply compliance with this service bulletin T5508D-A0048).

### F. Approval

- (1) The accomplishment instructions section in this service bulletin is FAA approved.

### G. Manpower

- (1) Not applicable.

### H. Weight and Balance

- (1) Not applicable.

### I. Electrical Load Data

- (1) Not applicable.

### J. Software Accomplishment Summary

- (1) Not applicable.

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### K. References

- (1) The sources of information used in the preparation of this service bulletin include; Honeywell engineering documentation and the publications listed below.

<u>Engine Model No.</u>	<u>Maintenance Manual No.</u>	<u>Overhaul Manual No.</u>	<u>Illustrated Parts Catalog No.</u>	<u>Component Maintenance Manual No.</u>
T5508D	T5508-2	T5508-3	T5508-4	F3120

- (2) Service bulletin and commercial service letter references;

T5508D-0001, Engine and Fuel Control Time Between Overhaul (TBO) and Engine Time Between Inspections

### L. Other Publications Affected

- (1) Not applicable.

### M. Interchangeability or Intermixability of Parts

- (1) Not applicable.

## 2. Material Information

### A. Material - Price and Availability

- (1) Not applicable.

### B. Industry Support Information

- (1) Not applicable.

### C. Material Necessary for Each Engine

- (1) Not applicable.

- (2) Material to be supplied by the operator:

- (a) Not applicable.

### D. Material Necessary for Each Spare

- (1) Not applicable.

### E. Reidentified Parts

- (1) Not applicable.

### F. Tooling - Price and Availability

- (1) Not applicable.



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**NOTE:** To obtain satisfactory results, procedures in this service bulletin must be accomplished in accordance with accepted industry maintenance practices and prevailing government regulations. Honeywell is not responsible for the quality of work performed in complying with this service bulletin unless Honeywell performs such work. Such responsibility rests with the entity performing the work and the owner or operator. Refer to the instructions found in the applicable manuals in paragraph 1.K.

### 3. Accomplishment Instructions

- A. Remove engine cowling as necessary to gain access to the Fuel Control Data Plate, or review the engine logbook to determine the serial number of the fuel control. If the serial number of the fuel control is listed in the appendix determine the time remaining before the control shall be removed from service.
- B. Compliance with this Service Bulletin must be recorded in the Engine Logbook and the Service Bulletin Compliance Records. Complete and return the Notice of Service Bulletin Compliance (attached) to Honeywell.

### 4. Appendix

- A. The serial numbers of the fuel controls listed in Table 1 must be removed from service within 250 operating hours or twelve months - whichever occurs first - from the issue date of this bulletin and must not exceed 1800 operating hours since last overhaul. These controls must be re-identified as a Part No. 2-160-620-21 unless they are upgraded to Part No. 2-160-620-22 controls by Hamilton Sunstrand.

Table 1. Fuel Controls to be Removed from Service within 250 Operating Hours or 12 Months, Not To Exceed 1800 Operating Hours Since Last Overhaul

Fuel Control Serial Numbers			
143A	86667	87460	95392
83634	86675	90047	97418
83975	86828	94709	
85939	86964	95079	

- B. The serial numbers of the fuel controls listed in Table 2 must be removed from service within 25 operating hours or three months - whichever occurs first - from the issue date of this bulletin and must not exceed 2400 operating hours since last overhaul.

Table 2. Fuel Controls to be Removed from Service within 25 Operating Hours or 3 Months, not to exceed 2400 Operating Hours Since Last Overhaul

Fuel Control Serial Numbers		
85467	87456	95076
86304	87676	95077

NOTICE OF SERVICE BULLETIN COMPLIANCE

Honeywell International Inc.  
503-320  
Attn: William Kellogg  
111 South 34th St., PO Box 52181  
Phoenix, Arizona 85034, USA

or

E-mail the compliance sheet to:  
William.Kellogg@Honeywell.com

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DEAR SIR:

This is to inform you that the service bulletin has been complied with as indicated below:

SERVICE BULLETIN _____	REVISION _____	DATE _____
Engine Model _____	Serial # _____	Hours _____ Cycles _____
Module _____	Serial # _____	Hours _____ Cycles _____

Components Removed:

Part Number _____	Serial # _____	Hours _____	Cycles _____
Part Number _____	Serial # _____	Hours _____	Cycles _____

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Very truly yours,

Name of Technician: \_\_\_\_\_

Operator Name: \_\_\_\_\_

Telephone Number: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

E-Mail Address: \_\_\_\_\_

Honeywell International Inc.  
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Attn: William Kellogg  
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USA

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