

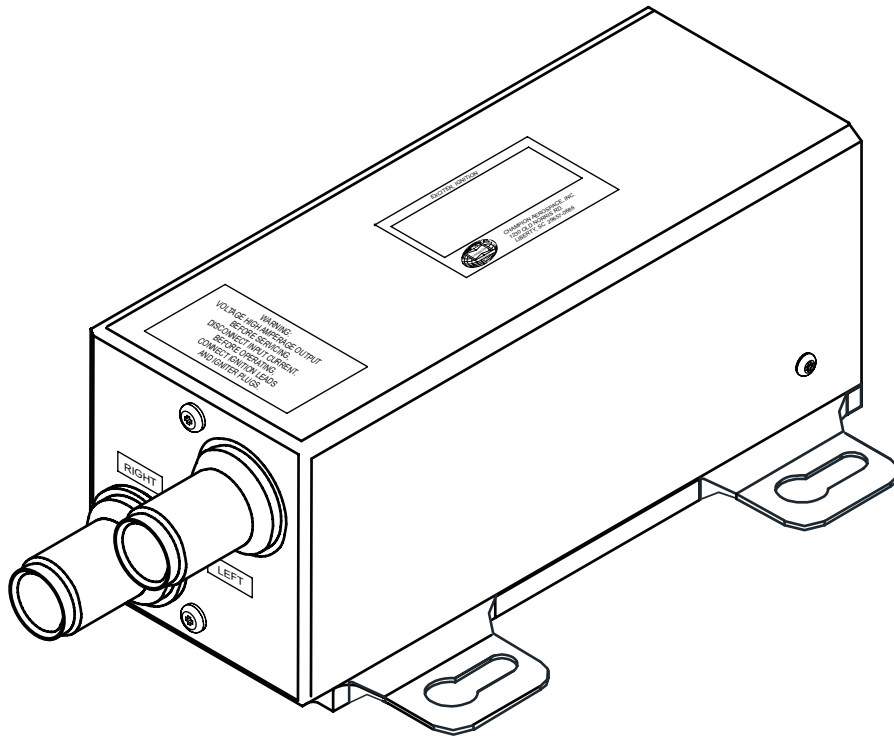


# SERVICE BULLETIN

MODEL APPLICATION

HTF-7000

## TURBOFAN ENGINE IGNITION EXCITER - REPLACEMENT OF



Issued by  
Champion Aerospace LLC  
1230 Old Norris Road  
Liberty, SC/USA 29657

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## 1. PLANNING INFORMATION

### A. Effectivity

- (1) Units Affected: This service bulletin applies to all Champion ignition exciters CH92074-2 (Honeywell P/N: 3038100-5) using Pulse Power Thyristor (PPT) ignition switches. These exciter units are used on the HTF-7000 turbofan engines.

### B. Concurrent Requirements

None.

### C. Reason

#### (1) Problem/Condition:

The ignition exciter's Pulse Power Thyristor (PPT) yield (life-cycle) is low.

#### (2) Evidence:

- a. The beryllium oxide substrate is no longer used. (Obsolete)
- b. The current switch technology used (a single deep defused die) is outdated.

#### (3) Solution:

Replace the ignition exciter with one that has a Silicon Power Ignition Discharge Exciter (SPIDER) switch that has a thicker base made from aluminum nitride and is produced from multiple dies using planar technology. This requires re-configuration of the pulse-forming network capacitors to accommodate for the higher output voltage from the SPIDER switch.

### D. DESCRIPTION

Replace existing ignition exciter with new exciter with additional improvements, as listed in Para. 1.C.(3)., Solution.

### E. COMPLIANCE

CATEGORY 7 - You can do this service bulletin when the supply of superseded parts is fully used.

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F. APPROVAL

D.O.T/D.A.A/F.A.A approved.

G. WEIGHT AND BALANCE

Not Affected.

H. ELECTRICAL LOAD DATA

Not Affected.

I. SOFTWARE ACCOMPLISHMENT SUMMARY

Not Affected.

J. REFERENCES

- Applicable P&WC Technical Manuals
- Champion Aerospace Component Maintenance Manual (CMM) 74-11-10

K. PUBLICATIONS AFFECTED

- Champion Aerospace CMM 74-11-10
- Applicable Honeywell Technical Manuals

L. INTERCHANGEABILITY AND INTERMIXABILITY OF PARTS

- Interchangeability - Refer to Para. 2. (D).
- Intermixability - Not Affected.

2. MATERIAL INFORMATION

A. Industry Support Information

Not Applicable.

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### B. Material - Cost and Availability

As of April 2010, inoperative units should be replaced by new at cost of OH/Repair.

Procurable parts listed in Para. 2. (D) can be obtained from any Champion Aerospace Distributor.

### C. Manpower

An estimate of 1.0 man-hours are required to complete this service bulletin.

### D. Material Necessary for Each Engine

The quantity of materials listed in this section is on a per engine basis.

New P/N	Keyword	Old P/N	Qty	Est. Unit List Price (\$US, 2011)	Disposition Instructions
	Exciter, Ignition (0AFL4) Honeywell P/N: 3038100-5	CH92074-2	1		(A)
CH92074-6	Exciter, Ignition (0AFL4) Honeywell P/N: 3038100-6		1	(Quote)	(A)
(A) TWO WAY INTERCHANGEABLE - (ATA 200 Explanation Code 02): The old or the new part can replace the old or the new part.					

### E. Reidentified Parts

None.

### F. Tooling - Price and Availability

Not Applicable.

## 3. ACCOMPLISHMENT INSTRUCTIONS

### A. PROCEDURE

- (1) Remove ignition exciter listed under Old P/N in Para.2.(D)., in accordance with applicable Honeywell manuals.
- (2) Install ignition exciter listed under Old P/N in Para.2.(D)., in accordance with applicable Honeywell manuals.

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