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SERVICE INFORMATION LETTER

Airworthiness Directive (AD) 2005-05-15 Compliance Deadline for Certain TFE731 Low Pressure Turbine (LPT) Stage 1 Disks

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Transmittal Information

Publication Number D201104000055

Summary

This is the INITIAL release.

Revision History

This service information letter has had no revision(s) as shown in Table 1.

Table 1. Revision History

Revision Number	Revision Date
0	27 Jun 2011

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1. General Information

A. Effectivity

(1) This service information letter (SIL) refers to turbofan aircraft engines that are affected by AD 2005-05-15 and those specifically with a 31 Dec 2011 compliance deadline. Refer to Table 2. The service bulletins found in Table 3 must be consulted for a list of all engines affected by the AD and any changes to Effectivity.

Table 2. Turbofan Aircraft Engines Referenced in AD 2005-05-15 with a 31 Dec 2011 Compliance Deadline

PN	Model Number	Serial Number [1]	Application
3072800-1, -2, -4, -5	TFE731-3-1C	NA	Falcon 50
3072300-1, -2, -4	TFE731-3-1E	NA	731 Jetstar/L1329
3072600-1, -3	TFE731-3-1F	NA	Jetstar II/L1329
3072500-1, -2, -4	TFE731-3-1G	NA	Westwind 1124
3072900-2, -3, -4, -6, -7, -8	TFE731-3-1H	NA	BAe HS125-SERIES
3074850-1, -3	TFE731-3-1K	NA	Jetstar II/L1329 (Springfield)
3074100-3, -6, -9	TFE731-3A-2B	NA	Learjet 55
3074100-4, -7, -10	TFE731-3A-2B1	NA	Learjet 55
3074800-1, -4, -7	TFE731-3AR-2B	NA	Learjet 55
3074800-2, -5, -8	TFE731-3AR-2B1	NA	Learjet 55
3074800-9	TFE731-3AR-2B2	NA	Learjet 55
3074800-10	TFE731-3AR-3B	NA	Learjet 55
3074800-11	TFE731-3AR-3B1	NA	Learjet 55
3074800-12	TFE731-3AR-3B2	NA	Learjet 55
3074800-13	TFE731-3AR-3B	NA	Learjet 55
3074800-14	TFE731-3AR-3B1	NA	Learjet 55
3074800-15	TFE731-3AR-3B2	NA	Learjet 55
3074400-1, -2, -4, -5, -6, -8	TFE731-3B-100S	NA	Citation III/VI
3073400-1, -2, -4, -5, -6, -8	TFE731-3BR-100S	NA	Citation III/VI
3073750-2, -3	TFE731-3R-1D	NA	Sabreliner 65/65A (NA-265-65)

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Table 2. Turbofan Aircraft Engines Referenced in AD 2005-05-15 with a 31 Dec 2011 Compliance Deadline (Cont)

PN	Model Number	Serial Number [1]	Application
3074910-1 thru -4	TFE731-3R-1G	NA	Westwind 1124
3074000-1 thru -6	TFE731-3R-1H	NA	BAe HS125-SERIES

NOTE:

1. Improvements provided by the respective service bulletins found in Table 3 have not been incorporated into production units. These are field (aftermarket) installations only. New (never operated in an engine) and used (previously operated in an engine) LPT stage 1 rotor discs, PN 3072351-All, and spare parts/shelf stock are to be scrapped.

B. Reason

(1) To notify operators of certain TFE731-3 series engines that a critical compliance deadline is approaching for Federal Aviation Administration (FAA) AD 2005-05-15.

(2) To notify operators that immediately planning and scheduling of the engine shop visits and parts replacements are required to minimize impact to flight department operations due to non-compliance of the AD.

(3) **Problem**

(a) FAA Airworthiness Directive, AD 2005-05-15, which affects certain TFE731 turbofan engine models has had lower than anticipated service bulletin and AD compliance rates for affected engines. Per the AD, the replacement of LPT stage 1 discs for affected TFE731-3, -3A, -3AR, -3R, -3B, and -3BR series engines must be performed by no later than 31 Dec 2011. The AD is available through the FAA web site at www.faa.gov.

(4) **Solution**

(a) TFE731 operators should review applicable service bulletins and the AD to determine which engines are affected and whether they still require compliance. If compliance is required, immediately contact your TFE731-authorized Service Center to schedule the inspections and part replacements between now and 31 Dec 2011.

(b) Service Center network engine shop capacity must be considered for this hot section entry, and there is a significant manufacturing lead time for the LPT stage 1 disc. Forecasting your shop visit immediately will provide improved logistical support for hardware, shop, and labor availabilities.

C. References

(1) Please refer to AD 2005-05-15 and the service bulletins listed in Table 3 for additional details. Service bulletins are available on the Honeywell portal at www.myaerospace.com.

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Table 3. Service Bulletins Referenced in AD 2005-05-15

Service Bulletin	Engine Series
TFE731-72-3508 [2]	TFE731-3B, -3BR [1 2]
TFE731-72-3704	TFE731-2, -2C
TFE731-72-3705	TFE731-3, -3A, -3AR, -3R [1]
TFE731-72-3706	TFE731-2-2, -3-1

NOTES:

1. Engine series affected by 31 Dec 2011 compliance deadline.
2. Engine series is listed in AD with a terminating action of converting the engine to TFE731-3C series engine, but listed TFE731-3C conversion service bulletin is not referenced in the AD.

D. Summary

(1) Service Centers may be unable to accommodate engines scheduled at the last minute to meet the operator's need to comply with AD requirements. This may negatively impact flight department operations.

E. Action

(1) Operators should review respective TFE731-3 fleets for AD 2005-05-15 effectivity and compliance.

(2) For affected engines that have not yet been completed or scheduled for the AD compliance date of 31 Dec 2011, operators should immediately contact a Honeywell-authorized TFE731 Service Center to schedule the shop visit and forecast applicable hardware for the visit.

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