CT7-2E Service Bulletins (SBs) SB 72-A0028 R01 ENGINE - Stages 1 and 2 Low-Stress GGT Rotor Assembly (72-41-00) - CT7-2E1 R88 Contaminated Hardware Replacement

(%)CT7-2E1 ALERT SERVICE BULLETIN - 72- A0028 R01

SB 72-A0028 R01 ENGINE - STAGES 1 AND 2 LOW-STRESS GGT ROTOR ASSEMBLY (72-41-00) - CT7-2E1 R88 CONTAMINATED HARDWARE REPLACEMENT

Revised: 11/15/2023 Issued: 02/01/2023

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TRANSMITTAL INFORMATION

REVISION 1 TO ALERT SERVICE BULLETIN 72-A0028

Revision 1 is issued to update paragraph 1.A. to remove engine serial numbers that are not impacted by this Alert Service Bulletin and to update the list of impacted hardware. The impacted hardware is stage 1 turbine disk. All previous recommended hardware is removed from this Alert Service Bulletin. Revision 1 is also issued to update the distribution. The original was issued February 1, 2023. Revision bars in the left margin identify

1. PLANNING INFORMATION

A. <u>Effectivity</u>

* * * CT7-2E1

changes.

This Alert Service Bulletin is applicable to these CT7-2E1 engines: CT7-2E1 engines, serial numbers 780271, 780272, 780277, 780278, 780280, 780286, 780288, 780291, 780297, 780301, 780302, 780313, 780353, 780354, 780356, 780357, 780359, 780360, and spares.

These serial numbers are the best available data.

B. <u>Description</u>

This Alert Service Bulletin provides notification of non-conforming stage 1 turbine disks as listed in Table 1.

C. <u>Compliance</u>

Category 2

GE recommends compliance with this Alert Service Bulletin as follows: for engines listed in Table 1, remove/scrap the stage 1 disk from service at next piece part exposure or before accruing 6,360 cycles whichever comes first. Impact B

This recommendation is to address a condition that may result in an increased rate of In-Flight Shutdowns (IFSD), Take-off Aborts (TOA), Air Turn Backs (ATB), or Diversions (DIV).

NOTE: This Service Bulletin can be done in shop.

D. <u>Concurrent Requirements</u>

None.

E. <u>Reason</u>

(1) Objective:

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To provide notification of non-conforming stage 1 turbine disks.
        (2) Condition:
            An investigation has revealed a quality escape involving stage 1 turbine disks utilized on
           the CT7-2E1 engine line. An investigation into the issue has revealed a population of stage
            1 turbine disks that have been shipped on production engines, as part of a matched rotor
            stator assembly. The stage 1 turbine disks non-conformance is an unintended particle
           contamination introduced at a supplier during the processing of the raw material used to
           manufacture the disks.
        (3) Cause:
            The stage 1 turbine disks non-conformance is an unintended particle contamination
            introduced at a supplier during the processing of the raw material used to manufacture the
           disks.
        (4) Improvement:
           Not applicable.
        (5) Substantiation:
           Substantiation is by analysis.
   F. <u>Approval</u>
       The data contained in this Alert Service Bulletin has been reviewed by the FAA
       or authorized entity representing the FAA and the repair(s) and modification(s)
       herein comply with the applicable Aviation Regulations and are APPROVED for
       installation in the model(s) listed in this Alert Service Bulletin.
   G. Manpower
       You will need approximately 16 man-hours to do this Alert Service Bulletin.
   H. Weight and Balance
       Weight and balance are not changed.
   I. <u>References (Use the latest version of these documents)</u>
       CT7 Turboshaft Engine Service Record
       GEK 112043-02, CT7-2E1 Maintenance Manual (MM)
       GEK 112044-02, CT7-2E1 Shop Manual (SM)
   J. <u>Publications Affected</u>
       CT7 Turboshaft Engine Service Record
   K. Interchangeability
       If parts are removed, they can be replaced with conforming parts.
   L. Software Accomplishment Summary
       Not applicable.
2. <u>MATERIAL INFORMATION</u>
   A. <u>Material - Price and Availability</u>
        (1) Parts necessary to do this Service Bulletin:
                                                                       Unit ($)
                                                                                         Lead Time
                                                                                 Pkq
                     Qty/
Part Number
                            Part Name
                                                                       Price
                                                                                         Davs
                     Eng
                                                                                 Otv
Operator Facility:
5176T38G01
                            Matched Assembly, High Pressure Turbine
                     (1)
                                                                       Quote
                                                                                  ( - )
                                                                                         Quote
MRO Facility:
4185T13P01
                            Stage 1 Turbine Disk
                                                                                         Quote
                     (1)
                                                                       Ouote
                                                                                  (-)
       NOTE: Prices are provided for planning purposes and are subject to change.
        (2) Other Spare Parts:
           None.
        (3) Consumables:
           None.
   B. Industry Support Information
       Contact your GE Customer Service Manager.
   C. Configuration Chart
       Not applicable.
   D. Parts Disposition
   NOTE: GE recommends that you comply with this Alert Service Bulletin at the next piece part exposure
        for the parts listed in Table 1.
        Send all parts removed to:
         GE Aviation
        Attention: Product Support Engineering
        MZ 37402
         1000 Western Avenue
        Lynn, MA 01910
   E. <u>Tooling - Price and Availability</u>
       None.
   ACCOMPLISHMENT INSTRUCTIONS
3.
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NOTE	E:GE recommends that you comply w	ith this Alert Servic	e Bulletin at the next	piece part exposur			
No	or prior to accruing 6,360 cycles, whichever comes, first for the parts listed in Table 1.						
	Removal of the gas generator assembly from the engine for cleaning or access to the combus liner or stage 1 nozzle does not constitute piece part exposure.						
	(1) Remove the gas generator turbine rotor and stator assembly containing the potentially non-conforming stage 1 turbine disks (refer to figure 1). Refer to CT7-2E Maintenance						
	00-400-801,						
(2) Install a replacement matched gas generator turbine rotor and stator assembly 1 5176T38G01. Refer to CT7-2E Maintenance Manual, GEK 112043-02, 72-40-00, REMOVE INSTALLATION, TASK 72-40-00-400-801, applicable paragraphs.							
	(3) Tag the removed matched gas generator turbine rotor and stator assembly with "Remove non-conforming hardware in compliance with CT7-2E1 Alert Service Bulletin 72-A0028".						
	(4) Send the matched gas generator turbine rotor and stator assembly and associated logbo pages to an approved GE MRO Facility.						
	engine logbook.						
в.	MRO Facility:	Facility:					
NOTE	NOTE: GE recommends that you comply with this Alert Service Bulletin at the next piece part exp						
	or prior to accruing 6,360 cycles, whichever comes first, for the parts listed in Table 1. (1) Upon receipt of the matched gas generator turbine rotor and stator assembly, removed in						
	compliance with CT7-2E1 Alert Service Bulletin 72-A0028, remove the hardware liste Table 1. Refer to CT7-2E Shop Manual, GEK 112044-02, 72-41-00, DISASSEMBLY, TASK						
 72-41-00-030-801. (2) Install replacement stage 1 turbine disks. Refer to CT7-2E Shop Manual, GEK 112 72-41-00, ASSEMBLY, TASK 72-41-00-430-801. (3) Send all parts listed in Table 1 to GE Product Support Engineering: 							
							GE Aviation
	Attention: Product Support Engineering						
	1000 Western Avenue						
	Lypp MA 01910						
C.	Lynn, MA 01910 Service Record Entry						
C.	Lynn, MA 01910 Service Record Entry Record compliance with this	s Alert Service Bu	lletin in the appr	opriate CT7			
C.	Lynn, MA 01910 Service Record Entry Record compliance with this Turboshaft Engine Service I	s Alert Service Bu Record.	lletin in the appr	opriate CT7			
C.	Lynn, MA 01910 Service Record Entry Record compliance with this Turboshaft Engine Service I TABLE 1 - LIST OF AFFE	s Alert Service Bu Record. CTED CT7-2E1 SERIA	lletin in the appr AL NUMBERS AND COMP	opriate CT7 PONENTS			
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C.	Lynn, MA 01910 Service Record Entry Record compliance with this Turboshaft Engine Service I TABLE 1 - LIST OF AFFE COMPONENT NOMENCLATURE Stage 1 Turbine Disk Stage 1 Turbine Disk	Alert Service Bukecord. CTED CT7-2E1 SERIA COMPONENT PART NUMBER 4185T13P01	Iletin in the appr AL NUMBERS AND COMP COMPONENT SERIAL NUMBER GATJ8AD9 GATJ8AD4 GATJ8AD4 GATJ8AD4 GATJ8AD4 GATJ8AD4 GATJ8AD4 GATJ8CK5 GATJ8CK5 GATJ8AD1 GATJ8AD5 GATJ92KJ GATJ92KJ GATJ92KH GATJ92KH GATJ92KH GATJ92KH GATJ92KH GATJ92KH GATJ92KH GATJ8AD8 GATJ92KH GATJ8AD8 GATJ92KL GATJ8AD6 GATJ92KD TMT1NEL7 TMT1NEL5 TMT1NEL3 GATJ8CK1 TMT1NEL1	OPTIALE CT7 ONENTS ENGINE SERIAL NUMBER 780271 780272 780277 780278 780280 780280 780286 780286 780288 780291 780291 780297 780301 780301 780302 780313 780353 780354 780356 780357 780359 780360			
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C.	Lynn, MA 01910 Service Record Entry Record compliance with this Turboshaft Engine Service I TABLE 1 - LIST OF AFFE COMPONENT NOMENCLATURE Stage 1 Turbine Disk Stage 1 Turbine Disk	Alert Service Bukecord. CTED CT7-2E1 SERIA COMPONENT PART NUMBER 4185T13P01 4185T13P01	Iletin in the appr AL NUMBERS AND COMP COMPONENT SERIAL NUMBER GATJ8AD9 GATJ8AD9 GATJ8AD4 GATJ8AD4 GATJ8CK5 GATJ8AD1 GATJ8C54 GATJ92KJ GATJ92KH GATJ92KH GATJ92KH GATJ92KH GATJ92KE GATJ92KE GATJ92KD TMT1NEL7 TMT1NEL5 TMT1NEL3 GATJ8CK1 TMT1NEL1 CDAAR57P	ODPIIALE CT7 ENGINE SERIAL NUMBER 780271 780271 780272 780277 780278 780280 780280 780286 780286 780286 780286 780291 780301 780301 780301 780301 780301 780354 780353 780354 780354 780355 780355 780355 780355 780355 780355			

Stage 1 Turbine Disk

Stage 1 Turbine Disk

Stage 1 Turbine Disk

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4185T13P01

4185T13P01

4185T13P01

CDARNEUU

CDARNEUW

CDARNEW0

Spares

Spares

Spares

CT7-2E Service Bulletins (SBs) SB 72-A0028 R01 ENGINE - Stages 1 and 2 Low-Stress GGT Rotor Assembly (72-41-00) - CT7-2E1 R88 Contaminated Hardware Replacement

	Stage 1 Turbine Disk	4185T13P01	GATJ92KF	Spares			
	Stage 1 Turbine Disk	4185T13P01	TMT1NEL0	Spares			
	Stage 1 Turbine Disk	4185T13P01	TMT1NEL2	Spares			
	Stage 1 Turbine Disk Stage 1 Turbine Disk STAGE 1 TURBINE FWD COOLING PLATE STAGE 2 TURBINE FWD COOLING PLATE STAGE 2 TURBINE FWD COOLING PLATE	A185T13P01 TABLE 2 - DELETEI STAGE COOLIN DISK STAGE 2 TURE DISK	TMTINEL2	Spares Spares			
	Stages 1 and 2 Low-Stress	GGT Rotor Assembl	ly Disks and Coolin	ng Plates			
Figure 1 GE Designated: - CONFIDENTIAL Subject to the restrictions on the media							
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