

**ALERT SERVICE BULLETIN**

**Bell Helicopter** **TEXTRON**

A Subsidiary of Textron Inc.

**NO.** 222U-03-67

**DATE** June 26, 2003

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**DATE**

**REV**

**MODEL AFFECTED:** 222U

**SUBJECT:** HONEYWELL LTS 101 ENGINE, REPLACEMENT OF FUEL SYSTEM POWER TURBINE GOVERNOR SPOOL BEARING PART NO. 2523973.

**HELICOPTERS AFFECTED:** All Model 222U helicopters

**COMPLIANCE:** In accordance with Honeywell Service Bulletin No. LTS101-73-20-A0231

**DESCRIPTION:**

Honeywell has released Service Bulletin No. LTS101-73-20-A0231 for the replacement of the power turbine governor spool bearing part no. 2523973.

The Honeywell service bulletin provides instructions for removal of a suspect power turbine governor and installation of a power governor with a known acceptable spool bearing assembly.

Failure to comply with the service bulletin could result in distress of the power turbine governor bearing. This distress could result in a loss of engine power.

**APPROVAL:**

Not Required

**MANPOWER:**

Refer to Honeywell Service Bulletin No. LTS101-73-20-A0231 for manpower estimate to replace the power turbine governor.

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**MATERIAL:**

Refer to Honeywell Service Bulletin No. LTS101-73-20-A0231.

**SPECIAL TOOLS:**

None required

**WEIGHT AND BALANCE:**

Not Affected

**ELECTRICAL LOAD DATA:**

Not affected

**REFERENCES:**

Honeywell Service Bulletin No. LTS101-73-20-A0231.

**PUBLICATIONS AFFECTED:**

None affected

**ACCOMPLISHMENT INSTRUCTIONS:**

1. Comply with Honeywell Service Bulletin No. LTS101-73-20-A0231.

## ALERT

### Category 1: Safety

FUEL SYSTEM – REPLACEMENT OF POWER TURBINE GOVERNOR SPOOL BEARING PART NO. 2523973

#### 1. Planning Information

##### A. Effectivity

All installed and Spare Power Turbine Governors Part No. 4-301-101-xx, 4-301-174-xx, 4-301-212-xx, 4-301-289-xx, and 4-302-024-xx.

<u>Part No.</u>	<u>Engine Model No.</u>	<u>Serial No.</u>	<u>Application</u>
4-001-000-16	LTS101-600A-2	All	Aerospatiale AS350
4-001-000-26	LTS101-600A-3	All	Aerospatiale AS350
4-001-000-31	LTS101-600A-3A	All	Aerospatiale AS350
4-001-000-12	LTS101-650B-1	All	Aerospatiale AS350
4-001-000-25	LTS101-750B-1	All	BK117
4-002-000-06	LTS101-750C-1	All	BK117
4-002-000-05	LTS101-650C-3	All	Bell 2222 UT/B
4-002-000-07	LTS101-650C-3A	All	Bell 222
			Bell 222

**NOTE:** Power turbine governors identified with the letter "N" stamped on the lower left hand area of the PTG identification plate are in compliance with this Service Bulletin.

Contact names for Fuel Systems, Authorized Warranty and Repair Stations (AWARS) are listed in Attachment 1.

##### B. Concurrent Requirements

None

##### C. Reason

**WARNING:** FAILURE TO COMPLY WITH THIS SERVICE BULLETIN COULD RESULT IN DISTRESS OF THE POWER TURBINE GOVERNOR BEARING. IF LEFT UNCORRECTED, THIS DISTRESS COULD RESULT IN A POTENTIAL LOSS OF ENGINE POWER AND COULD CAUSE SERIOUS INJURY OR DEATH TO PERSONNEL AND DAMAGE TO THE AIRCRAFT.

Inspections of several power turbine governors returned for Np speed oscillations and/or uncommanded engine power reduction disclosed distress to the spool bearing assembly. To avoid such distress, a program to remove suspect power turbine governors and install governors with a known, acceptable spool bearing assembly is being required.

##### D. Description

This Service Bulletin provides instructions for removal of a suspect power turbine governor and installation of a power turbine governor with a known acceptable spool bearing assembly.

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## E. Compliance

Compliance addresses a safety of flight issue. Compliance to be accomplished as follows:

- (1) In accordance with the compliance schedule below;
- (2) At next return to an overhaul facility;
- (3) Spare parts power turbine governors must comply with this Service Bulletin prior to installation on an engine; or
- (4) No later than April 31, 2005, whichever results in the earliest compliance with this Service Bulletin.

Table 1. Compliance Schedule for Power Turbine Governors Installed on Engines

Current Time Since Overhaul	Compliance Factor	Compliance Hours
Less than 400 hours TSO	Remove at	500
Between 401 and 1000 hours TSO	Remove within	100
Between 1001 and 1800 hours TSO	Remove within	50
Greater than 1801 hours TSO	Remove within	25

## F. Approval

The accomplishment instructions section of this Service Bulletin has been FAA approved.

## G. Manpower

Approximately 2.5 manhours.

## H. Weight and Balance

None

## I. Electrical Load Data

No change

## J. Software Accomplishment Summary

Not applicable.

## K. References

Honeywell Engines, Systems & Services Bulletin GT-328.

## L. Other Publications Affected

LTS101-4.1 IPC

LTS101-4.7 IPC

LTS101-4.2 IPC

LTS101-4.8 IPC

LTS101-4.4 IPC

LTS101-4.9 IPC

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M. Interchangeability or Intermixability of Parts

Not applicable.

2. Material Information

A. Material – Price and Availability

<u>Part No.</u>	<u>Nomenclature</u>	<u>Qty</u>
4-301-101-16/-18 (LTS101-600A-2)	Power Turbine Governor	1
4-301-289-03/-09 (LTS101-600A-3)	Power Turbine Governor	1
4-301-289-05 (LTS101-600A-3A)	Power Turbine Governor	1
4-301-212-04/-05 (LTS101-650B-1 and LTS101-750B-1)	Power Turbine Governor	1
4-301-101-17/-19 (LTS101-650C-3 and LTS101-650C-3A)	Power Turbine Governor	1
4-302-024-03/-04 (LTS01-750C-1)	Power Turbine Governor	1

(1) Refer to Customer Service Letter 143 for additional information.

(2) Contact Honeywell Engines, Systems & Services or Honeywell Engines, Systems & Services authorized Service Center for price and availability. (See Attachment 1)

B. Industry Support Information

Not applicable.

C. Material Necessary for Each Engine/Component

Refer to paragraph 2.A.

D. Material Necessary for Each Spare

Not applicable.

E. Reidentified Parts

Not applicable.

F. Tooling Price and Availability

No additional special tooling is required by this Service Bulletin.

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## 3. Accomplishment Instructions

**NOTE:** Refer to applicable engine maintenance or overhaul manual when accomplishing the following instructions.

- A. Inspect the power turbine governor data plate for the letter "N" marking in the lower left side of the plate. If found the governor is in compliance with this Service Bulletin. Proceed to step D.
  - B. Remove affected power turbine governor. Send removed power turbine governor to Honeywell Approved Service Center for Service Bulletin compliance.
  - C. Install power turbine governor with the letter "N" marking in the lower left side of the plate. Refer to paragraph A. Material – Price and Availability for the correct power turbine governor part number.
  - D. Compliance with the Service Bulletin must be recorded in the Engine Log Book, on the Engine and Module Maintenance Record, Service Bulletin Compliance Record and Module/Component Service Record Card.
  - E. Complete and return Notice of Service Bulletin Compliance (attached) to Honeywell Engines, Systems & Services.
- ## 4. Appendix

**LTS101-73-20-A0231**

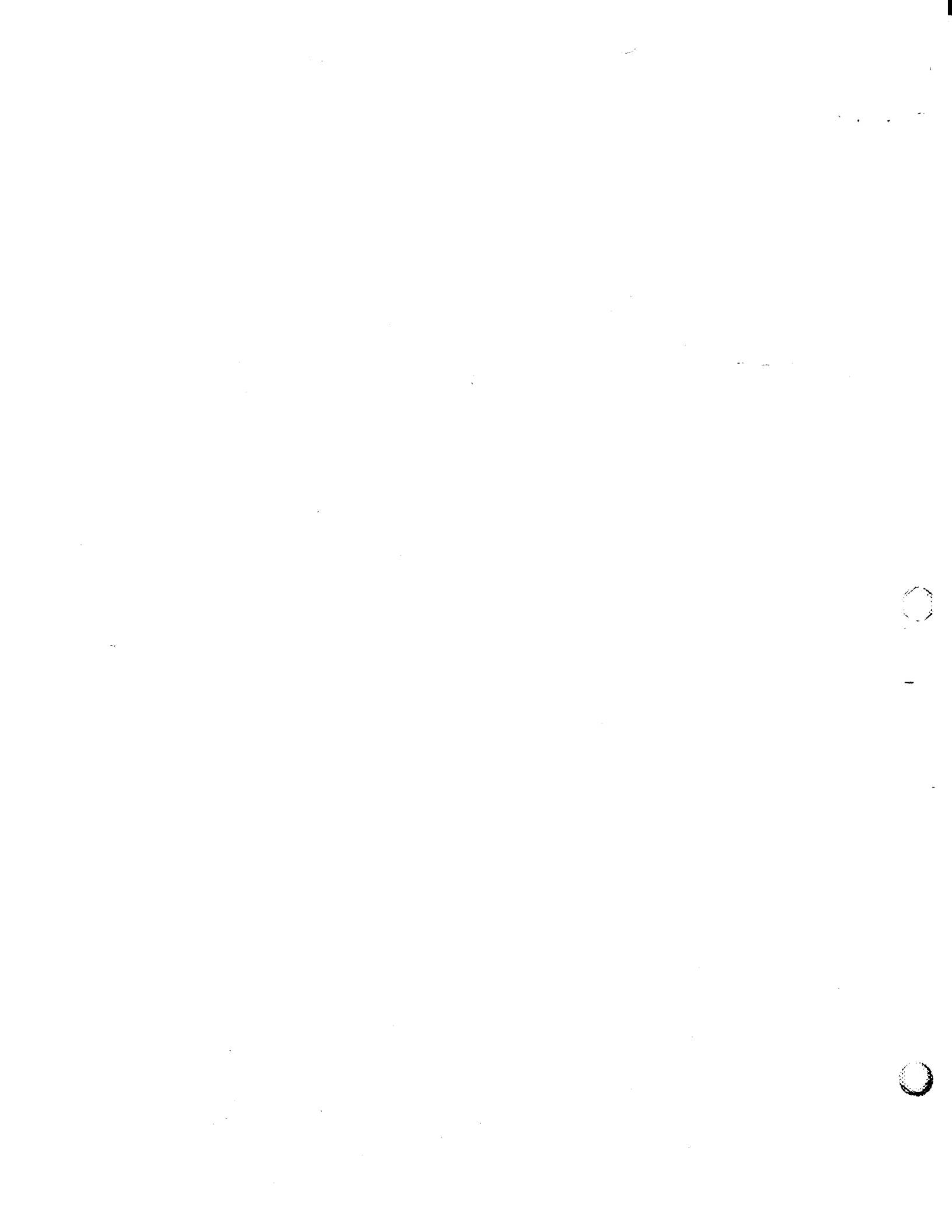
Attachment 1. AWARS

Facility Name	Contact Name	Telephone
Masling Industries Airport Hanger 3 P.O. Box 511 Cootamundra, N.S.W. Australia 2590	John Hill	612-6942-3155
Goodrich Control Systems GmbH Postfach 10 02 61 D-41402 Neuss Bataverstrasse 80 Germany	Ewald Schulz	(0 21 31) 953-362
Precision Engines 3220 100th Street Southwest Building E Everett, WA 98204	Pam Kepford	(425) 347-2800
Premier Turbines Airport Industrial Park 1 Freedom Drive Independence, KS 67301	Susan Thompson	(620) 331-8180

Honeywell's Control Systems Administrative Assistance

Facility Name	Contact Name	Telephone
Honeywell Engines, Systems & Services Customer Support Engineering 717 North Bendix Drive South Bend, IN 46620	Bob Terry	(425) 347-2800
Honeywell Engines, Systems & Services Product Integrity 717 North Bendix Drive South Bend, IN 46620	Linda Gray	(574) 231-3304

**LTS101-73-20-A0231**



NOTICE OF SERVICE BULLETIN COMPLIANCE

Honeywell Engines & Systems  
111 S. 34th Street  
P.O. Box 52181  
Phoenix, AZ , 85072-2181 USA

Attention: Manager, Customer Support Engineering (LT 101)  
Mail Stop 404-246

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 \_\_\_\_\_

FOLD  
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HERE

FOLD  
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HERE

Fan Model \_\_\_\_\_ Serial # \_\_\_\_\_ Hour \_\_\_\_\_ Cycles \_\_\_\_\_

GP Module \_\_\_\_\_ Serial # \_\_\_\_\_ Hour \_\_\_\_\_ Cycles \_\_\_\_\_

CT Module \_\_\_\_\_ Serial # \_\_\_\_\_ Hour \_\_\_\_\_ Cycles \_\_\_\_\_

AGB Module \_\_\_\_\_ Serial # \_\_\_\_\_ Hour \_\_\_\_\_ Cycles \_\_\_\_\_

Components Removed:

Part Number \_\_\_\_\_ Serial # \_\_\_\_\_ Hour \_\_\_\_\_ Cycles \_\_\_\_\_

Aircraft Type \_\_\_\_\_ Serial # \_\_\_\_\_ Hour \_\_\_\_\_ Cycles \_\_\_\_\_

FOLD  
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HERE

FOLD  
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HERE

Very truly yours,

Signed: \_\_\_\_\_

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

Location: \_\_\_\_\_

Date: \_\_\_\_\_

PLACE  
STAMP  
HERE

Honeywell Engines & Systems  
111 S. 34th Street  
P.O. Box 52181  
Phoenix, AZ 85072-2181, USA

Attention: Manager, Customer Support Engineering (LT 101)  
Mail Stop: 404-246