

# Honeywell

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## SERVICE BULLETIN

**AIRBORNE AUXILLIARY POWER - GAS TURBINE ENGINE - Replace Exhaust Gas Temperature Sensor, Part Number WE3876352-1 with Part Number WE3876352-2**

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## Transmittal Information

### Summary

Replace the Exhaust Gas Temperature Sensor, Part Number WE3876352-1 with Part Number WE3876352-2.

### Revision History

This is the initial release of Service Bulletin RE220-49-7889 as summarized in Table 1.

**Table 1. Service Bulletin Revisions**

| Revision        | Date of Release |
|-----------------|-----------------|
| Initial Release | 15 Feb 2007     |

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## 1. Planning Information

### A. Effectivity

- (1) This service bulletin applies to this gas turbine engine:

| <u>Part Number</u> | <u>Engine Model Number</u> | <u>Before Serial Number</u> | <u>Application</u>      |
|--------------------|----------------------------|-----------------------------|-------------------------|
| WE3800714-1        | RE220[GX]                  | *P-366                      | Global Express<br>G5000 |

\*First Unit Production Point

### B. Concurrent Requirements

- (1) Not applicable.

### C. Reason

- (1) Problem: Nuisance faults and APU shutdowns can occur in rain conditions. The nuisance fault codes are:

- 150 EGT1\_SHORT\_GND
- 155 EGT2\_SHORT\_GND
- 126 LOSS\_BOTH\_EGT

- (2) Background: The nuisance fault is caused by a decrease in the insulation resistance to ground due to water contacting the thermocouple terminals. In order to maintain the insulation resistance when water is present, a non-conductive coating has been applied to the thermocouple case.

- (3) Technical Validation:

- (a) This design was validated by engine and bench tests conducted at Honeywell.

- (4) Cost Benefit Analysis: Not applicable.

- (5) Action: Replace the Exhaust Gas Temperature (EGT) Sensor, Part Number WE3876352-1 with Part Number WE3876352-2.

### D. Description

- (1) This service bulletin includes instructions for incorporating an improved EGT Sensor, Part Number WE3876352-2.

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## E. Compliance

- (1) Optional
- (2) This service bulletin may be accomplished at the operator's option

## F. Approval

- (1) TSO authorization was received for the modification identified in this service bulletin.

## G. Manpower

NOTE: The unit is not removed from the aircraft.

- (1) No additional labor hours are necessary to do this service bulletin when done at the time of inspection or access to the part.

## H. Weight and Balance

- (1) Not applicable.

## I. Electrical Load Data

- (1) Not applicable.

## J. Software Accomplishment Summary

- (1) Not applicable.

## K. References

- (1) Publications.
  - (a) The publications applicable to this service bulletin are shown below:

| <u>Part/Model<br/>Number</u> | <u>Component<br/>Maintenance Manual</u> | <u>Illustrated<br/>Parts Catalog</u> |
|------------------------------|---|--------------------------------------|
| WE3800714-1/<br>RE220[GX]    | 49-24-35                                | 49-24-25                             |

- (2) Service Bulletin References.
  - (a) Not applicable.

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**L. Other Publications Affected**

Global Express Aircraft Maintenance Manual  
G5000 Aircraft Maintenance Manual

**M. Interchangeability or Intermixability of Parts**

(1) This service bulletin does not have an effect on interchangeability.

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## 2. Material Information

### A. Material - Price and Availability

- (1) Kit information does not apply.

### B. Industry Support Information

- (1) Information on price and availability of parts will be supplied by an authorized Honeywell Engines facility. Telephone: (Domestic) (800) 601-3099 (International) (602) 365-3099, FAX (602) 365-3343. EGT sensors under warranty will be replaced at no charge.
- (2) Authorized Honeywell repair facilities are:
- (a) Honeywell, Shipping and Receiving, 1944 E. Sky Harbor Circle, Phoenix, AZ 85034.

### C. Material Necessary for Each Aircraft/Engine/Component

- (1) The parts necessary to do this service bulletin are as follows:

NOTE: The illustrated parts catalogs and spare parts bulletins dated later than the original issue date of this service bulletin can introduce different parts. Refer to these documents before you order parts.

**Table 2. Operator - Purchased Material**

| <b>New Part Number</b> | <b>Keyword/<br/>Nomenclature</b>     | <b>Old Part Number</b> | <b>Qty</b> | <b>Unit Price</b> | <b>Instructions/<br/>Disposition</b> |
|------------------------|--------------------------------------|------------------------|------------|-------------------|--------------------------------------|
| WE3876352-2            | Exhaust Gas<br>Temperature<br>Sensor | WE3876352-1            | 2          | Not Applicable    | B, N                                 |

Disposition Code B. Replaced part.

Disposition Code N. The old part will not be available.

### 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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### 3. Accomplishment Instructions

#### A. **Replace EGT Sensor, Part Number WE3876352-1 with Part Number WE3876352-2**

- (1) Remove EGT Sensor, Part No. WE3876352-1, quantity 2. Refer to the manuals shown in Section 1, Paragraph K.(1) or Paragraph L for removal instructions.
- (2) Install EGT Sensor, Part No. WE3876352-2, quantity 2. Refer to the manuals shown in Section 1, Paragraph K.(1) or Paragraph L for installation instructions.
- (3) Make a record of the service bulletin number in the engine log book, then put the Change Number on the APU identification plate adjacent to the MOD RECORD.

| <u>Part Number</u> | <u>Model Number</u> | <u>Change Number</u> |
|--------------------|---------------------|----------------------|
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