

# SERVICE BULLETIN NO. MSB-AE50R-001

## I. TECHNICAL DETAILS

### 1.1 Category

Mandatory.

### 1.2 Engines affected

AE50R Series.

Serial numbers R1-0418, -0484, -0486, -0487, -0488, -0490, -0491, -0492, -0493, -0494, -0497, -0502, -0503.

### 1.3 Time of compliance

Within the next 10 hours of engine operation following receipt of this Service Bulletin, but not later than December 31<sup>st</sup>, 2003.

### 1.4 Subject

The replacement of the fan impeller.

### 1.5 Reason

Two consecutive new engines failed on test when the impeller moulding disintegrated as the engines were running at maximum speed. The impeller debris passed through the engine, in both cases causing damage to major components.

### 1.6 Concurrent documents

None.

### 1.7 Approval

The technical information or instructions contained in this document have been approved by Austrocontrol GmbH, the Austrian Aviation Authority.

### 1.8 Measures

1. The Fan Rotating Assembly, p/n R1 K 082 must be replaced in accordance with the Overhaul Manual for Certified JAR 22 Engine, IAE50R-AA, Issue 2, Doc. No. D085.
2. The old Fan Rotating Assembly, p/n R1 K 082, must be sent back to Diamond Engines after replacement.

### **1.9 Recurring actions**

None.

### **1.10 Mass (Weight) and CG**

Not affected.

## **II. PLANNING INFORMATION**

### **2.1 Material and availability**

All parts can be ordered from Diamond Engines in Wiener Neustadt, Austria.

### **2.2 Special tools**

None.

### **2.3 Labor consumption**

2 hours for the replacement of the impeller only. The total overhaul labor consumption will depend on the engine installation.

### **2.4 Reference documents**

Overhaul Manual for Certified JAR 22 Engine, IAE50R-AA, Issue 2, Doc. No. D085.

### **2.5 Credit**

- All necessary engine parts will be supplied by Diamond Engines free of charge.
- € 66 (excl. tax) for 2 hours of labor consumption for the replacement of the impeller will be credited.
- Standard ground shipping of the old Fan Rotation Assembly (see item 1.8.2 of this Service Bulletin) will be credited.

## **III. REMARKS**

1. All measures must be carried out and documented in accordance with national regulations by a certified engine service station or a certified engine maintenance mechanic.
2. In case of doubt, contact Diamond Engines.