

Fuel Pump Diaphragm Assembly

AWB 28-005 **Issue :** 1
Date : 05 September 2007**1. Applicability**

All aircraft utilizing Lycoming or TCM engines fitted with a Kelly Aerospace Power Systems (KAPS) overhauled fuel pump models RG15980, RG17980, 201F, and TCM series 638156, 638155, 630751 and 636898 -OR-

Any fuel pump in which a KAPS fuel pump diaphragm and plunger assembly (P/N CFRB15985) has been installed with a procurement date between Sep 2005 and July 2007.

2. Purpose

This AWB alerts operators about a potential leak from fuel pumps fitted with identified diaphragm and plunger assembly part number CFRB15985.

3. Background

CASA and CAA NZ have received a few service difficulty reports (SDR) related to fuel leakage on the subject fuel pumps. On most of the failed pumps, the nut securing diaphragm to the plunger was found to be loose.

The failed hardware was investigated by KAPS and as a result, a Mandatory Service Bulletin (MSB) 028 was issued on 6 August 2007. The initial issue of MSB 028 was amended by Revision A on 28 August 2007.

MSB 028 Rev A tables affected fuel pump serial numbers (S/N) while spare part affectivity for pump diaphragm and plunger assemblies is verified by confirming the purchase date of the part. The fuel pump S/Ns listed in MSB 028A are not the only pumps affected due to overhaul activity using affected spare parts. This includes Quick Kit part numbers CFK-15980 and CFK-17980. Accordingly, even if your pump is not tabled in MSB 028A, relevant records should be thoroughly checked to confirm the procurement dates for the diaphragm assemblies.

Kelly Aero MSB 028A addresses a potential unsafe condition by requiring visual inspection of the affected aircraft before each flight for signs of fuel leakage and by requiring replacement of the affected diaphragm assembly.

If the fuel pumps installed with affected diaphragms remain in service, there is a high probability of fuel leakage overboard reducing on-board fuel availability and may also present a fire hazard due to the uncontained fuel leakage.

4. Recommendation

If applicable, comply with the requirements of the KAPS MSB 028 Rev A or later approved revisions.



AIRWORTHINESS BULLETIN

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5. Enquiries

Enquiries with regard to the content of this Airworthiness Bulletins should be made via the direct link e-mail address:

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Or in writing, to:

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