



Electrical Power – Transformer–Rectifier
Unit Failure

AWB 24-010 **Issue :** 1
Date : 27 April 2016

1. Effectivity

Airbus Helicopters fitted with Thales TRU P/N F11RD4221 Amendment F.

This TRU is fitted to but not limited to Airbus Helicopters Model EC 225, EC725 and AS332.

2. Purpose

To alert operators of potential of TRU failure and smoke in the cabin.

3. Background

CASA has received a report from an operator related to TRU failure on Airbus EC225 helicopter. While carrying out rigging checks using external hydraulic rig, thick smoke was seen blowing out of cabin doors.

No circuit breakers were popped and no indication of component failure was presented in the flight deck.

During troubleshooting, the number 2 TRU was removed and strong burning smell was evident from the TRU. A boroscope was used to inspect the internals of the TRU and there was evidence of at least one of the three filtering capacitors having a major failure (Figures 1 & 2).



Figure 1 - Serviceable Capacitor



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Figure 2 - Damaged Capacitor

Airbus has acknowledged that this was a known issue with amendment F TRU's and was the fourth occurrence, but first on an operational aircraft.

Airbus Helicopters has issued a Service Bulletin (SB) EC225-24-025 and Thales who is the vendor of this TRU has also issued SB F11RD4221-24-003 to address this issue.

4. Recommendations

CASA strongly recommends that operators of Airbus Helicopters take the corrective action as described in Airbus Service Bulletin EC225-24-025.

Other operators are also encouraged to check if the applicable TRU part number is installed on their aircraft and take action as advised by Airbus Helicopter SB and/or Thales SB F11RD4221-24-003.

5. Reporting

CASA requests that any report of TRU failure be reported via the SDR system.



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6. Enquiries

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

AirworthinessBulletin@casa.gov.au

or in writing, to:

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