

SUBJECT: INFORMATION ON THE MULTI-MODE DIGITAL RADIO 2 (SUPERSEDES SL-226)

To all Customers, Operators and Service Centers:

Date: Jul 05/22

Effectivity: PC-12/47E Series Aircraft MSN 1720, 2001 and Up.

This Service Letter supersedes Service Letter PC-12 SL-226.

This Service Letter is to clarify the corrective action with the Multi-Mode Digital Radio 2 (KTR 2280A Honeywell P/N 069-01039-0101).

Pilatus Aircraft Ltd have identified a recent increase in the failure rates of the Multi-Mode Digital Radio 2 (Honeywell P/N 069-01039-0101).

A root cause investigation has been completed and has identified two systematic issues with the radio that are leading to the increased failure rate:

- **Problem 1:**
During power down, the data in the flash memory integrated circuits are being corrupted causing the system at power up to detect this corruption and fail the power-up built-in test. This results in an MMDR fail CAS message.
- **Problem 2:**
The RF output stage power transistor is failing due to a timing conflict between data and voice transmissions. This results in the loss of the ability to transmit on COM 2.

NOTE: Both of the above problems result in an unrecoverable radio leading to a maintenance action for removal and replacement. Problem 2 is occurring frequently and is the primary cause of the increased failure rate.

The two identified problems above have been corrected with the introduction of the KTR-2280A MMDR Mod 2 (Honeywell P/N: 069-01039-0101 Mod 2).

1. Solution

Pilatus has certified the KTR-2280A MMDR Mod 2 (Honeywell P/N: 069-01039-0101 Mod 2). The radio software and hardware modification revisions, and the new Pilatus Part Number (P/N 985.99.12.464) will be updated and included in the Illustrated Parts Data (IPD) at the next Revision.

Upon update of MMDR No. 2 with the latest P/N, the factory options listed below can be enabled via Service Bulletin SB 45-019 (Latest Revision):

- VHF Datalink with AFIS factory option (P/N 500.04.12.001)
- PM-CPDLC factory option (P/N 500.04.12.007)
- Weather via VHF Datalink factory option (P/N 500.04.12.017).

The identified problems are primarily impacting MMDR 2. In order to preserve stock levels it is recommended to only update MMDR 2. MMDR 1 can be updated as required upon attrition.

Operators that require additional information should contact their authorized Pilatus Service Center, or Pilatus Customer Support on www.pilatus-aircraft.com → contact us

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