

## Grant Robinson

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**From:** McConnell, DAVE P <dave.p.mcconnell@lmco.com>  
**Sent:** Saturday, September 03, 2016 8:26 AM  
**To:** Grant Robinson  
**Subject:** Replacement of P/N-110 HUMS MPU with P/N -109  
  
**Importance:** High

Grant;

Following is the CSE response to my request to replace a P/N -110 HUMS MPU with a P/N -109 on HVB. Please note CSE's concern that an underlying airframe problem may be contributing to the MPU low time failures. I presume that Avionics has already done their due diligence in ruling out wiring and other airframe factors.

Customer: Thai Aviation Services Limited  
Aircraft Serial Number: 920279  
Aircraft Model: S-92A  
ATA: 31  
Part Number: 92600-01810-110  
Case Number: C0038594  
Title: HUMS MPU P/N -109 ILO P/N -110

**Issue Description:**

TAS A/C S/N 920279 recently experienced a low time failure of its original P/N 92600-01810-110 HUMS MPU (Case C0038596) and a Fail on Fit of the TSR 0.0 replacement P/N -110 component from SCI (Case C0038597).

The A/C is currently operating on a 10-day MEL which expires 07 SEP 16. SCI has to this date been unable to provide a shipping date for a replacement MPU and TAS is concerned that it will not arrive VTSF prior to the expiry of the MEL.

TAS A/C S/N 920146 is currently AOG for TR quadrant detail parts. There is no shipping date for those parts from SCI as of this writing.

920146 is fitted with a -109 MPU.

TAS request SA engineering approval to remove the -109 HUMS MPU from 920146 and install it in A/C S/N 920279 until such time as a serviceable -110 MPU is received from SCI. EoM

**Resolution:**

The two versions (-109 and -110) are form and fit identical and there is no issue with swapping.

Our concern is why two boxes just failed on the aircraft. The HUMS MPU is fairly reliable, so this is atypical to have two bad in a row. Is there a potential wiring issue? We recommend checking the pins before swapping another box in. Could also try the latest box that would not power up on another aircraft to see if it is truly bad. That would help confirm if 920279 wiring is the issue.

**David P. McConnell**

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