



Microair T2000SFL Transponders

**AWB** 34-010 **Issue :** 1  
**Date :** 17 September 2007

## 1. Applicability

Microair Avionics Pty Ltd T2000SFL Air Traffic Control Mode A/C Transponders without Revision 7 upgrade (Microair Service Bulletin T2000SFL-SB-06 dated 14 September 2009).

## 2. Purpose

Microair T2000SFL transponders without the Revision 7 upgrade may, when operated in a Mode S Secondary Surveillance Radar (SSR) environment, 'lock-up' when interrogated, display a 'NO COMM' message and/or generate intermittent replies. Whilst, this currently is not a problem in Australia, the planned introduction of Mode S SSR interrogators at eight Australian airports by Airservices Australia during 2007-09 will cause more transponders to be affected. Transponders may also be affected by the introduction of Wide Area Multilateration surveillance in Tasmania during late 2007 early 2008.

## 3. Background

The anomaly with the T2000SFL transponder was first detected in early 2006 following the trial installation of a Mode S SSR interrogator at Auckland airport by Airways Corporation of New Zealand. The initial fix was a software modification which upgraded the transponder to Revision 6, this fix did not prove adequate and Microair Avionics introduced the upgrade to Revision 7 by Service Bulletin T2000SFL-SB-06. The technical content of the Service Bulletin was approved by the Civil Aviation Safety Authority on 1 August 2006. Currently most Revision 7 upgrades have been for transponders operating in overseas Mode S radar environments.

Airservices Australia plan to roll out Mode S SSR interrogators at Coolangatta, Melbourne, Perth, Adelaide, Sydney, Cairns, Canberra and Brisbane airports with an additional transportable interrogator initially located at Melbourne from late 2007 to mid 2010. This project is known as the Australia Mode S Terminal Area Radar Project (AMSTARP). These interrogators will have a range of up to 256 nautical miles and may affect transponders without Revision 7 up to that range.

Additionally, Airservices Australia plan to install a Wide Area Multilateration surveillance system in Tasmania (known as TasWAM) starting in late 2007 and becoming operational in late 2008. TasWAM will also rely on Mode S interrogations and therefore may affect non Revision 7 transponders.



# AIRWORTHINESS BULLETIN

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## 4. Recommendation

Operators are strongly encouraged to upgrade their transponders to Revision 7 by incorporating Microair Service Bulletin T2000SFL-SB-06 at the earliest opportunity. More information may be obtained by contacting Microair Avionics at [info@microair.com.au](mailto:info@microair.com.au)

## 5. Enquiries

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

[AirworthinessBulletin@casa.gov.au](mailto:AirworthinessBulletin@casa.gov.au)

Or in writing, to:

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