RAAus AIRCRAFT FITTED WITH TRANSPONDERS

ADVISORY NOTICE NO:	Transponder 2016 Issue 01
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TO:	Owners of RAAus aircraft with transponders
FROM:	National Technical Manager
SUBJECT:	TRANSPONDER CALIBRATION / COMPLIANCE

A large number of Recreational Aviation Aircraft (RAAus) have been identified with the wrong transponder codes programmed. This Advisory Notice (AN) has been generated so that the correct process is followed and adhered to. If you have a transponder fitted to your RAAus registered aircraft it must be calibrated. It is not permissible to mark the unit as unserviceable.

A correct Mode S address issued in Australia is a 24 bit and 6 digit HEX number in the range 7C0000—7CFFFF 3 (7C is Australia ICAO). This CASA allocated HEX ID must be correctly programmed into the transponder by an appropriately qualified person (LAME) and tested to meet **CAO 100.5** requirements. The registration number for the aircraft should NOT be used as the Mode S Address, for example, "241234" (for aircraft registration 24-1234) is NOT the correct Mode S Address, even though the transponder may allow this to be configured.

Good Example:

Mode S: 7C1234 *Flight ID*: R1234 Mode3A: 1200

Bad Examples:

Mode S: 241234 (not a 7Cxxxx number) *Flight ID*: R241234 (contains too many number – should be "R1234") *Mode3A*: 1200

Mode S: 100000 (not a 7Cxxxx number) Flight ID: SLING (wrong Flight ID format – should be "Rxxxx"

Mode3A: 1200

A registered HEX code must be obtained from CASA by emailing, aircraftregistrar@casa.gov.au

RAAus members should also refer to the CASA Airworthiness Bulletin: **AWB 34-015 Issue: 2**

https://www.casa.gov.au/files/awb-34-015-issue-2-assigning-transponder-aircraft-address

In addition, advice from Airservices Australia has confirmed the details required to be displayed in the Flight ID field. This should be programmed as **"R"** then the last four digit identifiers in the aircraft registration e.g. R1234. This allows Air Services to distinguish the return interrogation as a recreational aircraft and prevents errors being generated in the ATS classification framework.

Aircraft distributors, owners and operators are required to comply and take immediate action where required.

RAAus members who have an aircraft identified by Airservices Australia with an incorrect flight ID will be given 14 days to have the error corrected (a written request for an extension can be requested from the RAAus Technical Manager due to engineering availability). A copy of the correct Flight ID **and l**ogbook statement is required and this information is to be emailed to tech@raa.asn.au.

Further Reference to the requirement for the operation of an aircraft fitted with a transponder can be found under SECTION 12.4 INSTRUMENT & TRANSPONDER CHECKS in the current Technical Manual Issue 4.

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