

SANDEL

SB3400-01 Service Bulletin (MANDATORY)

Date: 9/15/2004

Regarding: ST3400 VOR Bearing Pointer using Composite input

Reason

Problem with VOR1/VOR2 bearing pointer readings.

Applicability

Any installation comprised of:

ST3400 with VOR bearing pointer configured in COMPOSITE NAV
- and -
3.05 or A3.05 software or earlier

Description

Sandel received a field report that the ST3400 RMI bearing pointer, configured for composite (video) input, can show a sluggish response combined with a subsequent permanent bearing error.

It has been determined in laboratory testing that this can occur under some very specific sequence of conditions which include low signal strength / selective fading.

Sandel considers this a serious condition as the resulting bearing pointer error can exceed 4 degrees and does not correct until the power is cycled.

This problem has been corrected in software versions 3.07 (for serial number under 2000) and A3.06 (for serial number of 2000 and greater) and later.

Note that this condition does not affect units configured for Arinc 429 digital inputs; please consult your installation records to determine applicability.

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Compliance

1. Within 10 flight hours or until step 2 is completed, placard ST3400 “NOT FOR PRIMARY VOR NAVIGATION”.
2. Field-load Software within 90 days of this SB, using Sandel Loader version 2.02 or later according to instructions contained in ST3400 Component Maintenance Manual.

S/N below 2000: Software 3.07 or later

S/N 2000 or above: Software A3.06 or later

Note: The Software and Loader will be available on the Sandel Website at a special location, with instructions preemptively emailed to all dealers. If you have received this SB but have not received this email, please contact Sandel by phone at 760-727-4900 to obtain instructions.

Warranty Reimbursement

1 hour

Manpower

1 man-hour

Approval

This modification does not affect the original approval.

Identification

No change

Testing

Verify original configurations and communication with the installed sensors by paging through the Maintenance pages and observing valid incoming data.

Documentation

No change

END