

SB 4500 – 03 - Revision C Service Bulletin (Mandatory)

Date: March 27, 2007
Regarding: SN4500 Improper Back Course Operation
Revision history: C, 1.02 software availability
B, initial release;
A, not issued;

Reason

During a back course approach where the SN4500 course pointer is set to the front course, the inner CDI needle and autopilot outputs are improperly reversed. The inner CDI and outer CDI show conflicting data alerting the pilot to the improper condition.

Applicability

All SN4500-xxx Primary Navigation Displays with software version 1.01.

Description

Do not fly an autopilot coupled back course approach if the lateral deviation output from the SN4500 is used to drive the autopilot.

A non-coupled back course approach may be flown with the inner CDI disabled. Using “ARC” view or “Map on” will disable the center CDI.

Compliance

Until software 1.02 is loaded into the SN4500, placard “During BC approach, use of inner CDI and/or autopilot coupling is prohibited”.

Field load software version 1.02 within 25 flight hours using published procedures.

In accordance with the instructions for continued airworthiness in the SN4500 Component Maintenance Manual, Document No. 82009-0133, revision B, SB 4500-03 related files including the software, installation instructions, and update utility can be accessed on the Sandel website at:

www.sandel.com/SN4500_sup_sb.php

Warranty Reimbursement

1.5 hours

Manpower

1.5 man-hours

Approval

This modification does not affect the original approval.

Identification

No change

Testing

Verify proper back course operation using a VOR/LOC ground test set or a flight test in VFR conditions. During this test the heading should be to the back course heading, the course pointer should be set to the front course. The inner and outer CDI should show the same deviation and the autopilot should steer in the direction of the CDI indications.

Documentation

Not applicable

END