



Date: November 19, 2013

Navion Service Bulletin No. 108R1

Subject: Cabin Air Valve Housing Support:

ALL SERVICE BULLETINS REFERENCED CAN BE ACCESSED

AT: <http://www.navion.com/servicebulletins.html>

Technical Support:

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Approval Basis: **The technical reference in Figure 4 of this service bulletin is FAA approved.**

Models Affected: All Navions, Serial Numbers NAV-4-002 through NAV-4-2561 models D, E, F, G and H with engines installed under Navion drawings 161-30001 or 147-30001 **OR** any Navion modified per type certificate data sheet A-782 items 139, 140, 141, 142 with 145-42122-SA11 Cabin Air Valve Housing and external power receptacle installed on right hand cowling area (Fuselage Station 46).

Compliance: Mandatory

Purpose:

1. To verify security of Cabin Air Valve Housing (Part No.145-42122-SA11) by installation of support bracket (Part No.147-30001-149) to reduce the possibility for housing rotation and possible contact with power plug which may cause electrical fire, smoke or fire.
2. To verify ground power plug wiring condition, security and terminal protection to preclude possible electrical fire, smoke or fire.

Background: Problem description of the Service Difficulty Report (SDR) [Ref No. 2013FA0000266] filed regarding a Navion-G aircraft:

External power positive cable bent upwards at terminal stud partially exposing cable from under protective terminal boot at swaged terminal end. Cabin air valve housing PN 145-42122 SA11 contacted exposed area creating a direct short through the cabin air control cable connected to the right side lower instrument panel. Control cable subsequently heated up the lubricants inside the cable and a small 1-2 sq.in section of the right interior panel creating smoke in the cabin. Pilot shutoff master switch, cleared the smoke and landed uneventfully.

Description: Verification of Cabin Air Valve Housing Support (Part No.147-30001-149) is installed to secure housing. Please contact SHA technical support for any questions regarding this bulletin at info@navion.com or 651-306-1456.

Action: Before further flight, open right side cowling and verify the installation of support bracket (Part No.147-30001-149). Reference Figure (1), Figure (2), Figure (3) and Figure (4) on subsequent pages. Install support bracket if support bracket is missing. If ground power plug is installed, check clearance between heater box and terminals. If rubber boots on terminal are missing or damaged, replace Part No.MS25171 or equivalent. Please contact SHA technical support for assistance on obtaining these parts.



Figure 1. 147-30001/161-30001 Cowling Installation (No power plug installed). Red circle indicates support bracket (Part No.147-30001-149)



Figure 2. 147-30001/161-30001 Cowling Installation (with power plug installed). Red circle indicates power plug opening



Figure 3. Support bracket (Part No.147-30001-149)

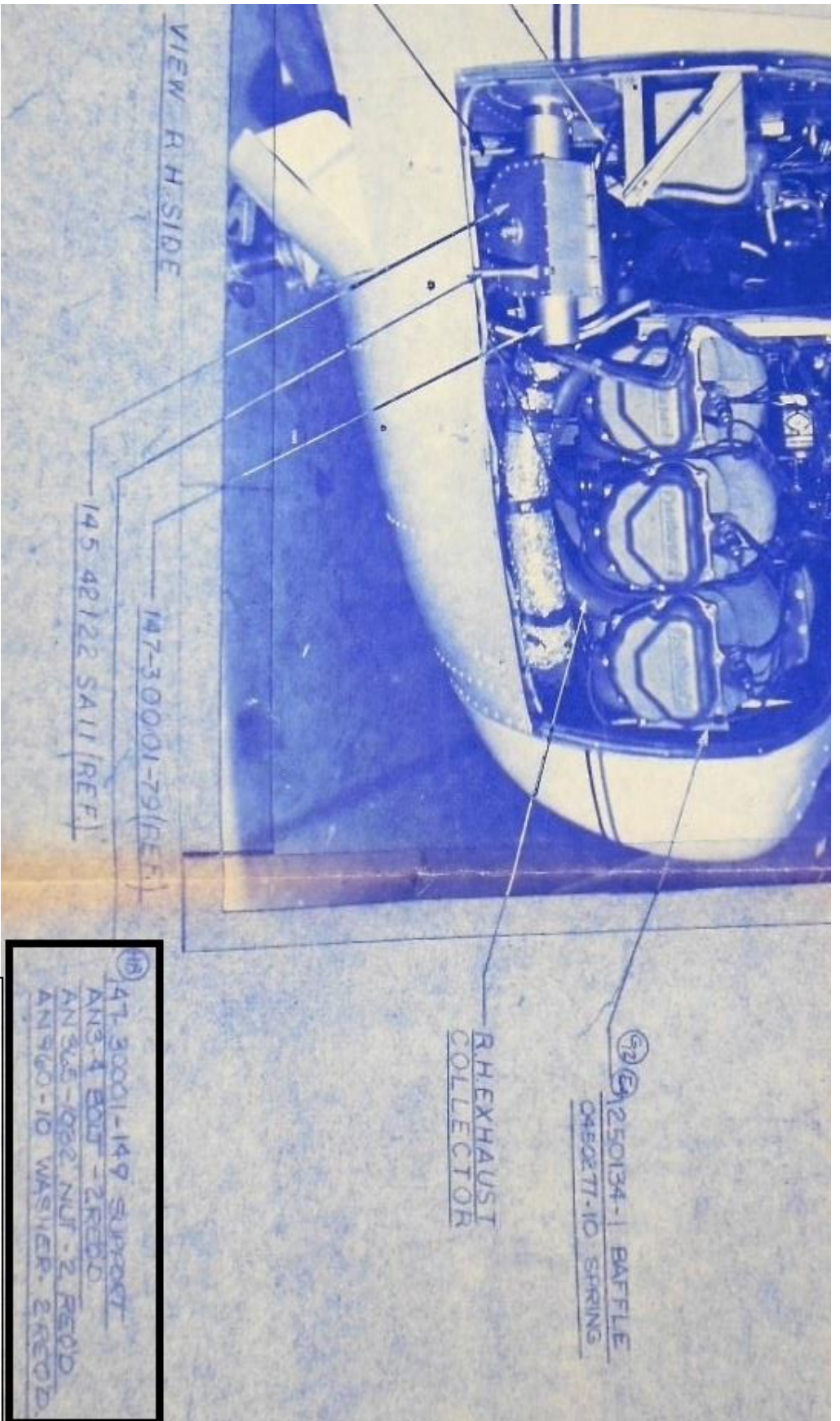


Figure 4. Original Drawing Section

Text in black box reads:
 147-30001-149 SUPPORT
 AN3-4 BOLT - 2 REQ'D
 AN365-1032 NUT - 2 REQ'D
 AN960-10 WASHER - 2 REQ'D

END