

## SB 4500-01 Service Bulletin (Mandatory)

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Date: December 6, 2006

Regarding: Grounding of bezel assembly

### Reason

Possible inadequate grounding of bezel assembly

### Applicability

SN4500-xxx Primary Navigation Display serial numbers 9-1001 through 9-1012

### Description

The bezels shipped with these SN4500's may not be correctly grounded to the main chassis. This condition could possibly cause the SN4500 to be more susceptible to interference from High Intensity Radiated Fields than is permissible under the regulations.

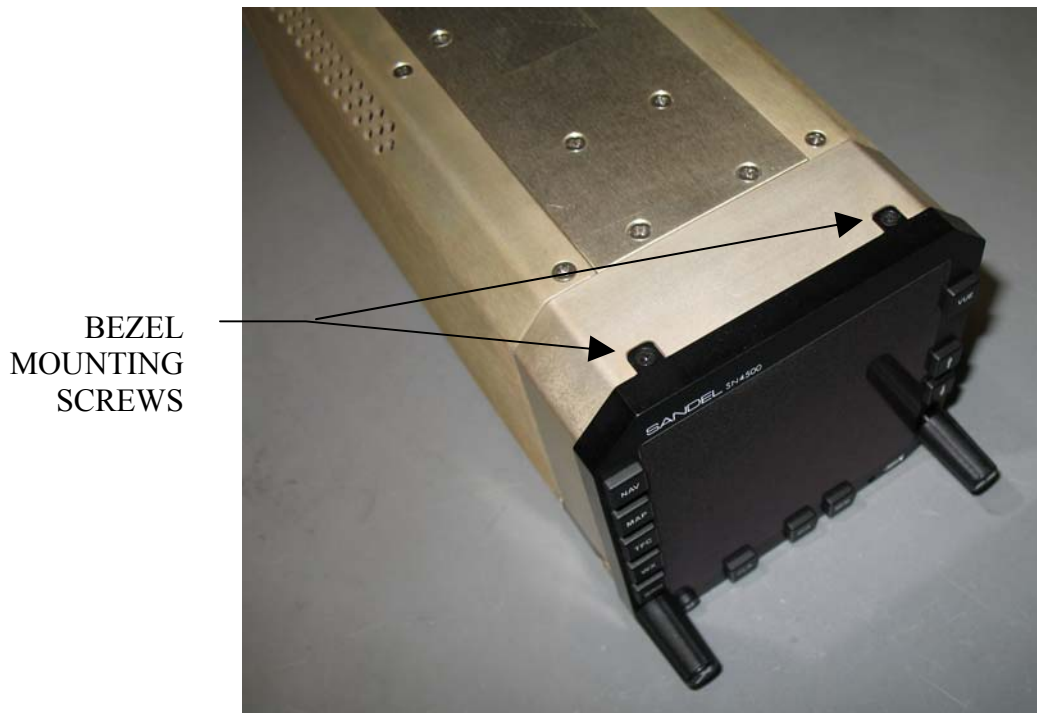
This field countermeasure is being provided to positively ensure the correct grounding of the bezel per the type design. This is done by removing the paint or anodization under the bezel screw countersink holes per the following procedure:

#### Tools required

- a. 82° countersink tool (supplied by Sandel)
- b. #0 Phillips head screwdriver
- c. Ohm meter set on lowest scale

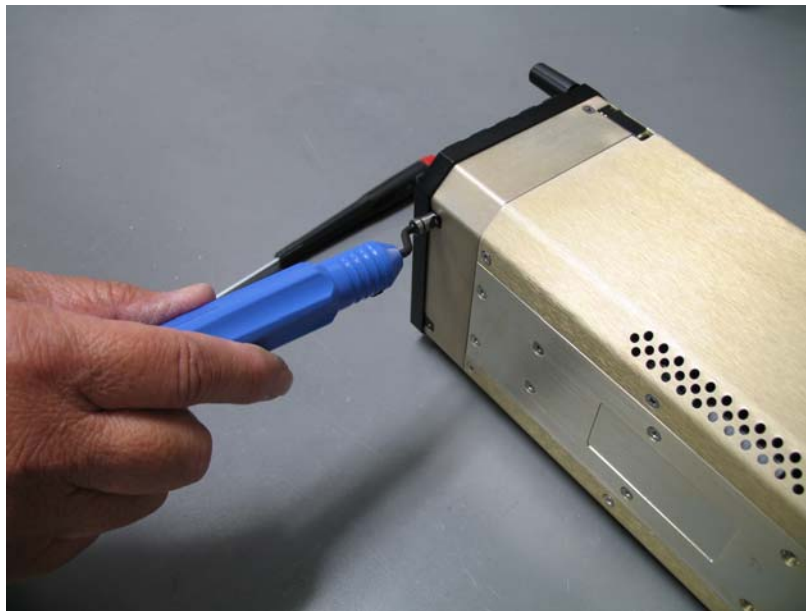
Note: If desired, this procedure may be accomplished without fully removing the instrument from the instrument panel.

1. Loosen the instrument clamp and partially pull out (or remove fully, if desired) the SN4500 from instrument panel.
2. Remove up to four (but at least 2) of #2-56 x .125 bezel mounting screws, and retain for reinstallation. Bezel mounting screws are located on top of unit and in lower corners (Figure 1). Be careful as these screws are very small.

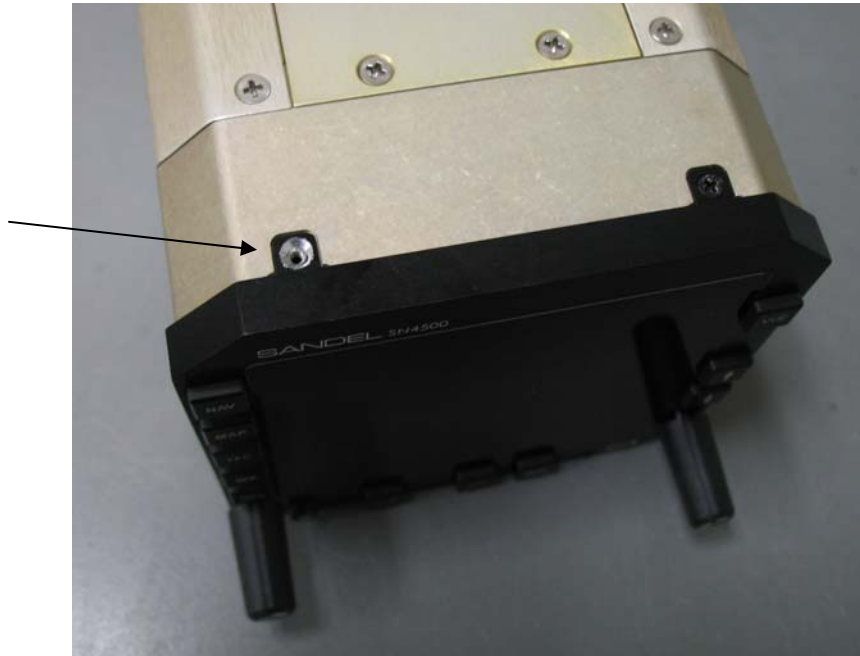


**Figure 1. Bezel Mounting Screws**

3. Using the provided 82° countersink tool, remove gray paint or black anodize finish from the countersink holes. Use caution to prevent chips or other foreign material from entering interior of SN4500 (Figures 2 & 3).

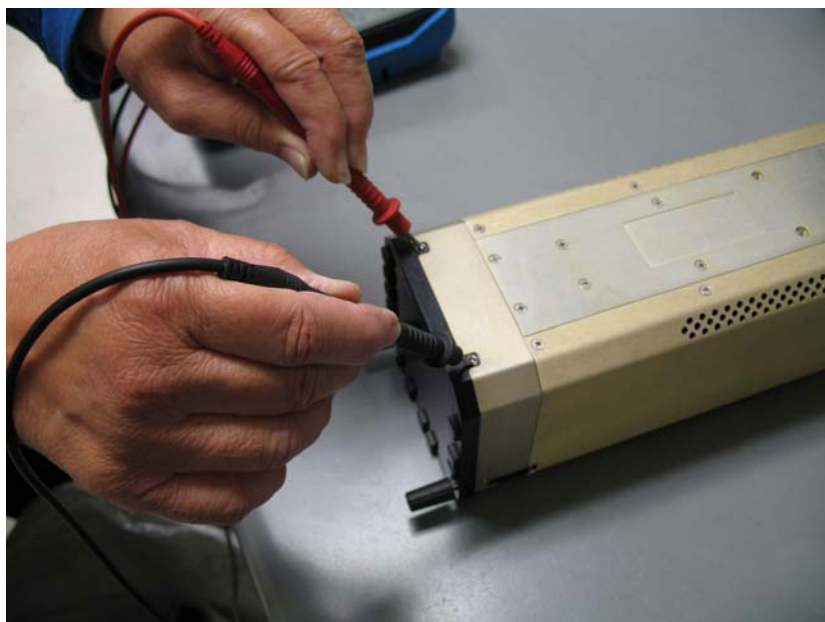


**Figure 2. Remove Finish Using Provided Countersink**



**Figure 3. Cleaned Countersink**

4. Reinstall Bezel Mounting Screw. Torque hand tight. Do not overtighten. (Ref: approx 2.5 in-lbs).
5. After reinstalling all but the last bezel screw, verify continuity of cleaned bezel area to SN4500 chassis with a reading  $<1$  ohm (Figure 4).



## **Figure 4. Verify Continuity Between Bezel and Chassis**

6. Reinstall the final screw.
7. Reclamp or reinstall SN4500.

### **Compliance**

Mandatory compliance with this Service Bulletin is required. It is strongly recommended that this Service Bulletin be applied at the next service interval; however, it must be applied within 50 hours. This Service Bulletin can be applied in the field per the procedure above or the SN4500 can be sent into Sandel to have this service bulletin applied.

### **Warranty Reimbursement**

1 hour

### **Manpower**

1 man-hour

### **Approval**

This modification does not affect the original approval.

### **Identification**

No change

### **Testing**

Comply with above instructions.

### **Documentation**

Not applicable

**END**