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 **SAGEM Avionics, Inc.**

Washington Division  
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**Service Bulletin No: RCOM-100-1A**  
**870-1570 ACTIVE TX/RX GLOBALSTAR ANTENNA SEALING**  
**INSTRUCTIONS**

**Seal the RCOM-100 Antenna**

**I. PLANNING INFORMATION**

**EFFECTIVITY**

This modification is applicable to all installations that utilize the 870-1570 antenna. Any antennas received from SAGEM Avionics after 2/15/05 will have the lacquer sealant already applied.

On existing installations see if the lacquer sealant has already been applied to the ray dome and the metal housing below it sealing the seam between the two. If it has then the screws should be protected so that moisture cannot work its way into the internals of the antenna.

**REASON**

To assure the antenna is properly sealed so that moisture isn't allowed to enter the cavity of the antenna.

**DESCRIPTION**

Describes the proper application of RTV, and lacquer sealant to seal the antenna from moisture.

**MANPOWER**

Estimated one-half (0.5) hours to accomplish the sealing, and 12 hours for curing time.

**MATERIAL**

RTV, Lacquer sealant

## **TOOLING**

No special tooling is required.

## **WEIGHT**

No change.

## **II. ACCOMPLISHMENT INSTRUCTIONS**

### **A. MODIFICATION PROCEDURE**

1. Remove the antenna from the fuselage and clean it thoroughly.
2. Apply a ¼ inch wide stripe of Lacquer sealant to the joint of the antenna where the ray dome (white top) and the base (silver bottom) meet. If the antenna has come from SAGEM Avionics it will have had this step already done.
3. Apply a bead of RTV around the 4 mounting screws (wet install) prior to installing them into the antenna. After installing the 4 mounting screws apply a cap seal of RTV over the top of the screws to form a moisture barrier.
4. Apply a bead of RTV around the base of the antenna to assure that moisture cannot work its way underneath the antenna.

**NOTE:** The red ring on the antenna signifies the transmit TNC.

**NOTE:** On existing installations when the lacquer has not been applied to the antenna, and the antenna doesn't have a backing plate that allows for easy removal, proceed with step 2 above. In item 4 seal the tops of the screws securing the antenna. For optimal protection perform the procedure as shown above.