



REPUBLIC AVIATION CORPORATION
FARMINGDALE, LONG ISLAND, NEW YORK
• • • SERVICE DEPARTMENT • • •

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CORROSION PREVENTION TREATMENT FOR CABIN DOORS

Recently several instances of Seabee cabin doors showing signs of corrosion were brought to our attention and the condition was subsequently investigated as to cause and cure by our research laboratory.

This corrosion is related to the fact that under unusual atmospheric conditions condensation may occur between the inner and outer shells of the spotwelded doors.

In view of the above it is recommended that all Seabee owners inspect their airplanes to assure themselves of the inclusion of 1/4" holes in the lower rear corner of each door in conformance with the accompanying illustration.

In order to further insure the airplane against the possibility of the detrimental effects of condensation the following procedure may be adopted after accomplishing the above.

1. Remove the door to be treated from the airplane by pulling the hinge pins.
2. Remove the upholstery from the door.
3. Fashion a plug from ordinary cork to seal temporarily the drain hole.
4. Mix a solution of 2 1/2 lbs. Of Sodium Dichromate with 1 1/2 gallons of warm water. (Standard commercial quality Sodium Dichromate retails at approximately 10 cents per pound.)
5. Position the door with the outer shell down and pour the solution into the doors through the (2) 1-13/32" holes in the inner shells. Fill the door slowly to the saturation point and permit to soak for approximately 1/2 hour.
6. Remove the plug from the drain hole and partially raise door to an upright position permitting the excess solution to drain for a minimum of 12 hours.
7. When dry replace the upholstery and reassemble door to cabin.

Repeat the above process for each of the 3 doors.

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NOTE: The solution will cause a stain if it comes in contact with any visible surface. However, in the event such contact does inadvertently occur it will have no ill effect on the metal and can be painted over.

W. H. Ehmann
Service Manager

