



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

February 17, 1947

No. 15

### **SPECIAL ENGINE FAN INSPECTION AT FIRST 5 HOURS**

According to recent reports, a few Seabee engines have dropped their cooling fans, resulting in some damage inside the nacelle and an unnecessary loss of valuable flying time awaiting repair. Should this occur during flight, the danger is readily apparent, and it is recommended that the following procedure be observed carefully.

Investigation here at the factory revealed some of the fan capscrews loosening after a few hours operation. This has been attributed to the fan "hanging-up" on the mating surface of its adapter during original installation. After a few hours of operation, the fan tends to seat itself, leaving the capscrews loose. It is assumed some of these fall out and the balance shear off.

To combat this situation, whenever cooling fans have been removed they are to be reinstalled in the following manner:

1. Draw up all eight capscrews evenly by taking only two turns on each one, moving around the circle of bolts until the fan is seated firmly and the screws torqued to 15 to 20 pounds.
2. Do not bend safety tabs until after a ground run up of at least 5 minutes duration.
3. Re-torque capscrews to 15 to 20 foot pounds and bend up two tabs of each safety washer.

#### CAUTION

Under no circumstances should tabs be rebent because of the possibility of cracking.

The following inspection is to be performed 5 hours after each installation of the fan and at every regular 25-hour check.

Remove the grill from front of engine cowl and carefully inspect the 8 capscrews comprising the intermediate bolt circle. (See illustration.) Check for broken lock tabs or tabs which do not firmly grip the screw heads. Of the four tabs at each screw head, two should be in firm engagement and two should be flat. If there is any looseness in any screw, break off the two holding tabs to prevent their being used again. Tighten the screws to a torque of 15 to 20 foot-pounds and anchor the screw head by bending up the

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two unused tabs. Under no circumstances should tabs be rebent because of the possibility of cracking and subsequent failure. New locking tabs may be ordered from Aircooled Motors or Republic by part number Franklin #14816.

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