



# CLASS III SERVICE INSTRUCTIONS

55, 56TC, 58 58P, 58TC, 60, 76

No. 0878-248, Rev. I  
ATA Code 61-10

**SUBJECT:** PROPELLERS - PROCEDURE FOR DOME INSTALLATION OF HARTZELL FEATHERING COMPACT PROPELLERS

**SYNOPSIS OF CHANGE:** Added Duchess 76 serials to EFFECTIVITY:

**EFFECTIVITY:** BEECHCRAFT Baron 95-55, 95-A55, 95-B55 and 95-B55A, serials TC-1 through TC-349 and TC-351 and after;  
95-C55, 95-C55A, D55, D55A, E55 and E55A, serials TC-350 and TE-1 and after;  
56TC and A56TC, serials TG-2 through TG-94;  
58 and 58A, serials TH-1 and after;  
58P and 58PA, serials TJ-2 and after;  
58TC and 58TCA, serials TK-1 and after;  
Duke 60, A60 and B60, serials P-3 and after;  
Duchess 76, serials ME-1 and after;  
which are equipped with Hartzell propellers.

**REASON:** To decrease the possibility of a dome becoming loose or cracking.

**COMPLIANCE:** At the owner's discretion or when installation of the dome is necessary.

**APPROVAL:** FAA Approved.

**MANPOWER:** The following information is for planning purposes only:

Estimated man-hours: 1.5 hours.  
Suggested number of men: 1 man.

**MATERIAL:** The P/N AN960-616L washers, if required, may be ordered through BEECHCRAFT Aero or Aviation Centers and International Distributors and Dealers. The value of the material required for the incorporation of these Service Instructions on one airplane is to be advised. Price, when issued, will be subject to change without notice.

**WARRANTY:** None.

No BECP  
177 III  
R 581 III

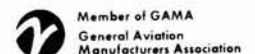
98-34237D

Beech Aircraft Corporation issues service information for the benefit of owners and fixed base operators in the form of three classes of Service Instructions. CLASS I (Red Border) are changes, inspections, and modifications that could affect safety. The factory considers compliance mandatory. CLASS II (Green Border) covers changes, modifications, improvements or inspections the factory feels will benefit the owner and although highly recommended, they are not considered mandatory compliance, unless specified at the time of issuance. Class I and II are mailed to:

- (a) BEECHCRAFT Aero or Aviation Centers and International Distributors and Dealers.
- (b) Owners of record on the FAA Registration list and the

BEECHCRAFT International Owner Notification Service List.  
(c) Those having a publications subscription.

CLASS III (No Border) covers changes which are optional, maintenance aids, product improvement kits and miscellaneous service information. Compliance is at the owner or operator's prerogative. Copies of Class III are distributed per a and c above. Information on Owner Notification Service or Subscriptions can be obtained through any BEECHCRAFT Aero or Aviation Center, International Distributor and Dealer, or the Factory. As Service Instructions are issued, temporary notation in the index should be made until the index is revised. Warranty will be allowed only when specifically defined in the Service Instructions and in accordance with Beech Warranty Policy.



## Service Instructions No. 0878-248, Rev. I

**SPECIAL TOOLS:** None.

**WEIGHT AND BALANCE:** None.

**REFERENCES:** Spinner Assembly Maintenance Instruction Guide, Hartzell Propeller Inc. Piqua, Ohio, Dated June 1974.

**PUBLICATIONS AFFECTED:** It is recommended that a note to "See Service Instructions No. 0878-248, Rev. I" be made in the following:

55 and 58 series Shop Manual copies, P/N 55-590000-13E or subsequent, Section 7;  
56TC Shop Manual copies, P/N 96-590003-5B or subsequent, Section 7;  
58P and 58TC Maintenance Manual copies, P/N 102-590000-5 or subsequent, Chapter 61-00;  
60 Maintenance Manual copies, P/N 60-590001-25 or subsequent, Chapter 61-00.  
76 Maintenance Manual copies, P/N 105-590000-7 or subsequent, Chapter 61-00.

### ACCOMPLISHMENT

**INSTRUCTIONS:** The procedure for accomplishing these Service Instructions is taken from Hartzell Propeller Inc. Publication "Spinner Assembly Maintenance Instruction Guide", dated June 1974, reprinted with permission of Hartzell Propeller Inc. Piqua, Ohio, and is as follows:

#### PROCEDURE FOR DOME INSTALLATION OF HARTZELL FEATHERING COMPACT PROPELLERS

To avoid the possibility of a dome becoming loose or cracking, special care must be given to proper alignment of the spinner shell with the low pitch stop check nut and the spinner bulkhead. The check nut is designed with a step to allow the proper forward alignment.

Install the dome shell over the propeller assembly; align the inside diameter of the dome shell with the stepped check nut. Start the second check nut into place and tighten only enough to remove all forward and aft movement. Observe the spinner shell mounting screw hole with that of the hole in the spinner bulkhead. If the two holes are not aligned, an adjustment of the bulkhead will have to be made.

If a misalignment of the bulkhead and shell is observed, the following procedure must be used to assure a tension preloading of the spinner assembly after installation is completed.

The only acceptable misalignment will be when the bulkhead screw hole is aft (toward the engine) of the spinner screw hole by one half of a hole. In this condition a light forward pressure on the bulkhead will allow alignment.

If proper alignment cannot be achieved, the bulkhead will have to be moved aft. Install AN960-616L washers between the hub and bulkhead or between the hub spacer and bulkhead. Use only enough AN960-616L washers to achieve a tension preloading of the spinner assembly.

#### CAUTION

The forward spinner bulkhead must be properly aligned and fully seated on the stepped check nut.

After proper alignment has been achieved, torque the hub bolts to 20-22 ft. lbs. This torque is based on a non-lubricated thread, with a  $\pm 10\%$  allowance. Install all spinner mounting screws with a fiber washer. Torque the forward check nut to 15-20 ft. lbs. and safety wire with .030 steel wire.

Install the spinner cap using the mounting screw (and washers if necessary). Check the screw length, being sure it will not contact the cylinder when in place.

### RECORD COMPLIANCE:

Upon completion of these Service Instructions, make an appropriate maintenance record entry.