



CLASS I

SERVICE INSTRUCTIONS

76

No. 1044
ATA Code 71-10

SUBJECT: POWER PLANT - REPLACEMENT OF COWL FLAP HINGE ASSEMBLIES

EFFECTIVITY: BEEHCRAFT Duchess 76, serials ME-1 through ME-6 and ME-8 through ME-79.

REASON: To replace the aluminum cowl flap hinge with an improved steel hinge.

COMPLIANCE: Beech Aircraft Corporation considers this to be a mandatory change and it should be accomplished as soon as possible after receipt of these Service Instructions, but no later than the next 50 service hours.

APPROVAL: FAA Approved - DOA CE-2.

MANPOWER: The following information is for planning purposes only:
Estimated man-hours: 6 hours.
Suggested number of men: 1 man.

MATERIAL: The following parts required for this modification may be ordered through BEEHCRAFT Aero or Aviation Centers and International Distributors and Dealers.

PART NUMBER	DESCRIPTION	QUANTITY PER AIRPLANE
105-910011-131	Hinge Half	4
MS20253-3-1880	Hinge Pin	2

WARRANTY: Warranty credit for parts and labor to the extent noted under MATERIAL and MANPOWER will be allowed for all claims submitted prior to December 31, 1979.

All warranty reimbursements are handled through franchised BEEHCRAFT outlets. Owners and operators may arrange with these outlets to perform the work and submit the standard Beech Aircraft Corporation warranty claim form to the Commercial Service Department, Beech Aircraft Corporation, Wichita, Kansas 67201.

SPECIAL TOOLS: None.

WEIGHT AND BALANCE: None.

REFERENCES: BEEHCRAFT Duchess 76 Maintenance Manual, P/N 105-590000-7 or subsequent, Chapter 12-20.

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

BEEHCRAFT 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 BEEHCRAFT 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.

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CLASS I



Service Instructions No. 1044

PUBLICATIONS AFFECTED: It is recommended that a note to "See Service Instructions No. 1044" be made in all BEECHCRAFT Duchess 76 Parts Catalog copies, P/N 105-590000-9 or subsequent, Chapter 71-10.

ACCOMPLISHMENT INSTRUCTIONS:

These Service Instructions may be accomplished on both cowl flap assemblies as follows:

1. Remove the attaching hardware and disconnect the cowl flap control rod end from the cowl flap.
 2. Remove the hinge pin and remove the cowl flap from the airplane.
 3. Drill out the rivets and remove the hinge halves from the cowling and the cowl flap. Care should be taken not to enlarge or elongate the rivet holes.
 4. Position a P/N 105-910011-131 hinge half on the cowling and clamp and/or cleco in place.
 5. Drill out the holes in the cowling and the hinge half by back drilling through the existing holes in the cowling with a #30 (.128 inch diameter) drill.
 6. Install the hinge half to the cowling using P/N MS20426AD4-4 rivets (obtain locally).
 7. Position a P/N 105-910011-131 hinge half on the cowl flap and clamp and/or cleco in place.
 8. Drill out the holes in the cowl flap and the hinge half by back drilling through the existing holes in the cowl flap with a #30 (.128 inch diameter) drill.
 9. Install the hinge half on the cowl flap using P/N MS20426AD4-4 rivets (obtain locally).
 10. Install the cowl flap on the cowling with a P/N MS20253-3-1880 hinge pin. Crimp the end lobes of the hinge to retain the hinge pin.
 11. Reinstall the cowl flap control rod end to the cowl flap using the existing hardware which was removed in step 1.
 12. Refer to the Duchess 76 Maintenance Manual, Chapter 12-20 and lubricate the cowl flap as required. Check the cowl flap for freedom of movement and proper travel.
 13. Touch up the paint on the cowling and cowl flap as required.
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RECORD COMPLIANCE: Upon completion of these Service Instructions, make an appropriate maintenance record entry.