



CLASS II

SERVICE INSTRUCTIONS

76

No. 1081
ATA Code 77-10

SUBJECT: ENGINE INDICATING - REPLACEMENT OF MANIFOLD PRESSURE FITTING

EFFECTIVITY: BEEHCRAFT Duchess 76, serials ME-1 through ME-183.

REASON: To reduce the possibility of interference with the engine cowling.

COMPLIANCE: At the owner's discretion, however, Beech Aircraft Corporation recommends that this modification be accomplished at the next scheduled inspection.

APPROVAL: FAA Approved - DOA CE-2.

MANPOWER: The following information is for planning purposes only:

Estimated man-hours: 1 hour.
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
105-910000-31	Fitting Assembly	2
* 120B1/8X1/8	Adapter	2

* P/N of Imperial-Eastman Corporation, 7500 Croname Road, Chicago, IL. 60648. May be obtained from local sources.

WARRANTY: Warranty credit for parts and labor to the extent noted under MATERIAL and MANPOWER will be allowed on all claims submitted prior to September 30, 1980.

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.

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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.

98-34238D

CLASS II



Service Instructions No. 1081

REFERENCES: BEEHCRAFT Duchess 76 Maintenance Manual, P/N 105-590000-7 or subsequent, Chapter 91-00.

PUBLICATIONS AFFECTED: It is recommended that a note to "See Service Instructions No. 1081" be made in all BEEHCRAFT Duchess 76 Parts Catalog copies, P/N 105-590000-9B or subsequent, Chapter 71-00.

ACCOMPLISHMENT INSTRUCTIONS:

These Service Instructions may be accomplished on both engines as follows:

1. Remove the upper engine cowling and gain access to the manifold pressure restrictor assembly which is located on the aft side of #3 cylinder.
2. Disconnect the manifold pressure hose assembly from the manifold pressure restrictor assembly and remove the restrictor assembly from the cylinder.
3. Install a P/N 120B1/8X1/8 adapter in the cylinder.
4. Install a P/N 105-910000-31 fitting assembly in the P/N 120B1/8X1/8 adapter.

NOTE

The fitting assembly must point aft with the small drain hole in the side of the fitting assembly down.

5. Connect the manifold pressure hose to the new P/N 105-910000-31 fitting assembly.

NOTE

Refer to the Duchess 76 Maintenance Manual, Chapter 91-00 for hose assembly torque values.

6. Reinstall the engine cowling.
7. Repeat steps 1 through 6 on the other engine.

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