



# CLASS I SERVICE INSTRUCTIONS

76

No. 1182, Rev. I  
ATA Code 73-00

**SUBJECT:** ENGINE AND FUEL CONTROL - INSTALLATION OF A GASKET BETWEEN THE CARBURETOR AIR BOX AND THE CARBURETOR

**SYNOPSIS OF CHANGE:** Changed bolt part number and added washer callout per the latest BEECHCRAFT Engineering information.

**EFFECTIVITY:** BEECHCRAFT Duchess 76, serials ME-1 through ME-403.

**REASON:** To assure that excess fuel will be properly drained overboard during ground starts.

**COMPLIANCE:** Beech Aircraft Corporation considers this to be a mandatory modification and it should be accomplished within the next 50 service hours or at the next scheduled inspection, whichever comes first.

### NOTE

Airplanes that have already accomplished the original issue of these Service Instructions should install the correct bolt length as directed in Revision I.

**APPROVAL:** FAA Approved.

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

Estimated man-hours: 3 hours per airplane.  
Suggested number of men: 1 man.

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

| PART NUMBER      | DESCRIPTION | QUANTITY       |
|------------------|-------------|----------------|
| MS20074-04-04/M/ | Bolt        | 8 per airplane |
| AN960-416L       | Washer      | 8 per airplane |
| 105-389014-1     | Gasket      | 4 per airplane |

DB-266  
5811  
R 8811

1 of 2

CLASS I

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.

08/14/0001



NOTE

Regardless of airplane time in service, a stock order for parts should be placed immediately. Parts will be shipped as soon as they become available.

**WARRANTY:** Warranty credit for parts and labor to the extent noted under MATERIAL and MANPOWER will be allowed only if the work is coordinated through a BEEHCRAFT Quality Service Center. All warranty claims must be submitted prior to December 31, 1981.

All warranty reimbursements are handled through franchised BEEHCRAFT Aero or Aviation Centers and International Distributors and Dealers. Owners and operators should arrange with these outlets to perform the work and have them submit the standard Beech Aircraft Corporation warranty claim form through BEEHCRAFT Parts and Equipment Marketing Wholesalers or International Distributors.

**SPECIAL TOOLS:** None.

**WEIGHT AND BALANCE:** None.

**REFERENCES:** BEEHCRAFT Duchess Maintenance Manual, P/N 105-590000-7 or subsequent, Chapter 71-10.

**PUBLICATIONS AFFECTED:** It is recommended that a note to "See Service Instructions No. 1182, Rev. I" be made in all Duchess 76 Parts Catalog copies, P/N 105-590000-9B or subsequent, Chapter 71-00.

**ACCOMPLISHMENT INSTRUCTIONS:** These Service Instructions may be accomplished as follows on both the LH and RH engines:

- |   |  |
|---|--|
| <ol style="list-style-type: none"> <li>1. Remove the engine cowling as directed in the Maintenance Manual.</li> <li>2. Remove and discard the existing MS20074-04-03 bolts and all washers which attach the carburetor air box to the carburetor.</li> <li>3. Insert one each P/N 105-389014-1 gasket between the carburetor and the bracket and a second P/N 105-389014-1 gasket between the same bracket and the</li> </ol> | <ol style="list-style-type: none"> <li>carburetor air box.</li> <li>4. Attach the carburetor air box and gaskets to the carburetor with four MS20074-04-04 /M/ bolts and four new AN960-416L washers and secure the bolts with safety wire. Check for positive seal of the gaskets. (Obtain safety wire from local sources.)</li> <li>5. Check induction hose connections for security.</li> <li>6. Reinstall the engine cowling.</li> </ol> |
|---|--|

---

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