

Kit No. 76-4002-1 S
Kit No. 76-4003-1 S

SUBJECT: NACELLES - INSTALLATION OF INSPECTION PLATES AND INSPECTION OF ENGINE MOUNT/NACELLE CHANNELS

EFFECTIVITY: BEECHCRAFT Duchess 76, serials ME-1 through ME-437.

REASON: PART I

To provide inspection plates to facilitate the Engine Mount/Nacelle Channels inspection specified in the Maintenance Manual, Chapter 57-00.

PART II

To provide a kit to repair the forward nacelle keel channels if a repair is indicated by the inspection described above.

COMPLIANCE: PART I

Beech Aircraft Corporation considers this to be a mandatory modification, and it should be accomplished prior to the accumulation of 1000 hours total time in service.

On airplanes with more than 1000 hours time in service at the time this Service Bulletin is released, this modification should be accomplished as soon as possible, but no later than the next 100 service hours.

PART II

If a repair is indicated by the inspection of the nacelle keel channels as specified in the Maintenance Manual, install Kit No. 76-4002-1 S prior to the next flight of the airplane.

No Airworthiness Directive has been issued on the matter covered by this Service Bulletin as of the issue date shown herein.

This Service Bulletin supersedes and cancels BEECHCRAFT Service Instructions No. 1237.

APPROVAL: Engineering data contained in this Service Bulletin is FAA approved.

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Beech Aircraft Corporation issues service information for the benefit of owners and fixed base operators in the form of two classes of Service Bulletins. MANDATORY (Red Border) Service Bulletins are changes, inspections and modifications that could affect safety. The factory considers compliance with these Service Bulletins mandatory. OPTIONAL (No Border) Service Bulletins cover changes, modifications, improvements or inspections the factory feels will benefit the owner and although highly recommended, they are not considered mandatory compliance at the time of issuance, unless so stated in the publication. Due to the wide range of information covered by the OPTIONAL Service Bulletin, each owner/operator is responsible for conducting a thorough review of each Optional Service Bulletin and determine if compliance is required based on the applicability of the OPTIONAL Service Bulletin to his particular set of operating conditions. Both classes are mailed to:

- (a) BEECHCRAFT Authorized Outlets.
- (b) Owners of record on the FAA Aircraft Registration Branch List and the BEECHCRAFT International Owner Notification Service List.

(c) Those having a publications subscription.

Information on Owner Notification Service or Subscriptions can be obtained through any BEECHCRAFT Authorized Outlet. As Service Bulletins are issued, temporary notification in the Service Bulletin Master Index should be made until the index is revised. Warranty will be allowed only when specifically defined in the Service Bulletin and in accordance with the Beech Aircraft Corporation Warranty Policy.

Unless otherwise designated, Beech Aircraft Corporation Service Bulletins as well as BEECHCRAFT kits are approved for installation on BEECHCRAFT airplanes in original or BEECHCRAFT modified configurations only. BEECHCRAFT Service Bulletins and Kits may not be compatible with airplanes modified by STC installations or modifications other than BEECHCRAFT Approved kits.

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MANDATORY

MANPOWER:

The following information is for planning purposes only:

PART I

Estimated man-hours: 8 hours.
Suggested number of men: 1 man.

PART II

Estimated man-hours: 116 hours.
Suggested number of men: 1 man.

The above is an estimate based on experienced personnel complying with this Service Bulletin. Occasionally, after work has started, conditions may be found which could result in additional man-hours.

MATERIAL:

The parts required for the modification in PART I are contained in Kit No. 76-4003-1 S. The parts and instructions for repair of the nacelle keel channels if required, are contained in Kit No. 76-4002-1 S. The kits may be ordered through BEECHCRAFT Aero or Aviation Centers and International Distributors and Dealers. The value of the kits required to incorporate this Service Bulletin on one airplane is to be advised. Prices, when issued, will be subject to change without notice. Beech Aircraft Corporation expressly reserves the right to supersede, cancel and/or declare obsolete any kits or publications that may be referenced in this Service Bulletin without prior notice.

NOTICE

All BEECHCRAFT kits, unless otherwise designated, are approved for installation on BEECHCRAFT airplanes in original or BEECHCRAFT modified configurations only. BEECHCRAFT kits may not be compatible with airplanes modified by STC installations or modifications other than BEECHCRAFT approved kits.

WARRANTY:

PART I

Warranty credit for parts and labor to the extent noted under MATERIAL and MANPOWER will be allowed on all affected airplanes for the initial modification only. No warranty credit will be allowed for subsequent inspections.

PART II

Warranty credit for parts will be allowed on airplanes which require repair. Labor will be pro-rated on 5000 service hours.

All warranty reimbursements are handled through franchised BEECHCRAFT 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 BEECHCRAFT Parts and Equipment Marketing Wholesalers or International Distributors.

SPECIAL TOOLS:

None.

WEIGHT AND BALANCE:

PART I

None.

PART II

WEIGHT (Lbs.)	ARM (In.)	MOMENT (Lbs./In.)
+ 1.67	+ 94.05	+ 157.06

The owner or operator is responsible to maintain compliance with FAR 23.25/CAR 3.74.

REFERENCES: BEECHCRAFT Duchess 76 Maintenance Manual, P/N 105-590000-7 or subsequent, Chapter 57-00.

**PUBLICATIONS
AFFECTED:** It is recommended that a note to "See Service Bulletin No. 2018" be made in the following:

Duchess 76 Parts Catalog copies, P/N 105-590000-9C or subsequent, Chapter 54-30;
Duchess 76 Maintenance Manual copies, P/N 105-590000-7 or subsequent, Chapter 57-00.

**ACCOMPLISHMENT
INSTRUCTIONS:** PART I

The parts and instructions required to install inboard and outboard inspection plates on both left and right engine nacelles are contained in Kit No. 76-4003-1 S.

PART II

Refer to the Maintenance Manual, Chapter 57-00, and perform an engine mount/nacelle channel inspection.

If cracks are found as a result of the inspection, place an AOG order for Kit No 76-4002-1 S. Each kit provides the parts and instructions for repair of the nacelle keel channel in both nacelles.

**RECORD
COMPLIANCE:** Upon completion of this Service Bulletin, make an appropriate maintenance record entry specifying the kit identification number and the kit serial number. It is recommended that the parts list contained in the kit be filed for future reference until the listing of parts has been incorporated into the Parts Catalog.