



CLASS I

# SERVICE INSTRUCTIONS

76

No. 1039  
ATA Code 79-30

**SUBJECT:** OIL - IMPROVED GROUNDING OF THE OIL PRESSURE TRANSDUCERS

**EFFECTIVITY:** BEECHCRAFT Duchess 76, serials ME-1 through ME-6 and ME-8 through ME-74.

**REASON:** To provide more reliable oil pressure indications by installing ground wires on the oil pressure transducers.

**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: 2 hours.  
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, or may be obtained from local sources.

PART NUMBER	DESCRIPTION	QUANTITY PER AIRPLANE
MIL-W5086/7 22GA	Wire	2 ft.
MS25036-103	Terminal	4
AN735D10	Clamp	2
MS35207-262	Screw	2
AN960-10	Washer	2
MS21042L3	Nut	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 September 30, 1979.

All warranty reimbursements are handled through franchised BEECHCRAFT 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.

DB-89  
379 I

1 of 2

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.

98-34239D

CLASS I

## Service Instructions No. 1039

- SPECIAL TOOLS:** None.
- WEIGHT AND BALANCE:** None.
- REFERENCES:** BEEHCRAFT Duchess 76 Maintenance Manual, P/N 105-590000-7 or subsequent, Chapter 71-00.
- PUBLICATIONS AFFECTED:** It is recommended that a note to "See Service Instructions No. 1039" be made in all BEEHCRAFT Duchess 76 Wiring Diagram Manual copies P/N 105-590000-15 or subsequent, Chapter 79-32.

### ACCOMPLISHMENT INSTRUCTIONS:

These Service Instructions may be accomplished as follows:

1. Remove the upper engine cowling.
2. Install a P/N MS25036-103 terminal on each end of an 8 inch piece of MIL-W5086/7, 22 gage wire.
3. Install a P/N AN735D10 clamp on the oil pressure line fitting of the oil pressure transducer. Use a P/N MS35207-262 screw, a P/N AN960-10 washer and a P/N MS21042L3 nut. Install one terminal of the 8 inch 22 gage wire assembly under the nut and washer.

#### NOTE

The oil pressure transducer is located in the engine compartment on the upper R.H. side of the firewall.

4. Attach the terminal on the other end of the wire assembly to the grounding stud which is located approximately 6 inches above and to the left of the oil pressure transducer.
5. Reinstall the upper engine cowling.
6. Repeat steps 1 through 5 on the oil pressure transducer on the other engine.
7. Refer to the Duchess 76 Maintenance Manual, Chapter 71-00 and ground run the engines to verify that the oil pressure indications are stable.

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