



# CLASS I SERVICE INSTRUCTIONS

76

No. 1065  
ATA Code 77-00

**SUBJECT:** ENGINE INDICATING - INSPECT THE ENGINE INSTRUMENT CLUSTER ASSEMBLY

**EFFECTIVITY:** BEECHCRAFT Duchess 76, serials ME-1 through ME-6 and ME-8 through ME-152.

**REASON:** To inspect the engine instrument cluster assembly for date of manufacture, and if necessary, remove tape which may interfere with the operation of the engine instruments.

**COMPLIANCE:** Beech Aircraft Corporation considers this to be a mandatory inspection and or modification 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 for inspection: 1 hour.  
Estimated man-hours to remove tape: 2 hours.  
Suggested number of men: 1 man.

**MATERIAL:** The Scotch Brand Magic Transparent Tape No. 810 (P/N of Minnesota Mining and Manufacturing Company, St. Paul, MN: 55101), if required, may be obtained from local sources.

**WARRANTY:** Warranty credit for parts and labor to the extent noted under MATERIAL and MANPOWER will be allowed for all claims submitted prior to January 1, 1980.  
  
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.

**SPECIAL TOOLS:** None.

**WEIGHT AND BALANCE:** None.

**REFERENCES:** BEECHCRAFT Duchess 76 Maintenance Manual, P/N 105-590000-7 or subsequent, Chapters 71-00 and 77-00.

**PUBLICATIONS AFFECTED:** 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) 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.

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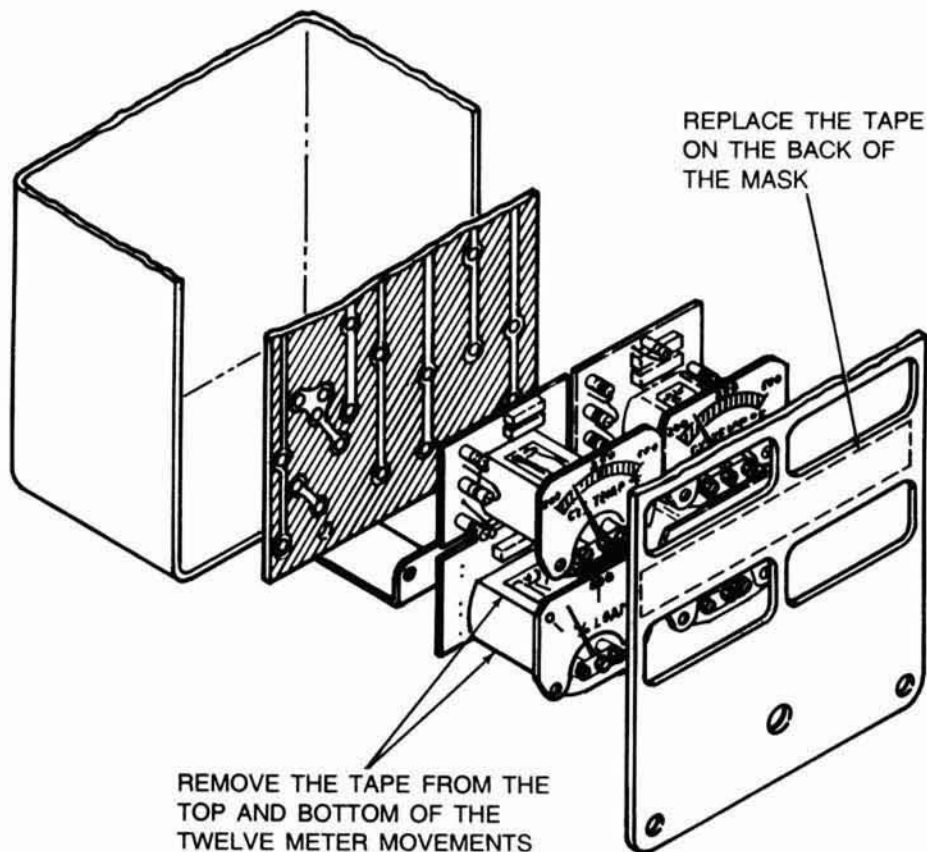
CLASS I

## Service Instructions No. 1065

### ACCOMPLISHMENT INSTRUCTIONS:

These Service Instructions may be accomplished as follows:

1. Turn off all electrical power and disconnect the battery.
2. Remove the two screws attaching the glareshield to the top of the instrument panel and remove the glareshield.
3. Inspect the back of the engine instrument cluster for the date of manufacture. If the date of manufacture is December 10, 1978 or later no further action is necessary. Reinstall the glareshield and reconnect the battery. If the date of manufacture is prior to December 10, 1978 proceed to step 4.
4. Refer to the Duchess 76 Maintenance Manual, Chapter 77-00 and remove the engine instrument cluster.
5. Remove the black tape from around the sides of the engine instrument cluster and remove the six screws which are exposed by removing the tape.
6. Carefully lift the mask and the instrument cluster from the case. Observe caution to prevent damage to the mask, instruments, printed circuit boards or to the internal wiring.
7. Using a small pair of tweezers, remove the yellow cellophane tape attached to the top and bottom of the twelve meter movements in the engine instrument cluster (see illustration). If it is necessary to remove an individual instrument to gain access to the meter movement, refer to the Duchess 76 Maintenance Manual, Chapter 77-00 to remove the instrument.



8. Remove the four screws attaching the engine instrument cluster mask to the supports and tilt the mask away from the engine instrument cluster to gain access to the back of the mask. Care should be taken not to damage the lights or wires which are attached to the mask.
9. Remove any yellow cellophane tape from the back of the mask and replace it with Scotch Brand Magic Transparent Tape No. 810 (obtain locally) (see illustration).

**NOTE**

Do not use shiny cellophane tape, use only the frosted Scotch Brand Magic Transparent Tape.

10. Reattach the mask to the supports using the four screws which were removed in step 8.
11. Carefully replace the engine instrument cluster in the case and reinstall the six screws which were removed in step 5. Reinstall the black tape, which was removed in step 5, around the sides of the case.
12. Refer to the Duchess 76 Maintenance Manual, Chapter 77-00 and reinstall the engine instrument cluster.
13. Reinstall the glareshield and any equipment or panels which were removed to accomplish these Service Instructions.
14. Reconnect the battery and refer to the Duchess 76 Maintenance Manual, Chapter 71-00 and ground run the engines. Check to assure that all engine instruments are functioning properly.

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**RECORD COMPLIANCE**

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