



CLASS II

# SERVICE INSTRUCTIONS

19,23,24,33,35,36,55,  
58,58P,60,80,90,99,100,200

No. 0823-491  
ATA Code 23-20

**SUBJECT:** COMMUNICATIONS - COMPLIANCE WITH FEDERAL AIR REGULATIONS 91.177

**EFFECTIVITY:** BEECHCRAFT B19 Sport 150, serials MB-731 through MB-786;  
C23 Sundowner 180, serials M-1604 through M-1753, M-1755 and M-1756;  
B24R Sierra 200, serials MC-303 through MC-393;  
Bonanza F33A, serials CE-550 through CE-625;  
F33C, serials CJ-81 through CJ-114;  
V35B, serials D-9670 through D-9837;  
A36, serials E-607 through E-787 and E-789 through E-799;  
Baron B55 and B55A, serials TC-1827 through TC-1886, TC-1888, TC-1889 and TC-1902 through TC-1918;  
E55 and E55A, serials TE-1015 through TE-1060, TE-1063 through TE-1065 and TE-1067;  
58 and 58A, serials TH-548 through TH-668, TH-670 and TH-672 through TH-707;  
58P, serials TJ-3 through TJ-22, TJ-24 and TJ-25;  
Duke B60, serials P-321 through P-374;  
Queen Air B80, serials LD-493 through LD-502 and LD-504;  
King Air C90, serials LJ-648 through LJ-678;  
E90, serials LW-126 through LW-152 and LW-154 through LW-165;  
B99 Airliner, serials U-160 through U-164;  
King Air A100, serials B-207 through B-221, B-224 and B-225;  
Super King Air 200, serials BB-31 through BB-87 and BB-89 through BB-106.

**NOTE**

The above effectivity for warranty reimbursement is applicable only to airplanes manufactured between January 1, 1975 and December 31, 1975 which had factory installed transponders. The FAA Regulations applies to all airplanes having transponders as of January 1, 1976.

**REASON:** To allow warranty coverage on the above noted airplanes for compliance with the new Federal Air Regulations 91.177 and Appendix F of Part 43, "ATC transponder test and inspections." The regulation which became effective January 1, 1976 states that no ATC transponder is to be operated which is not in compliance with the current Federal Air Regulations concerning ATC transponders.

**COMPLIANCE:** Beech Aircraft Corporation recommends that this be accomplished as soon as possible upon the receipt of these Service Instructions, for the purpose of complying with regulations as stated under REASON.

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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

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.

- (a) BEECHCRAFT Aero or Aviation Centers and International Distributors and Dealers.
- (b) Owners of record on the FAA Registration list and the

98-34238D

CLASS II

**Service Instructions No. 0823-491**

- DESCRIPTION:** The transponder is to be tested and inspected, and proper documentation of compliance with Federal Air Regulations 91.177 and Appendix F of Part 43 is to be made.
- APPROVAL:** FAA Approved - DOA CE-2.
- MANPOWER:** The following information is for planning purposes only:  
  
Estimated man-hours required for testing and inspection: 2 hours.  
Suggested number of men for testing and inspection: 1 man.
- MATERIAL:** None.
- WARRANTY:** Warranty will be allowed for labor not to exceed the man-hours listed under MANPOWER for airplanes which were manufactured by Beech Aircraft Corporation between January 1, 1975 through December 31, 1975. Warranty is allowed, on a one time basis, for testing and inspection procedure only and only on airplanes which were delivered with factory installed transponders.  
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.
- REFERENCES:** Federal Air Regulations 91.177 and Appendix F of Part 43.
- PUBLICATIONS AFFECTED:** None.
- ACCOMPLISHMENT INSTRUCTIONS:** These Service Instructions may be accomplished as follows:

**NOTE**

Beech Aircraft Corporation accomplished the testing on some airplanes prior to the effective date of the new regulations. From those records log book stickers have been mailed to the appropriate airplane owners.

1. On Queen Air B80, King Air C90, E90, A100, B99 Airliner and Super King Air 200 airplanes, testing and inspection of the original transponder will be necessary -
  - a. If the original transponder has been removed for repair or replacement.
  - b. If a log book entry sticker has not been received by mail from Beech Aircraft Corporation.
2. In the event the original transponder has been repaired or replaced or a log book entry sticker has not been received, follow the procedures outlined in Federal Air Regulations 91.177 and Appendix F of Part 43.
3. On B19 Sport 150, C23 Sundowner 180, B24R Sierra 200, Bonanza F33A, F33C, V35B, A36, Baron B55, B55A, E55, E55A, 58, 58A, 58P and Duke B60 testing and inspection will be required.
  - a. Refer to Federal Air Regulations 91.177 and Appendix F of Part 43 and follow the procedures as outlined.

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- RECORD COMPLIANCE:** Upon completion of these Service Instructions, make an appropriate maintenance record entry complying with the intent of Federal Air Regulations 91.177 and Appendix F of Part 43.