



CLASS I

SERVICE INSTRUCTIONS

33, 35, 36, 55, 56TC, 58, 58P, 58TC, 70, 80, 90, 99, 100, 200

No. 0629-150, Rev. II
ATA Code 27-00

SUBJECT: FLIGHT CONTROLS - INSPECTION FOR PROPER SCREWS ON RUDDER AND ELEVATOR HINGES AND ON RUDDER, ELEVATOR AND AILERON BELL CRANKS

SYNOPSIS OF CHANGE: Added airplane serials and corrected screw callouts for 200 and 200T airplanes.

EFFECTIVITY: Any of the following airplanes which have accomplished the original issue of these Service Instructions do not need to accomplish Rev II

BEECHCRAFT Debonair/Bonanza 35-B33, 35-C33 and G33, serials CD-700, CD-970, CD-1066 and CD-1292 through CD-1304,
 35-C33A and F33A, serials CE-62, CE-372 and CE-447 through CE-684,
 F33C, serials CJ-31 through CJ-128,
 V35B and V35B-TC, serials D-9478 through D-9480, D-9482 through D-9531, D-9533 through D-9536 and D-9539 through D-9968,
 A36, serials E-323 and E-441 through E-954,
 Baron 95-A55, 95-B55 and 95-B55A, serials TC-241, TC-661, TC-1510 and TC-1570 through TC-2011,
 95-C55, 95-C55A, D55, D55A, E55 and E55A, serials TE-271, TE-415, TE-485, TE-615, TE-703, TE-710, TE-905, TE-911, TE-923 through TE-937, TE-939, TE-940 and TE-942 through TE-1084,
 Turbo-Baron 56TC, serials TG-78 and TG-83,
 Baron 58 and 58A, serials TH-49, TH-77, TH-114, TH-145, TH-180, TH-217, TH-324, TH-340 and TH-343 through TH-779,
 58P and 58PA, serials TJ-2 through TJ-97,
 58TC and 58TCA, serials TK-1 through TK-37,
 Queen Air 70, serials LB-31 thru LB-35;
 B80, serials LD-441 through LD-511,
 King Air B90 and C90, serials LJ-500 through LJ-706;
 E90, serials LW-1 through LW-209;
 99, 99A and B99 Airliner, serials U-134 through U-164;
 King Air 100 and A100, serials B-61 through B-178, B-180 through B-204 and B-206 through B-231;
 B100, serials BE-1 through BE-19,
 Super King Air 200, serials BB-2 through BB-185, BB-187 through BB-199,
 200T, serial BT-1,
 All spare rudders and elevators for Bonanzas and Barons, and rudders for Queen Airs and King Airs which were shipped from Beech Aircraft Corporation during the period May 1, 1973 through July 1, 1976

REASON: To inspect for proper attachment screws

COMPLIANCE: Beech Aircraft Corporation considers this to be a mandatory inspection and it should be

No BECP
174
R 478 I
R 978 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 effect safety. The factory considers compliance is mandatory. These are mailed to

- (a) Owners of record on the FAA Registration list
- (b) Those having a publications subscription.
- (c) BEECHCRAFT Parts and Service Outlets.

Those owners previously requesting notification by card will receive a card on Class I and II Service Instructions 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 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 II and III are distributed per b 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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Service Instructions No. 0629-150, Rev. II

accomplished as soon as possible after receipt of these Service Instructions, but no later than the next 100 service hours. An FAA Airworthiness Directive No. 74-13-02, Amendment 39-1874 or subsequent has been issued on this subject.

DESCRIPTION: Rudder and elevator hinges, and rudder, elevator, and aileron bell cranks indicated in the ACCOMPLISHMENT INSTRUCTIONS are to be inspected for proper attachment screws. Screws are replaced as necessary.

APPROVAL: FAA Approved - DOA CE-2

MANPOWER: The following information is for planning purposes only.

Estimated man-hours for inspection of hinge screws on elevators or rudder 1-2 hours
 Estimated man-hours for replacement of hinge screws on elevators or rudder 2-1 2 hours
 Estimated man-hours for inspection of cable attachment screws on the forward rudder bell crank and or the forward elevator bell crank 2 hours
 Estimated man-hours for replacement of cable attachment screws on the forward rudder bell crank and or the forward elevator bell crank 2-1 2 hours
 Estimated man-hours for inspection of cable attachment screws on the aileron bell crank 1 hour
 Estimated man-hours for replacement of cable attachment screws on the aileron bell crank 1-1/2 hours
 Estimated man-hours for inspection of the cable attachment screws on the aft rudder bell crank (or quadrant assembly) and/or the aft elevator bell crank 1 hour
 Estimated man-hours for replacement of cable attachment screws on the aft rudder bell crank (or quadrant assembly) and or the aft elevator bell crank 1 hour
 Suggested number of men 1 man

MATERIAL: The following parts, if required, are available through your BEECHCRAFT Parts and Service Outlet.

MODEL	PART NUMBER	APPLICATION	QUANTITY
F33A, F33C, G33, V35B, V35B-TC, A36, 95-B55, 95-B55A, E55, E55A, 58, 58A, 58P, 58PA, 58TC, 58TCA, 70, B80, B90, C90, E90, 99, 99A, B99, 100, A100, B100	AN502-10-10	Rudder or elevator hinge attachment on light airplanes. Applicable to the rudder only on 70, B80, B90, C90, E90, 99, 99A, B99, 100, A100, B100	4 per assembly
70, B80, B90, C90, E90, 99, 99A, B99, 100, A100, B100, 200, 200T.	AN502-10-12	Elevator cable attachment to forward bell crank	2 per bell crank
70, B80, B90, C90, E90, 99, 99A, B99, 100, A100, B100	AN503-8-6	Aileron cable attachment to bell crank or rudder cable attachment to aft bell crank	2 per bell crank
99, 99A, B99, 100, A100, B100, 200, 200T	AN503-8-8	Elevator cable attachment to aft bell crank Rudder cable attachment to forward bell crank and aft quadrant assembly and aileron cable attachment to bell crank (200 and 200T only).	2 per bell crank or quadrant assembly

MODEL	PART NUMBER	APPLICATION	QUANTITY
70, B80, B90, C90, E90, 99, 99A, B99, 100, A100, B100	AN503-8-10	Rudder cable attachment to forward bell crank.	2 per bell crank

WARRANTY:

Unless previously accomplished, warranty credit for parts replacement and labor to the extent noted under MATERIAL and MANPOWER will be allowed on claims received prior to February 1, 1979. All orders for replacement parts should be noted that the parts are on warranty request.

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:

None

PUBLICATIONS AFFECTED:

None

ACCOMPLISHMENT INSTRUCTIONS:

These Service Instructions may be accomplished as follows:

1. Inspect the screws on the following installation for one or two "X" marks (raised or impression) on the screw head. If either one or two "X" marks are present, no further action is necessary. If no "X" marks are found, the screws must be replaced with the appropriate screws as listed under MATERIAL.

a. Hinge bracket attachment screws on the leading edge of the rudder and elevators on all noted Bonanza and Baron serials.

b. Hinge bracket attachment screws on the leading edge of the rudder on all noted 70, B80, B90, C90, E90, 99, 99A, B99, 100, A100 and B100 serials.

c. The elevator cable attachment screws on the forward elevator bell crank on all noted 70, B80, B90, C90, E90, 99, 99A, B99, 100, A100, B100, 200 and 200T serials. The forward elevator bell crank is located under the pilot's floorboard.

d. The elevator cable attachment screws on the aft elevator bell crank on all noted 99, 99A, B99, 100, A100, B100, 200 and 200T serials. The aft elevator bell crank is located in the fuselage tail section.

e. The rudder cable attachment screws on the forward and aft rudder bell crank or quadrant assembly on all noted 70, B80, B90, C90, E90, 99, 99A, B99, 100, A100, B100, 200 and 200T serials. The forward rudder bell crank is located under the pilot's floorboards just aft of the LH rudder pedals. The aft rudder bell crank or quadrant assembly is located in the fuselage tail section.

f. The aileron cable attachment screws on the aileron bell crank on all noted 70, B80, B90, C90, E90, 99, 99A, B99, 100, A100, B100, 200 and 200T serials. The aileron bell crank is located under the floorboards just forward of the rear spar.

RECORD COMPLIANCE:

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