

Kit No. 35-4016-3 S
Kit No. 35-4016-5 S
Kit No. 35-4016-7 S
Kit No. 35-4016-9 S

SUBJECT: FLIGHT CONTROLS - STRUCTURAL INSPECTION AND INSTALLATION OF A STABILIZER REINFORCEMENT KIT

**OPERATIONAL
BENEFITS:**

Beech Aircraft Corporation is issuing this Service Bulletin to enable compliance with a future Airworthiness Directive on this subject.

Airworthiness Directive No. 86-21-07 will be superseded to eliminate the speed restrictions which were initiated in Airworthiness Directive 86-21-07 and BEECHCRAFT Safety Communique No. 25-74. A portion of the new Airworthiness Directive will require the inspection and installation of the applicable kit which is listed in this Service Bulletin. Compliance with this Service Bulletin will be an essential part of the new Airworthiness Directive required action.

EFFECTIVITY:

BEECHCRAFT Bonanza C35, D35, E35, F35, G35, H35, J35, K35, M35, N35, P35, S35, S35-TC, V35, V35-TC, V35A, V35A-TC, V35B and V35B-TC, serials D-2681 through D-10403 and D-15002.

COMPLIANCE:

Beech Aircraft Corporation considers this to be a mandatory modification and it should be accomplished as soon as possible after receipt of this Service Bulletin, but no later than May 31, 1988.

APPROVAL:

Engineering data contained in this Service Bulletin is FAA approved.

MANPOWER:

The following information is for planning purposes only:

Estimated man-hours for installation of Kit No. 35-4016-3 S: 32 man-hours.

Estimated man-hours for installation of Kit No. 35-4016-5 S: 13 man-hours.

Estimated man-hours for installation of Kit No. 35-4016-7 S: 16 man-hours.

Estimated man-hours for installation of Kit No. 35-4016-9 S: 2 man-hours.

Suggested number of men: 1 man.

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

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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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MATERIAL:

The parts required to accomplish this Service Bulletin are contained in the following kits:

Model C35, D35, E35, F35 and G35 (serials D-2681 through D-4865 and D-15002)

PART NUMBER	DESCRIPTION	QUANTITY PER AIRPLANE
35-4016-3 S	Kit Information - Stabilizer Reinforcement	1 Required

Model H35, J35, K35 and M35 (serials D-4866 through D-6561)

PART NUMBER	DESCRIPTION	QUANTITY PER AIRPLANE
35-4016-5 S	Kit Information - Stabilizer Reinforcement	1 Required

Model N35, P35, S35, S35-TC, V35, V35-TC, V35A, V35A-TC, V35B and V35B-TC (serials D-6562 through D-10403)

PART NUMBER	DESCRIPTION	QUANTITY PER AIRPLANE
35-4016-7 S	Kit Information - Stabilizer Reinforcement	1 Required

Model C35, D35, E35, F35 and G35 (serials D-2681 through D-4865 and D-15002)

PART NUMBER	DESCRIPTION	QUANTITY PER AIRPLANE
* 35-4016-9 S	Kit Information - Stabilizer Reinforcement	1 Required

* This kit is required on a limited number of airplanes which are equipped with an additional stabilizer access plate. The additional plate is located between the forward and rear stabilizer spars. Examine individual airplanes and confirm the need for this kit before ordering.

NOTICE

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

WARRANTY CREDIT:

Beech Aircraft Corporation will provide warranty credit based on the following conditions:

- A. The airplane must be licensed with a current annual inspection.
- B. The airplane is equipped with an airworthy empennage and tail section.
- C. Form 52-31297B has been properly completed and returned to Beech Aircraft Corporation.

DUE TO THE CONDITIONS DESCRIBED ABOVE, BEECH AIRCRAFT CORPORATION REQUIRES THAT THE AIRCRAFT BE INSPECTED PRIOR TO INSTALLATION OF THE APPLICABLE KIT TO ENSURE THAT THE OWNER IS AWARE OF THE AIRWORTHY STATUS OF THE AIRPLANE.

If this modification is to be accomplished at a BEECHCRAFT Service Center:

Warranty credit for parts and labor to the extent noted under MATERIAL and MAN-POWER will be allowed on all affected airplanes. Contact the nearest BEECHCRAFT Service Center rated to perform maintenance on Bonanza series airplanes and schedule installation of the appropriate kit. The service center will install the kit and apply the applicable warranty credit amount. The owner may be required to pay for any additional repairs over and above the warranty allowance.

All warranty reimbursements are handled through franchised BEECHCRAFT Authorized Outlets. 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 a BEECHCRAFT Authorized Outlet.

If this modification is to be accomplished at a facility other than a BEECHCRAFT Service Center:

Contact the nearest authorized BEECHCRAFT Parts Outlet to purchase the applicable kit for your airplane. Prices will be held firm through May 30, 1988 and are as follows:

Kit No. 35-4016-3 S = \$500.00

Kit No. 35-4016-5 S = \$400.00

Kit No. 35-4016-7 S = \$400.00

Kit No. 35-4016-9 S = \$100.00

The owner should ensure the non-BEECHCRAFT maintenance facility is properly equipped with the special tools listed in this Service Bulletin **PRIOR TO** scheduling the kit installation.

Upon installation of the kit, return the compliance verification form (TAN copy of Form No. 52-31297B contained in the kit) to Beech Aircraft Corporation.

Return the pink copy to the BEECHCRAFT Parts Outlet where the kit was purchased and they will submit the warranty claim in your behalf. Beech will return credit for the kit plus a limited installation incentive allowance as follows:

Kit No. 35-4016-3 S = \$900.00

Kit No. 35-4016-5 S = \$375.00

Kit No. 35-4016-7 S = \$450.00

Kit No. 35-4016-9 S = \$60.00

Warranty coverage offered in this Service Bulletin will expire 12 months from the last day of the month this Service Bulletin is issued. After this date, the owner/operator assumes the responsibility for compliance and cost. Beech Aircraft Corporation reserves the right to void continued warranty coverage in the area affected by this Service Bulletin if this Service Bulletin is not complied with.

SPECIAL TOOLS:

Ruddervator rigging travel boards and a differential mechanism rigging fixture must be used to properly rig empennage control surfaces. Refer to applicable shop manuals for tool part numbers and usage instructions. The use of a bubble protractor is not considered adequate to set the ruddervator neutral point. A travel board must be used. However, with the ruddervator set at neutral, a bubble protractor may be used to set ruddervator tab travel.

WEIGHT AND BALANCE:

See kit drawing for weight and balance information.

REFERENCES:

None.

**PUBLICATIONS
AFFECTED:**

It is recommended that a note to "See Service Bulletin No. 2188" be made in the following:

BEECHCRAFT C35 Pilot's Operating Handbook and FAA Approved Airplane Flight Manual, P/N 35-590057-97 (latest revision A2, dated March, 1987);

BEECHCRAFT D35 Pilot's Operating Handbook and FAA Approved Airplane Flight Manual, P/N 35-590061-7 (latest revision A2, dated March, 1987);

BEECHCRAFT E35 Pilot's Operating Handbook and FAA Approved Airplane Flight Manual, P/N 35-590069-23 (latest revision A2, dated March, 1987);

BEECHCRAFT F35 Pilot's Operating Handbook and FAA Approved Airplane Flight Manual, P/N 35-590071-13 (latest revision A2, dated March, 1987);

BEECHCRAFT G35 Pilot's Operating Handbook and FAA Approved Airplane Flight Manual, P/N 35-590072-9 (latest revision A2, dated March, 1987);

BEECHCRAFT H35 Pilot's Operating Handbook and FAA Approved Airplane Flight Manual, P/N 35-590073-15 (latest revision A2, dated March, 1987);

BEECHCRAFT J35 Pilot's Operating Handbook and FAA Approved Airplane Flight Manual, P/N 35-590079-5 (latest revision A2, dated March, 1987);

BEECHCRAFT K35, M35 Pilot's Operating Handbook and FAA Approved Airplane Flight Manual, P/N 35-590086-3 (latest revision B3, dated March, 1987);

BEECHCRAFT N35 P35 Pilot's Operating Handbook and FAA Approved Airplane Flight Manual, P/N 35-590094-7 (latest revision A3, dated March, 1987);

BEECHCRAFT S35 Pilot's Operating Handbook and FAA Approved Airplane Flight Manual, P/N 35-590110-11 (latest revision B2, dated March, 1987);

BEECHCRAFT V35, V35A, V35B Pilot's Operating Handbook and FAA Approved Airplane Flight Manual (D-7977 through D-9947), P/N 35-590118-31 (latest revision B2, dated March, 1987);

BEECHCRAFT V35B Pilot's Operating Handbook and FAA Approved Airplane Flight Manual (D-9948 and after), P/N 35-590118-29 (latest revision A10, dated March, 1987);

BEECHCRAFT S35-TC, V35-TC, V35A-TC and V35B-TC FAA Approved Airplane Flight Manual Supplement P/N 35-590118-47 or subsequent, dated March, 1987;

BEECHCRAFT S35-TC FAA Approved Airplane Flight Manual, P/N 35-590110-3 or subsequent, dated 1-15-64, 3-31-64, 7-8-64 or 8-18-65;

BEECHCRAFT V35-TC FAA Approved Airplane Flight Manual, P/N 35-590113-3 or subsequent, dated 10-13-65;

BEECHCRAFT V35A-TC FAA Approved Airplane Flight Manual, P/N 35-590116-3 or subsequent, dated 9-22-67, 9-20-68 or 10-16-70;

BEECHCRAFT V35B-TC FAA Approved Airplane Flight Manual, P/N 35-590118-11 or subsequent, dated 9-12-69 or 6-30-70;

BEECHCRAFT V35B-TC FAA Approved Airplane Flight Manual, P/N 35-590118-23 or subsequent, dated 8-18-72;

BEECHCRAFT 35 Shop Manual, P/N 35-590096B or subsequent, Section 4;

BEECHCRAFT 33, 35, 36 Series Maintenance Manual, P/N 36-590001-9 or subsequent, Chapter 51-10 and 55-00;

BEECHCRAFT 35 through G35 Parts Catalog, P/N 35-590028B or subsequent, Section 2;

BEECHCRAFT H35 through V35A-TC Parts Catalog, P/N 35-590015-9C or subsequent, Figure 26;

BEECHCRAFT V35B Parts Catalog, P/N 35-590102-5E or subsequent, Figure 132.

**ACCOMPLISHMENT
INSTRUCTIONS:**

The instructions for required inspections and reinforcement of the stabilizers are contained in the kits listed in MATERIAL.

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.

NOTE

If you are no longer in possession of this airplane, please forward this information to the present owner.