

## SERVICE BULLETIN

### Beechcraft

**TITLE: ELECTRICAL POWER - CIRCUIT BREAKER SWITCH REPLACEMENT**

### 1. Planning Information

#### A. Effectivity

(1) Airplanes

Beechcraft Bonanza Models F33 and G33, Serials CD-1235 through CD-1304; F33A, Serials CE-290 through CE-1791; F33C, Serials CJ-26 through CJ-179; V35B, Serials D-9069 through D-10403; A36TC and B36TC, EA-1 through EA-695;

Beechcraft Model A36 Bonanza, Serials E-185 through E-3629, E-3631 through E-3635.

Beechcraft Baron Models 95-B55, Serials TC-1913, TC-1936 through TC-2456; D55, Serials TE-452 through TE-767; E55, Serials TE-768 through TE-1201; A56TC, Serials TG-84 through TG-94; 58P, Serials TJ-3 through TJ-497; 58TC, Serials TK-1 through TK-151;

Beechcraft Model 58 Baron, Serials TH-1 through TH-2124.

Beechcraft Model 77 Skipper, Serials WA-1 through WA-312.

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

(2) Spares

Spare units according to the original part numbers listed in Paragraph 2.C.

#### B. Reason

Raytheon Aircraft Company (RAC) has received reports from piston owner/operators of circuit breaker toggle switches becoming overheated. These switches are utilized in various electrical systems throughout the airplane. This Service Bulletin is being issued to announce a replacement circuit breaker toggle switch with improved internal isolation, therefore, eliminating the potential overheating condition.

The export of these commodities, technology or software are subject to the US Export Administration Regulations. Diversion contrary to U.S. law is prohibited. For guidance on export control requirements, contact the Commerce Department's Bureau of Export Administration at 202-482-4811 or at [www.bxa.doc.gov](http://www.bxa.doc.gov).

Raytheon Aircraft Company (RAC) issues Service Information for the benefit of owners and fixed base operators in the form of two classes of Service Bulletins. The first class, Mandatory Service Bulletins (red border) includes changes, inspections and modifications that could affect safety or crashworthiness. RAC also issues Service Bulletins with no red border which are designated as either recommended or optional in the compliance section within the bulletin. In the case of recommended Service Bulletins, RAC feels the changes, modifications, improvements or inspections will benefit the owner/operator and although highly recommended, Recommended Service Bulletins are not considered mandatory at the time of issuance. In the case of Optional Service Bulletins, compliance with the changes, modifications, improvements or inspections is at the owner/operator's discretion.

Both classes are mailed to:

- (a) RAC Authorized Service Centers.
- (b) Owners of record on the FAA Aircraft Registration Branch List and the RAC International Owner Notification/Registration Service List.
- (c) Those having a publications subscription.

Information on Owner Notification Service or subscription can be obtained through any RAC Authorized Service Center. As Mandatory Service Bulletins and 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 RAC Warranty Policy.

Unless otherwise designated, RAC Mandatory Service Bulletins, Service Bulletins and RAC Kits are approved for installation on RAC airplanes in original or RAC modified configurations only. RAC Mandatory Service Bulletins, Service Bulletins and Kits may not be compatible with airplanes modified by STC installations or modifications other than RAC approved kits.



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### C. Description

This Service Bulletin provides replacement part number information for the circuit breaker toggle switch used throughout piston airplanes.

### D. Compliance

Raytheon Aircraft Company recommends that this Service Bulletin be accomplished on condition as part replacement is required.

### E. Approval

The engineering data contained in this Service Bulletin is FAA approved.

### F. Manpower

The following information is for planning purposes only:

Estimated man-hours: time varies per location of circuit breaker toggle switch.

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.

### G. Weight and Balance

None.

### H. Electrical Load Data

Not changed.

### I. Software Accomplishment Summary

Not applicable.

### J. References

The appropriate chapter of the applicable model Maintenance/Shop Manual.

### K. Publications Affected

It is recommended that a note "See Service Bulletin No. 24-3735" be made in the following:

The appropriate chapter of the applicable model Illustrated Parts Catalog.

The appropriate chapter of the applicable model Wiring Diagram Manual.

### L. Interchangeability of Parts

Not applicable.

### M. Warranty Credit

Not applicable.

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## 2. Material Information

### A. Materials - Price and Availability

Contact a Raytheon Aircraft Authorized Service Center for information.

### B. Industry Support

Not applicable.

### C. Airplanes

The following parts required for this modification may be ordered through a Raytheon Aircraft Authorized Service Center or RAPID:

<b>Original Part Number</b>	<b>Description</b>	<b>Replacement Part Number</b>
35-380132-1	Circuit Breaker Toggle Switch	35-380132-61
35-380132-3	Circuit Breaker Toggle Switch	35-380132-63
35-380132-5	Circuit Breaker Toggle Switch	35-380132-65
35-380132-7	Circuit Breaker Toggle Switch	35-380132-67
35-380132-9	Circuit Breaker Toggle Switch	35-380132-69
35-380132-11	Circuit Breaker Toggle Switch	35-380132-71
35-380132-13	Circuit Breaker Toggle Switch	35-380132-73
35-380132-15	Circuit Breaker Toggle Switch	35-380132-75
35-380132-17	Circuit Breaker Toggle Switch	35-380132-77
35-380132-19	Circuit Breaker Toggle Switch	35-380132-79
35-380132-21	Circuit Breaker Toggle Switch	35-380132-81
35-380132-23	Circuit Breaker Toggle Switch	35-380132-83
35-380132-25	Circuit Breaker Toggle Switch	35-380132-85
35-380132-27	Circuit Breaker Toggle Switch	35-380132-87
35-380132-29	Circuit Breaker Toggle Switch	35-380132-89
35-380132-31	Circuit Breaker Toggle Switch	35-380132-91
35-380132-33	Circuit Breaker Toggle Switch	35-380132-93
35-380132-35	Circuit Breaker Toggle Switch	35-380132-95
35-380132-37	Circuit Breaker Toggle Switch	35-380132-97
35-380132-39	Circuit Breaker Toggle Switch	35-380132-99

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Original Part Number	Description	Replacement Part Number
35-380132-41	Circuit Breaker Toggle Switch	35-380132-101
35-380132-43	Circuit Breaker Toggle Switch	35-380132-103
35-380132-45	Circuit Breaker Toggle Switch	35-380132-105
35-380132-47	Circuit Breaker Toggle Switch	35-380132-107
35-380132-49	Circuit Breaker Toggle Switch	35-380132-109
35-380132-51	Circuit Breaker Toggle Switch	35-380132-111
35-380132-53	Circuit Breaker Toggle Switch	35-380132-113

Raytheon Aircraft Company expressly reserves the right to supersede, cancel and/or declare obsolete, without prior notice, any parts or publications that may be referenced in this Service Bulletin.

### D. Spares

Refer to Paragraph 2.C.

### E. Reidentified Parts

None.

### F. Tooling - Price and Availability

Not applicable.

## 3. Accomplishment Instructions

This Service Bulletin shall be accomplished as follows:

### NOTE

Should any difficulty be encountered in accomplishing this Service Bulletin, contact Raytheon Aircraft Company at 1-800-429-5372 or 316-676-3140.

### A. Airplane

<b>WARNING</b>
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Observe all Warnings and Cautions contained in the aircraft manuals referenced in this Service Bulletin.

Whenever any part of this system is dismantled, adjusted, repaired or renewed, detailed investigation must be made on completion to make sure that distortion, tools, rags or any other loose articles or foreign matter that could impede the free movement and safe operation of the system are not present, and that the systems and installations in the work area are clean.

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- (1) Remove all power from the airplane and disconnect the battery. Display warning notices prohibiting reconnection of airplane electrical power.
- (2) Remove the existing circuit breaker toggle switch and replace with the new switch. Refer to Paragraph 2.C.
- (3) Reconnect the airplane battery, remove warning notices and restore power.
- (4) Perform test procedures on the applicable system serviced by the replaced circuit breaker toggle switch. Refer to the appropriate chapter of the applicable model Maintenance/Shop Manual.
- (5) Ensure all work areas are clean and clear of tools and miscellaneous items of equipment.
- (6) Return airplane to service.

### **B. Spares**

Not applicable.

### **C. Record of Compliance**

Upon completion of this Service Bulletin, make an appropriate maintenance record entry.