



CLASS II

SERVICE INSTRUCTIONS

33, 35, 36, 55, 95

No. 0925, Rev. III
ATA Code 28-40

Kit No. 35-3020-1 S
Kit No. 55-3019-1 S
Kit No. 55-9018-1 S
Kit No. 55-9018-3 S
Kit No. 55-9018-4 S
Kit No. 55-9018-5 S

Kit No. 55-9018-6 S
Kit No. 55-9019-1 S
Kit No. 55-9019-3 S
Kit No. 55-9019-4 S
Kit No. 55-9019-5 S
Kit No. 55-9019-6 S

SUBJECT: FUEL - REPLACEMENT OF FUEL TRANSMITTERS AND GAGES

SYNOPSIS OF CHANGE: Added information to supersede previously called out kits in effort to clarify applicability of replacement fuel transmitters and gages. (See MATERIAL section.)

EFFECTIVITY: BEECHCRAFT 35-B33, 35-C33, E33, F33 and G33, serials CD-626 through CD-1234; 35-C33A, E33A and F33A, serials CE-1 through CE-235, CE-249, CE-250, CE-260, CE-264 through CE-268 and CE-270 through CE-289; E33C and F33C, serials CJ-1 through CJ-25; P35, S35, V35, V35TC, V35A, V35A-TC, serials D-7080 through D-9068; 36, serials E-1 through E-184; Baron 95-55, 95-A55, 95-B55 and 95-B55A, serials TC-1 through TC-1298; C55, C55A, D55 and D55A, serials TE-1 through TE-49 and TE-51 through TE-767; 95-B55B (T-42A), serials TF-1 through TF-65; Travel Air 95, B95, B95A, D95A and E95, serials TD-2 through TD-721.

REASON: The original A.C. brand equipment installed in the fuel quantity indicating system is no longer available.

COMPLIANCE: When replacement of a fuel quantity transmitter or gage is required.

APPROVAL: FAA Approved - DOA CE-2.

MANPOWER: The following information is for planning purposes only:

Estimated man-hours to remove and replace one fuel transmitter: 1.5 hours.
Estimated man-hours to remove and replace one fuel gage: 1.5 hours.
Estimated man-hours to remove and replace one fuel gage on Bonanzas/Debonairs with fuel gages in 6 unit cluster: 3 hours.
Suggested number of men: 1 man.

No BECP

677 II

R 878 II

R 279 II

R 1079 II

1 of 4

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.



Member of GAMA
General Aviation
Manufacturers Association

Service Instructions No. 0925, Rev. III

MATERIAL:

The replacement parts required for accomplishing these Service Instructions may be ordered through BEECHCRAFT Aero or Aviation Centers and International Distributors and Dealers. In some instances, in order to provide compatible transmitter/gage combinations and to provide wiring diagrams for necessary rewiring when installing the new parts, kits have been provided for part replacement. These kits are listed below for reference only. In order to ensure that the correct parts are furnished, the following specific information must be provided when ordering replacement fuel transmitters and/or gages:

- a. The model and serial number of the airplane.
- b. The fuel system capacity.
- c. The part numbers of the components to be replaced.
- d. Are parts to be installed on the LH or the RH side of the airplane.
- e. Is the present gage A.C. or Rochester?

KIT NUMBER	DESCRIPTION
35-3020-1 S	Fuel Transmitter Inst'l. for airplanes that have previously installed CB7740-00158 fuel transmitters.
55-3019-1 S	Fuel Transmitter Inst'l. for airplanes that have previously installed 95-380012-13 fuel transmitters.
55-9018-1 S	Fuel Transmitter Inst'l. for inbd. or outbd. 39 or 40 gal. capacity fuel cells, LH or RH on airplanes equipped with A.C. fuel gages (80 gal. fuel system)
55-9018-3 S (LH) 55-9018-4 S (RH)	Fuel Transmitter Inst'l. for 25. gal. capacity main fuel cells on airplanes equipped with A.C. fuel gages.
55-9018-5 S (LH) 55-9018-6 S (RH)	Fuel Transmitter Inst'l. inbd. and outbd. 31 gal. capacity aux. fuel cells in airplanes with A.C. fuel gages.
*55-9019-1 S	Fuel Gage and Transmitter Inst'l. inbd. and outbd. 39 or 40 gal. capacity fuel cells, LH or RH (80 gal. fuel system)
*55-9019-3 S (LH) *55-9019-4 S (RH)	Fuel Gage and Transmitter Inst'l. 25 gal. capacity main and 31 gal. capacity aux. fuel cells, inbd. and outbd. (112 gal. fuel system)
*55-9019-5 S (LH) *55-9019-6 S (RH)	Fuel Gage and Transmitter Inst'l. 40 gal. capacity main and 31 gal. capacity aux. fuel cells, inbd. and outbd. (142 gal. fuel system)

*All transmitters must be replaced with each fuel gage being replaced, however, it is permissible to have an A.C. gage and transmitter on one side of the airplane and a Rochester gage and transmitter on the other side.

WARRANTY:

None.

SPECIAL TOOLS:

None.

WEIGHT AND BALANCE:

None.

REFERENCES:

None.

PUBLICATIONS AFFECTED:

It is recommended that a note to "See Service Instructions No. 0925, Rev. III" be made in the following:

Debonair/Bonanza 33 series Shop Manual copies, P/N 33-590011-1C or subsequent, Section 6;

Bonanza 35 series Shop Manual copies, P/N 35-590096B or subsequent, Section 6;
Bonanza 36 series Shop Manual copies, P/N 36-590001-3B or subsequent, Section 14;
Baron 55 and 58 Shop Manual copies, P/N 55-590000-13E or subsequent, Section 14;
Baron 95-B55B (T-42A) Maintenance Manual copies, P/N 96-590022B or subsequent, Section 14;
Travel Air 95 series Shop Manual copies, P/N 95-590001-1C or subsequent, Section 6;
Debonair/Boanaza 33 series Parts Catalog, P/N 33-590011-3D or subsequent, Figure 52B;
Bonanza H35 through V35B Parts Catalog copies, P/N 35-590015-9C or subsequent, Figure 55;
Bonanza 36 series Parts Catalog copies, P/N 36-590001-1E or subsequent, Figure 28;
Baron 55 through D55 Parts Catalog copies, P/N 96-590010-13B or subsequent, Chapter 28-10;
Baron 95-B55B (T-42A) Parts Catalog copies, P/N 96-590023B or subsequent, Figure 75;
Travel Air 95 series Parts Catalog copies, P/N 95-590018B or subsequent, Figure 57D.

**ACCOMPLISHMENT
INSTRUCTIONS:**

These Service Instructions may be accomplished as follows:

1. Drain and purge the fuel tanks and disconnect the battery and any external power.
2. Remove the access doors for the fuel gage transmitters.
3. Disconnect the transmitter wiring.
4. Cut the safety wire and remove the transmitter support screws.

NOTE

Clean the area around the transmitters before removing them.

5. Remove the transmitters and gaskets from the fuel tank.
6. Inspect the fuel tanks for wrinkles and other obstructions that might impede float travel.
7. Inspect the insulating material between the transmitter and the fuel tank liner to ensure that the circuit is not grounding at these locations.
8. Install the new transmitters using the gaskets provided with each.
9. Check that the floats are unrestricted through full travel from stop to stop.
10. Install the transmitter support screws, torque to 25 inch-pounds, and safety using MS20995C32 wire. The safety wire may be obtained through local sources.
11. Connect the transmitter wiring as shown on the kit drawing.
12. If fuel gages are being replaced, be certain that they are wired as shown in the applicable kit drawing.

NOTE

Fuel gage wiring should be checked to the wiring diagrams shown on the applicable kit drawing regardless of whether the gages are being replaced to ensure correct wiring.

13. Connect the electrical power and check the fuel gage for an empty reading.

NOTE

If the gage does not read empty, inspect the transmitters to ensure that the float arms are on the down stops and the floats clear the bottom of the fuel tank. Check all wiring for faulty connections.

Service Instructions No. 0925, Rev. III

14. Reinstall the access doors removed to accomplish this replacement.
15. Fill the fuel tanks and check the fuel gages for a full reading.

NOTE

Adjustment of the variable potentiometer on the fuel quantity printed circuit board is for accurate full indications only. To check for accurate empty readings, check the positioning of the float arms for full travel

RECORD OF COMPLIANCE:

Upon completion of these Service Instructions 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 until the listing of parts is incorporated into the Parts Catalog.