



SECTION 1



Introduction

BEECHCRAFT DEBONAIR/BONANZA 33 SERIES SHOP MANUAL

The information contained in the BEECHCRAFT 33 series Shop Manual supplement comprises essential data on various items which apply specifically to the BEECHCRAFT 33 Series. Maintenance information on items not included here may be obtained by referring to the BEECHCRAFT Bonanza 35 Shop Manual.

Unless otherwise specified in the Shop Manual, the BEECHCRAFT Bonanza may be repaired in accordance with Federal Aviation Agency's "Aircraft Inspection and Repair" Manual A.C. 43.13-1A and "Aircraft Alterations", Manual A.C.43.13-2.

The wiring diagrams for airplane serials CD-1 through CD-1304, CE-1 through CE-612 and CJ-1 thru CJ-104 are contained within Section 6 of this Shop Manual.

Refer to the BEECHCRAFT Bonanza Wiring Diagram Manual P/N 35-590102-7 for wiring diagrams pertaining to the following Bonanza Model F33A airplane serials CE-613 thru CE-771, except CE-748, and Model F33C airplane serials CJ-105 thru CJ-148. Refer to the BEECHCRAFT Bonanza Wiring Diagram Manual P/N 35-190102-9 for F33A airplane serials CE-148, CE-772 and after and F33C airplane serials CJ-149 and after.

NOTICE

Beech Aircraft Corporation expressly reserves the right to supersede, cancel and/or declare obsolete any part, part numbers, kits or publication that may be referenced in this manual without prior notice.

CORRESPONDENCE

If a question should arise concerning the care of your airplane, it is important to include the airplane serial number in any correspondence. The serial number appears on the model designation placard located on the underside of the fuselage, forward of the tie down on airplane serials CD-1 thru CD-1103 and CE-1 thru CE-163. On airplane serials CD-1104 and after and CE-164 and after, the model designation placard is located inboard of the right flap on the fuselage.

NOTE

Service Publications reissues or revisions are not automatically provided to the holders of this manual. For information on how to obtain reissues or revisions applicable to this manual, refer to BEECHCRAFT Service Bulletin No. 2001 or subsequent revision.

WARNING

Use only genuine BEECHCRAFT or BEECHCRAFT approved parts obtained from BEECHCRAFT approved sources, in connection with the maintenance and repair of Beech airplanes.

Genuine BEECHCRAFT parts are produced and inspected under rigorous procedures to ensure airworthiness and suitability for use in Beech airplane applications. Parts purchased from sources other than BEECHCRAFT, even though outwardly identical in appearance, may not have had the required tests and inspections performed, may be different in fabrication techniques and materials, and may be dangerous when installed in an airplane.

Salvaged airplane parts, reworked parts obtained from non-BEECHCRAFT approved sources, or parts, components, or structural assemblies, the service history of which is unknown or cannot be authenticated, may have been subjected to unacceptable stresses or temperatures or have other hidden damage, not discernible through routine visual or usual nondestructive testing techniques. This may render the part, component or structural assembly, even though originally manufactured by BEECHCRAFT, unsuitable and unsafe for airplane use.

BEECHCRAFT expressly disclaims any responsibility for malfunctions, failures, damage or injury

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caused by use of non-BEECHCRAFT
approved parts.

AIRPLANE MODELS AND SERIAL NUMBERS

BEECHCRAFT 33	(Serials CD-1 through CD-224, CD-233, CD-234, CD-236, CD-241, and CD-246 through CD-250)
BEECHCRAFT A33	(Serials CD-225 through CD-232, CD-235, CD-237 through CD-240, CD-242 through CD-245 and CD-251 through CD-387)
BEECHCRAFT B33	(Serials CD-388 through CD-813)
BEECHCRAFT C33	(Serials CD-814 through CD-1118)
BEECHCRAFT C33A	(Serials CE-1 through CE-179)
BEECHCRAFT E33	(Serials CD-1119 through CD-1234)
BEECHCRAFT E33A	(Serials CE-180 through CE-289)
BEECHCRAFT E33C	(Serials CJ-1 through CJ-25)
BEECHCRAFT F33	(Serials CD-1235 through CD-1254)
BEECHCRAFT F33A	(Serials CE-290 through CE-771 except CE-748)
BEECHCRAFT F33C	(Serials CJ-26 through CJ-148)
BEECHCRAFT G33	(Serials CD-1255 through CD-1304)

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SUPPLEMENTARY PUBLICATIONS

Following is a list of publications providing servicing, overhaul and parts information on various components of the BEECHCRAFT 33 series which you may obtain to supplement the Shop Manual. In most instances, you should obtain the publications directly from the manufacturer or his distributor. Beech supplementary publications, are available from Beechcraft Aero or Aviation Centers and International Distributors and Dealers. Those which are so

available are listed in the current Publications Price List. Since a wide variety of radio equipment is available and because radio manufacturers normally supply parts and servicing manuals with each set, radio publications have not been included in the list.

As publications on additional components become available, they will be added to this list of publications.

NOTE

It shall be the responsibility of the owner/operator to ensure that the latest revision of publications referenced in this handbook are utilized during operation, servicing, and maintenance of the airplane.

VENDOR PUBLICATIONS

ITEM	PART NO.	PUBLICATION	PUBLICATION NO.	VENDOR
Alternator	1100652	Service Bulletin, Test and Maintenance of "Delcotrons"	IG-262	Delco-Remy Division General Motors Corp.
	1100643			
	ALX-9405 ALT-8403 ALV-9407 ALT-9422	Equipment List, Service Parts List, and Technical Data	OE-A1	Prestolite Company 511 Hamilton St. Toledo, Ohio 43694
	642056A1	Service and Overhaul Instructions	X30531	Teledyne Continental Motors
Starter	MHJ-4003	Equipment List, Service Parts List	OE-A1	Prestolite Company 511 Hamilton St. Toledo, Ohio 43694
Battery	PS12-11	Service Manual	GSM-1277	Teledyne Battery Products Redlands, California
Engine	IO-470	Operator's Manual	X30024	Teledyne Continental Motors
		Service Parts Catalog	X30023A	Teledyne Continental Motors
		Maintenance and Overhaul Manual	X30022A	Teledyne Continental Motors
	IO-520	Operator's Manual	X30041	Teledyne Continental Motors
		Service Parts Catalog	X30040A	Teledyne Continental Motors
		Maintenance and Overhaul Manual	X30039A	Teledyne Continental Motors
		Tips on Engine Care		Teledyne Continental Motors

VENDOR PUBLICATIONS (Continued)

ITEM	PART NO.	PUBLICATION	PUBLICATION NO.	VENDOR
Fuel Injection		Overhaul Manual and Illustrated Parts Catalog for Continental Fuel Injection System	X30091	Teledyne Continental Motors
Magneto	MCD662	Service Information for 660 Series Aircraft Magnetos	9-55221	Slick Electro Inc.
		Parts Catalog, Model 662	700	Slick Electro Inc.
	400 and 600 Series	Catalog and Service Manual	1020	Slick Electro Inc.
	S6RN	Installation, Maintenance and Operations Instructions	L526	Bendix Aviation Corporation
	S-600 Series	Overhaul Instructions	L551	Bendix Aviation Corporation
	S-600 Series	Service Parts List	L552-1	Bendix Aviation Corporation
Propeller	BHC 92ZF 1D1/8447	Overhaul Instructions, Handbook	110	Hartzell Propeller Inc.
		Owner's Propeller Manual	106	Hartzell Propeller Inc.
	PHC-A3VF4/ V8433-4R	Hartzell Propeller Owner's Manual	115 C	Hartzell Propeller Inc.
	PHC-C3YF- IRF/F8468-6R or PHC-C3YF-1R 8468-6R	Hartzell Propeller Owner's Manual	115 C	Hartzell Propeller Inc.
	BHC-C2YF-1BF/ F8468 or BHC-C2YF-1B/ 8468	Hartzell Propeller Owner's Manual	115 C	Hartzell Propeller Inc.
	F12A-4/ 8400-0	Service Manual Flottorp Model F12		Universal Aircraft Industries
	BHC-L2YF-1BF/ F8468AR	Hartzell Propeller Owner's Manual	115 C	Hartzell Propeller Inc.
	2A36C23 -CP/84B-0	Service Manual and Parts Catalog	720415	McCauley Industrial Corp.
	3A32C76S/ 82NB-2	Service Manual	720415	McCauley Industrial Corp.

VENDOR PUBLICATIONS (Continued)

ITEM	PART NO.	PUBLICATION	PUBLICATION NO.	VENDOR
Propeller Governor	Model 1F-1	Garwin Handbook of Overhaul Instructions	825	Garwin Incorporated
	C210452	Overhaul Manual with Parts List (IO-520 Engine)	33017	Woodward Governor Co.
	D210680	Overhaul Manual with Parts List (IO-520 Engine)	33080	Woodward Governor Co.
	A210680	Overhaul Manual with Parts List (IO-470-N Engine)	33080	Woodward Governor Co.
Strobe Light	1000	Instruction and Service Manual	50082	Bullock Magnetics, Corp.
Strobe Light Power Supply	60-1750-3	Overhaul Manual with Illustrated Parts List	33-40-58	Grimes Manufacturing Company, 515 North Russell Street Urbana, California
Autopilot	B-5	Flight Control System Ground and Flight Check Procedures	3952	Brittain Industries P.O. Box 51370 Tulsa, Oklahoma 74151
	B-5	Automatic Flight Control System Maintenance Manual	3950	Brittain Industries P.O. Box 51370 Tulsa, Oklahoma 74151
	B-7	Flight Control System, Flight Procedures Manual	3959	Brittain Industries P.O. Box 51370 Tulsa, Oklahoma 74151
	B-7	Troubleshooting Manual	3960	Brittain Industries P.O. Box 51370 Tulsa, Oklahoma 74151
Air Conditioner Compressor	Model 508	Abacus Automotive Air Conditioning Compressor Service Manual	I.D. 160717	Abacus International P.O. Box 327 Dallas, Texas 75221

BEECHCRAFT PUBLICATIONS

PART NO.	PUBLICATION
92-31498	Alternator Service Manual, Beech Aircraft Corporation
98-36486	Overhaul Instructions for Vertical Display Engine Indicators used on BEECHCRAFT Bonanza series aircraft.
92-30582	Servicing and Maintenance Instructions and Illustrated Parts Manual for: Main Wheel Assembly P/N 95-300001-1, -5, -6, -67 and -73. Nose Wheel Assembly P/N 95-32669 and P/N 95-32926.
98-35012	Servicing Maintenance Instructions and Illustrated Parts Breakdown for the Main Wheel P/N 36-8001-3, Nose Wheel P/N 36-8002-1 and Brake Assembly P/N 36-8001-9.
130376A	New-Matic B-4 Autopilot Operating Servicing Instructions, Beech Aircraft Corporation.
130409	New-Matic Autopilot Maintenance Instructions, Beech Aircraft Corporation.
98-35776	Maintenance Information and Illustrated Parts Breakdown for 35-380094 Landing Gear Motor.
98-35850	Electronics Components Maintenance Manual and Parts Breakdown B-5, B-5A, B-7, B-VII, B-VIII Autopilot.
98-35655	B-5 and B-7 Owner's Manual Automatic Flight Control Systems.