

# Raytheon Aircraft

Beech Model B300/B300C  
Section VI - Weight & Bal/Equip List

## Sample Loading - As Delivered

Serial No.: **FL-338**

Date: **2/15/2002**

Line	Item	WEIGHT (lb.)	C.G. (in.)	MOM/100 (lb.-in.)
1	BASIC EMPTY WEIGHT	9,412	198.4	18,672
2	Pilot & Copilot	340	129.0	439
3	Passengers:			
	Forward Aft Facing LH	170	175.0	298
	Forward Aft Facing RH	170	175.0	298
	Center Fwd Facing (2)	340	216.0	734
	Center Aft Facing (2)	340	247.0	840
	Aft Fwd Facing (LH)	170	294.0	500
	Aft Fwd Facing (RH)	170	294.0	500
	Toilet	-	327.0	-
4	Aft Baggage	400	359.0	1,436
5	Cabinet Contents	0	-	0
6	ZERO FUEL WEIGHT <i>DO NOT EXCEED 12,500 LBS.</i>	11,512	206.0	23,717
7	Fuel Loading           536 Gal.	3,588	205.1	7,358
8	RAMP WEIGHT <i>DO NOT EXCEED 15,100 LBS.</i>	15,100	205.8	31,075
9	Less Fuel for Start, Taxi & Take-off *	-100	-	-227
10	TAKE-OFF WEIGHT <i>DO NOT EXCEED 15,000 LBS.</i>	15,000	205.7	30,848
11	Total Fuel from Line 7	3,588		
12	Less Fuel used to Destination including Start, Taxi and Take-off	-2,918		
13	Total Fuel Remaining (MOM/100 from Usable Fuel Moment Table)	670	-	1,285
14	Zero Fuel Weight from Line 6	11,512	206.0	23,717
15	Add Fuel Remaining from Line 13	670	-	1,285
16	LANDING WEIGHT	12,182	205.2	25,002

\* Fuel for Start, Taxi and Take-off is normally 100 lb. at an average moment/100 of 227 lb.-in.

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Section VI Wt & Bal/Equip List

EQUIPMENT LIST - As Delivered    Serial No.:    FL-338    Date: 02/15/2002

Item Description & Part Number	Qty.	Total		
		Weight (lb.)	Arm (in.)	Moment (lb.-in.)
Electronic Flight Display Indicator Collins EFD-85	2	13.2	99.0	1307
Airspeed Indicator 130-380005 Series	2	7.0	102.0	714
Remote Magnetic Indicator Collins RMI-30	2	6.0	102.0	612
Encoding Altimeter Collins ALI-80	1	3.0	102.0	306
<del>Encoding Altimeter Aerionics 101450 Series</del>	<del>1</del>	<del>2.6</del>	<del>102.0</del>	<del>255</del>
Gyro Horizon Indicator- Pneumatic Sigma Tek Inc. 1U367 Series	1	2.8	102.0	286
Electronic Flight Display Collins EFD-74	1	4.9	102.0	500
Overspeed Governors - Propeller 101-389029	2	7.0	114.0	798
Engines (Turbo Prop) UACL PT6A-60A	2	964.0	117.7	113463
Cabin Pressurization Control Unit Airsearch 130346	1	3.0	123.8	371
Control Display Unit Universal Nav System 1117 Series (UNS-1K)	1	2.6	125.0	327
Data Transfer Unit Universal Nav System 1405 Series (UNS-1K)	1	3.3	125.0	413
Display Control Panel Collins DCP-85	1	2.0	125.0	250
Fire Extinguisher - Cockpit Amerex Corp - Model 352TS	1	5.2	126.0	655
Pilot Chair with Accessory Box 101-531017-1	1	42.0	129.0	5418
Copilot Chair 101-531017-2	1	40.0	129.0	5160
Oil Radiators 101-389028	2	18.2	138.6	2523
Air Conditioning Compressor Harrison 1136422	1	12.1	147.8	1788
Starter Generator & Mounting Kit 101-369012	2	65.4	145.5	9516
Engine Driven Boost Pump 91-380003	2	4.7	153.7	722
Submersible Standby Booster Pump 50-380177	2	10.9	166.4	1814
Heat Exchanger 101-381010	2	14.4	177.0	2549
Air Cooled Battery Concorde RG-380E/44K	1	86.0	194.4	16718

# Raytheon Aircraft

Beech Model B300/B300C  
Section VI - Weight & Bal/Equip List

## Basic Empty Weight and Balance - As Delivered


Serial No.: **FL-338**

Date: **1/15/2002**

REFERENCE DIMENSIONS IN FUSELAGE STATIONS (INCHES AFT OF DATUM)			
<b>Wheel Axle Centerlines:</b>	<b>Nose</b>	<b>Main</b>	<b>Jack Point Locations:</b>
<i>Extended Strut</i>	29.4	222.9	<i>Forward</i> 83.5
<i>Compressed Strut</i>	30.8	225.4	<i>Aft</i> 239.9

Reaction Jack Point	SCALE READING (lb.)	TARE (lb.)	NET WEIGHT (lb.)	ARM (in.)	MOMENT (lb.-in.)
Left Main	2,635	0	2,635		
Right Main	3,390	0	3,390		
Sub Total - Mains	6,025	0	6,025	239.9	1,445,398
Nose	2,386	0	2,386	83.5	199,231
Total - As Weighed	8,411	0	8,411	195.5	1,644,629

*Additions and Subtractions to As Weighed Condition:*

Add: Engine Oil			57	132.4	7,547
Unusable Fuel			52	182.4	9,485
<p><i>Superseded</i></p> 			<p>2-15-02</p>		
			<p>AUTH. SIGNATURE DATE RAYTHEON AIRCRAFT CO. MMF-3345</p>		
<b>Note: Green &amp; No Cabin Interior</b>					
<b>BASIC EMPTY WEIGHT (BEW) - ACTUAL</b>			<b>8,520</b>	<b>195.0</b>	<b>1,661,661</b>

Note: The Basic Empty Weight includes full engine oil and unusable fuel.

Prepared/Approved by

*S. L. Cooper*  
S. L. Cooper, Weight Engr.

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Beech Model B300/B300C  
Section VI - Weight & Bal/Equip List

## Basic Empty Weight and Balance - As Delivered

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Date: **1/15/2002**

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Prepared/Approved by

*S. L. Cooper*  
S. L. Cooper, Weight Engr.

**Raytheon Aircraft****Beech Model B300/B300C  
Section VI Wt & Bal/Equip List**

REVISED: 09-03-02

EQUIPMENT LIST

SERIAL NO. FL-338

DATE: 02-15-2002

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<u>ITEM DESCRIPTION &amp; PART NUMBER</u>	<u>Qty.</u>	<u>Total</u>		
		<u>Weight</u> (lb.)	<u>Arm</u> (in.)	<u>Moment</u> (lb.-in.)
IS&S #2 ENCODING ALTIMETER KIT #130-3411-1				
ALTER. 09-03-02 AIRDATA DISPLAY UNIT 9D-80130-31	1	3.0	102.0	306.0
ALTER. 09-03-02 ANALOG INTERFACE UNIT 9B-81040-20	1	3.0	414.8	1244.4
ALTER. 09-03-02 EMERGENCY POWER SUPPLY PS-835D 501-1228-04	1	12.3	396.8	4880.6
ALTER. 09-03-02 EMERGENCY POWER SUPPLY RACK 5120-107-C01	1	0.8	396.8	317.4

# Raytheon Aircraft

## Beech Model B300/B300C Section VI Wt & Bal/Equip List

REVISED: 03-21-02

EQUIPMENT LIST

SERIAL NO. FL-328

DATE: 02-15-2002

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ITEM DESCRIPTION & PART NUMBER				Total			
				Qty.	Weight (lb.)	Arm (in.)	Moment (lb.-in.)
GOODRICH WX-500 STORMSCOPE SERIES II WEATHER MAPPING SENSOR SYSTEM							
ALTER.	03-21-02	STORMSCOPE PROCESSOR 805-11500-001	WX-500	1	1.7	411.8	700.1
ALTER.	03-21-02	STORMSCOPE PROCESSOR MOUNT KIT 805-11590-001		1	0.7	411.8	288.3
ALTER.	03-21-02	STORMSCOPE ANTENNA 805-10930-001	NY-163	1	0.8	414.8	331.8
EVENTIDE AVIONICS ARGUS 7000/CE MOVING MAP DISPLA							
ALTER.	03-21-02	ARGUS 7000/CE DISPLAY 7000-30-29		1	4.6	102.0	469.2
ALTER.	03-21-02	ADAPTER RAA-7007-02		1	0.7	84.0	58.8

## Raytheon Aircraft

Beech Model B300/B300C  
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REVISED: 03-21-02

EQUIPMENT LIST

SERIAL NO. FL-328

DATE: 02-15-2002

PAGE 5a

ITEM DESCRIPTION & PART NUMBER	Qty.	Total		
		Weight (lb.)	Arm (in.)	Moment (lb.-in.)
STC #SA1930CE-D AND STC #SA00845WI-D COLLINS TCAS-94 TCAS II SYSTEM				
ALTER. 03-21-02 TCAS COMPUTER TTR-4000 822-1294-002	1	17.0	406.5	6910.5
ALTER. 03-21-02 TCAS CONTROLLER CTL-92T 622-9614-112	1	1.0	132.8	132.8
ALTER. 03-21-02 VSI/TCAS INDICATOR TVI-920D 622-9728-314	2	4.8	102.0	489.6
ALTER. 03-21-02 TOP DIRECTIONAL ANTENNA TRE-920 622-8973-001	1	2.0	116.0	232.0
ALTER. 03-21-02 BOTTOM DIRECTIONAL ANTENNA TRE-920 622-8973-001	1	2.0	206.9	413.8
ALTER. 03-21-02 #1 L-BAND ANTENNA DMN150-10-2	1	0.4	265.9	106.4
ALTER. 03-21-02 #2 L-BAND ANTENNA DMN150-10-2	1	0.4	265.9	106.4
ALTER. 03-21-02 TCAS COMPUTER RACK MT6-4300-105	1	1.0	406.5	406.5
STC #SA1929CE-D COLLINS TDR-94/94D MODE S TRANSPONDER SYSTEM				
ALTER. 03-21-02 TRANSPONDERS TDR-94D 622-9210-005	2	17.0	398.0	6766.0
STC #SA09884SC HONEYWELL MK-VI ENHANCED GROUND PROXIMITY WARNING SYSTEM				
ALTER. 03-21-02 EGPWS COMPUTER MK-VI 965-1176-003	1	3.9	63.5	247.7
ALTER. 03-21-02 EGPWS COMPUTER RACK 755-7013-007	1	0.5	63.5	31.8
ALTER. 03-21-02 AUDIO MIXING AMP DB-247	1	0.4	66.5	26.6
AIRCELL AGT.02 AIR/GROUND TELEPHONE SYSTEM				
ALTER. 03-21-02 AIRCELL TRANSCEIVER W/MOUNT AGT.02 500-10196-000	1	4.5	397.8	1790.1
ALTER. 03-21-02 ANTENNA MATCHING UNIT 83518	1	1.0	402.8	402.8
ALTER. 03-21-02 AIRCELL ANTENNA CI 5000	1	1.0	210.0	210.0
ALTER. 03-21-02 AIRCELL HANDSET 500-10020-001	1	1.0	139.8	139.8
ALTER. 03-21-02 AIRCELL HANDSET 500-10020-001	1	1.0	306.0	306.0

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		<u>Weight</u> (lb.)	<u>Arm</u> (in.)	
<b><u>PILOT'S HANDBOOK &amp; SUPPLEMENT DATA</u></b>				
FAA Approved Flight Manual - Beech Model B300/B300C Super King Air 130-590031-71 Flight Manual Supplements Req'd As Follows:	1	3.0	0.0	0
Ground Communications Electric Power Buss 101-590097-19	1			
Secondary Encoding Altimeter 101-590097-31	1			
Fairchild S-100 Cockpit Voice Recorder 101-590010-339	1			
Collins FCS-65/EFIS-85B System 130-590031-19	1			
Brake Deice System 130-590031-23	1			
Artex ELT-110-4 w/ Remote Cockpit Switch 130-590031-95	1			
Operations On Dirt Runways 130-590031-101	1			
Operations On Grass Runways 130-590031-109	1			
Operations On Gravel Runways 130-590031-111	1			
UNS-1K Flight Management System 130-590031-139	1			
Sound Managgement System Elliott Aviation EA-20-1 (STC SA00483CH)	1			
Raisbeck Dual Aft Body Stakes STC SA5151NM	1			



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		<u>Weight (lb.)</u>	<u>Arm (in.)</u>	
Forward RH Cabinet w/ 3 Drawers 130-380033	1	27.0	157.0	4239
Cabin Seat, Fwd LH, Aft Facing Swivel 130-530167	1	52.5	175.0	9188
Cabin Seat, Fwd RH, Aft Facing Swivel 130-530167	1	52.5	175.0	9188
Cabin Table, RH Fwd 130-530050	1	17.0	193.0	3281
Cabin Table, LH Fwd 130-530050	1	17.0	195.0	3315
Cabin Seat, Ctr LH, Fwd Facing Swivel 130-530167	1	52.5	216.0	11340
Cabin Seat, Ctr RH, Fwd Facing Swivel 130-530167	1	52.5	216.0	11340
Cabinet- Center 130-380034	2	40.0	232.0	9280
Cabin Seat, Ctr LH, Aft Facing Swivel 130-530167	1	52.5	247.0	12968
Cabin Seat, Ctr RH, Aft Facing Swivel 130-530167	1	52.5	247.0	12968
Cabin Table, LH Aft 130-530050	1	17.0	267.8	4553
Cabin Table, RH Aft 130-530050	1	17.0	267.8	4553
Cabin Seat, Aft LH, Fwd Facing Swivel 130-530167	1	52.5	294.0	15435
Cabin Seat, Aft RH, Fwd Facing Swivel 130-530167	1	52.5	294.0	15435
Magazine Rack - Aft Partition 101-531176	1	5.0	309.0	1545
Cabin Partition - Aft LH 101-531029	1	19.0	313.0	5947
Cabin Partition - Aft RH w/ Cushion 101-531029	1	23.0	313.0	7199
Side Facing Toilet - Electric Flushing 130-530029 (Monogram)	1	47.0	327.0	15369
Baggage Partition 101-531182	1	12.0	340.0	4080
Fire Extinguisher - Cabin Amerex Corp - Model 352TS	1	5.2	345.0	1794
<b><u>FLUIDS</u></b>				
Engine Oil	1	57.0	132.4	7547
Unusable Fuel	1	52.0	182.4	9485
Toilet Fluid	1	4.0	327.0	1308

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		Weight (lb.)			
Wing Tip Light - Position/Strobe/Recognition 130-361037	2	4.0		203.4	814
Engine Fire Extinguisher Bottle HTL Advance Technology 30301102	2	10.8		215.9	2332
Inverters Flite-Tronics PC-17A	2	29.0		217.2	6299
Main Gear Dual Disc Brake Assy 101-8001-91	4	68.0		222.9	15157
Main Gear Wheel & Tire 101-8007 and 19.5 X 6.75-8	4	96.0		222.9	21398
Aileron Servo and Mount Collins SVO-65 and SMT-65	1	3.3		225.4	744
Evaporator Coil 101-384024	1	8.0		271.0	2168
Blower - Heater & Ventilation 60-384002 or 101-384135	1	8.8		275.0	2420
Radio Altimeter Receiver, Transmitter & Mount Collins ALT-55B	1	6.2		284.3	1763
Oxygen Bottle - 77 Cu. Ft. 101-384200 or 101-384207	1	21.4		388.0	8303
DME Receiver and Mount Collins DME-42	2	11.8		389.0	4590
Mode S Transponder and Mount Collins TDR-94	2	17.0		398.0	6766
Cockpit Voice Recorder Loral Fairchild S100-0080 Series	1	16.0		404.0	6464
Emergency Locator Transmitter w/ Mounting Case Artes ELT 110-4	1	4.2		413.0	1735
Elevator Trim Servo and Mount Collins SVO-65 & SMT-65	1	3.3		437.0	1442
Servo and Mount - Elevator Collins SVO-65 & SMT-65	1	3.3		438.0	1445
Servo and Mount - Rudder Collins SVO-65 & SMT-65	1	3.3		438.0	1445
<b><u>INTERIOR ITEMS</u></b>					
Pilot's Map Case - 2 Compartment 101-531179	1	7.7		147.5	1136
Copilot's Map Case - 2 Compartment 101-531179	1	7.7		147.5	1136
Forward Cabin Partition LH w/ Cabinet 101-531360	1	13.5		151.0	2039
Forward Cabin Partition RH 101-531360	1	18.9		151.0	2854
Forward LH Cabinet w/ 4 Drawers 130-380032	1	63.0		157.0	9891

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		<u>Weight (lb.)</u>	<u>Arm (in.)</u>	
Radar Receiver/Transmitter/Antenna Collins RTA-852 (TWR-850 System)	1	20.1	26.0	523
Nose Wheel & Tire Assembly 101-8026 Wheel & 22 X 6.75-10 Tubeless Tire	1	29.0	30.0	870
Condenser Blower 101-384004	1	12.6	52.5	662
Condenser Coil 101-384003	1	22.0	52.5	1155
HSI Processing Unit and Mount Collins HPU-74	1	5.1	60.0	306
Nav Computer Unit Universal Nav System 1116-40 (UNS-1K)	1	6.5	62.0	403
Directional Gyro & Mount Collins DGS-65	2	13.0	64.5	839
Vertical Gyro Collins 332D-11T	1	7.3	67.5	493
Ventilation Blower 101-384176	1	11.8	68.0	802
ADF Transceiver & Mount Collins ADF-60A	1	4.9	68.0	333
Multi Function Processor Unit & Mount Collins MPU-85N	1	18.3	68.0	1244
NAV Receiver & Mount Collins VIR-32 Series	2	10.0	73.0	730
Air Data Computer & Mount Collins ADC-85	1	8.1	73.5	595
Autopilot Computer & Mount Collins APC-65H	1	6.5	73.5	478
Audio Amplifier DB Systems DB-438	2	4.0	74.0	296
Air Data Sensor Collins ADS-65	1	2.1	75.0	158
COMM Transceiver & Mount Collins VHF-22 Series	2	10.0	75.0	750
Evaporator Coil 115-384002	1	7.0	77.4	542
Display Processor Unit & Mount Collins DPU-85N	1	14.6	78.0	1139
4-Bladed Propeller and Spinner Hartzell HC- B4MP-3B M10476 Series & C-3425-3P	2	358.6	81.8	29333
Multifunction Display and Mount Collins <del>MFD-85B</del> <i>MFD-85C</i>	1	9.6	99.0	950