

2001 Beech 1900D Airliner

Performance / Specifications

Raytheon Aircraft

Maximum Speed (16,000 FT At 14,000 LB)

284 KTS (327 MPH)

Cruise Speeds (TAS At 14,000 LB)

High Speed Cruise Power (1,550 RPM)

12,000 FT	283 KTS (326 MPH)
16,000 FT	284 KTS (327 MPH)
20,000 FT	282 KTS (325 MPH)
25,000 FT	277 KTS (319 MPH)

Intermediate Cruise Power (1,550 RPM)

12,000 FT	265 KTS (305 MPH)
16,000 FT	265 KTS (305 MPH)
20,000 FT	262 KTS (301 MPH)
25,000 FT	256 KTS (295 MPH)

Long Range Cruise Power (1,400 RPM)

12,000 FT	205 KTS (236 MPH)
16,000 FT	212 KTS (244 MPH)
20,000 FT	219 KTS (252 MPH)
25,000 FT	224 KTS (258 MPH)

Range

Allowance: Start, Taxi, Take-Off, Climb, Cruise, Descent, NBAA IFR Reserve Profile (100 NM Alternate)
Conditions: Zero Wind, ISA Conditions Enroute, 16,950 LB Take-Off Weight
Maximum Fuel (4,458 LB) With Available Payload (1,917 LB)

High Speed Cruise Power (1,550 RPM)

12,000 FT	869 NM (1,000 SM)
16,000 FT	967 NM (1,113 SM)
20,000 FT	1,078 NM (1,240 SM)
25,000 FT	1,231 NM (1,417 SM)

Intermediate Cruise Power (1,550 RPM)

12,000 FT	926 NM (1,066 SM)
16,000 FT	1,039 NM (1,197 SM)
20,000 FT	1,165 NM (1,340 SM)
25,000 FT	1,331 NM (1,532 SM)

Long Range Cruise Power (1,400 RPM)

12,000 FT	1,035 NM (1,191 SM)
16,000 FT	1,140 NM (1,311 SM)
20,000 FT	1,246 NM (1,434 SM)
25,000 FT	1,367 NM (1,573 SM)

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Rate Of Climb At Sea Level, Flaps Up With Two Engines

At 16,950 LB 2,625 FT / MIN

Rate Of Climb At Sea Level, Flaps Up With One Engine

At 16,950 LB 670 FT / MIN

Service Ceiling - Two Engines (100 FT / MIN)

At 16,950 LB Above 25,000 FT

Service Ceiling - One Engine (50 FT / MIN)

At 16,950 LB 17,500 FT

Stall Speeds, IAS At 16,950 LB With Idle Power

Flaps 35°	84 KTS
Flaps 17°	90 KTS
Flaps Up	101 KTS

Take-Off Field Length At 16,000 LB, Flaps 17°, Standard Day, Sea Level

Decision Speed	100 KIAS
Total Distance	3,470 FT

Take-Off Field Length At 17,120 LB, Flaps 17°, Standard Day, Sea Level

Decision Speed	102 KIAS
Total Distance	3,737 FT

Landing Distance At 16,765 LB, Flaps Down, Zero Wind, At Sea Level

Approach Speed	118 KIAS
Total Distance Over 50 FT Obstacle	2,800 FT

Mission Profile

Mission Allows For Taxi And Run-Up; Includes Climb, Cruise And Descent; NBAA IFR Reserve Profile (100 NM Alternate); Zero Winds And ISA Conditions Enroute; 16,950 LB Take-Off Weight

Eleven Occupants @ 170 LB Each, 330 LB Baggage And 4,458 LB Fuel Before Engine Start

Mission	1,000 NM
Average Speed	269 KTS (310 MPH)
Mission Time	3 HRS 43 MIN

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Weights

Maximum Ramp Weight	17,230 LB
Maximum Take-Off Weight	17,120 LB
Maximum Landing Weight	16,765 LB
Maximum Zero Fuel Weight	15,165 LB
Basic Operating Weight (Includes 2 Crew @ 200 LB Each)	10,685 LB
Useful Load (Standard Airplane)	6,545 LB
Maximum Fuel (665 Gal At 6.7 LB / Gal)	4,458 LB

Wing Area And Loadings

Wing Area	310 SQ FT
Wing Loading	54.7 LB / SQ FT
Power Loading	6.63 LB / SHP

Dimensions

Wing Span	57 FT 11 IN
Stabilizer Span	18 FT 6 IN
Length	57 FT 10 IN
Height To Top Of Horizontal Stabilizer	14 FT 11 IN
Cabin Length (Excludes Pilot's Compartment And Aft Baggage Compartment)	25 FT 3 IN
Cabin Width	4 FT 6 IN
Cabin Height	5 FT 11 IN
Cabin Floor Width	4 FT 1 IN
Entrance Door	25 IN x 64.2 IN
Cockpit Volume	103 CU FT
Cabin Volume	640 CU FT
Aft Baggage Compartment Capacity	1,630 LB, 175 CU FT

Pressurization

(5.0 PSI Differential)	Cabin Altitude
Actual Aircraft Altitude 11,052 FT	Sea Level
Actual Aircraft Altitude 15,000 FT	2,750 FT
Actual Aircraft Altitude 20,000 FT	6,060 FT
Actual Aircraft Altitude 25,000 FT	9,125 FT

Performance Figures Are Calculated Values Derived From Flight Tests Conducted By Raytheon Aircraft Company Under Factory Controlled Conditions And Will Vary With Individual Aircraft And Other Factors Affecting Flight Performance.