

MICROSOFT FLIGHT SIMULATOR 2002 CHECKLIST

BEECH KING AIR 350

SPECIFICATIONS

Cruise Speed	315 kts, 363 mph, 583 kph
Engines	Pratt & Whitney 1,050 bhp PT6A-60A
Maximum Range	1,894 nm 2,180 mi 3,508 km
Service Ceiling	35,000 ft 10,668 m
Fuel Capacity	539 U.S. gal 2,040 L
Max. Takeoff Weight	15,000 lbs 6818 kg
Length	46.7 ft, 14.23 m
Wingspan	57.9 ft, 17.65 m
Height	14.3 ft, 4.36 m
Seating	Up to 11
Useful Load	5,810 lb, 2,635 kg



REFERENCE INFORMATION

FS Full Fuel Weight: 14,992 lbs

Cruise Climb:

Sea-level to 10,000	- 170 KIAS
10,000 to 15,000	- 160 KIAS
15,000 to 20,000	- 150 KIAS
20,000 to 25,000	- 140 KIAS
25,000 to 30,000	- 130 KIAS
35,000 to 40,000	- 120 KIAS

VMO	263 KIAS
MMO	.58 MACH
VA	184 KIAS
VMC	94 KIAS (flaps up) 93 KIAS (flaps approach)
VLE	184 KIAS
VLO	166 KIAS
VFE	202 KIAS (approach) 158 KIAS (full)
V1	108 KIAS (15,000 lbs) 104 KIAS (<10,500 lbs)
VR	111 KIAS (15000 lbs) 104 KIAS (<10,500 lbs)
V2	117 KIAS (15,000 lbs) 111 KIAS (10,500 lbs)
VX	125 KIAS
VY	140 KIAS
VREF	109 KIAS (15,000 lbs) 105 KIAS (14,000 lbs) 102 KIAS (13,000 lbs) 100 KIAS (12,000 lbs) 100 KIAS (11,000 lbs) 100 KIAS (10,000 lbs)

Turbulent Air Penetration Speed:
170 KIAS

Best Glide Speed (2 engines inop.):
135 KIAS

LEGENDA

VMO - Max. Operating Speed (KIAS)
MMO - Max. Operating Speed (MACH)
VA - Maneuvering Speed
VMC - Air Minimum Control Speed
VLE - Maximum Landing Gear Extension Speed
VLO - Maximum Gear Operating Speed
VFE - Maximum Flaps Extended Speed
V1 - Takeoff Decision Speed (flaps up)
VR - Rotation Speed (flaps up)
V2 - Takeoff Safety Speed (flaps up)
VX - Best Angle-of-Climb (2 engines)
VY - Best Rate-of-Climb (2 engines)
VREF - Landing Approach Speed (flaps down; gear down)

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BEFORE ENGINE STARTING

- Parking Brake -- SET
- Landing Gear Control -- CHECK DOWN
- Power Levers -- IDLE
- Propeller Controls -- FULL FORWARD
- Condition Levers -- FUEL CUTOFF
- Fuel Quantity -- CHECK
- Anti-ice -- ON
- Beacon -- ON
- "Anti-ice" Annunciators -- ILLUMINATED

ENGINE STARTING (BATTERY)

- Battery Switch -- ON
- Beacon -- ON
- Propeller Area -- CLEAR
- Fuel Flow -- ON
- Right Ignition and Engine Start Switch -- ON
- Right Condition Lever -- LOW IDLE (after the N1 Turbine RPM has stabilized, 12% minimum)
- Right ITT and N1 Turbine RPM -- MONITOR
- "R FUEL PRESS LO" Annunciator -- EXTINGUISHED
- "R OIL PRESS LO" Annunciator -- EXTINGUISHED
- Right Oil Pressure -- CHECK
- Right Condition Lever -- HIGH IDLE
- Right Generator -- ON
- Left Ignition and Engine Start Switch -- ON
- Left Condition Lever -- LOW IDLE (after the N1 Turbine RPM has stabilized, 12% minimum)
- Left ITT and N1 Turbine RPM -- MONITOR
- L FUEL PRESS LO Annunciator -- EXTINGUISHED
- L OIL PRESS LO Annunciator -- EXTINGUISHED
- Left Oil Pressure -- CHECK
- Left Condition Lever -- HIGH IDLE
- Right Condition Lever -- REDUCE TO LOW IDLE
- Left Generator -- ON
- Avionics Master Switch -- ON

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BEFORE TAKEOFF (RUNUP)

- Avionics -- CHECK
- Autopilot -- CHECK
- Electronic Pitch Trim Control -- CHECK
- Trim Tabs -- SET
- Primary Governors -- EXERCISE AT 1500 RPM
- Autofeather -- ARM
- Manual Propeller Feathering -- CHECK
- Anti-ice -- AS REQUIRED
- Fuel Quantity, Flight, and Engine Instruments -- CHECK

BEFORE TAKEOFF (FINAL ITEMS)

- Annunciator Lights -- EXTINGUISHED OR CONSIDERED
- Transponder -- ON ALT
- Lights -- AS REQUIRED
- Anti-ice -- AS REQUIRED
- Takeoff speeds (V1, VR, and V2) -- CONFIRM

TAKEOFF

- Brakes -- HOLD
- Power Levers -- 100% N1 TURBINE RPM (OBSERVE ITT LIMITS)
- Brakes -- RELEASE
- VR -- ROTATE TO APPROX. 10 DEGREES PITCH UP
- Landing Gear -- UP (WHEN POSITIVE CLIMB ESTABLISHED)
- Airspeed -- MAINTAIN V2 UNTIL CLEAR OF OBSTACLES
- Flaps -- UP (BLUE LINE, 125 KIAS MINIMUM)

CLIMB

- Climb Power -- 90% N1 TURBINE RPM (OR AS DESIRED)
- Propellers -- 1600 RPM (OR AS DESIRED)
- Propeller Synchrophaser -- ON
- Engine Instruments -- MONITOR
- Lights -- AS REQUIRED

CRUISE

- Cruise Power -- AS DESIRED
- Engine Instruments -- MONITOR
- Autofeather -- OFF

DESCENT

- Altimeter -- SET
- Autofeather -- ARM
- Fuel Balance -- CHECK
- Power -- AS REQUIRED

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BEFORE LANDING

- Autofeather -- VERIFY ARMED
- VREF -- CONFIRM
- Altimeter -- SET
- Flaps -- APPROACH
- Landing Gear -- DOWN
- Lights -- AS REQUIRED
- Anti-ice -- AS REQUIRED

NORMAL LANDING

- Flaps -- DOWN
- Airspeed -- VREF
- Condition Levers -- HIGH IDLE
- Propeller Levers -- FULL FORWARD
- Power Levers -- IDLE

AFTER TOUCHDOWN

- Power Levers -- GROUND FINE
- Brakes -- AS REQUIRED

AFTER LANDING

- Engine Auto-Ignition -- OFF
- Anti-ice -- OFF
- Lights -- AS REQUIRED
- Transponder -- STANDBY
- Trim Tabs -- SET
- Flaps -- UP

SHUTDOWN AND SECURING

- Parking Brake -- SET
- Avionics Master -- OFF
- Autofeather -- OFF
- Lights -- OFF
- ITT -- STABILIZED AT MINIMUM TEMPERATURE FOR 1 MINUTE
- Condition Levers -- FUEL CUTOFF
- Propellers -- FEATHER
- Battery and Generator Switches -- OFF (below 15% N1)