

# Super King Air 200

## Speeds (KIAS)

V <sub>MCA</sub>	86	
V <sub>SSE</sub>	104	
V <sub>X</sub>	100	
V <sub>Y</sub>	125	
V <sub>XSE</sub>	115	
V <sub>YSE</sub>	121	
V <sub>A</sub>	181	
V <sub>REF</sub>	103	132 with no flap
V <sub>MO</sub>	260	270 for old models
M <sub>MO</sub>	0,52	0,48 for old models
V <sub>FE</sub>	200	40%
	146	100%
V <sub>LE</sub>	181	
	163	Retraction only
<b>Other</b>		
	100	Balked landing climb
	135	Glide
	140	Min. icing conditions
	225	Max. windshield icing
	170	Turbulent air
<b>Cruise climb</b>		
	160	To 10 000'
	140	10 000 to 20 000'
	130	20 000 to 25 000'
	120	25 000 to 35 000'

## Take-off Speeds

Weight (lbs)	Take-off speeds (KIAS)	
	Rotate	At 50'
12 500	95	121
12 000	95	119
11 000	95	115
10 000	95	111
9000	95	108

# King Air 200 Normal Checklist

## ***Before starting engines***

**Cabin door:** Locked  
**Load and baggage:** Secure  
**Weight and CG:** Checked  
**\* Emergency exit:** Latched  
**Control locks:** Remove  
**Cabin seats:** Positioned (outboard), backs upright  
**Seat belts and harnesses:** Fastened  
**Parking brake:** Set  
**Landing gear handle:** Down  
**Power levers:** Idle  
**Propeller levers:** High RPM  
**Condition levers:** Cut off  
**Cabin signs:** Both  
**Cabin Temp Mode:** Off  
**Vent blower:** Auto  
**Aft blower:** Off  
**Radiant heat:** Off  
**\* Microphone switches:** Normal  
**\* Oxygen supply pressure:** Check  
**\* Oxygen supply:** Auto on/Manual off  
**\* Quick-don masks:** Check, select 100%  
**\* Circuit breakers (R side-panel):** In  
**\* Pilot's static source:** Normal  
**\* Fuel firewall valves:** Closed  
**\* Circuit breakers (L side-panel):** In  
**\* Standby pumps:** On (listen for operation)  
**\* Battery switch:** On (FUEL PRESS on)  
**\* Fuel firewall valves:** Open (FUEL PRESS off)  
**\* Standby pumps:** Off (FUEL PRESS on)  
**\* Crossfeed:** Alternately (FP off, FC on), then off  
**\* Auxiliary transfer:** Auto  
**\* NO TRANSFER:** Press to test  
**Fuel quantity:** Check (main and auxiliary)  
**DC Volt/loadmeters:** Press to check voltage  
**Stall warning:** Test  
**Fire detectors and extinguishers:** Test  
**Annunciator lights:** Test  
**Landing gear handle lights:** Press to test  
**Rotating beacon:** On

## **Engine Start (Battery)**

**R ign/start:** On  
**R FUEL PRESS:** Check extinguished  
**Stable  $N_1 > 12\%$ :** Wait  
**R condition lever:** Low idle  
**ITT and  $N_1$ :** Monitor (1000°C max., rise in 10 s)  
**R oil pressure:** Check  
**R condition lever:** High idle  
**Wait:**  $N_1 = 50\%$   
**R ign/start:** Off  
**R generator:** Reset, then On  
**Charge battery:** Load = 0,5, max. 5 min.  
**R generator:** Off  
**L ign/start:** On  
**L FUEL PRESS:** Check extinguished  
 **$N_1 > 12\%$ :** Wait  
**L condition lever:** Low idle  
**R generator:** On  
**ITT and  $N_1$ :** Monitor (1000°C max., rise in 10 s)  
**L oil pressure:** Check  
**Wait:**  $N_1 = 50\%$   
**L ign/start:** Off  
**L generator:** Reset, On  
**R condition lever:** Low idle

## **After start**

**Inverter:** Check both, select  
**DC Voltage/Load:** Check  
**AC Voltage/Freq:** Check  
**Avionics master:** On  
**Lights:** As required  
**Cabin temp/mode:** As required (Check  $N_1$ /ITT/load)  
**Annunciators:** Test, clear  
**Instruments:** Check  
**Brakes:** Check

## **Taxi**

**Brakes:** Check

**Gyros:** Check

## **Before takeoff (Runup)**

**Avionics and Radar:** Check

**Pressurisation:** Check, set (alt.+500/cabin 500agl, rate)

**Autopilot:** Check

**Electric trim:** Check (tab control, wheel switch, disc.)

**Trim:** Set

**Engine frictions:** Set

**Flaps:** Check, set

**Flight controls:** Full, free, correct

\* **Overspeed governors, rudder boost:** Test

**Rudder boost:** On

**Propellers:** Full forward

**Prop test switch:** Test

**L/R Power lever:** Up to 1830 to 1910 rpm

**L/R Power lever:** Increase to rudder movement

**L/R Power lever:** Idle

**L/R Prop test:** Release

\* **Primary governors:** Exercise at 1800 rpm

\* **Instrument/deice pneumatics:** Check (1800 rpm)

**Bleed air valves:** Instr & Envir Off

**Pneumatic gauge:** 0 pressure

**BL AIR FAIL:** Both illuminated

**Bleed air valves:** Envir Off *or* Open

**Pneumatic gauge:** Green arc

**Gyro suction gauge:** Wide green arc

**BL AIR FAIL:** Both extinguished

\* **Ice vanes:** Check (1800 rpm)

**Extend:** Torque drop

**Retract:** Torque returns

**Annunciators:** Check

\* **Autofeather:** Check

**Power:** 500 ft-lbs

**Autofeather:** Hold to test

**Power levers:** Retard each (400: ann. 220: fthr)

**Power:** Retard (both ann. out, no feather)

**Autofeather:** Arm

**Prop feather:** Check

**Fuel qty, instruments:** Check (oil temperature!)

## ***Before takeoff (ready to go)***

**Bleed air valves:** Open  
**Annunciators:** Out/considered  
**Transponder:** On  
**Prop synchrophaser:** As required  
**Strobes:** On  
**Ice protection:** As required  
**Auto-ignition:** Armed

## ***During takeoff run***

**Autofeather annunciators:** Check illuminated  
**Ignition On annunciators:** Check extinguished  
**Engines:** Check ITT/Tq in limits

## ***After takeoff***

**Landing gear:** Up  
**Flaps:** Up  
**Yaw damp:** On  
**Engines:** Climb power set, check limits  
**Props:** Set 1900 rpm  
**Synchrophaser:** On  
**Autofeather:** Off  
**(Auto-ignition:** Off)  
**Engine instruments:** Monitor  
**Cabin sign:** As required  
**Cabin pressurisation:** Check  
**Aft blower:** Off

## ***Descent***

**Pressurisation:** Set cabin altitude (table), Rate  
**Altimeter:** Set  
**Cabin sign:** As required  
**Windshield anti-ice:** As required  
**Power:** As required ( $N_1=75\%$  for pressurisation)

### **Pressurisation Settings:**

QNH	970	980	990	1000	1010	1020	1030	1040	1050
Above	1800	1500	1200	900	600	300	0	-300	-600

Interpolate or use next lower QNH. Default 500'.

## ***Before landing***

**Pressurisation:** Check

**Cabin sign:** FSB or Both

**Prop autofeather:** Arm

**Prop synchrophaser:** As desired

**(Ice protection:** As required)

**(Auto-ignition:** Armed)

**Flaps:** Approach

**Landing gear:** Down

**Lights:** As required

**Radar:** Standby or off

**Short final:**

**Flaps:** Down

**Yaw damp:** Off

**Props:** High rpm after touchdown

**Power:** Beta or reverse

Remove reverse at 40 kts

## ***Balked landing***

**Power:** Maximum

**Props:** Full forward

**Airspeed:** 100 kts until clear of obstacles

**Flaps:** Up

**Gear:** Up

## ***After landing***

**Landing and taxi lights:** As required

**Ice protection:** Off

**Auto-ignition:** Off

**Electrics:** Observe load limits

**Trim:** Set

**Flaps:** Up

**Transponder and radar:** Off

**Strobes:** Off

## **Shutdown**

**Parking brake:** Set  
**Inverter:** Off  
**Avionics master:** Off  
**Autofeather:** Off  
**Lights:** Off  
**Cabin temp mode:** Off  
**Vent blower:** Auto  
**Aft blower:** Off  
**Radiant heat:** Off  
**Battery:** Charged  
**ITT:** Stable at min. for 1 min  
**Condition levers:** Cut-off  
**Props:** Feather  
**Standby pumps, crossfeed:** Off  
**DC Volt/Load:** Check voltage  
**Overhead panel switches:** Off  
**Battery/Gen switches:** Off (using gang bar)  
**Oxygen supply control handle:** Push off  
**Control locks:** Install  
**Wheel Chocks:** Install  
**Park brake:** Off  
**Tiedowns:** As required  
**External covers:** Install

# BE20 Abnormal Checklist

## ***Air start (Starter)***

**Cabin temp:** Off, **Blower:** Auto, **Aft Blower:** Off

**Radiant heat:** Off

**Radar:** Standby or Off

**Windshield heat:** Off

**Power lever:** Idle

**Condition lever:** Cut-off

**Fuel firewall valve:** Open

**Ign./engine start:** On, check IGN annunciator

**Condition lever:** Low idle

**N1 > 50%:** Wait

**Ign./engine start:** Off

**Propeller lever:** As required

**Power lever:** As required

**Generator:** On

**Eng. auto ignition:** Arm

**Electrical equipment:** As required

## ***Air start (Windmilling)***

**Cabin temp:** Off, **Blower:** Auto, **Aft Blower:** Off

**Radiant heat:** Off

**Radar:** Standby or Off

**Windshield heat:** Off

**Power lever:** Idle

**Propeller:** Full forward

**Condition lever:** Cut-off

**Fuel firewall valve:** Open

**Generator (inop. engine):** Off

**Airspeed:** 140 kts minimum

**Altitude:** Below 20 000 ft

**Auto-ignition switch:** On

**Condition lever:** Low idle

**Wait:** ITT peaks

**Power:** As required

**Generator:** On

**Electrical equipment:** As required



### ***Landing gear manual extension***

**Airspeed:** 130 KIAS

**Ldg Gr Relay cct breaker (pilot subpanel):** Pull

**Landing gear handle:** Down

**Emergency engage handle:** Lift, clockwise

**Extension lever:** Release clip, pump until 3 greens

### ***Landing gear up after manual ext.***

**Emergency engage handle:** CCW, push down

**Extension lever:** Stow

**Ldg Gr circuit breaker:** Push in

**Landing gear:** Up

### ***Zero thrust***

**Propeller:** 1600 rpm

**Power lever:** Set Tq = 120 ft-lbs

# BE20 Emergency Checklist

## ***Engine shutdown***

**Condition lever:** Cut-off

**Prop lever:** Feather

**Fuel firewall valve:** Closed

**Fire extinguisher:** Actuate if required

**Clean up (inop. engine):**

**Bleed air valve:** As required

**Engine auto ignition:** Off

**Generator:** Off

**Autofeather:** Off

**Synchrophaser:** Off

**Electrical load:** Monitor

## ***Engine fire on ground***

**Condition lever:** Cut-off

**Fuel firewall valve:** Closed

**Starter switch:** Starter only

**Fire extinguisher:** Actuate (if required)

## ***Engine failure during ground roll***

**Power levers:** Idle

**Brakes:** As required

**Operative engine:** Max. reverse (watch traction!)

**If insufficient runway for stopping:**

**Condition levers:** Cut-off

**Fuel firewall valves:** Closed

**Master switch:** Off with gang bar

## ***Engine failure after lift-off (can't land)***

**Power:** Max. allowable

**Prop RPM:** Full increase

**Airspeed:** Maintain (takeoff speed or above)

**Landing gear:** Up

**Power lever (inop. engine):** Idle after autofeather

**Propeller (inop. engine):** Feather

**Airspeed:**  $V_{YSE}$  (after obstacles cleared)

**Flaps:** Up

**Clean-up (inop. engine):**

**Condition lever:** Cut-off

**Bleed air valve:** As required

**Fuel firewall valve:** Closed

**Engine auto ignition:** Off

**Autofeather switch:** Off

**Generator:** Off

**Synchrophaser:** Off

**Electrical load:** Monitor

## ***2nd engine flame-out***

**Power lever:** Idle

**Propeller:** Do not feather

**Condition lever:** Cut-off

**Conduct air start**

### ***Smoke and fumes: Electrical***

**Oxygen (manual):** Handle On, Connect/don masks

**Oxygen (auto):** Don, mic, override on, pax.

**Cabin temp mode:** Off

**Vent blower:** Auto

**Aft blower:** Off

**Radiant heat:** Off

**Avionics master:** Off

**Nonessential electrical equipment:** Off

**If fire or smoke ceases:**

Individually turn on equipment to isolate

**If fire or smoke persists:**

**Emergency descent:** 31 000' or below

**Cabin pressure switch:** Dump

**Land as soon as practical**

### ***Smoke and fumes: Environmental***

**Oxygen:** Handle On, Connect/don masks

**Oxygen (auto):** Don, mic, override on, pax.

**Cabin temp mode:** Off

**Vent blower:** High

**Left bleed valve:** Envir Off

**If smoke decreases:** Continue operation

**If smoke does not decrease:**

**Left bleed valve:** Open

**Right bleed valve:** Envir Off

**If smoke decreases:** Continue operation

### ***Emergency descent***

**Power levers:** Idle

**Prop controls:** Full high RPM

**Wing flaps:** Approach

**Landing gear:** Down

**Airspeed:** 181 KIAS ( $V_{LE}$ )

### ***Glide***

**Landing gear:** Up

**Wing flaps:** Up

**Try restart before feathering both**

**Propellers:** Feather

**Airspeed:** 135 KIAS

## ***Crossfeed***

**Standby boost pumps:** Off  
**Crossfeed flow switch:** Left or Right (as required)  
**Fuel Crossfeed light:** Check on  
**Fuel Pressure lights:** Both out  
**Aux Transfer switch:** Auto (side being crossfed)

## ***Crossfeed Off***

**Crossfeed Flow switch:** Off (centre)

## ***Engine driven boost pump failure***

**Standby boost pump:** On (failed side)  
**FUEL PRESS light:** Check off

## ***Circuit breaker tripped***

**Nonessential circuit:** Do not reset in flight  
**Essential circuit:** Push to reset, once only  
**Bus feeder breaker:** Do not reset in flight

## ***Pressurisation differential in red***

**Cabin altitude selector:** Select higher setting

**If condition persists:**

**Bleed air valves:** Envir Off

**Cabin pressure switch:** Dump

**Bleed air valves:** Open

## ***Cracked windshield***

**Outer panel:** No action required  
**Inner panel:** Descend or < 4 PSI differential in 10 mins.