Super King Air 200

Speeds (KIAS)

V_{MCA}	86	
V_{SSE}	104	
V_X	100	
V_Y	125	
V_{XSE}	115	
V_{YSE}	121	
V_A	181	
V_{REF}	103	132 with no flap
V_{MO}	260	270 for old models
M_{MO}	0,52	0,48 for old models
V_{FE}	200	40%
	146	100%
V_{LE}	181	
	163	Retraction only
Other		
	100	Balked landing climb
	135	Glide
	140	Min. icing conditions
	225	Max. windshield icing
	170	Turbulent air
Cruise climb		
	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: .....As required
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
Air start:.....Conduct

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 diff. in 10 mins.

