

Carenado

KING AIR C90B

NORMAL CHECKLIST





King Air C90B Normal Checklist

Before Starting Engines

1.- Cabin Door:	LOCKED
2.- Load And Baggage:	SECURE
3.- Weight And Cg:	CHECKED
4.- Emergency Exit:	LATCHED
5.- Seat Belts And Harnesses:	FASTENED
6.- Control Locks:	REMOVE
7.- Seat Belts And Shoulder Harnesses:	FASTENED
8.- Parking Brake:	SET
9.- Overhead Panel:	CHECK
10.- Oxygen Control:	PULL ON, CHECK MASK FLOW, PUSH OFF
11.- Right Side Panel Cbs:	CHECK
12.- Alternate Static Air Source:	NORMAL
13.- Cabin Temp Mode:	OFF
14.- Vent Blower:	AUTO
15.- Bleed Air Valves:	OPEN
16.- Condition Levers:	CUT OFF
17.- Propeller Levers:	HIGH RPM
18.- Power Levers:	IDLE
19.- Efis Power Switches (If Installed):	OFF
20.- Landing Gear Control:	DOWN
21.- Left Subpanel Switches:	OFF
22.- Engine Anti-ice:	ON
23.- Fuel System (Go To Page 10):	CHECK
24.- Voltmeter:	CHECK
BAT and CTR	23 VOLTS MIN
TPL FED	22 VOLT MIN
LEFT & RIGHT GEN., EXT PWR	0 VOLT
Stall Warning Annunciator:	PRESS TO TEST
Annunciator Lights:	TEST
Fire Detectors:	CHECK
Landing Gear Control Lights:	TEST
Gear Down Annunciator:	CHECK
Hyd Fluid Sensor:	TEST
[HYD FLUID LO] - ILLUMINATED	
Beacon:	ON

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Engine Starting (Battery)

- 1.- Right Ignition/start: ON
- 2.- Rign On: CHECK ILLUMINATED
- 3.- Stable N1 > 12%: WAIT
- 4.- Right Condition Lever: LOW IDLE
- 5.- Itt And N1: MONITOR (1090°C MAX.)
- 6.- Right Oil Pressure: CHECK
- 7.- Wait: N1 = 51%
- 8.- Right Ignition/start: OFF
- 9.- Right Condition Lever: HIGH IDLE
- 10.- Right Generator: RESET, ON
[R DC GEN],[L GEN TIE OPEN], [R GEN TIE OPEN] - EXTINGUISHED
- 11.- Charge Battery: LOAD = 0,5, MAX. 5 MIN
- 12.- Left Ignition/start: ON
- 13.- Lign On: CHECK ILLUMINATED
- 14.- Stable N1 > 12%: WAIT
- 15.- Left Condition Lever: LOW IDLE
- 16.- Itt And N1: MONITOR (1090°C MAX.)
- 17.- Left Oil Pressure: CHECK
- 18.- Wait: N1 = 51%
- 19.- Left Ignition/start: OFF
- 20.- Right Condition Lever: HIGH IDLE
- 21.- Left And Right Prop Rpm: 1100 MINIMUM
- 22.- Voltmeter (L Gen): 27.5 TO 29.0 VOLTS
- 23.- Left Generator: RESET, ON
[L DC GEN] - EXTINGUISHED
- 24.- Right Generator: RESET, ON
- 25.- Condition Levers: AS REQUIRED

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Before Taxi

- 1.- Transfer Pumps: ON
- 2.- Crossfeed: AUTO
- 3.- Dc Voltage/load: CHECK
- 4.- Inverter: CHECK BOTH, SELECT
- 5.- Avionics Master: ON
- 6.- Efis Power ON
- 7.- Lights: AS REQUIRED
- 8.- Fuel Control Heat: HEAT
- 9.- Cabin Temp/mode: AS REQUIRED
(CHECK 10.- N1/ITT/LOAD)
- 11.- Annunciators: TEST, CLEAR
- 12.- Instruments: CHECK

Taxi

- 1.- Brakes: CHECK
- 2.- Gyros: CHECK

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Before Takeoff

- 1.- Boost Pumps And Auto Crossfeed:..... TEST
- 2.- Avionics And Radar:..... CHECK
- 3.- Efis (If Installed): CHECK
- 4.- Pressurization: CHECK, SET
- 5.- Autopilot: CHECK, THEN OFF
- 6.- Electric Trim: CHECK (TAB CONTROL, WHEEL SWITCH)
- 7.- Trim: SET
- 8.- Engine Frictions:..... SET
- 9.- Flaps: CHECK AND CONFIRM UP
- 10.- Flight Controls:..... FULL, FREE, CORRECT
- 11.- Engine Anti-ice: CHECK
- 12.- Overspeed Governors:..... TEST
- 13.- Primary Governors:..... EXERCISE AT 1900 RPM
- 14.- Gyro Suction, Pneumatic Pressure:..... CHECK
- 15.- Autofeather (Go To Page 10):..... CHECK
- 16.- Autofeather: ARM
- 17.- Prop Feathering (Manual): CHECK (LO IDLE)
- 18.- Ice Protection Equipment (If Required) : CHECK
- 19.- Fuel Quantity, Flight And Engine Instruments: CHECK
- 20.- Take Off Speeds:..... CONFIRM

Weight-lbs	Rotation	50 Ft.
10100	97	104
9000	87	99
7850	80	93
7000	80	93

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Before Takeoff

- | | |
|-----------------------------|----------------------|
| 1.- Auto-ignition:..... | ARMED |
| 2.- Ice Protection:..... | AS REQUIRED |
| 3.- Autofeather:..... | CONFIRM ARMED |
| 4.- Prop Sync:..... | AS REQUIRED |
| 5.- Exterior Lights:..... | AS REQUIRED |
| 6.- Transponder:..... | ON |
| 7.- Prop Levers:..... | CONFIRM FULL FORWARD |
| 8.- Trim:..... | CONFIRM SET |
| 9.- Flaps:..... | CONFIRM SET |
| 10.- Bleed Air Valves:..... | OPEN |
| 11.- Interior Lights:..... | AS REQUIRED |
| 12.- Generator Load:..... | CHECK |
| 13.- Battery Ammeter:..... | CHECK |
| 14.- Annunciators:..... | OUT/CONSIDERED |
| 15.- Strobes:..... | ON |

On Takeoff Run

- | | |
|------------------------------------|------------------------|
| 1.- Autofeather annunciators:..... | CHECK ILLUMINATED |
| 2.- Ignition On annunciators:..... | CHECK EXTINGUISHED |
| 3.- Engines:..... | CHECK ITT/TQ IN LIMITS |

Climb

- | | |
|--------------------------------|-------------------------------|
| 1.- Landing gear:..... | UP |
| 2.- Flaps:..... | UP |
| 3.- Engines:..... | CLIMB POWER SET, CHECK |
| 4.- Prop RPM:..... | 2200(MCP)/2000 (CRUISE CLIMB) |
| 5.- Prop Sync:..... | ON |
| 6.- Windshield anti-ice:..... | NORMAL |
| 7.- Engine instruments:..... | MONITOR |
| 8.- Cabin sign:..... | AS REQUIRED |
| 9.- Cabin pressurization:..... | CHECK |

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Cruise

- 1.- Cruise Power: SET PER CRUISE POWER TABLES
- 2.- Autofeather: OFF
- 3.- Engine Instruments: MONITOR
- 4.- Pressurization: MONITOR

Descent

- 1.- Pressurization: SET CABIN ALTITUDE (TABLE), RATE
- 2.- Altimeter: SET
- 3.- Cabin Sign: AS REQUIRED
- 4.- Windshield Anti-ice: AS REQUIRED
- 5.- Power: AS REQUIRED
- 6.- Recognition Lights: AS REQUIRED
- 7.- Seats And Tables: POSITIONED

Before Landing

- 1.- APPROACH SPEED: CONFIRM
- 2.- NORMAL LANDING APPROACH SPEED

LANDING WEIGHT LBS	KNOTS
10100	102
9600	101
8000	101
7000	101

- 3.- PRESSURIZATION: CHECK
- 4.- CABIN SIGN: FSB OR NS/FSB
- 5.- PROP AUTOFEATHER: ARM
- 6.- FLAPS: APPROACH
- 7.- LANDING GEAR: DOWN
- 8.- LIGHTS: AS REQUIRED
- 9.- RADAR: STANDBY OR OFF

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Normal Landing

- 1.- Flaps: DOWN
- 2.- Airspeed: NORMAL LANDING APPROACH SPEED
- 3.- Yaw Damp: OFF
- 4.- Power Levers: Idle
- 5.- Prop Levers: FULL FORWARD
After Touchdown:
- 6.- Power Levers: LIFT AND SELECT GROUND FINE
- 7.- Brakes: AS REQUIRED

Maximum Reverse Thrust Landing

- 1.- Flaps: DOWN
- 2.- Airspeed: NORMAL LANDING APPROACH SPEED
- 3.- Yaw Damp: OFF
- 4.- Condition Levers: HIGH IDLE
- 5.- Power Levers: IDLE
- 6.- Prop Levers: FULL FORWARD
After Touchdown:
- 7.- Power Levers: LIFT AND SELECT GROUND FINE, THEN LIFT AND SELECT REVERSE
- 8.- Brakes: AS REQUIRED
- 9.- Condition Levers: LOW IDLE

Balked Landing

- 1.- Power: MAXIMUM ALLOWABLE
- 2.- Airspeed: 101 KTS UNTIL CLEAR OF OBSTACLES
- 3.- Flaps: UP
- 4.- Landing Gear: UP
- 5.- Airspeed: NORMAL CLIMB

After Landing

- 1.- Landing and taxi lights: AS REQUIRED
- 2.- Engine anti-ice: ON
- 3.- Ice protection: AS REQUIRED
- 4.- Transponder and radar: STANDBY AND OFF
- 5.- Electrical load: OBSERVE LOAD LIMITS
- 6.- Trim: SET
- 7.- Flaps: UP
- 8.- Pressurization differential: VERIFY 0
- 9.- Strobes: OFF

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Shutdown

1.- Parking brake:	Set
2.- Transfer pumps:	Off
3.- Crossfeed:	Closed
4.- EFIS power:	Off
5.- Avionics master:	Off
6.- Inverter:	Off
7.- Autofeather:	Off
8.- Vent Blower:	Auto
9.- Cabin mode:	Off
10.- Subpanel and avionics:	Off
11.- Oxygen supply:	Off
12.- Battery:	Charged
13.- ITT:	Below 585°C for 1 min
14.- Instrument emergency lights:	On
15.- Power levers:	Idle
16.- Condition levers:	Cut-off
17.- Props:	Feather
18.- Boost pumps (below 10% N1):	Off
19.- Control locks:	As required
20.- Parking brake:	Off
21.- Battery/Gen bar:	Off
22.- Overhead panel lights switches:	As required
23.- Instrument emergency lights:	As required
24.- External covers:	Install

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Fuel System

- 1.- Circuit Breakers IN
- 2.- Battery ON
- 3.- Fuel FW Shutoff Valves CLOSE
- 4.- Crossfeed OPEN
[FUEL CROSSFEED] – ILLUMINATED, THEN CLOSE
- 5.- Boost Pump ON (listen for operation)
- 6.- Firewall Fuel Valves OPEN
[L FUEL PRESS] and [R FUEL PRESS] – EXTINGUISHED
- 7.- Fuel Quantity CHECK
- 8.- Transfer Pumps TEST
 - Transfer pumps AUTO
 - Transfer test switch LEFT, THEN RIGHT
[L NO FUEL XFER] and [R NO FUEL XFER]
 - Transfer pumps OFF
- 9.- Battery OFF

Return to page 2, step 24

Autofeather

- 1.- Power Levers: APPROXIMATELY 500 FT-LBS TORQUE
- 2.- Autofeather Switch: HOLD TO TEST
- 3.- Power Levers: RETARD INDIVIDUALLY; THEN RETURN TO APPROXIMATELY 500 FT-LBS TORQUE
- 4.- Power Levers: BOTH RETARDED

Return to page 5, step 16