

NORMAL PROCEDURES CHECKLIST

for Rockwell COMMANDER RC112A HB - NCB

Das AFM ist massgebend!

Diese Checkliste
gehört:

ins Flugzeug
HB – NCB

ICAO designation and identification AC11
Noise dependent tariff class (Lärmegebührenklasse) C

	Normal Category	Utility Category
Maximum Take-Off Weight	(1202 kg) 2650 lbs	2488 lbs
Maximum Landing Weight	2550 lbs	2488 lbs
Maximum Zero Fuel Weight	No Structural Limit	2300 lbs

Maximum Weight in Baggage Compartment 200 lbs

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AIRSPEEDS FOR SAFE OPERATION

	10° Flaps	20° Flaps	IAS
Take-off			
Lift-off	67 kts	62 kts	
50 ft	71 kts	66 kts	
Maximum Climb			
Best Angle (V _x)			75 kts
Best Rate (V _y)			85 kts
Cruise Climb			90 kts
Maneuvering Speed (V _A) [Normal Category 2650 lbs]			113 kts
Recommended Maximum Turbulent Air Penetration			100 kts
Landing Approach Flaps (20°)	80 -	85 kts	
Landing Approach Full Flaps (35°)		75 kts	
Maximum Flaps Extended 20 - 35° (White Arc)			109 kts
Maximum Flaps Extended 0 - 20°			130 kts
Maximum Gear Extended			130 kts
Maximum Gear Operation			130 kts
Maximum Cowl Flaps Open			130 kts
Maximum Cowl Side Window Open			130 kts
Maximum Demonstrated Crosswind			12 kts
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Maximum Glide (Flaps Up)			85 kts
Emergency (Manual / Free Drop) Gear Extension			75 kts

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PREPARATION

Weather - SUITABLE
Airplane Status - AIRWORTHY
Pilot's Operating Handbook - AVAILABLE IN THE AIRPLANE
Baggage - WEIGHED, STOWED, TIED
Tow Bar - REMOVED AND STOWED
Empty Seats - FASTEN BELTS
Weight and C.G. - WITHIN LIMITS
Navigation - PLANNED
Charts and Navigation Equipment - ON BOARD
Performance and Range - COMPUTED AND SAFE
General Condition - INSPECT
Aircraft - FREE OF ICE, SNOW OR FROST

The PIC - IS FAMILIAR WITH HB-NCB
The PIC - KNOWS THE AIRCRAFT LIMITATIONS
The PIC - KNOWS HIS OWN LIMITATIONS
The PIC - CHECK "AM I SAFE ?"

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WALK - AROUND

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PREFLIGHT INSPECTION

1. CABIN:

- Aircraft documentation -ON BOARD
- Parking Brake - SET
- Control Wheel Lock - REMOVE
- Landing Gear Handle (Lever) - DOWN
- Static Air Source - NORMAL
- Mixture - IDLE CUT-OFF
- Ignition - OFF
- Avionics Master - OFF
- All Switches - OFF
- Master Switch - ON
- Landing Gear Position Indicators Lights - 3 GREENS ON
- Fuel Quantity Indicators (Fuel computer) - CHECK QUANTITY

If night flight is planned, check operation of all night lighting equipment and flashlight on board.

- Drain both drain (pull 2 sec) then Left or right (fuller tank)
- Flaps UP
- Master Switch OFF
- Cowl Flaps OPEN

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2. LEFT WING TRAILING EDGE:

- Flap - CHECK
- Aileron - CHECK
- Wing Tip - CHECK
- Position Light (Navigation)..... - CHECK

5. LEFT WING LEADING EDGE and LANDING GEAR:

- Pitot Tube (Remove Cover) - CHECK
- Tie Down and Chocks - REMOVE
- Stall Warning (movement of vane) - CHECK
- Fuel Tank - CHECK QUANTITY
- Fuel Tank Filler Cap - SECURE
- Fuel Sump - DRAIN
(Drain fuel to check for weather, sediment and proper fuel grade before first flight of day and after each refueling. Check that valve is closed)
- Fuel Tank Vent Line - UNOBSRUCTED
- Strut, Door, Wheel Well and Brake - CHECK
- Landing Gear Limit Switches..... - CHECK CONDITION
- Main Wheel Tire (inflation 29 psi) - CHECK

Each Fuel Tank:

Full	132 Liter	≅	128 Liter usable
Filler Neck Tab Bottom	94 Liter	≅	94 Liter usable

Do not take off with less then 38 Liter in each tank!

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4. NOSE / ENGINE SECTION:

- Left Cowl (Cowling Fasteners) - SECURE
- Induction Air Intake..... - CLEAR
- Air Filter (condition and security of attachment)..... - CHECK for
- Propeller (General Condition, Nicks, etc.) - CHECK,
- Spinner - CHECK
- Landing Light..... - CHECK
- Nose Gear, Strut, Wheel Well - CHECK
- Nose Wheel Tire (inflation 31 psi)..... - CHECK
- Landing Gear Limit Switches..... - CHECK CONDITION
- Chocks - REMOVE
- Windshield..... - CLEAN
- Engine Oil (Level 6 - 8 quarts) - CHECK
- Engine Oil Dipstick (PROPERLY SEATED)..... - SECURE
- Cowling Interior - INSPECT
- Engine Oil Cap (Access Door) - SECURE
- Right Cowl (Cowling Fasteners)..... - SECURE

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5. RIGHT WING LEADING EDGE and LANDING GEAR:

- Tie Down and Chocks - REMOVE
- Fuel Tank - CHECK QUANTITY
- Fuel Tank Filler Cap..... - SECURE
- Fuel Sump..... - DRAIN
(Drain fuel to check for weather, sediment and proper fuel grade before first flight of day and after each refueling. Check that valve is closed)
- Fuel Tank Vent Line - UNOBSRUCTED
- Strut, Door, Wheel Well and Brake - CHECK
- Squat Switch - CHECK CONDITION
- Landing Gear Limit Switches..... - CHECK CONDITION
- Main Wheel Tire (inflation 29 psi) - CHECK

<u>Each Fuel Tank:</u>			
Full	132 Liter	≅	128 Liter usable
Filler Neck Tab Bottom	94 Liter	≅	94 Liter usable
<i>Do not take off with less than 38 Liter in each tank!</i>			

6. RIGHT WING TRAILING EDGE:

- Wing Tip - CHECK
- Position Light (Navigation)..... - CHECK
- Aileron - CHECK
- Flap - CHECK

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7. RIGHT FUSELAGE:

- Right Side of Fuselage..... - CHECK
- Static Port..... - UNOBSTRUCTED

8. EMPENAGE:

- Control Surfaces:..... - CHECK
- Tie Down - REMOVE
- Position Light (Tail Navigation) - CHECK

9. LEFT FUSELAGE:

- Static Port..... - UNOBSTRUCTED
- Left Side of Fuselage - CHECK
- All Antennas - CHECK
- Baggage Door - CHECK and LOCK

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BEFORE STARTING ENGINE

1. Preparation and Preflight Inspection - COMPLETED
2. Parking Brake..... - SET
3. Seats - POSITION AND LOCK
4. Seat Belts and Shoulder Harnesses - FASTEN AND ADJUST
5. All Electric / Avionic Master Switches - OFF
6. Circuit Breakers..... - CHECK-IN
7. Landing Gear Handle (Lever) - DOWN
8. Cowl Flaps..... - OPEN
9. Master Switch..... - ON
10. Alternator Switch for Battery start (normal) - ON
for GPU start OFF
11. Flaps.....UP
12. Light Switches - AS REQUIRED
13. Fuel Boost Pump ON, Check for operation then . OFF
14. Fuel Quantity - CHECK
15. Fuel Selector - FULLER TANK (L or R)
16. Induction Air Heat Control - COLD
17. PropellerHIGH RPM
18. GPU (if necessary).....CONNECTED

note: If battery completely empty:
Engine will start but alternator is not loading the battery!

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ENGINE START (all conditions)

1. Rotating Beacon..... ON
2. Mixture cold ENG (FULL FORWARD) RICH
hot or flooded ENG (IDELE CUTOFF) . LEAN
3. PropellerHIGH RPM
4. Throttle cold ENG (max.1/2 cm)IDLE
hot ENG min HALF OPEN
flooded ENG.....FULL OPEN
5. Fuel Pump cold ENG momentarily ON then OFF
hot or flooded ENG OFF
6. Propeller Area FREE
7. Magneto / Start Switch - Start (release to BOTH when engine fires)
(Starter cranking max. 30 sec. with at least 2 minutes between cranking periods)
8. Warm up1000 to 1200 RPM
9. Oil Pressure..... - IN YELLOW ARC WITHIN 30 sec.
10. GPU (if used)..... - OFF, - DISCONNECTED
11. Alternator Switch (if GPU was used) - ON
12. Engine Instruments - CHECK
13. Ammeter (Alternator Load / Voltage)..... - CHECK
14. Suction - CHECK
15. Directional Gyro -SET

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BEFORE TAXI

1. Autopilot - OFF
2. Avionics Master - ON
3. COM/NAV/SSR - SET
4. Altimeters (2x)..... - QNH SET
5. Directional Gyro..... - CHECKED
6. Horizon - CHECK

TAXI

1. Parking Break..... - RELEASE
2. Breaks - RELEASE and CHECK
3. Steering - NORMAL
4. Flight Instruments (Speed, Altimeter, VSI, 3 Gyros).....CHECK

NORMAL PROCEDURES CHECKLIST
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ENGINE RUN - UP

1. Parking Brake..... - SET
 2. Engine Instruments - CHECK
 3. Cowl Flaps.....- CHECK OPEN
 4. Rear Zone - FREE
 5. Throttle - 2000 RPM
 6. Magnetos Left / Right / Both..... CHECK
- | |
|--|
| max drop 175 RPM max difference 50 RPM |
|--|
7. Propeller (drop 300 - 400 RPM).....- EXERCISE TWICE
 8. Mixture (ETG Engine RPM and fuel flow) - CHECK
 9. Fuel Pump- ON (check slight rise in fuel flow) - then OFF
 10. Induction Air Heat Control - CYCLE / RETURN TO OFF
 11. Oil Pressure..... - CHECK
 12. Alternator (check charging and voltage) - ON
 13. Suction - CHECK
 14. Throttle - IDLE CHECK
 15. Throttle - 1000 - 1200 RPM

NORMAL PROCEDURES CHECKLIST
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BEFORE TAKE-OFF (DEPARTURE)

1. Avionics - SET and CHECK
2. Flight Instruments - SET / RECHECK
3. Fuel Quantity - CHECK
4. Fuel Selector - FULLER TANK (L or R)
5. ELEV Trim - CHECK EL. TRIM and SET TAKE-OFF POSITION
6. RUDDER Trim - SET
7. Flaps (acc. AFM)..... - CHECK and SET TAKE-OFF POSITION
8. Cowl Flaps.....CHECK OPEN
9. Flight Controls - CHECK FREE
10. Mixture..... - FULL FORWARD (RICH) OR SET
11. Propeller - FULL FORWARD (HIGH RPM)
12. Seat Belts and Shoulder Harnesses - CHECK
13. Doors and Window - CLOSED / LOCKED
14. Take-off Briefing - COMPLETED

Remember:	Vx	75 KT
	Vy	85 KT
	Cruise Climb	90 KT
	Final Approach (35° Flaps)	75 KT
	Max. Demonstrated Crosswind	12 KT
	Emergency Glide (Power Off)	85 KT

Ready for Departure

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LINE - UP and TAKE - OFF

1. Breaking Brake..... - RELEASE
2. Fuel Pump..... - ON
3. Strobe Light..... - ON
4. Landing Light..... - ON
5. Transponder..... - AS REQUIRED
6. Directional Gyro / RWY-Heading..... - CHECK

WHEN CLEARED FOR TAKE-OFF:

7. Stopwatch..... - STARTED
8. Throttle (slowly to OPEN)..... - FULL FORWARD
9. Propeller..... - CHECK 2700 RPM

DO TAKE-OFF AND LAND WITH THE AUXILIARY FUEL PUMP ON!

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CLIMB CHECK

1. GearUP
 2. Flaps..... - UP
 3. PowerMP and RPM SET FOR CLIMB
 4. Fuel Pump (check press.) - OFF
-
5. Landing LightAS REQUIRED
 6. Altimeters (2)..... - SET (AS REQUIRED)

CRUISE CHECK

1. Cowl Flaps (AS REQUIRED)SET
2. PowerSET AS DESIRED
3. Altimeters (2)..... CHECK
4. Engine InstrumentsMONITOR
5. Fuel QuantityMONITOR
6. Fuel Selector L or R (as req)
recheck Points 2
7. Directional Gyro..... CHECK and SET
8. Circuit Breakers..... - CHECKED

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DESCENT

1. Altimeters (2) - SET
2. Power - SET AS REQUIRED
3. Circuit Breakers - CHECK IN
4. Directional Gyro - CHECK and SET
5. Landing Light - ON AS REQUIRED
6. Seat Backs - UPRIGHT
7. Seat Belts and Shoulder Harnesses - FASTEN AND ADJUST

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APPROACH CHECK

1. Altimeters (2) - CHECK QNH
2. Directional Gyro CHECKED/SET
3. Autopilot - OFF
4. Circuit Breakers - CHECK IN
5. Landing Light - ON
6. Fuel Boost Pump - ON
7. Fuel Quantity - CHECK
8. Fuel Selector (L or R) - FULLER TANK
Power - SET AS REQUIRED

Max speed for Gear extension	130 kts
Flaps 10 and 20	130 kts
Flaps more then 20	109 kts

FINAL CHECK

1. Mixture - RICH
2. Landing Gear Handle (3 GREEN LIGHTS ON, NO RED) - DOWN
3. Flaps CHECK SETTING
4. Propeller HIGH RPM
5. Cowl Flaps OPEN

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BALKED LANDING (GO-AROUND)

1. Mixture..... - CHECK RICH
2. Propeller - HIGH RPM
3. Throttle - FULL
4. Flaps..... - UP
5. Landing Gear..... - UP
6. Cowl Flaps..... - CHECK OPEN

AFTER LANDING

1. Landing and Strobe Light - OFF
2. Taxi Light..... - ON
3. Pitot Heat..... - OFF
4. Fuel Pump..... - OFF
5. Transponder - STBY
6. Flaps..... - UP (0°)
7. Cowl Flaps..... - CHECK OPEN

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ENGINE SHUTDOWN

1. Parking Brake..... - SET
2. Block on Time..... - CHECK and RECORD
3. Throttle - 1000 RPM
4. Taxi Light..... - OFF
5. Avionics Master - OFF
6. All Electrical Switches - OFF
7. Magnetos (OFF and ON) Ground check
8. Mixture..... - IDLE CUT-OFF
9. Throttle - IDLE
10. Ignition..... - OFF, PULL OUT KEY
11. Master Switch and Alternator Switch..... - OFF

PARKING (short time)

1. Fuel Selector - FULLER TANK (L or R)
2. Control Wheel Lock - INSTALL
3. Chocks - INSTALL
4. Pitot Tube - INSTALL COVER
5. Parking Brake..... - RELEASE
6. Cowl Flaps..... - CLOSE

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PARKING (additional for long time)

1. Cockpit Cabin and Windows - CLEAN
2. Seat Belts - ADJUST AND SECURE OVER THE SEATS
3. Aircraft Equipment..... - STOW
4. Aircraft Log - FILLED IN
5. Cabin ALL DOORS (3) CLOSE AND LOCK
6. Cover - INSTALL