



pilots checklist



Rockwell Commander

AC-114



TRIP PREPARATION

1. CFPL_____ on board
2. MAPS_____ on board
3. KOSIF, NOTAM, meteo_____ checked
4. passport, pilot licence, AOPA card_____ on board
5. cash and credit cards_____ on board
6. trip equipment_____ on board
 - oxygen, lifewests
 - sick-bags
 - oil
 - aircraft documents
 - food & drinks
7. flightplan_____ filed
8. fueling_____ performed
9. GPS programming_____ completed
10. passenger ticket_____ filed

PRE FLIGHT INSPECTION

1. control lock_____ removed
2. controls_____ free and easy
3. magnetos_____ off
4. circuit breakers_____ all in
5. landing gear switch_____ down
6. emmerg. landing gear extending knob_____ up
7. static source_____ normal
8. trims_____ t/o position
9. radio master_____ off
10. electrical equipment_____ all off
11. master/alternator switch_____ on
12. landing gear lights_____ 3 x green
13. fuel quantity_____ check l & r, note
14. master/alternator switch_____ off
15. exterior inspection_____ completed
16. weight & balance_____ checked

**BEFORE STARTING ENGINE**

1. seat, seatbelts _____ adjust & secure
2. parking brake _____ set
3. radio master _____ off
4. electric equipment _____ off
5. circuit breakers _____ all in
6. cowl flaps _____ open
7. landing gear switch _____ down
8. master/alternator switch _____ on
9. passenger briefing _____ completed

ready for startup

COLD STARTING ENGINE

1. mixture _____ rich
2. propeller _____ high RPM
3. throttle _____ 1 cm open
4. alternate air _____ cold
5. fuel pump _____ on for 5 sec, then off
6. propeller area _____ clear
7. starter _____ engage
8. throttle _____ 800-1000 RPM
9. oil pressure _____ within 30 sec
10. ammeter _____ charging

HOT STARTING ENGINE

1. mixture _____ rich, fuel pump 3 sec,
then off
2. propeller _____ high RPM
3. throttle _____ 3 – 4 cm open
4. alternate air _____ cold
5. propeller area _____ clear
6. starter _____ engage
7. throttle _____ retard
8. mixture _____ full rich
9. throttle _____ 800-1000 RPM
10. oil pressure _____ within 30 sec
11. ammeter _____ charging

**CHECK BEFORE TAXI**

1. rotating beacon _____ on
2. radio master _____ on
3. radios, GPS and NAV _____ on & set
4. flight instruments & heading bug _____ set
5. giro _____ set & checked
6. altimeter _____ set QNH
7. flaps _____ full cycle / checked
8. ATIS _____ received
9. taxi clearance _____ received

ready for taxi

TAXI CHECK

1. brakes _____ left and right checked
2. steering _____ normal
3. gyros _____ turning correctly

ENGINE RUN UP

1. parking brake _____ set
2. engine instruments _____ checked, oil temp. green arc
3. throttle _____ 2000 RPM
4. magnetos check left & right _____ max. drop 175 RPM / max. difference 50 RPM
5. mixer _____ checked, EGT rising
6. propeller _____ cycle (2)
7. alternate air _____ hot and ret.
8. suction gauge, fuel pressure _____ green arc
9. ammeter _____ charging
10. engine instruments _____ checked
11. throttle _____ 1000 RPM

engine run up completed

**CHECK BEFORE DEPARTURE**

1. seat belts, shoulder harness _____ fastened and checked
2. fuel quantity _____ checked
3. fuel pump _____ on
4. fuel selector _____ both
5. mixture _____ rich
6. propeller _____ high RPM
7. cowl flaps _____ open
8. ignition / magnetos _____ both
9. flaps _____ 10° / 20° short / soft
10. trim tabs _____ take off position
11. doors _____ latched & locked
12. windows _____ closed
13. autopilot _____ off
14. radios _____ on & set
15. nav settings _____ completed
16. clock _____ set
17. altimeter _____ set QNH
18. giros & heading bug _____ set
19. controls _____ free and easy
20. take off briefing _____ RWY , wind, speeds
(10° Vr = 65 KIAS, Vx = 72/80 KIAS, Vy = 91 KIAS)
(20° Vr = 65 KIAS, Vx = 69/80 KIAS, Vy = 91 KIAS)
routing, altitude, restrictions, malfunctions

ready for departure

LINE UP CHECK

1. approach sector _____ free
2. landing light, strobes _____ on
3. doors _____ closed
4. runway and heading _____ identified / checked
5. transponder _____ on as required
6. wind _____ visual checked
7. time _____ note

line up completed

**TAKE OFF**

1. take off power _____ set / checked
2. brakes _____ released
3. speed _____ rising
when safely airborne
4. gear _____ break and up
5. flaps _____ up
6. climb power _____ 25 / 25 set

CLIMB CHECK

1. gear _____ up
2. flaps _____ up
3. climb power _____ 25 / 25 set
4. fuel pump _____ off
5. landing light _____ off
6. cowl flaps _____ open
7. engine instruments _____ checked

climb check completed

CRUISE CHECK

1. cowl flaps _____ close
2. cruise power _____ according AFM
3. mixture lean _____ EGT / max. perf. 100 below
4. engine instruments _____ checked
5. altimeter _____ set & checked
6. fuel selector _____ both, left or right

cruise check completed

**PRE DESCENT CHECK**

- A ATIS _____ received
 - B briefing for approach _____ done
 - C circuit breakers _____ all in
 - D directional gyros _____ set
 - E electronics and radios _____ set
 - F further planning _____ done
-
- 2. mixture _____ enrich
 - 3. engine instruments _____ checked
 - 4. cowl flaps _____ closed

pre descent check completed

CHECK FOR APPROACH

- A altimeter _____ set QNH
 - F fuel pump _____ on
 - I landing light _____ on
 - S fuel selector _____ both
 - fuel quantity _____ checked
 - M mixture _____ rich
 - A autopilot / HDG bug _____ off, RWY axis
-
- 2. power _____ adjust
 - 3. flaps _____ set for approach
 - 4. speed _____ 90 – 120 KIAS
 - 5. seatbelts _____ fastened & secured

check for approach completed

APPROACH CONFIGURATION

- 1. flaps _____ 10° below 150 KIAS
- 2. gear down _____ 3 x green below 129 KIAS

**FINAL CHECK**

G gas (fuel selector, pump, quantity)_____checked
U undercarriage: gear down_____3 x green checked
M mixture_____full rich
P propeller_____high RPM
S speed_____80 / 75 KIAS
71 KIAS shortfield
F flaps_____35°
R runway_____identified
C clear to land_____received

final check completed

CHECK AFTER LANDING

1. time_____noted
2. flaps_____up
3. cowl flaps_____open
4. fuel pump_____off
5. landing & strobe_____off
6. transponder_____standby

check after landing completed

ENGINE SHUT DOWN

1. electric consumers_____all off
2. avionics_____121.5 check, then off
3. mixture_____cut off
4. ignition_____off, key removed
5. master / alternator switch_____off
6. controls lock_____installed
7. fuel selector _____right
8. after flight briefing / logs_____done


EMERGENCY GEAR DOWN

1. 3 lights check _____ press to test & check
2. check for approach _____ done
3. reduce speed _____ 70 KIAS
4. propeller _____ high RPM
5. master / alternator switch _____ off
6. electrical gear switch _____ down
7. emergency ext. valve knob _____ pull out and down
yaw airplane if necessary to help lower gear
8. master & alternator switch _____ on
9. 3 light check _____ green

ELECTRICAL FIRE IN FLIGHT

1. master & alternator _____ off
2. electrical consumers _____ all off
3. cabin heat and cabin air _____ off
if fire out
5. only master switch _____ on
6. then one essential electrical device at a time ___ on

ENGINE FIRE IN FLIGHT

1. mixture _____ full lean
2. fuel selector _____ off
3. master & alternator switch _____ off
4. cabin heat and cabin air _____ off
5. increase airspeed to extinguish _____ as needed
6. emergency descent _____ max. 187 KIAS, gear down,
flaps up
7. emergency landing

EMERGENCY LANDING AFTER POWER LOSS / NO RESTART

1. maintain best glide _____ 82 KIAS
2. prop _____ low RPM
3. transponder _____ 7700
4. declare emergency
5. ELT _____ on
6. fuel selector _____ off
7. mixture _____ full lean / idle cut off
8. seatbelts / harness _____ fastened & secure
9. flaps _____ as needed
10. gear _____ down
up, if very rough / soft terrain
11. master, alternator & magnetos _____ off
12. door _____ unlatch
13. protect body

other cases according to AFM

AIR SPEEDS

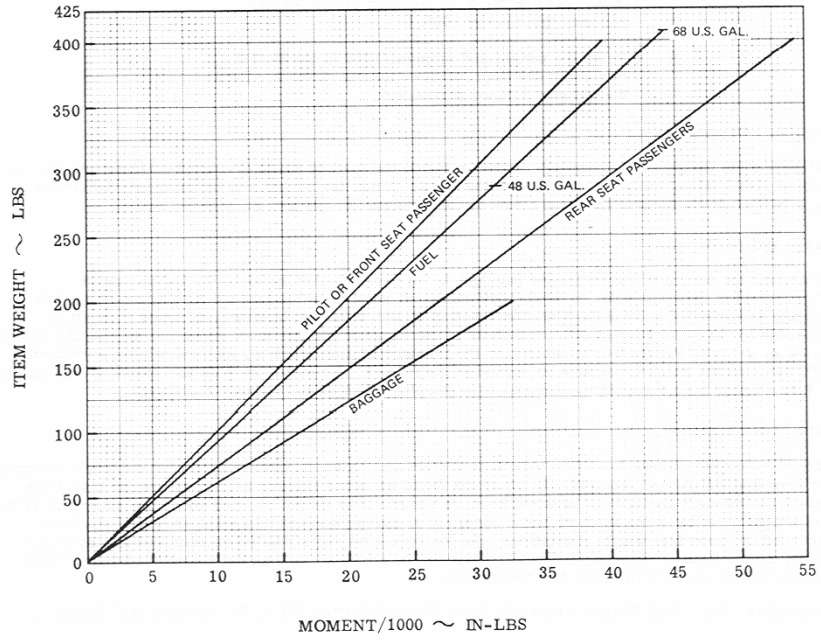
takeoff	normal 10°	Vr = 65 KIAS Vx = 72 KIAS (10°), 80 KIAS clean Vy = 91 KIAS clean
	soft & short 20°	Vr = 65 KIAS Vx = 69 KIAS (20°), 80 KIAS clean Vy = 91 KIAS clean
cruise	Vne =	187 KIAS
	Vfe = (0 - 20° flaps) (20 - 25° flaps) (25 - 35° flaps)	150 KIAS
		120 KIAS
		109 KIAS
	Vlo (gear operation) Vle (gear extracted)	129 KIAS 187 KIAS
	Vno (max. structural cruise)	147 KIAS
	Va (maneuvering speed) 3140 lbs 2658 lbs 2023 lbs	116 KIAS
107 KIAS		
93 KIAS		
landing	normal	Flaps 35° final speed 80/75 KIAS Max. demonstr. crossw. 19 KIAS
	Shortfield	Flaps 35° final speed 80/71 KIAS
other	Best glide, clean = 82 – 75 KIAS, gliding number approx. 1:10	

IMPORTANT INFORMATION

fuel _____ 70 USG, 68 USG usable
fillerneck _____ 24 USG each side, total 48 USG
MTOW _____ 3140 lbs / 1424 kg
oil _____ minimum 6 quarts / maximum 8 quarts
airpressure _____ frontwheel 50 psi
mainwheels 38 psi



LOADING GRAPH





AIRPLANE WEIGHT AND BALANCE STATEMENT

MODEL 114

SERIAL NUMBER 14356

2 of 7

AIRPLANE WEIGHT AND MOMENT TABLES					
LOADING CALCULATION TABLES (TO BE USED WITH BASIC EMPTY WEIGHT)					
<p>DATUM 0.0</p> <p>99" 136" 164"</p> <p>SEATING PLAN</p>	BAGGAGE (D=164.0)		USABLE FUEL (D=108.6)		
	WGT.	MOM/1000	GAL.	WGT.	MOM/1000
	20	3	5	30	3
	40	7	10	60	7
	60	10	15	90	10
	80	13	20	120	13
	100	16	25	150	16
	120	20	30	180	20
	140	23	35	210	23
	160	26	40	240	26
	180	30	45	270	29
	200	33	48	288	31
			50	300	33
			55	330	36
			60	360	39
			65	390	42
			68	408	44
PASSENGER LOADING					
Seat No.	Wgt.	Mom/1000			
PILOT	170	17			
1	170	17			
2	170	23			
3	170	23			
LOADING SCHEDULE (EXAMPLE)					
ITEM	WGT	MOM/1000			
1. BASIC EMPTY WEIGHT	1,962.6	198.			
2. PILOT	170	17			
3. PASSENGERS	1	17			
	2	23			
	3	23			
4. BAGGAGE	89.4	15.			
5. ZERO FUEL WT (NOT TO EXCEED 2852 LBS)	2,732.	293.			
6. FUEL	408.	44.			
7. LOADED ACFT. WGT.	3,140.	337.			
Weights Engineer <i>J.Ray</i> 4-21-78					

Form AC 1751 (10-76)

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AIRCRAFT OPERATIONAL LIMITATIONS
WEIGHT AND MOMENT ALLOWABLES
 (OPERATION OUTSIDE MIN. AND MAX. VALUES IS PROHIBITED)
 (GEAR RETRACTION MOMENT ACCOUNTED FOR)

NOTE: UTILITY CATEGORY APPLICABLE TO SERIAL NUMBERS 14000 THRU 14254 WITH CUSTOM KIT NO. CK-114-1 INSTALLED, AND SERIAL NUMBERS 14255 AND SUBS.

