



pilots checklist



Rockwell Commander

AC-114

Issue: 1 Revision: 4 / 01. March 2019



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

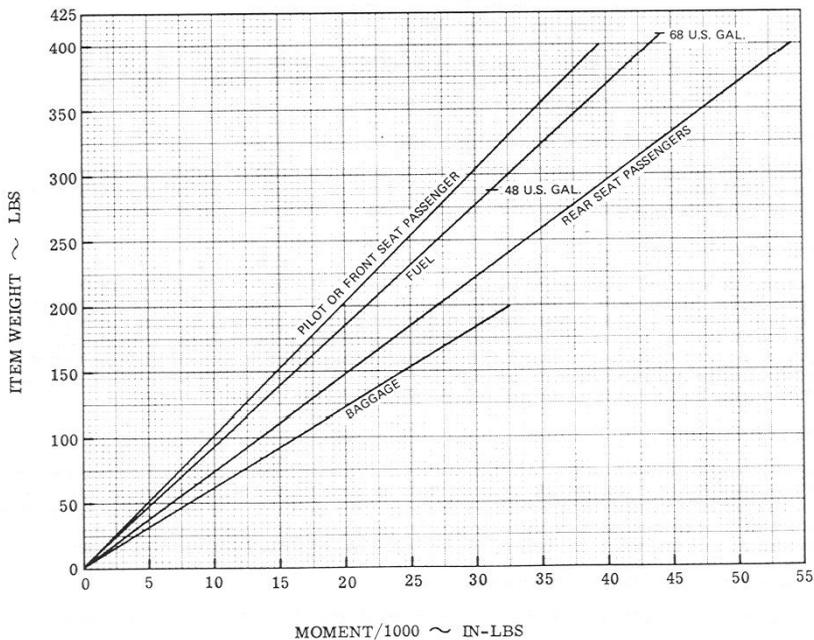
EMERGENCY LANDING AFTER POWER LOSS / NO RESTART

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



LOADING GRAPH



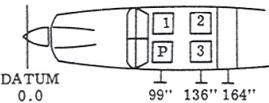


AIRPLANE WEIGHT AND BALANCE STATEMENT

2 of 7

MODEL 114

 SERIAL NUMBER 14356

AIRPLANE WEIGHT AND MOMENT TABLES								
LOADING CALCULATION TABLES (TO BE USED WITH BASIC EMPTY WEIGHT)								
 <p style="text-align: center;">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	<table border="1" style="margin-left: 20px;"> <tr><td style="text-align: center;">1</td></tr> <tr><td style="text-align: center;">2</td></tr> <tr><td style="text-align: center;">3</td></tr> </table>	1	2	3	170	17	
1								
2								
3								
			170	23				
			170	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			 4-21-78					



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.

