

PREFLIGHT CHECK

1	Aircraft preparation / outside check	.....COMPLETED (according AFM)	..... 1
2	Baggage and rear door	.....CLOSED and LATCHED	..... 2
3	Tow bar	.....REMOVED & SECURED	..... 3
4	Cabin	.....CHECKED	..... 4
5	Aircraft papers & aircraft log	.....CHECKED	..... 5
6	Load sheet	.....WITHIN LIMITS	..... 6

PREFLIGHT CHECK COMPLETED

COCKPIT PREPARATION

1	Parking brake	.....SET	..... 1
2	Rudder pedals	.....ADJUSTED & LOCKED	..... 2
3	Seat belts & harness	.....FASTENED	..... 3
4	Fuel selectors (2)	.....ON	..... 4
5	Power lever (2)	.....CHECKED / IDLE	..... 5
6	Alternate air	.....CLOSED	..... 6
7	Manual gear extension handle	.....PUSHED	..... 7
8	Gear selector	.....DOWN	..... 8
9	Avionic master	.....OFF	..... 9
10	Electric master	.....OFF	..... 10
11	Engine masters (2)	.....OFF	..... 11
12	Start key	.....OUT	..... 12
13	Pitot heat	.....OFF	..... 13
14	Alternate static	.....CLOSED	..... 14
15	Alternators (2)	.....ON	..... 15
16	VOTER switches (2)	.....AUTO	..... 16
17	All light	.....OFF	..... 17
18	Emergency switch	.....OFF / GUARDED	..... 18
19	ELT	.....ARMED	..... 19
20	Circuit breakers	.....CHECKED	..... 20
21	Flaps	.....UP	..... 21
22	Fuel pumps (2)	.....OFF	..... 22

COCKPIT PREPARATION COMPLETED

CHECK BEFORE ENGINES START

1	Electric master	ON.....	1
2	Gear warning & fire detector.....	TESTED.....	2
3	Trims.....	CHECKED.....	3
	•	Check pitch trim manually for free movement forward and rearward set back to neutral	
	•	Check rudder trim in neutral position	
4	Flight controls	FREE.....	4
	•	Check that no object is potentially blocking the free movement of the flight controls also no objects near or behind the pedals	
5	Variable elevator backstop	CHECKED.....	5
	•	Hold yoke in full aft position, set power levers to MAX, verify yoke moves forward, set power levers to idle, verify yoke regain free full movement aft	
6	G1000	DATA CHECKED / ACKNOWLEDGE.....	6
	•	Check the validity of the data base required for the flight press “ENT” (right button of MFD)	
7	Annunciations / engine instrument.....	CHECKED.....	7
	•	Check PFD warnings for congruency, choose engine page on MFD and verify function of engines instruments	
8	Fuel quantity	CHECKED / RESET (if required)	8
9	Fuel temperature	CHECKED.....	9
10	Rear door.....	CLOSED & LATCHED	10
11	Front canopy.....	POSITION 1 or 2.....	11

CHECK BEFORE ENGINES START COMPLETED

ENGINES START

- 1 Strobe lightON 1
- 2 Start keyINSERT 2
- 3 Power levers (2)IDLE 3

Start one engine at a time, normal sequence: first start LH engine

- 4 Engine masterON 4
- 5 Annunciation / engine instrumentsCHECK 5
- 6 Glow annunciationOFF 6
- 7 Propeller areaCLEAR 7
- 8 Start keyON (release when engine started) 8

- Starter limitation: do not operate the starter for more than 10 seconds. Let it cool off for 60 seconds before attempting subsequent start

- 9 Oil pressureCHECK (out of red within 3 seconds) 9

- If the oil pressure has not moved from the red range within 3 seconds after engine start, set engine master OFF and investigate the problem

- 10 Annunciations / engine / system page ...CHECK 10
- 11 IDLE RPM 710 ± 30 CHECK 11
- 12 Voltage, electrical loadCHECK 12

Start RH engine, repeat sequence 4 to 12

ENGINES START COMPLETED

CHECK AFTER ENGINES START

1	Annunciations	CHECK.....	1
2	Fuel selectors (2)	X-FEED.....	2
3	De-ice ANNUN-TEST	AS REQUIRED (ON / time check)	3
4	Avionics master	ON.....	4
5	Flood light	AS REQUIRED	5
6	Position light	ON	6
7	Ammeter	CHECK	7
8	Flaps	UP - APP - LDG - APP (or UP)	8
9	Pitot heat.....	CHECK.....	9
	•	Set pitot heat ON, verify “STAL HT FAIL” on PFD, set pitot heat OFF	
10	Cabin heat & defroster.....	AS REQUIRED	10
11	Flight instruments	SET & CHECK	11
	•	Check for correct indication and no flags, set actual QNH and appropriate speeds. Note: HSI might need distance to hangar or fuel station for proper function	
	•	Check STBY instruments set QNH and compare	
12	Autopilot / trim.....	TEST	12
	•	Autopilot: switch on autopilot, verify engaged, switch off autopilot with yoke disconnect button on the yoke, verify disconnection, switch off FD if present	
	•	Trim: verify trim function UP / DN, verify disconnect function with yoke disconnect button	
13	Engine temperature	CHECK.....	13
14	Fuel selectors (2)	ON.....	14
15	De-ice system	CHECK, if required.....	15
	•	To check function of windshield de-ice press WINDSHIELD button, verify fluid spraying (only if necessary)	
	•	“DEICE PRES HIGH”	verify not illuminated
		“DEICE LVL LO”	illuminated if liquid quantity < 10 litre
		“DEICE PRES LO”	on 2 minutes after test initiation (point 3)
		PUMP 1	select
		DEICE	HIGH
		“DEICE PRES LO”	verify OFF (may take up to 20 seconds)
		PUMP 2	select
		Ice lights	ON / visual inspection, check / OFF
		“DEICE PRES HIGH”	verify not illuminated
		“DEICE PRES LO”	verify not illuminated
		DEICE.....	OFF
		ANNUN-TEST.....	OFF

CHECK AFTER ENGINES START COMPLETED

TAXI CHECK

- | | | |
|---|---|---|
| \| 1 | Brakes & steering.....CHECKED..... | 1 |
| | <ul style="list-style-type: none"> • Check braking function of both pilots | |
| \| 2 | Flight instruments.....CHECKED..... | 2 |
| | <ul style="list-style-type: none"> • Check for consistency and stability in turns left and right; ADI, HSI and compass | |

TAXI CHECK COMPLETED

RUN-UP

- | | | |
|---|--|---|
| 1 | Parking brake.....SET..... | 1 |
| 2 | Fuel selectors (2).....ON..... | 2 |
| 3 | Circuit breakers.....CHECK..... | 3 |
| 4 | Engine instruments.....GREEN..... | 4 |
| 5 | Zone behind aircraft.....CLEAR..... | 5 |
| 6 | Power levers (2).....IDLE..... | 6 |
| 7 | ECU TEST.....PERFORM..... | 7 |
| | <ul style="list-style-type: none"> • ECU test buttons.....PRESS and hold <li style="padding-left: 20px;">Verify "L/R ECU A / B fail".....ON <li style="padding-left: 20px;">Props cycling (twice increase above 1800 RPM & decrease) <li style="padding-left: 20px;">Verify "L/R ECU A / B fail".....OFF <li style="padding-left: 20px;">a slight shake of the engine might occur <li style="padding-left: 20px;">ECU test buttons.....release | |
| 8 | VOTER switches (2).....A / AUTO / B / AUTO..... | 8 |
| | <ul style="list-style-type: none"> • Check engine running without a change / a shake may occur | |

RUN-UP COMPLETED

CHECK BEFORE DEPARTURE

- | | | | |
|---|-----------------------|-------------------------------------|---|
| 1 | Alternate air | CLOSED | 1 |
| 2 | Flight controls | FREE & CORRECT L / R / UP / DN..... | 2 |
| 3 | Trims..... | SET FOR T/O..... | 3 |
| 4 | Flaps..... | SET T/O | 4 |
| 5 | Avionics | SET | 5 |
- COM: set / verify active and STBY frequencies
 - GNS: insert flight plan and procedures according to expected routes, store if required
Verify RAIM prediction for possible GPS approaches
Verify active flight plan to be correct, from take-off to missed approach
 - NAV: set required navigation aids according to expected route
For departure: if possible one navigation aid to be set for the SID and one navigation aid to be set for possible contingency and inflight return
Check ID if possible, set course navigation 1 & 2, choose bearing pointers and display DME window
 - Standby navigation aid: according to expected use for main or back-up navigation
 - Verify desired display on PFD and MFD (insets / track up / MAP DCLTR)
- | | | | |
|---|---------------------|----------------------|---|
| 6 | Fuel quantity | L+R / ENDURANCE..... | 6 |
|---|---------------------|----------------------|---|
- Note taxi fuel used / double check quantity & resulting endurance
- | | | | |
|---|---------------------|-------------------|---|
| 7 | Fuel pumps (2)..... | ON..... | 7 |
| 8 | Pitot heat..... | AS REQUIRED | 8 |
- Switch pitot heat on when OAT < 5 °C and visibility less than 5 km
- | | | | |
|----|---------------------|---------------|----|
| 9 | Cabin and pax..... | SECURED..... | 9 |
| 10 | ATC clearance | VERIFIED..... | 10 |
- Review SID / cleared altitude selected and squawk set
- | | | | |
|----|-------------------------|----------------|----|
| 11 | Departure briefing..... | COMPLETED..... | 11 |
|----|-------------------------|----------------|----|
- Briefing for take-off abortion and contingencies after take-off done

CHECK BEFORE DEPARTURE COMPLETED

LINE UP CHECK

- | | | | |
|---|--------------------------------|--------------------------|---|
| 1 | Canopy / rear door | CLOSED & LOCKED | 1 |
| 2 | Time | NOTED | 2 |
| 3 | Transponder..... | CODE / MODE CHECKED..... | 3 |
| 4 | Approach sector & runway | CLEAR | 4 |
| 5 | Landing light..... | ON | 5 |
| 6 | De-ice system | AS REQUIRED | 6 |

LINE UP CHECK COMPLETED

Before brake release: available power check

Available power check

10 seconds power MAX, RPM 2250 - 2300, min load according to table below

Altitude [ft]	OAT [°C]										
	-35	-20	-10	0	10	20	30	40	50		
0									91%		
2000	99%								97%	96%	93%
4000											
6000											
8000			98%	98%	98%	96%	95%	92%			
10000	98%	97%	97%	95%	94%	92%	89%				

CLIMB CHECK

- | | | | |
|---|-------------------------|------------------|---|
| 1 | Gear..... | UP..... | 1 |
| 2 | Flaps..... | UP..... | 2 |
| 3 | Climb power..... | SET (92%)..... | 3 |
| 4 | Fuel pumps (2)..... | OFF..... | 4 |
| 5 | Engine instruments..... | CHECKED..... | 5 |
| 6 | Alternate air..... | AS REQUIRED..... | 6 |
| 7 | Landing light..... | AS REQUIRED..... | 7 |

CLIMB CHECK COMPLETED

CRUISE CHECK

- | | | | |
|---|-------------------------|--------------------------|---|
| 1 | Altimeters..... | CHECKED (STD / QNH)..... | 1 |
| 2 | Cruise power..... | SET..... | 2 |
| 3 | Engine Instruments..... | CHECKED..... | 3 |
| 4 | Fuel quantity..... | L+ R / ENDURANCE..... | 4 |

CRUISE CHECK COMPLETED

DESCENT CHECK

- | | | | |
|---|-----------------------------|----------------|---|
| 1 | ATIS or AD information..... | RECEIVED..... | 1 |
| 2 | Approach briefing..... | COMPLETED..... | 2 |
| 3 | Avionics..... | SET..... | 3 |
| 4 | Circuit breakers..... | CHECKED..... | 4 |
| 5 | Cabin & pax..... | SECURED..... | 5 |

DESCENT CHECK COMPLETED

APPROACH CHECK

- | | | | |
|---|-----------------------------------|----------------------------|---|
| 1 | Altimeters..... | QNH SET..... | 1 |
| 2 | Fuel pumps (2)..... | ON (operative engine)..... | 2 |
| 3 | Fuel quantity..... | L+ R / ENDURANCE..... | 3 |
| 4 | Fuel selectors (2)..... | ON (operative engine)..... | 4 |
| 5 | Gear warning & fire detector..... | TESTED..... | 5 |
| 6 | Landing light..... | ON..... | 6 |

APPROACH CHECK COMPLETED

LANDING CHECK

1	Gear	3 GREENS CHECKED.....	1
2	Flaps	SET FOR LANDING.....	2
3	Park brake.....	RELEASED	3
4	Rudder trim	NEUTRAL.....	4

LANDING CHECK COMPLETED

AFTER LANDING CHECK

1	Time	NOTE	1
2	Alternate air	CLOSE	2
3	Pitot heat	OFF	3
4	Fuel pumps (2)	OFF	4
5	Flaps	UP	5
6	Landing light.....	OFF	6

AFTER LANDING CHECK COMPLETED

ENGINE SHUT DOWN AND PARKING

1	Parking brake	SET	1
2	Power levers (2)	MAX 10% for 1 min	2
3	Engine instruments	CHECK.....	3
4	Remaining fuel / time counter	NOTE	4
5	121.500	CHECK.....	5
6	Avionic master.....	OFF	6
7	Electrical consumers (except strobe light)	OFF	7
8	Engine masters (2).....	OFF	8
9	Start key	REMOVE.....	9
10	Strobe light	OFF	10
11	Electric master	OFF	11
12	Flight data & documents	NOTE & COMPLETE	12

- Note block time, flight time and landings
- Compare actual fuel consumed versus planned burn off

13	Aircraft.....	TO BE SECURED	13
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PARKING CHECK COMPLETED

	up to 1900 kg	
	flaps UP	flaps APP
V_R rotate	80	76
V_X best angle	-	82
V_Y best rate	90	85
V_{YSE} blue line	85	
V_{YSE} blue line in ice	88	

	up to 1900 kg	in ice
	V_{REF} flaps UP	86	94
V_{REF} flaps APP	84	90
V_{REF} flaps LDG	84	prohibited

INTENTIONALLY LEFT BLANK