

AIRCRAFT PREPARATION		COMPLETED (ACCORDING AFM)
PREFLIGHT CHECK		
1	Outside check.....	COMPLETED..... 1
2	Towbar, Covers, Chocks	REMOVED..... 2
3	Aircraft papers and log.....	CHECKED..... 3
4	Cabin.....	CHECKED..... 4
5	Loadsheet.....	CHECKED..... 5
PREFLIGHT CHECK COMPLETED		
CHECK BEFORE ENGINE START		
1	Seat position and safety belts.....	ADJUST..... 1
2	Flight controls.....	FREE..... 2
3	Park Brake.....	ENGAGE..... 3
4	Throttle.....	Adjust friction, then IDLE..... 4
5	Propeller Lever,.....	HIGH RPM..... 5
6	Mixture control lever.....	CUT OFF..... 6
7	Circuit breakers.....	ALL IN..... 7
8	Master switch.....	ON (wait PFD turn on, check ALT FAIL caution ON, Check LOW FP and LOW OP warning on).... 8
9	Avionic master switch.....	ON (wait MFD turn on, check instruments, check Voltage on Main and Essential Buss..... 9
10	AP Master-, Trim Disconnect Switch.....	ON..... 10
11	Fuel quantity.....	CHECKED..... 11
12	Electric Fuel Pump.....	ON (check for audible pump noise and increase of fuel pressure, check "LOW FUEL PRESSURE" warning extinguished)..... 12
13	Electric Fuel Pump.....	OFF..... 13
14	Alternate static port valve.....	CLOSED..... 14
15	Nav & Strobe lights.....	ON..... 15
16	Doors.....	CLOSED AND LOCKED..... 16
CHECK BEFORE ENGINE START COMPLETED		
ENGINE START		
1	Engine Throttle	1cm (1/2inch) above idle..... 1
2	Fuel selector valve.....	SELECT the tank with less fuel..... 2
3	Electric fuel pump	ON (check for audible pump noise)..... 3
4	(Only if Cold Engine) Mixture.....	FULL OPEN for 3-5 seconds (positive fuel flow indication), then CUT-OFF..... 4
5	Propeller area	CLEAR..... 5
6	Ignition key.....	BOTH, then START..... 6
7	Mixture.....	rapidly move to FULL RICH..... 7
8	Throttle.....	SET 1000-1200 RPM..... 8
9	Oil Pressure	Check OP rises within 10 seconds and "OIL PRESSURE LOW" warning extinguished.... 9
10	Electric fuel pump	OFF, check fuel pressure within limits..... 10
11	Generator switch.....	ON, check voltage increase and in green arc, "ALT FAIL" caution extinguished..... 11
12	Engine instruments.....	Check within limits..... 12
13	G1000.....	Check for warning / caution messages..... 13
ENGINE START COMPLETED		

BEFORE TAXI CHECK

1	Flight Instruments and Avionics.....	SET (check altimeter / AI alignment).....	1
2	Pitot Heat.....	ON, test for ammeter indication, then OFF.....	2
3	Flap control.....	Cycle fully extended and then set to T/O.....	3
4	Pitch trim.....	Cycle fully up and down, then set NEUTRAL.....	4
5	Rudder trim.....	Cycle full right and left, then set NEUTRAL.....	5

BEFORE TAXI CHECK COMPLETED

TAXI CHECK

1	Brakes.....	CHECK.....	1
2	Flight instruments.....	CHECK.....	2

TAXI CHECK COMPLETED

BEFORE TAKE OFF / RUN UP

1	Park Brake.....	SET.....	1
2	Engine instruments.....	Check within Limits.....	2
3	ALT FAIL caution.....	CHECK OFF.....	3
4	Electric fuel pump	ON.....	4
5	Fuel selector valve.....	SELECT the fullest tank.....	5
6	Fuel pressure.....	CHECK.....	6
7	Mixture.....	FULL RICH.....	7
8	Throttle.....	set 1500 RPM.....	8
9	Alternate Air.....	PULL (check drop 50-100 RPM).....	9
10	Mixture.....	REDUCE (check EGT increase, FF decrease).....	10
11	Throttle.....	set 2100 RPM.....	11
12	Propeller Lever.....	Cycle 3 Times (drop of approx. 500RPM).....	12
13	Ignition (LEFT – BOTH – RIGHT - BOTH).....	CHECKED (max. -175 RPM / Diff max. 50 RPM)..	13
14	Throttle	IDLE then set 1000 – 1200 RPM.....	14
15	Fuel quantity.....	L & R, check endurance.....	15
16	Ignition.....	BOTH.....	16
17	Pitch and Rudder trim.....	SET NEUTRAL.....	17
18	Flaps.....	SET T/O.....	18
19	Mixture.....	FULL RICH.....	19
20	Propeller Lever.....	HIGH RPM.....	20
21	Flight controls.....	FREE AND CORRECT.....	21
22	Seat belts.....	CHECK FASTENED.....	22
23	Doors.....	CHECK CLOSED AND LOCKED.....	23
24	Departure briefing.....	COMPLETED.....	24

BEFORE TAKE OFF / RUN UP COMPLETED

LINE UP CHECK

1	Approach Sector and Runway.....	CLEAR.....	1
2	Taxi-, Landing-, Strobe-Light.....	ON.....	2
3	Transponder.....	ALT.....	3
4	Time.....	CHECKED.....	4
5	Pitot Heat.....	AS REQUIRED.....	5

LINE UP CHECK COMPLETED

TAKE OFF			
1	Brakes.....	APPLY.....	1
2	Full Throttle	SET, CHECK approx. 2680 +/- 20 RPM	2
3	Engine instruments	Check parameters within limits.....	3
4	Brakes.....	RELEASE.....	4
5	Rotate.....	when 60 KIAS reached.....	5
6	Establish Initial climb.....	67 KIAS.....	6
CLIMB CHECK			
1	Flaps.....	UP.....	1
2	Propeller Lever.....	SET 2600 RPM.....	2
3	Climb Speed.....	82 KIAS.....	3
4	Electric Fuel Pump.....	OFF, check FP within limits.....	4
5	Taxi Light.....	OFF.....	5
CLIMB CHECK COMPLETED			
CRUISE CHECK			
1	Throttle.....	Set Power to 23inHg (or as required).....	1
2	Propeller Lever.....	Set 2350 RPM (or as required).....	2
3	Mixture.....	Lean Engine to 1450°F (or as required).....	3
4	Engine Parameters	CHECK within Limits	4
5	Cautions / Warnings.....	CHECK OFF.....	5
6	Fuel quantity left and right.....	CHECK ENDURANCE.....	6
CRUISE CHECK COMPLETED			
DESCENT CHECK			
1	Mixture.....	FULL RICH.....	1
2	(A) ATIS.....	NOTED.....	2
3	(B) Briefing.....	COMPLETED.....	3
4	(C) Circuit Breakers / Cabin.....	CHECKED.....	4
5	(D) Directional Indicators.....	COMPARED.....	5
6	(E) Electrics / Lights.....	SET AS REQUIRED.....	6
7	(F) Frequencies.....	SET.....	7
DESCENT CHECK COMPLETED			
APPROACH CHECK			
1	Altimeter.....	SET QNH.....	1
2	Landing Light / Taxi-Light.....	ON.....	2
3	Electric fuel pump.....	ON.....	3
5	Fuel selector valve.....	SELECT fullest tank.....	5
APPROACH CHECK COMPLETED			
FINAL CHECK			
1	Speed.....	60 - 65KIAS.....	1
2	Flaps.....	SET AS REQUIRED.....	2
3	Propeller Lever.....	HIGH RPM.....	3
4	Mixture.....	FULL RICH.....	4
5	Runway.....	IDENTIFIED and CLEAR.....	5
FINAL CHECK COMPLETED			

BALKED LANDING / MISSED APPROACH		
1	Throttle.....	FULL..... 1
2	Pitch.....	UP establish 80 KIAS..... 2
3	Flaps.....	SET T/O 3
CONTINUE WITH CLIMB CHECK		
AFTER LANDING CHECK		
1	Flaps.....	UP..... 1
2	Pitot Heat.....	OFF..... 2
3	Electric fuel pump	OFF..... 3
4	Landing light.....	OFF..... 4
5	Transponder.....	STBY..... 5
6	Time.....	NOTED..... 6
AFTER LANDING CHECK COMPLETED		
ENGINE SHUT DOWN CHECK		
1	Park Brake.....	SET..... 1
2	Propeller RPM.....	set 1200 RPM for 1 minute to reduce heat..... 2
3	Throttle.....	IDLE..... 3
4	Mixture.....	CLOSE..... 4
5	Ignition key.....	OFF, key removed..... 5
6	Exteral / Internal Lights.....	OFF..... 6
7	Trim Disconnect Switch.....	OFF..... 7
8	Autopilot Master Switch.....	OFF..... 8
9	Avionic Master.....	OFF..... 9
10	Master and generator switches.....	OFF..... 10
11	Fuel selector valve.....	OFF..... 11
ENGINE SHUT DOWN CHECK COMPLETED		
POST FLIGHT CHECK		
1	Flight controls.....	LOCK by mean of seat belts..... 1
2	Wheel chocks.....	SET..... 2
3	Wing mooring lines.....	SET..... 3
4	Park Brake.....	RELEASE..... 4
5	Doors.....	CLOSE AND LOCK..... 5
6	Protection plugs.....	SET over pitot tube, stall warning, static ports... 6
POST FLIGHT CHECK COMPLETED		
SPEED AND PERFORMENCES 1160 KG		
	Rotation speed (in take-off, Vr)	FLAPS T/O 60 KIAS
	Best angle of climb (Vx)	0° 75 KIAS
	Best rate of climb (Vy)	0° 82 KIAS
	Approach speed	T/O 65 KIAS
	Final approach speed	LAND 60 KIAS
	Manoeuvring speed	0° 120 KIAS
	Never exceed speed,(Vne)	0° 166 KIAS
	Max. flaps extended speed (Vfe)	T/O, LAND 91 KIAS
	Stall speed, flaps extended (Vs0)	LAND 50 KIAS
	Stall speed, flaps retracted Vs1)	0° 59 KIAS
	Best Glide Speed	0° 85 KIAS