

AIRCRAFT PREPARATION

1	Preflightcheck, draining.....	completed.....	1
2	Aircraft equipment, A/C Log.....	on board.....	2
3	Flighttime counter.....	noted, checked.....	3
4	Passengers.....	Instructed.....	4
5	Flight controls.....	free and correct.....	5
6	Electric switches / autopilot.....	off.....	6
7	Radio- / Avionics-Master.....	off.....	7
8	Ignition key.....	into starter, off.....	8

AIRCRAFT PREPARATION COMPLETED

ENGINE START

1	Cabin.....	secured.....	1
2	Parking brake.....	set.....	2
3	Battery master + alternator switches....	on.....	3
4	Circuit breakers.....	checked.....	4
5	Annunciator lights.....	checked, 2 lights on.....	5
6	Electric fuel pump.....	on, pressure checked.....	6
7	Fuel quantity, endurance.....	lh ... / rh ..., endurance ... hrs.....	7
8	Fuel selector.....	fullest tank.....	8
9	Mixture.....	rich.....	9
10	Carburetor heat.....	off.....	10
11	Strobe lights.....	on.....	11
12	Priming: • cold engine: OAT ≤ 0°Cel:	6 strokes primerpump.....	12
	OAT > 0°Cel:	4 strokes primerpump.....	
	• warm engine:.....	max. 1 stroke primerpump.....	
13	Throttle.....	set maximal 1 cm.....	13
14	Propeller area.....	clear.....	14
15	Starter.....	engage.....	15
16	Throttle.....	1000 RPM set.....	16
17	Oil pressure.....	min. yellow (in 30 sec).....	17
18	Electric fuel pump.....	off, pressure checked.....	18
19	Strobe lights.....	off.....	19
	NAV lights.....	on.....	
20	Annunciator lights.....	all off.....	20
21	Radio-/Avionics-Master/Flarm/GPS.....	on, COM 2: 121,500 checked.....	21
22	Transponder.....	ALT 7000.....	22
23	ATIS / departure information.....	received.....	23
24	Avionics.....	preselected, set.....	24
25	Flight instruments.....	checked, set.....	25

ENGINE START COMPLETED

TAXI CHECK

- | | | | |
|---|--|--------------|---|
| 1 | Brakes, steering..... | checked..... | 1 |
| 2 | Attitude, heading, slip & turn indicators. | checked..... | 2 |

TAXI CHECK COMPLETED**ENGINE RUN UP**

- | | | | |
|----|---|--|----|
| 1 | Parking brake..... | set..... | 1 |
| 2 | Engine instruments, oil temp..... | in limits, $\geq 75^{\circ}\text{F}$ | 2 |
| 3 | Area behind..... | clear..... | 3 |
| 4 | Throttle..... | 2000 RPM..... | 4 |
| 5 | Magnetos..... | max. drop 175 RPM/max. diff. 50 RPM | 5 |
| 6 | Carburetor heat..... | checked, RPM-drop / no icing..... | 6 |
| 7 | Mixture..... | EGT rise / RPM-drop..... | 7 |
| 8 | Alternator..... | charging..... | 8 |
| 9 | Engine instruments, annunc. Lights..... | green, all off..... | 9 |
| 10 | Throttle..... | idle (500 – 700 RPM)..... | 10 |
| 11 | Throttle..... | 1000 RPM set..... | 11 |

ENGINE RUN UP COMPLETED**CHECK BEFORE DEPARTURE**

- | | | | |
|----|--|---|----|
| 1 | Flight controls..... | free and easy..... | 1 |
| 2 | Electric fuel pump..... | on, pressure checked..... | 2 |
| 3 | Fuel quantity, endurance..... | lh ... / rh ..., endurance ... hrs..... | 3 |
| 4 | Fuel selector..... | fullest tank..... | 4 |
| 5 | Mixture | set (leaned > 5000 ft dens. ALT)..... | 5 |
| 6 | Carburetor heat..... | off..... | 6 |
| 7 | Magnetos..... | both..... | 7 |
| 8 | Primer..... | locked..... | 8 |
| 9 | Flaps..... | set 25° (2) or 0° (up)..... | 9 |
| 10 | Trim..... | set for T/O acc. load distribution..... | 10 |
| 11 | Engine instruments, annunc. lights.... | in limits / all off..... | 11 |
| 12 | Flight instruments..... | set for departure..... | 12 |
| 13 | Avionics..... | set..... | 13 |
| 14 | Departure briefing..... | completed..... | 14 |
| 15 | Door / stormwindow..... | closed and latched..... | 15 |
| 16 | Seats..... | locked..... | 16 |
| 17 | Seatbelts / cabin + passengers..... | fastened / secured | 17 |

READY FOR DEPARTURE

LINE UP CHECK

1	Approach & RWY.....	clear.....	1
2	Strobelights.....	on.....	2
3	Time.....	noted.....	3
4	Transponder.....	set.....	4
5	RWY.....	identified.....	5
6	RWY HDG + heading indicator.....	compared.....	6
7	Wind.....	checked.....	7
8	Time.....	check.....	8

LINE UP CHECK COMPLETED

CLIMB CHECK

1	Climb power.....	set.....	1
2	Flaps.....	0° (up).....	2
3	Electric fuel pump.....	off, pressure checked.....	3

CLIMB CHECK COMPLETED

CRUISE CHECK

1	Altimeters.....	set (2 x).....	1
2	Heading indicator.....	compared.....	2
3	Engine instruments, annunc. lights.....	in limits, all off.....	3
4	Cruise power.....	set.....	4
5	Mixture.....	leaned (at all altitudes).....	5
6	Fuel quantity, endurance.....	lh ... / rh ..., endurance ... hrs.....	6
7	Lights.....	as required.....	7
8	Transponder.....	ALT 7000 or according ATC.....	8

CRUISE CHECK COMPLETED

POWER SETTINGS

ALTITUDE	55 % (8 USG/h)	65 % (9 USG/h)
2000 FT	2230	2380
4000 FT	2280	2420
6000 FT	2320	2470
8000 FT	2360	2520
10000 FT	2410	2560
12000 FT	2460	2620

LEANINGPROCEDURES:

CLIMB:

<5'000 ft: full rich
>5'000 ft: smooth engine / 100°F rich of peak, keep EGT constant at T/O- EGT-level

CRUISE (at any altitude):

As lean as possible with smooth engine.
Readjust RPM-drop with throttle and mixture to target-RPM

DESCENT:

Enrich for smooth engine. For level-off: apply leaningprocedure for CRUISE again.

DESCENT CHECK

- | | | | |
|---|-------------------------------------|-------------------------|---|
| 1 | ATIS / landing information..... | received..... | 1 |
| 2 | Approach briefing..... | completed..... | 2 |
| 3 | Avionics..... | set / preselected..... | 3 |
| 4 | Seatbelts / cabin + passengers..... | fastened / secured..... | 4 |

DESCENT CHECK COMPLETED**APPROACH CHECK**

- | | | | |
|---|-------------------------|---------------------------|---|
| 1 | Altimeters..... | set QNH (2 x)..... | 1 |
| 2 | Heading indicator..... | compared..... | 2 |
| 3 | Landing light..... | on..... | 3 |
| 4 | Electric fuel pump..... | on, pressure checked..... | 4 |
| 5 | Fuel quantity..... | checked..... | 5 |
| 6 | Fuel selector..... | fullest tank..... | 6 |
| 7 | Mixture..... | rich..... | 7 |
| 8 | Carburetor heat..... | as required..... | 8 |

APPROACH CHECK COMPLETED**FINAL CHECK**

- | | | | |
|---|----------------------|------------------|---|
| 1 | Flaps..... | 40° (3) set..... | 1 |
| 2 | Mixture..... | rich..... | 2 |
| 3 | Carburetor heat..... | off..... | 3 |

FINAL CHECK COMPLETED**AFTER LANDING CHECK**

- | | | | |
|---|-------------------------|----------------------------|---|
| 1 | Transponder..... | ALT..... | 1 |
| 2 | Time..... | noted..... | 2 |
| 3 | Strobe lights..... | off..... | 3 |
| 4 | Electric fuel pump..... | off, pressure checked..... | 4 |
| 5 | Flaps..... | 0° (up)..... | 5 |

AFTER LANDING CHECK COMPLETED**STOPPING ENGINE / PARKING CHECK**

- | | | | |
|----|---|-----------------------|----|
| 1 | Parking brake..... | set..... | 1 |
| 2 | Throttle..... | 1000 RPM set..... | 2 |
| 3 | COM 2..... | 121,500 checked..... | 3 |
| 4 | Radio- / Avionics-Master..... | off..... | 4 |
| 5 | Electric switches / internal lights..... | off..... | 5 |
| 6 | Mixture..... | lean, cut off..... | 6 |
| 7 | Magnetos, ignition key..... | off, key removed..... | 7 |
| 8 | Alternator + battery master switches..... | off..... | 8 |
| 9 | Flight time counter..... | noted..... | 9 |
| 10 | Parking brake..... | as required..... | 10 |

STOPPING ENGINE / PARKING CHECK COMPLETED