

## Flight checklist for normal operations

Massgebend ist das AFM (parameters, restrictions, emergency, etc.)

### Cockpit preparation before starting engine

1	Aircraft + Cockpit inspection	<i>completed (according AFM)</i>	1
2	Chocks	<i>set</i>	2
3	Seat belts	<i>fastened</i>	3
4	Fuel quantity	<i>L + R checked</i>	4
5	Fuel selector	<i>open</i>	5
6	Mixture	<i>rich</i>	6
7	Carburetor heater	<i>off (cold)</i>	7
8	Controls	<i>free and easy</i>	8
9	Elevator trim	<i>set for take off</i>	9
10	Altimeter, Avionics	<i>set and preselected, 121.50 checked</i>	10
11	Avionics	<i>off</i>	11

### Starting cold engine

1	Priming	<i>as required</i>	1
2	Throttle	<i>1 cm open</i>	2
3	Propeller area	<i>free</i>	3
4	Ignition	<i>Magnetos both</i>	4
5	Throttle	<i>1000 RPM</i>	5
6	Oil pressure	<i>green within 30"</i>	6
7	Chocks	<i>removed</i>	7

### Starting warm engine

*Do not prime*

### After engine start check

1	Oil pressure	<i>checked</i>	1
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### Before taxi

1	Ventilation, Heater	<i>as required</i>	1
2	Avionics	<i>on</i>	2

### Taxi check

1	Brakes, Steering	<i>checked</i>	1
2	Instruments	<i>checked</i>	2

Motorfluggruppe Langenthal	<b>Checklist L4 / J3C</b>	v1.2 JAN13	<b>2</b>
<b>Run-up</b>			
1	Engine temperature	<i>according AFM</i>	1
2	Throttle	<i>1800 RPM</i>	2
3	Engine instruments	<i>checked</i>	3
4	Magnetos	<i>max. drop 75 RPM / max. diff. 50 RPM</i>	4
5	Carburetor heater	<i>checked</i>	5
6	Mixture	<i>checked</i>	6
7	Throttle	<i>check idle (600 - 700 RPM)</i>	7
8	Throttle	<i>1000 RPM</i>	8
<b>Departure check</b>			
1	Seat belts	<i>fastened</i>	1
2	Fuel quantity	<i>L + R checked</i>	2
3	Fuel selector	<i>open</i>	3
4	Mixture	<i>rich (or as required by field elevation)</i>	4
5	Carburetor heater	<i>off</i>	5
6	Ignition	<i>Magnetos both</i>	6
7	Primer	<i>secured</i>	7
8	Engine instruments	<i>checked</i>	8
9	Flight instruments	<i>set</i>	9
10	Flarm	<i>checked, 3 green lights</i>	10
11	Elevator trim	<i>take off</i>	11
12	Controls	<i>free</i>	12
13	Door and window	<i>closed</i>	13
<b>Departure Briefing</b>			
1	Surface wind, Speeds $v_x$ : 60MPH;		
2	Routing, Altitude, Restrictions		
3	Emergencies, Best glide: 60 MPH		
<b>Line-up</b>			
1	Approach sector, Runway	<i>checked free</i>	1
2	Wind, Runway heading	<i>checked</i>	2
<b>Take off</b>			
1	Brakes	<i>released</i>	1
2	Power	<i>RPM checked</i>	2
3	Speed	<i>rising</i>	3
<b>Climb check</b>			
1	Power	<i>RPM checked</i>	1

## Cruise check

1	Flight / engine instruments	<i>checked</i>	1
2	Cruise power setting	<i>according AFM</i>	2
3	Carburetor	<i>as required</i>	3
4	Mixture setting / Fuel	<i>checked</i>	4

## Descent

1	Mixer	<i>to rich</i>	1
2	Power	<i>as required</i>	2

## Climb

1	Mixture	<i>rich, according AFM</i>	1
2	Power	<i>full</i>	2

## Descent check

1	ATIS	<i>checked</i>	1
2	Flight instruments, Avionics	<i>set</i>	2
3	Cabin	<i>checked</i>	3

## Approach Briefing

- 1 Runway in use
- 2 Routing, Altitude, Restrictions
- 3 Missed approach procedure
- 4 Surface wind, Final approach speed

## Approach preparation

1	Altimeter	<i>set</i>	1
2	Fuel quantity	<i>L + R checked</i>	2
3	Fuel selector	<i>open</i>	3
4	Mixture	<i>rich</i>	4
5	Carburetor heater	<i>on (warm)</i>	5
6	Initial approach speed	<i>established (70MPH)</i>	6

## Final check

1	Final approach speed	<i>established (60MPH)</i>	1
2	Carburetor heater	<i>as required</i>	2

## Go around

1	Throttle	<i>full power</i>	1
2	Carburetor heater	<i>off</i>	2
3	Attitude	<i>rotate (speed established &gt; 60MPH)</i>	3

Motorfluggruppe Langenthal	<b>Checklist L4 / J3C</b>				v1.2 JAN13	<b>4</b>
<b>After landing</b>						
1	Carburetor	<i>off (cold)</i>				1
<b>Engine shut down</b>						
1	Throttle	<i>1000 RPM</i>				1
2	Avionics	<i>no signal 121.50, off</i>				2
3	Mixture	<i>cut off</i>				3
4	Ignition	<i>off</i>				4
5	Flight time counter	<i>recorded</i>				5
6	Chocks	<i>as required</i>				6
<b>Speeds for operation at maximum take off mass (MTOM)</b>						
	Rotate / lift off	ca 40 MPH				
	Best angle	60 MPH				
	Best rate (up to 2000 ft/AGL)	65 MPH				
	Cruise climb (above 2000 ft/AGL)	80 MPH				
	Approach	70 MPH				
	Final approach	60 MPH				
	Go around / touch and go	60 MPH				
	Best glide	60 MPH				
	Max. demonstrated crosswind	15 KTS				
<b>Power settings</b>						
	Take off and climb	full power				
	Cruise	2400 RPM				
	Circuit	2200 RPM				
<b>Loading HB-OAG</b>						
	MTOM	580 kg				
		Max. cabin load remaining				
	Empty	405 kg => 175 kg				
	Usable fuel, 68lt	50 kg => 125 kg				
<b>Priming Table</b>						
<b>Engine cold</b>	<b>-10 °C</b>	<b>0 °C</b>	<b>+10 °C</b>	<b>+20 °C</b>	<b>+30 °C</b>	
Primer Pump	4-5	2-3	1	0	0	
Throttle	0	0	2	1-2	1	
<b>Engine hot</b>	<b>-10 °C</b>	<b>0 °C</b>	<b>+10 °C</b>	<b>+20 °C</b>	<b>+30 °C</b>	
Primer Pump	0	0	0	0	0	
Throttle	1-2	1	0	0	0	