

PREFLIGHT INSPECTION

- 1. Fuel Quantities CHECKED
- 2. Igniton Switch OFF
- 3. Circuit Breakers..... CHECKED
- 4. Radio Master / Avionics OFF
- 5. Pitch Trim OFF
- 6. Landing Gear Lever DOWN
- 7. Fuel Selector..... BOTH

PREFLIGHT CHECKLIST COMPLETED

EXTERNAL WALKAROUND

- 1. Antennas CHECKED
- 2. Doors CHECKED
- 3. Pitot Static Mast CHECKED
- 4. Position Light CHECKED
- 5. Anti Collision Light CHECKED
- 6. Flaps CHECKED
- 7. Ailerons CHECKED
- 8. Strobe Light CHECKED
- 9. Landing Gear..... CHECKED
- 10. Fuel Tanks..... CHECKED & MEASURED

EXTERNAL WALKAROUND COMPLETED

BEFORE ENGINE START CHECKLIST

1. Radio Master / Avionics CONFIRM STILL OFF
2. Cowl flaps OPEN
3. Brakes SET
4. Mixture FULL LEAN
5. Prop rpm FULL HIGH

BEFORE ENGINE START CHECKLIST COMPLETED

ENGINE START CHECKLIST

1. Throttle OPEN 2 cm
2. Induction AIR COLD
3. Anti Collision & Nav Lights ON
4. Bat Master ON
5. Fuel Pump ON
6. Mixture FULL RICH until Fuel Press rises
7. Mixture FULL LEAN
8. Fuel Pump OFF
9. Prop Area CLEAR – Call „CLEAR PROP!“
10. Ignition START
11. Mixture when engine starts FULL RICH
12. Throttle 1000 rpm
13. Alternator ON
14. Pitch Trim ON
15. Voltmeter > 12 Volts

ENGINE START CHECKLIST COMPLETED

BEFORE TAXI CHECKLIST

1. Radio Master / Avionics ON
2. Transponder STBY / 7000 or as cleared
3. HSI Heading SET
4. Altimeter SET QNH

BEFORE TAXI CHECKLIST COMPLETED

TAXI CHECKLIST

1. Brakes CHECKED
2. Instruments X-CHECKED

TAXI CHECKLIST COMPLETED

RUN UP LIST

1. Brakes SET
2. Flight Controls CHECKED
3. Throttle 2000 rpm
4. Mixture SET
5. Magnetos CHECK (175 max. drop, Δ 50)
6. Prop rpm CYCLE
7. Gauges ALL IN GREEN
8. Throttle 1000 rpm
9. Flaps SET for takeoff
10. Trims RUD/ELEV SET NEUTRAL

RUN UP LIST COMPLETED

BEFORE TAKEOFF CHECKLIST

- 1. Lights..... ON
- 2. Fuel Pump..... ON
- 3. Transponder ALT

BEFORE TAKEOFF CHECKLIST COMPLETED

AFTER TAKEOFF CHECKLIST

- 1. Gear UP
- 2. Flaps UP
- 3. Throttle/Prop/Mixture SET CLIMB
- 4. Cowl Flaps AS REQUIRED
- 5. Fuel Pump..... OFF

AFTER TAKEOFF CHECKLIST COMPLETED

Approach Checklist

- 1. Altimeter QNH ____ SET

APPROACH CHECKLIST COMPLETED

LANDING CHECKLIST

- 1. Lights..... ON
- 2. Fuel Pump..... ON
- 3. Mixture..... RICH / as required
- 4. Prop rpm..... FULL HIGH
- 5. Cowl Flaps OPEN
- 6. Landing Gear..... DOWN / 3 GREEN
- 7. Flaps SET (35° recommended)
- 8. Induction Air HOT

LANDING CHECKLIST COMPLETED

AFTER LANDING CHECKLIST

1. Flaps UP
2. Mixture..... as required
3. Fuel Pump..... OFF
4. Landing light & Strobes..... OFF
5. Transponder STBY

AFTER LANDING CHECKLIST COMPLETED

SHUTDOWN CHECKLIST

1. Brake..... SET
2. Radio Master / Avionics OFF
3. Pitch Trim OFF
4. Throttle..... 1000 rpm
5. Mixture..... FULL LEAN
6. Ignition..... OFF
7. BAT/ALT Master Switch OFF
8. Anti Collision Light OFF
9. Fuel Selector..... OFF

SHUTDOWN CHECKLIST COMPLETED

Manoeuvres**Take-off**

- Flaps 10°
- Throttle FULL OPEN
- Rotate at 69 KIAS
- Climb at 72 KIAS
- retract GEAR and FLAPS

Short/Soft field Take-off

- Flaps 20°
- Hold with Brakes until ...
- ... Throttle FULL OPEN
- Rotate and climb at 69 KIAS
- retract GEAR (Flaps when clear of Obstacles)

Enroute Climb

- SPEED 100-120 KIAS

Cruise Power

- 75% MCP or less
- Lean „max EGT“ ECO
- Lean „max EGT -100“ PWR

Normal Landing

- Flaps 35° recommended
- V_{REF} 80 KIAS

Short/Soft field Landing

- Flaps 35°
- V_{REF} 71 KIAS

Go around

- Throttle FULL OPEN
- Landing Gear RETRACT & FLAPS retract to 20°
- Climb Speed 69 KIAS
- Cowl Flaps OPEN

Climb established: 80 KIAS, retract Flaps

Speeds

V _A	116 KIAS	Manövergeschwindigkeit (Ruder Vollausschlag)
V _{FE(10°)}	150 KIAS	Limitgeschwindigkeit Landeklappen
V _{FE(20°)}	150 KIAS	
V _{FE(25°)}	120 KIAS	
V _{FE(35°)}	109 KIAS	
V _{LO}	129 KIAS	Landing Gear Operation (Fahrwerk ein/ausfahren)
V _{LE}	187 KIAS	Landing Gear Extended (Flug m. ausgefahrenem Fahrwerk)
V _{NE0-12500 ft}	187 KIAS	Velocity never exceed - Höchstgeschwindigkeit
V _{NE-16000 ft}	175 KIAS	
V _{NE-20000 ft}	160 KIAS	
V _{NE-24000 ft}	145 KIAS	
V _{NO} 0-12500 ft	147 KIAS	Velocity normal Op. – Nur in ruhiger Luft überschreiten
V _{NO} -16000 ft	137 KIAS	
V _{NO} -20000 ft	126 KIAS	
V _{NO} -24000 ft	115 KIAS	
V _{S0}	55 KIAS	Strömungsabriss (Stall) in Landekonfiguration
V _{SR}	60 KIAS	Strömungsabriss (Stall) in „clean“ Konfiguration
V _R	69 KIAS	Rotationsgeschwindigkeit beim Start
V _X	80 KIAS	steilster Steigflug (best angle of climb)
V _Y	89 KIAS	höchste Steiggeschwindigkeit (best rate of climb)
V _{GLIDE}	82 KIAS	beste Gleitgeschwindigkeit
V _{REF}	80 KIAS	Referenzgeschwindigkeit für die Landung (Flaps 35°)
V _{REF(short/soft)}	71 KIAS	Referenzgeschwindigkeit short/soft field (Flaps 35°)
Max. Cowl Flaps Open	129 KIAS	
Max. Side Window Open	129 KIAS	