

# Checklist SE-VPI



2021-08-26

## Before engine start

- Parking brake - On
- Technical report - Checked
- Pre-flight inspection - Performed
- Pitot cover - Removed
- Seat belts & Pedals - Fastened & Adjusted
- Electrical equipment - Off
- Master switch - On
- Starter key - On (First position)
- Fuel selector - Left
- Fuel warning lights - Checked
- Fuel gauges - Checked
- Circuit breakers - Checked
- Canopy - Closed & locked

## Engine start

- Throttle - Idle (Warm engine: 1/2 turn in)
- Choke - Open (Warm engine: Closed & Locked)
- Fuel pump - On
- Fuel pressure - Checked
- Fuel pump - Off
- "Magneto" - On
- Propeller - Clear
- Start the engine - Max 10 s / 2 min cool off
- Throttle - 1900 - 2200 rpm
- Oil pressure within 10 s - Checked (Min 2,0 bar)
- Choke - Closed & Locked
- Anticollision light (ACL) - On
- Fuel pressure - Checked
- Generator - Checked

## Before taxi

- Electrical equipment & Radio - On
- Altimeter - Set (Button no. 2 - BARO)

## At holding position / Engine run-up

- Oil temperature - Min 50°C (Warm-up: 2500 rpm)
- Throttle - 3000 rpm
- "Magneto" - Checked (Max drop 300 rpm)
- Throttle - 1900 rpm
- Flight & Engine instruments - Checked
- Transponder - 7000 - ALT
- Fuel pump - On
- Fuel selector - Left
- Flaps - Set
- Trim - Set
- Flight controls - Free & Correct
- Emergency checklist - Repeat (See reverse side)

## Takeoff

- Rotate - 43 kt
- Accelerate and climb - 65 kt (Max speed 75 kt)

## 300 ft AGL / Clear of obstacles

- Flaps - Up
- Fuel pump - Off
- Climb - 70 kt
- Engine instruments - Check (Hot engine: Reduce rpm slightly)

## Speeds

- $V_{LD}$  - Best glide - 65 kt (Glide 1:14)
- $V_Y$  - Best rate - 65 kt
- $V_X$  - Best angle - 60 kt (Acceleration after takeoff)
- Rotation speed - 43 kt
- Normal climb - 80 kt (Low speed / High rpm - High oil temp)
- Idle descent - High speed equals cold engine
- Approach - 65 kt - Short final: 55 kt
- $V_{TH}$  - Threshold speed - 55 kt
- $V_A$  - Max manouver speed - 88 kt

## Engine power (At 24° propeller pitch)

- 4300 rpm - 55%
- 4800 rpm - 65%
- 5000 rpm - 75%
- 5500 rpm - Max continuous
- 5800 rpm / Full throttle - Max 5 min

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Cruise - Normal power: 4200 rpm (3800 - 4800)

- Fuel selector - Left 30 min (With full tanks)
- Engine instruments - Check periodically

Descent (Idle / Powered)

- Engine instruments - Check (Cold engine: Increased idle)

Before landing (Max crosswind: 18 kt)

- Fuel pump - On
- Fuel selector - Left
- Downwind: Flaps 15° - 65 kt (Max speed 75 kt)
- Base: Flaps 15-24° - 65 kt
- Final: Flaps 15-38° - 65 kt (Less flap in strong / gusty wind)
- Short final - 55 kt (Increase slightly in strong / gusty wind)

Go-around

- Throttle - Fully forward
- Nose attitude - Level flight (Slight climb)
- Flaps - 15°
- Accelerate and climb - 65 kt (Max speed 75 kt)

After landing

- Flaps - Up
- Fuel pump - Off
- Transponder - STBY

Engine shutdown / Parking

- Parking brake - On
- Electrical equipment & Radio - Off
- Throttle - Idle
- "Magnetoes" - Off - One at a time
- Starter key - Off
- Master switch - Off
- Fuel selector - Closed

Pitot cover, Close flightplan, Aircraft log, Tie-down, Wash & Clean aircraft

## Emergency

Sink rate: 500 ft/min  
(Rate increases 300 ft/min per stage of flap)  
Height loss 360° turn: 500 ft (45° bank: 400 ft)

Engine failure

- Fly the aircraft - Speed - 65 kt - Glide 1:14
- Landing area - Decide & Turn
- Fuel pump - On
- Fuel selector - Left
- Choke - Closed & Locked
- "Magnetoes" - Best working

If time permits & After selecting landing area

- Restart - Attempt - Throttle 5 mm forward  
Consider increasing speed to 110 kt to facilitate (Height loss: 1300 ft)

●●● Emergency landing - If time permits & After selecting landing area

- Seat belts - Tighten
- Mayday call - Send (Guard frequency: 121,5 MHz)
- Transponder - 7700

On final approach

- "Magnetoes" - Off
- Fuel selector - Close
- <After landing: Master switch - Off

## Fire

Engine fire

- Fuel selector - Close
- Fuel pump - Off
- Throttle - Full throttle (30 s - Carburettor empty)
- Cabin heat - Close
- Fly the aircraft - Speed - 65 kt

See: ●●● Emergency landing above (If time permits & After selecting landing area)

Cabin fire

- Master switch - Off - EFIS will shut down
- Cabin heat / Fresh air - Close
- Fire - Extinguish - Land soonest