

PREFLIGHT CHECK

CABIN

- | | |
|--|-----------------------|
| 1 Aircraft Log & Aircraft Papers | CHECKED |
| 2 Control Lock..... | REMOVED & STOWED AWAY |
| 3 Avionics Master..... | OFF |
| 4 Ignition Switch..... | OFF & KEY REMOVED |
| 5 Master Switch | ON |
| 6 Fuel Quantity Indicators | CHECKED (Endurance !) |
| 7 Flaps | FULL DOWN |
| 8 Master Switch | OFF |

OUTSIDE

- | | |
|-----------------------|---------------|
| 9 Outside Check | ACCORDING AFM |
|-----------------------|---------------|

PREFLIGHT CHECK COMPLETED

CHECK BEFORE ENGINE START

- | | |
|--|--------------------|
| 1 Cabin Doors & Windows | CLOSED & LOCKED |
| 2 Seats, Seat Belts & Shoulder Harness | ADJUSTED & SECURED |
| 3 Parking Brake | SET |
| 4 Fuel Selector..... | BOTH |
| 5 Master Switch | ON |
| 6 Flaps | UP |
| 7 Mixture | RICH |
| 8 Throttle..... | OPEN 1 cm |
| 9 Carburettor Heat | COLD |
| 10 Beacon Light..... | ON |
| 11 Circuit Breakers | CHECKED |

CHECK BEFORE ENGINE START COMPLETED

STARTING ENGINE & AFTER ENGINE START CHECK

- | | |
|---|-------------------------|
| 1 Prime (using throttle only) | 1–2 STROKES OF THROTTLE |
| 2 Propeller Area & Zone behind Aircraft | CLEAR |
| 3 Ignition Switch..... | START |
| 4 Throttle..... | 1 000 rpm |
| 5 Oil Pressure (after max 30") | WITHIN GREEN ARC |
| 6 Ammeter | CHECKED |
| 7 Ventilation, Heater, Defroster..... | AS REQUIRED |
| 8 Avionics Master..... | ON |
| 9 Avionics..... | SET AS REQUIRED |
| 10 Engine Warm Up..... | AS REQUIRED |
| 11 Parking Brake | RELEASED |

STARTING & AFTER ENGINE START CHECK COMPLETED – READY TO TAXI

TAXI CHECK

- | | |
|---|---------|
| 1 Brakes & Steering | CHECKED |
| 2 Gyro Instruments & Magnetic Compass | CHECKED |

TAXI CHECK COMPLETED

RUN UP

- | | |
|--|------------------------------------|
| 1 Parking Brake | SET |
| 2 Oil Temperature & Oil Pressure | WITHIN GREEN ARC |
| 3 Zone behind Aircraft..... | CLEAR |
| 4 Throttle..... | 1 700 rpm |
| 5 Carburettor Heat | CHECK OPERATION |
| 6 Mixture | CHECK OPERATION (EGT) |
| 7 Magnetos (L – B – R – B) | CHECKED |
| | (MAX. 125 rpm / MAX DIFF. 50 rpm) |
| 8 Suction | WITHIN GREEN ARC |
| 9 Ammeter | CHECKED |
| 10 Throttle..... | IDLE (Min. 500 rpm – Max. 700 rpm) |
| 11 Throttle..... | 1 000 rpm |

RUN UP COMPLETED

CHECK BEFORE DEPARTURE

- | | |
|---|----------------------------|
| 1 Seats, Seat Belts & Shoulder Harness (PAX)..... | RECHECKED |
| 2 Cabin Doors & Windows | CLOSED & LOCKED |
| 3 Fuel Quantity L & R..... | CHECKED (Endurance !) |
| 4 Fuel Selector..... | BOTH |
| 5 Flaps | AS REQUIRED |
| 6 Mixture | RICH (below 3 000 ft AMSL) |
| 7 Carburettor Heat | COLD |
| 8 Elevator Trim..... | SET FOR TAKE OFF |
| 9 Circuit Breakers | CHECKED |
| 10 Magnetos | BOTH |
| 11 Master Switch | ON |
| 12 Primer | IN & LOCKED |
| 13 Flight Instruments | CHECKED & SET |
| 14 Engine Instruments | CHECKED |
| 15 Flight Controls..... | FREE & CORRECT |
| 16 Departure & Emergency Briefing | COMPLETED |
| 17 Parking Brake | RELEASED |

CHECK BEFORE DEPARTURE COMPLETED – READY TO LINE UP

Approach Sector & Runway **FREE** / ENTER THE RUNWAY
 & LINE UP

LINE UP CHECK

- | | |
|---|--------------------------------|
| 1 Runway | IDENTIFIED & DG SET |
| 2 Wind | CHECKED |
| 3 Landing Light & Navigation Lights | ON |
| 4 Transponder "Mode ALT" | DISPLAY " GND " (7 000) |
| 5 Time | NOTED |

LINE UP CHECK COMPLETED

CLIMB CHECK

- | | |
|--------------------------------|--|
| 1 Power | FULL POWER |
| 2 Flaps | UP (clear of obstacles,
+ve ROC, SPEED > 60 kt) |
| 3 Landing Light | AS REQUIRED |
| 4 Transponder "Mode ALT" | DISPLAY " ALT " (7 000) |

CLIMB CHECK COMPLETED

CRUISE CHECK

- | | |
|------------------------------|------------------------------|
| 1 Altimeter | SET AS REQUIRED |
| 2 Directional Gyro | RECHECKED |
| 3 Cruise Power | SET (according AFM) |
| 4 Mixture | LEANED (above 7 000 ft AMSL) |
| 5 Fuel Quantity L or R | CHECKED (Endurance !) |
| 6 Engine Instruments | WITHIN GREEN ARC |

CRUISE CHECK COMPLETED

DESCENT CHECK

- | | |
|-----------------------------|-----------------|
| 1 ATIS (if available) | NOTED |
| 2 Approach Briefing | COMPLETED |
| 3 Avionics | SET |
| 4 Directional Gyro | RECHECKED |
| 5 Mixture | SET AS REQUIRED |
| 6 Cabin & PAX | SECURED |

DESCENT CHECK COMPLETED

APPROACH CHECK

- | | |
|-----------------------------|------------------------|
| 1 Altimeter | SET QNH (D/W Altitude) |
| 2 Landing Light | ON |
| 3 Carburettor Heat | AS REQUIRED |
| 4 Mixture | RICH / AS REQUIRED |
| 5 Fuel Quantity L & R | CHECKED (Endurance !) |
| 6 Fuel Selector | BOTH |

APPROACH CHECK COMPLETED

FINAL CHECK

- 1 Carburettor Heat *push* COLD
- 2 Mixture *push* RICH / AS REQUIRED
- 3 Flaps *down* SET FOR LANDING

FINAL CHECK COMPLETED

AFTER LANDING CHECK

- 1 Transponder “Mode ALT” DISPLAY “**GND**”
- 2 Landing Light & Navigation Lights OFF
- 3 Flaps UP
- 4 Elevator Trim SET FOR TAKE OFF

AFTER LANDING CHECK COMPLETED

PARKING & ENGINE SHUT DOWN

- 1 Parking Brake SET AS REQUIRED
- 2 Throttle **1 000 rpm !**
- 3 COM MONITOR 121.50
- 4 Avionics Master OFF
- 5 Electrical Consumers (**except beacon light**) OFF
- 6 Mixture IDLE CUT OFF
- 7 Ignition Switch **OFF & KEY REMOVED**
- 8 Master Switch OFF
- 9 Beacon Light OFF
- 10 Fuel Selector RIGHT
- 11 Flight Data & Aircraft Log NOTED

PARKING & ENGINE SHUT DOWN CHECK COMPLETED

Important Data for Cessna C172P (according AFM) **check T/O performance according AFM**

V _R (Rotating speed)	55 kt
V _X (Best angle of climb speed)	56 kt
V _Y (Best rate of climb speed)	75 kt
V _A (Manoeuvring speed)	99 kt
V _G (Best glide speed) (clean)	65 kt
V _{NO} (Max. structural speed)	127 kt
V _{NE} (Never exceed speed)	158 kt
V _{FE} (Max. flaps extend speed)	85 kt
V _{FE 10°} (Max. flaps extend speed @10°)	110 kt
V _S (Stalling speed - clean)	44 kt
V _{SO} (Stalling speed – full flap)	33 kt
V _{initial}	90 kt
V _{intermediate}	75 kt
V _{final}	60 kt
V _{cruise climb}	85 kt
Max. Crosswind	15 kt
Service Ceiling	13 000 ft

Weights

MTOW	2 550 lb (1 156 kg)
Empty weight	1 522 lb (690 kg)
Max. useful load	1 028 lb (466 kg)

Fuel (AVGAS 100LL)

Max. capacity	54 US Gal (204 l)
Usable fuel	50 US Gal (189 l)
Fuel flow	10.3 US Gal/h (39 l/h)

Oil (15W40)

Max. capacity	8 US Quarts
Min. quantity	5 US Quarts

Tyre pressure

Nose wheel	1.9 bar (28 psi)
Main wheel	2.1 bar (30 psi)

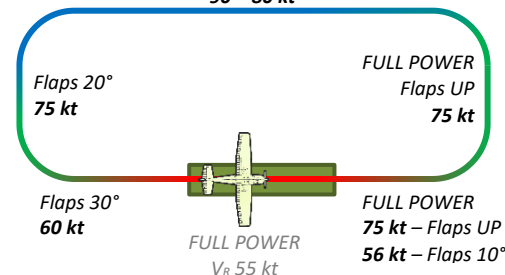
Power settings (Mixture leaned, Temp. ISA)

Pressure Alt.	65 % bhp	75 % bhp
2 000 ft.....	2 350 rpm	2 500 rpm
4 000 ft.....	2 400 rpm	2 550 rpm
6 000 ft.....	2 450 rpm	2 550 rpm
8 000 ft.....	2 500 rpm	2 600 rpm
10 000 ft.....	2 500 rpm	2 600 rpm (70%)
12 000 ft.....	2 550 rpm	(64%)

Circuit (Power, Speed, Configuration)

POWER 1900-2100 rpm

Flaps 10°
90 – 80 kt



Engine:Avco Lycoming O-360-A4M (180 hp @ 2 700 rpm)

Electrical system: 28 V DC

Battery: 24 V DC

Corrections / changes:

When starting engine prime with throttle only

Leaning NEW only above 7000 ft amsl