

PREFLIGHT CHECK

CABIN

- 1 Aircraft Log & Aircraft Papers CHECKED
- 2 Control Lock REMOVED & STOWED AWAY
- 3 Ignition Switch OFF & KEY REMOVED
- 4 Avionics Power Switch..... OFF
- 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 Primer (cold engine only !)..... 1 – 6 STROKES
- 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 Power Switch..... ON
- 9 Avionics SET AS REQUIRED
- 10 FLARM ON
- 11 Engine Warm Up AS REQUIRED
- 12 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 Rudder Trim SET **RIGHT** FOR TAKE OFF
- 10 Circuit Breakers CHECKED
- 11 Magnetos..... BOTH
- 12 Master Switch ON
- 13 Primer..... IN & LOCKED
- 14 Flight Instruments CHECKED & SET
- 15 Engine Instruments..... CHECKED
- 16 Flight Controls FREE & CORRECT
- 17 Departure & Emergency Briefing COMPLETED
- 18 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 & Strobe 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
- 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, Navigation & Strobe Light 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 Power Switch..... OFF
- 5 FLARM OFF
- 6 GPS..... OFF
- 7 Electrical Consumers (**except beacon light**)..... OFF
- 8 Throttle at Idle..... CHECK DEAD CUT
- 9 Mixture..... IDLE CUT OFF
- 10 Ignition Switch **OFF & KEY REMOVED**
- 11 Master Switch OFF
- 12 Beacon Light OFF
- 13 Fuel Selector RIGHT
- 14 Flight Data & Aircraft Log..... NOTED

PARKING & ENGINE SHUT DOWN CHECK COMPLETED

Important Data for Cessna F172P (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) (<i>clean</i>)	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	1 089 kg (2 400 lb)
Empty weight	704 kg (1 552 lb)
Max. useful load	385 kg (848 lb)

Fuel (AVGAS 100LL)

Max. capacity	257 l (68 US Gal)
Usable fuel	235 l (62 US Gal)
Fuel flow	32 l/h (8.5 US Gal/h)

Oil (15W40)

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

Tyre pressure

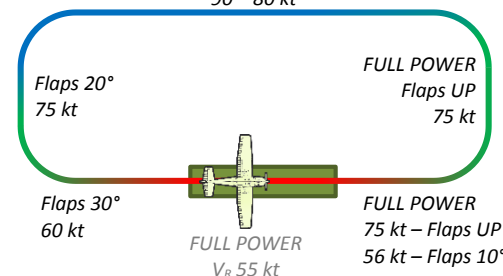
Nose wheel	1.9 bar (28 psi)
Main wheel	2.1 bar (30 psi)

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-320-D2J (160 hp @ 2 700 rpm)
Electrical system:..... 28 V DC
Battery:..... 24 V DC