

FLIGHT DECK PREPARATION

- 1 Outside check.....COMPLETED
- 2 Airplane papers.....ABOARD AND CHECKED
- 3 Magnetos.....OFF
- 4 Electrical switches.....OFF
- 5 Circuit breakers.....CHECK ALL IN
- 6 Avionic switches (BUS 1 + 2).....OFF
- 7 Master switch.....ON
- 8 PFD.....CHECK ON
- 9 Fuel check:
 - Quantity.....CHECK ENDURANCE / LOW FUEL WRNG.
 - Fuel valve.....BOTH
 - Fuel shutoff valve.....OPEN (push full in)
 - Mixture.....LEAN
- 10 Oilpress.+vacuum annunciators.....CHECK ON
- 11 For-and afterward avionics fans.....CHECK (AV.Bus1 then 2 ON and OFF again)
- 12 Master switch.....OFF

BEFORE ENGINE START

- 1 Doors.....CLOSED
- 2 Parking brake.....SET
- 3 Seat belts.....ON
- 4 STBY BATT Switch.....TEST (green light ON for 20s then on ARM)
- 5 Engine indicating system.....CHECKED (no red "X")
- 6 Bus E Volts.....CHECK (24V min.)
- 7 Bus M Volts.....CHECK (1.5V or less)
- 8 BATT S Amps.....CHECK (discharge shown)
- 9 STBY BATT Annunciator.....CHECK (annunciator is shown)

ENGINE START

- 1 External power (if necessary).....CONNECT
- 2 Master switch.....ON
- 3 Beacon light.....ON
- 4 Throttle.....OPEN 5mm
- 5 Cold engine only:
 - Fuel pump switch.....ON
 - Mixture.....RICH until stable fuel flow (3-5s), then cut-off
 - Fuel pump switch.....OFF
- 6 Propeller area.....CLEAR
- 7 Ignition key.....START
 - when engine starts, release starter immediately!!!
 - do not crank for more than 10 sec, then wait for minimum 20 sec. to cool down!
After 6 times, wait for 30 min.!
- 8 Mixture.....ADVANCE slowly to RICH when engine starts
- 9 Throttle.....1000 RPM
- 10 Oil pressure and Starter light.....CHECKED: GREEN and OFF
- 11 External power (if necessary).....DISCONNECT
- 12 AMPS on M + S Battery.....CHECK (charging)
- 13 LOW VOLTS Annunciator.....CHECK (not shown)



- Note: Starting engine when flooded:
- Mixture.....IDLE CUT-OFF
 - Throttle.....OPEN ½ TO FULL
 - Ignition key.....ENGAGE
 - Mixture.....ADVANCE slowly to RICH when engine starts
 - Throttle.....1000 RPM

AFTER ENGINE START

- 1 Avionic switches (BUS 1+2).....ON
- 2 Avionics and audio panelSET & CHECK (Check XPDR 7000/GND)
- 3 Flight instrumentsSET & CHECK (SET QNH 3 Times!)
- 4 LightsAS REQUIRED

TAXI CHECK

- 1 Brakes and steeringCHECKED
- 2 InstrumentsCHECKED

RUN UP CHECK

- 1 Parking brakeSET
- 2 Run up:
 - Throttle.....1800 RPM
 - MagnetosCHECKED (max drop 150RPM / Diff. 50)
 - Volts + amperemeter M+S.....CHECKED
 - VacuumCHECKED
 - Throttle idle.....CHECK RPM
 - Throttle.....1000 RPM

BEFORE DEPARTURE

- 1 Flight controlsFREE & CORRECT
- 2 Electric & manual trim controlCHECK & SET
- 3 Flaps.....SET (0° - 10°)
- 4 Fuel check:
 - QuantityCHECK ENDURANCE
 - Fuel valveBOTH
 - Fuel shut-off valve.....FULL IN
 - MixtureFULL RICH or BEST POWER
- 5 FrictionSET
- 6 Doors and windows.....CLOSED
- 7 Take off briefing.....COMPLETED

LINE UP

- 1 ApproachCLEAR
- 2 WindCHECKED
- 3 LightsAS REQUIRED (ON)
- 4 TransponderAUTOMATIC (VFR 7000)
- 5 Time check.....PERFORM

CLIMB CHECK

- 1 Flaps.....UP
- 2 Climb power.....SET
- 3 Climb speedCHECK
- 4 LightsAS REQUIRED
- 5 MixtureSET

CRUISE CHECK

- 1 **Altimeter**SET 3 TIMES: PFD, AP, STBY INSTR.
- 2 **Power**SET
- 3 **Mixture**SET
- 4 **Engine instruments**.....CHECKED
- 5 **Fuel quantity**.....CHECKED

DESCENT CHECK

- A **Atis**NOTED
- B **Briefing**COMPLETED
- C **Circuit breakers and cabin**.....CHECKED AND SECURED
- D **Directional gyro**N/A
- E **Electric equipment**AS REQUIRED
- F **Fuel (mixture)**SET FOR DESCENT

APPROACH

- 1 **Altimeter**SET QNH 3 TIMES: PFD, AP, STBY INSTR.
- 2 **Fuel check:**
 - **Quantity**CHECK ENDURANCE
 - **Fuel valve**.....BOTH
 - **Shut off valve**.....FULL IN
 - **Mixture**FULL RICH (except high field elev.)
- 3 **Landing light**.....ON

FINAL CHECK

- 1 **Flaps**.....SET
- 2 **Speed**CHECKED

AFTER LANDING

- 1 **Transponder**CHECK "GND"
- 2 **Flaps**.....UP
- 3 **Lights**AS REQUIRED
- 4 **Time check**.....PERFORM

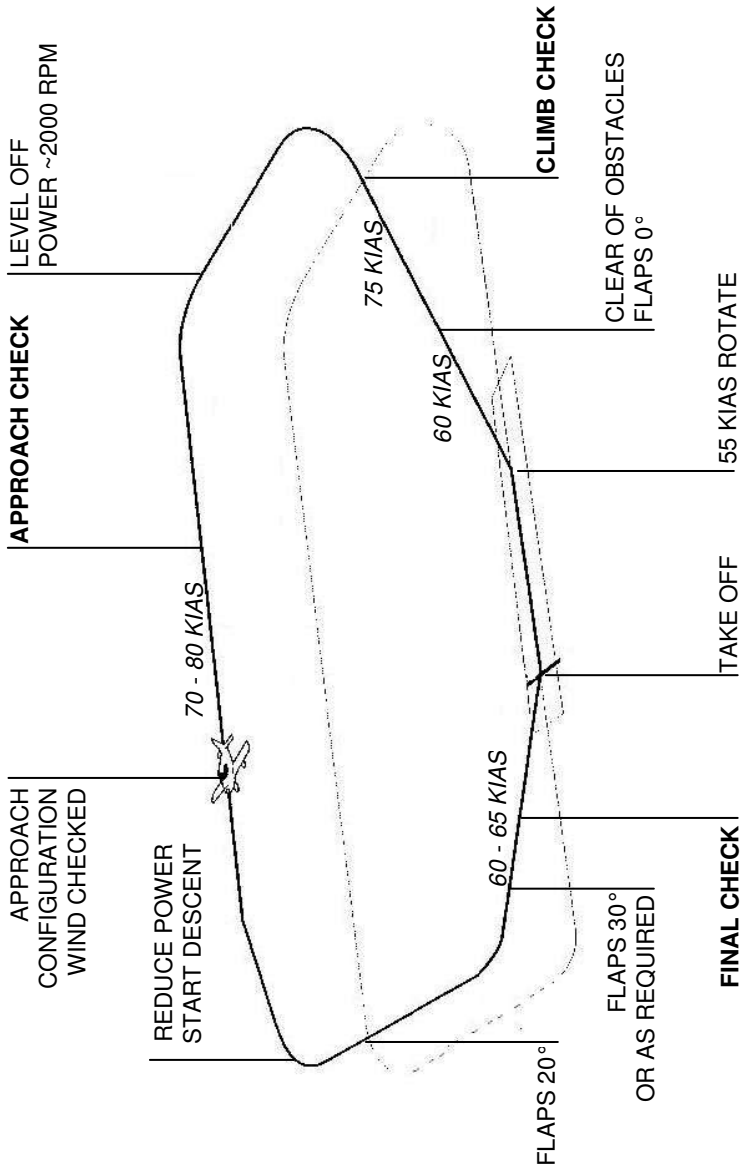
PARKING

- 1 **Parking brake**AS REQUIRED
- 2 **Avionic and electrical switches**OFF
- 3 **Throttle**.....SET 1000 RPM
- 4 **Mixture**IDLE CUT OFF
- 5 **Magnetos and master switch**.....OFF
- 6 **STBY BATT switch**OFF
- 7 **Flight Log /Tech Log**FILL OUT

SPEEDS

- V_X Best angle of climb56 KIAS
- V_Y Best rate of climb.....74 KIAS (sea level)
-72 KIAS (10'000 ft)
- V_A Manoeuvring speed90-105 KIAS
- V_{FE 10} max. Flaps speed 10°110 KIAS
- V_{FE 20-30} max. Flaps speed 20° - 30°85 KIAS
- V_{best G.} Best glide (0° Flaps)68 KIAS

CIRCUIT



For explanation refer to the Expanded Checklist