

**FLIGHT DECK PREPARATION**

- 1 Outside check..... COMPLETED
- 2 Airplane papers ..... ABOARD and CHECKED
- 3 Magnetos ..... OFF
- 4 Electrical switches ..... OFF
- 5 Circuit breakers ..... CHECKED
- 6 Master switch ..... ON
- 7 Fuel check:
  - Quantity ..... CHECK ENDURANCE
  - Fuel valve ..... ON
  - Mixture ..... FULL RICH

**BEFORE ENGINE START**

- 1 Doors ..... CLOSED
- 2 Parking brake ..... SET
- 3 Seat belts ..... ON
- 4 ATIS (if available) ..... RECEIVED

**ENGINE START**

- 1 Beacon light ..... ON
- 2 Carburetor heat ..... OFF (COLD)
- 3 Primer (cold engine only) ..... PUMP according OAT, then LOCKED
- 4 Throttle ..... OPEN 5 mm (Pump acc. eng.-temp.)
- 5 Propeller area ..... CLEAR
- 6 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.!
- 7 Throttle ..... 1000 RPM
- 8 Oil pressure ..... CHECKED: GREEN



**AFTER ENGINE START**

- 1 Avionic switch ..... ON
- 2 Transponder set mode "ALT" ..... CHECK "GND" and "VFR 7000"
- 3 Avionics and audio panel ..... SET & CHECK
- 4 Flight instruments ..... CHECKED
- 5 Lights ..... AS REQUIRED

**TAXI CHECK**

- 1 Brakes and steering ..... CHECKED
- 2 Instruments ..... CHECKED

**RUN UP CHECK**

- 1 Parking brake ..... SET
- 2 Run up:
  - Throttle ..... 1700 RPM
  - Magnetos..... CHECKED (max drop 125 RPM)
  - Carburetor heat ..... CHECKED
  - Alternator ..... CHECKED
  - Gyro suction ..... CHECKED
  - Throttle idle ..... CHECK RPM
  - Throttle ..... 1000 RPM

**BEFORE DEPARTURE**

- 1 Flight controls ..... FREE & CORRECT
- 2 Trim ..... CHECKED & SET
- 3 Flaps..... SET (0° - 10°)
- 4 Fuel check:
  - Quantity ..... CHECK ENDURANCE
  - Fuel valve ..... ON
  - Mixture ..... FULL RICH or BEST POWER
- 5 Carburetor heat ..... OFF (COLD)
- 6 Friction ..... SET
- 7 Doors and windows ..... CLOSED
- 8 Take off briefing ..... COMPLETED

**LINE UP**

- 1 Approach ..... CLEAR
- 2 Wind ..... CHECKED
- 3 Lights ..... AS REQUIRED (ON)
- 4 Transponder ..... AUTOMATIC (VFR 7000)
- 5 Time check..... PERFORM

**CLIMB CHECK**

- 1 Flaps ..... UP
- 2 Climb power..... SET
- 3 Climb speed ..... CHECKED
- 4 Lights ..... AS REQUIRED
- 5 Mixture ..... SET

**CRUISE CHECK**

- 1 Altimeter..... SET
- 2 Directional gyro ..... COMPARED
- 3 Power ..... SET
- 4 Mixture ..... SET
- 5 Engine instruments..... CHECKED
- 6 Fuel quantity..... CHECKED

**DESCENT CHECK**

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

**APPROACH**

- |          |                              |                                     |
|----------|------------------------------|-------------------------------------|
| <b>1</b> | <b>Altimeter</b> .....       | SET QNH                             |
| <b>2</b> | <b>Fuel check:</b>           |                                     |
|          | • <b>Quantity</b> .....      | CHECK ENDURANCE                     |
|          | • <b>Fuel valve</b> .....    | ON                                  |
|          | • <b>Mixture</b> .....       | FULL RICH (except high field elev.) |
| <b>3</b> | <b>Carburetor heat</b> ..... | ON (HOT)                            |
| <b>4</b> | <b>Landing light</b> .....   | ON                                  |

**FINAL CHECK**

- |          |                    |         |
|----------|--------------------|---------|
| <b>1</b> | <b>Flaps</b> ..... | SET     |
| <b>2</b> | <b>Speed</b> ..... | CHECKED |

**AFTER LANDING**

- |          |                              |             |
|----------|------------------------------|-------------|
| <b>1</b> | <b>Transponder</b> .....     | CHECK "GND" |
| <b>2</b> | <b>Flaps</b> .....           | UP          |
| <b>3</b> | <b>Carburetor heat</b> ..... | OFF (COLD)  |
| <b>4</b> | <b>Lights</b> .....          | AS REQUIRED |
| <b>5</b> | <b>Time check</b> .....      | PERFORM     |

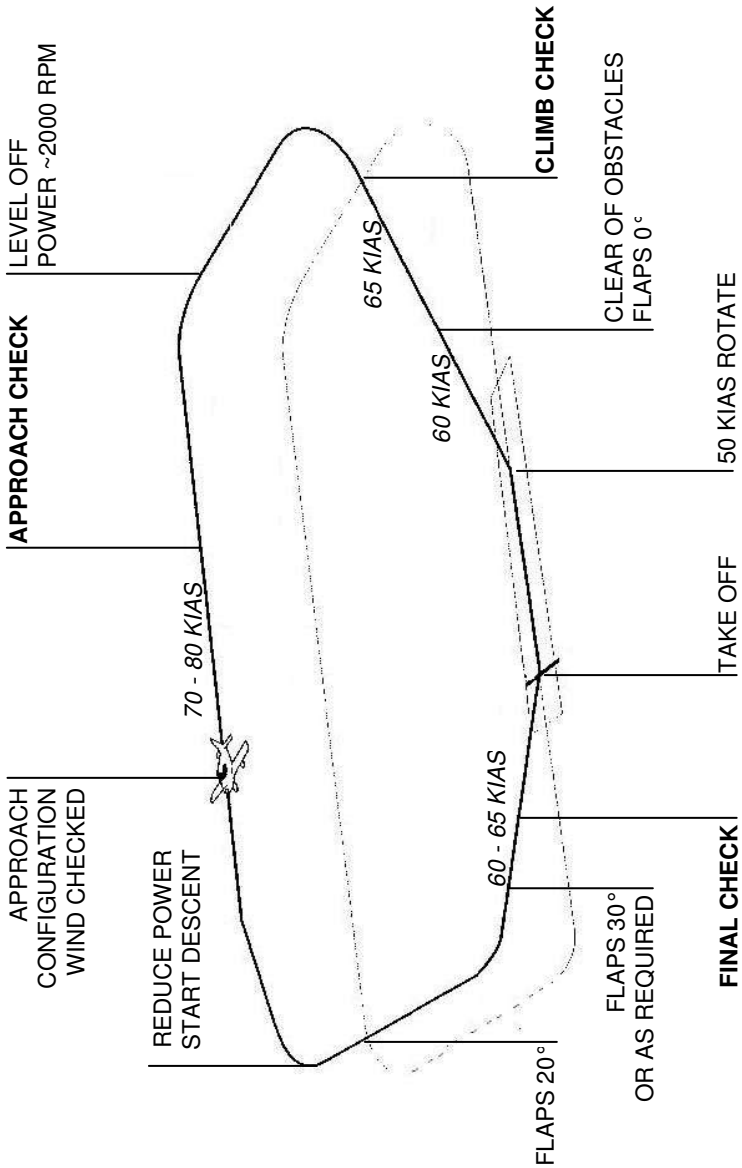
**PARKING**

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

**SPEEDS**

- |                |                            |                     |
|----------------|----------------------------|---------------------|
| $V_X$          | Best angle of climb.....   | 54 KIAS             |
| $V_Y$          | Best rate of climb .....   | 67 KIAS (sea level) |
|                | .....                      | 60 KIAS (12'000 ft) |
| $V_A$          | Manoeuvring speed.....     | 104 KIAS            |
| $V_{FE}$       | max. Flaps speed.....      | 85 KIAS             |
| $V_{best\ G.}$ | Best glide (0° Flaps)..... | 60 KIAS             |

**CIRCUIT**



For explanation refer to the Expanded Checklist