

## Cabin

- Canopy secure against rails
- Controls unlocked, harness unlatched
- In flight manual
  - Technical Log - check defects entered
  - Current Airworthiness Certificate
  - Aircraft Flight Manual
  - Radio Licence approval
- Compass & compass card present and date valid
- Emergency equipment:
  - Emergency Location Transmitter (ELT)
  - First Aid Kit
  - Fire Axe
  - Life Jackets if applicable
- Controls & Elevator Trim - check full & free movement, trim set for take-off
- Magnetos switch - OFF & keys on DI knob, Throttle closed, Mixture lean
- Fuel shut-off valve : ON
- Battery switch on (treat propeller as live)
  - Check annunciator lights, set day
- Fuel pump on - check fuel pressure & contents
- Fuel pump off - check pressure remains
- Turn all lights on & walk-around:
  - Landing lights, taxi lights, Nav lights, stall warning vane
- Turn all lights off except strobe
- Battery switch off

## Empennage

- Fuel quantity – check dipstick, compare with gauges. Make note of contents & calculate safe endurance time
- Replace fuel filler cap – in place and locked
- Fuel drain valve – activate fuel drain
  - Colour – green for AvGas
  - No water
  - No particulates or sediment
- Left static vent – clear and unblocked
- Aerials – secure
- Horizontal stabilizer – full & free movement, hinge play, upper and lower surfaces – check condition – no ripples, check security of screws and rivets
- Rudder – check movement & hinge play, check condition and surfaces
- Tail section – security of screws, nuts (split pins) and cables
- Right static vent – clear & unblocked
- External power door – closed

## Right Wing

- Flap – check for play, condition, hinges
- Aileron – full & free movement, correct movement
- Wing – upper and lower surfaces – check condition – no ripples, check security of screws and rivets
- Wing tip and leading edge – security and damage
- Wing tie-down rope or chain disconnected
- Right main gear:
  - Remove wheel chocks
  - Check undercarriage for damage
  - Check tyre tread and inflation
  - No brake fluid leaks
  - Check oleo extension (50-80mm)
  - Ensure wheel spats are secure

## Nose

- Open cowl flap, check oil level >4 quarts (fill to 6 quarts for extended flight)
- Check engine cowl for security
- Exhaust secure
- Windscreen clean
- Tow bar removed
- Nose wheel assembly:
  - remove wheel chocks
  - check undercarriage for damage
  - check tyre tread and inflation
  - no brake fluid leaks
  - check oleo extension (50-80mm)
  - ensure wheel spats are secure
- Air filter clear and free of obstructions
- Propeller and spinner - check for damage, nicks, and security
- Air inlets free of obstructions
- Alternator belt tight

## Left wing

- Pitot tube unblocked and secure
- Right main gear:
  - remove wheel chocks
  - check undercarriage for damage
  - check tyre tread and inflation
  - no brake fluid leaks
  - check oleo extension (50-80mm)
  - ensure wheel spats are secure
- Wing - upper and lower surfaces - check condition - no ripples, check security of screws and rivets
- Wing tip and leading edge - security and damage
- Wing tie-down rope or chain disconnected
- Aileron - full & free movement, correct movement
- Flap - check for play, condition, hinges

## Tow aircraft into position for engine start