

### Preparation

Personal	Health, Medication, Fatigue
Licences	Licence and ratings current. Medical valid
Operating currency	Club and legal requirements met
Planning	Route, diversion, fuel, W&B, PLOG, Charts and GPS prepared. Destination PPR
Weather	Departure, enroute, destination and diversion
NOTAMS	NOTAMS, Red arrows and Temporary Restrictions
Authorisations	Customs, Special Branch, Flight Plan Filed
Booking Out	Booked out, Flight authorisation
Aircraft	Serviceability, Tech log reviewed & complete

### Pre Start Checks (Avgas)

Seats	Adjusted; locked
Control Locks	Removed; stowed
Loose Articles	None
Instruments	Condition; indications
Cabin air controls	Closed
Carb heat	Exercise; Set cold
Alternate Air	Exercise; Set Closed
Thrust lever friction	As required
Parking brake	Re-set On
Flaps	Up in stages
Harnesses	Fitted; adjusted
Door	Closed; latched
Ailerons & elevator	Correct movement; full; free
Alternate static	Off
Electrics & radios	Off

### Pre Start Checks (Avgas) (cont)

Engine master	Off
Thrust Lever	Exercise; set idle
Battery master	Set On
Main bus/ alternator	Set On
Circuit breakers	All 'made'
Fuel Gauges	Correct Indications
Fuel selector	Set lowest tank
Starter warning lamp	Test

### Starting Engine (avgas)

Strobe	On
Mixture	Fully Rich
Fuel pump	Set on
Priming	As required; Check primer locked
Throttle	Exercise; set 1 cm open
Propeller Area	Call 'clear prop'; check clear
Magneto switch	Engage starter, release to "Both" position when engine fires
Throttle	set 1000RPM
Starter warning light	Check off
Oil Pressure	Check 25 PSI within 30secs
Magnetos	Check L & R (Drop no Stop)
Alternator warning	Off
Vacuum gauge	Indicating
Throttle	set 1200 RPM

**DO NOT EXCEED 1200RPM until Oil Temperature reaches 30°C & CHT reaches 100°C**

Ammeter	Charging
Avionics	On; set; indicating correctly
ATIS	Obtain

### Starting Engine (avgas) (cont)

Altimeter	Set; Indicate within +/- 50 feet
Vacuum	Check
DI/Al	Erect; set
RT	Obtain taxi clearance

### Taxying Checks

Brakes	Working
Rudder	Full and free
Flight Instruments	Indicating Correctly

### Power Checks (Avgas)

Aircraft into wind; clear all around	
Parking brake	On
Fuel selector	Set fuller tank
Temperatures & Pressures	Within limits
Mixture	Fully Rich
Magnetos	Both
Throttle	Set 2000 RPM
Brakes	Check holding
Ignition (L, both, R, both)	Max drop 175 RPM; Max difference 50 RPM
Carb Heat	Set Hot;
	<i>a. Check 50-100 RPM decrease;</i>
	<i>b. Wait for a suitable period (&gt; 15sec)</i>
	<i>c. Set Cold, Check RPM restored</i>
Vacuum	4½-5"
Temperatures & Pressures	Within limits
Throttle	Check idling 500-800 RPM
	Set 1200 RPM

**Continue to Pre-takeoff checks...**



### Pre-takeoff Checks

Rudder Trim	In take-off band
Elevator Trim	In take-off band
Flaps	Set 10 degrees
Thrust lever friction	Set on
Alternate air	Check closed
Fuel	Contents sufficient
Fuel pump	On
Warning lights	Out
Ammeter	Indicating correctly
Vacuum	Indicating
Radios/Nav aids	As required
Harnesses	Adjusted
Door	Latched
Engine indications	Ts & Ps / FADEC, CED & AED all Normal
Main bus / alternator	On
Ailerons & elevator	Full, free & correct movement
Passengers Briefed	
Departure Clearance	Obtained



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