

PREFLIGHT CHECK

Chocks	Removed
Required Papers	Onboard and completed
Avionics	OFF
Fuel quantity	adequate plus reserve
Magnetos	OFF
Mixture control	idle cut-off
Trim indicator	neutral
Flaps	check operation
Controls	Free and full travel
Empty seats	Fasten belts
Clock	Wound and Set

BEFORE STARTING ENGINE

Seats, Seat belts and harness	Fasten/adjust (check inertia reel)
Parking brake	set
Circuit breakers	IN
Radios	OFF
Carburettor heat	OFF

**When operating below 0°C refer POH.*

STARTING ENGINE

Fuel selector	Left or Least
Mixture	RICH
Master switch	ON
Alternator	ON
Electric fuel pump	ON
Anti-Collision Light	ON
Prime	6 (cold). 3 (hot)
Throttle	¼ inch ½ inch (Warm Start)
Area	CLEAR
Starter	Engage
Throttle	1000 to 1200RPM
Oil Pressure	Check

AFTER START

Alternator	Check Positive load
Electric fuel pump	OFF - Check Pressure
Avionics Master	On
Avionics	Set
QNH	Set
Aspen Master	On (amps < 20)
Instruments	Check

TAXIING

Taxi area	Clear (Park brake off)
Throttle	Apply slowly
Mixture	Lean
Brakes	Check
Steering	Check
Instruments	Check

BEFORE TAKEOFF - GROUND CHECK

Parking brake	On (1000RPM)
Fuel selectors	Fullest Tank
Mixture Control	Forward
Engine gauges	In the green
Throttle Control	2000RPM
Carburettor heat	Check
Magnetos	check, max. drop 175 RPM, max. Diff drop 50 RPM
Alternator output	Check Positive Load
Throttle idle	500-750 RPM
	Return to 1000RPM
Electric fuel pump	ON
Alternators	ON
Engine gauges	In the green
Annunciator panel	Press to Test
Flight Instruments	Set
Auto Pilot	OFF
Primer	Locked
Mixture	Set
Quadrant Friction	Set
Carburettor heat	OFF
Wing Flaps	Set
Trim	Set (Neutral)
Seat Backs	Set and Locked
Seat belts and harness	Fastened
Controls	Free and full travel
Doors	Latched
Radio/Navaid frequencies	All set correct
Departure & safety Brief	Completed

Key Speeds	
V _r	60kts
V _x	64kts
V _y	76kts
V _{fe}	102kts
Glide	76kts
Approach	>66kts

NORMAL TAKE-OFF

Flaps	UP
Accelerate to 60 KIAS	
Control wheel	ease back to rotate to climb attitude
After breaking ground, accelerate to best rate of climb speed of 76 KIAS	

SHORT FIELD TAKE-OFF

Flaps	25°
Stabiliser Trim	Set for Take-Off Range
Brakes	Set
Full power before brakes release	
Accelerate to 55 KIAS	
Control wheel	Rotate firmly to attain 55kts through 50ft
Accelerate to best rate of climb speed of 76 KIAS, no obstacle.	
Flaps	Retract

AFTER TAKE-OFF

Flaps	UP
Temps & Pressures	Checked
Fuel Pump/ Land Light	Off

CRUISE

Power	Set as per power table
Mixture	Adjust

DESCENT

Mixtures	Adjust with descent
Throttles	Set
QNH	Set

PRE LANDING

Brakes	Pressure and Park Brake Off
Undercarriage	Fixed
Mixture	Rich
Fuel	Fullest Tank, Pump
Instruments	Engine gauges green, Align DI
Switches	As required
Hatch and Harness	Secure

APPROACH AND LANDING

Seat Backs	Erect
Flaps	Set, Max 102 KIAS
Approach Speed	66 KIAS or above
AFTER LANDING	
Clear of Runway	
Flaps	Retract
Radios	Set/Call
Oil	Check T's & P's
Switches	OFF as required
Trim	Neutral
Transponder	STBY

SHUTDOWN

Parking brake	ON
Throttle	1000 RPM
Magnetos	Checked
Radios	OFF
Mixture	Idle Cut-off
Throttle	Full Aft
Magnetos	OFF
Master	OFF
Anti-Collision Light	Leave On
Aircraft	Secured & Chocked

Press Alt	Temp	55% (30ltr/hr)		65% (34ltr/hr)		75% (40ltr/hr)	
		TAS	RPM	TAS	RPM	TAS	RPM
SL	15	90	2200	107	2300	116	2400
2000	11	95	2220	110	2360	119	2540
4000	7	98	2250	113	2400	122	2580
6000	3	103	2350	116	2480	127	2600
8000	-1	106	2380	119	2550	128	2650
10000	-5	108	2425	122	2580	128	FT

Subtract 2kts if wheel fairings are not installed.
Mixture set to an increase of 50RPM.

N.B. This is only meant as a guide. Always consult the actual aircraft flight manual and your flight instructor prior to use.

DO NOT REMOVE FROM AIRCRAFT