

PREFLIGHT INTERIOR

Papers	aboard+checked
Electric Master switch	check off
Engine Master switch	check off
All Avionics	check off
All Electrics	check off
Flight controls	check free
Foreign object	check
Electric Master switch	on
Fuel indication	check quantity
Pitot static tube+heat	check (outside)
Stall warning	check (outside)
External lights	check (outside)
Electric Master switch	off

PREFLIGHT EXTERIOR

Chocks+tie down	check removed
Nose gear	check
Engine oil	check quantity (min 4,5 lit, max 6 lit.)
Gearbox oil	Level within Sight glass
Air intakes (5x)	check unobstructed
Propeller+spinner	check
Fuel sump	drain
Left fuel quantity	check visual
Left fuel drain	drain
Left main gear	check
Left wing+aileron+flap	check
Tail section	check
Right wing+aileron+flap	check
Right main gear	check
Right fuel drain	drain
Right fuel quantity	check visual
Antennas	check undamaged

BEFORE STARTING ENGINE

Pedals	adjust
Seat belts	fasten
Parking brake	set
Circuit breakers	check in
Alternate air	check closed
Electric Master	on
Annunciator Panel/ Eng.Instr.	check
Acknowledge button	press
Low coolant warning Light	check off

BEFORE TAXI CHECK

Avionics	on+set for departure
Electric	on as required
Wing flaps	full travel to check
Gyros	set
Elevator trim	set
Altimeters	set+compare
Parking brake	release

STARTING ENGINE

ACL	on
Power lever	check Idle
Engine Master	on
Glow indication	extinguished
Propeller area	clear
Electric Master	start
Oil pressure	check
Warm up	Idle (2 minutes)
Warm up continue with 1400RPM	until oil temp > 50°C and coolant temp > 60°C
Annunciator Panel/ Eng.Instr.	check

TAXI CHECK

Brakes	check
Flight instruments	check

BEFORE TAKE OFF CHECK

Parking brake	Set
Engine instruments	check green range
Power lever	idle
ECU test	press and hold
Control lights: ECU A, B- flashing, ECU A Caution – flashing, Prop RPM – cycling, ECU B Caution flashing, Prop RPM – cycling, Control lights extinguished, RPM 900 stabilized	
ECU Test	disengage
ECU swap	Set ECU B
ECU swap	Set Auto
Alternate air	check as required
Wing flaps	set T/O
Flight controls	check free
Trim indicator	set neutral
Canopy front+aft	latch+check warn.light
Seat belts	tighten
Departure briefing	completed
T/O briefing	completed

LINE UP AND TAKE OFF CHECK

Transponder	set ALT
Runway	identify
Pitot heat	as required
Landing light	as required
Time	check

Power lever full forward	RPM 2240 – 2300 Load Ind. 90 – 100 %
Rotate	54/55/59 KIAS Vr
Initial climb (flaps T/O)	59/60/66 KIAS Vy

CLIMB CHECK

Climb power	Max.
Wing flaps	up
Landing light	off
Best rate Vy (flaps UP)	78/78/78 KIAS

CRUISE CHECK

Altimeters	set+compared
Power (e.g. at ISA Std. , 10000ft)	50%, 4,0 Gal/h, 112 KTAS 60%, 4,9 Gal/h, 123 KTAS 70%, 5,8 Gal/h, 132 KTAS 80%, 6,8 Gal/h, 140 KTAS
Trim	as required
Fuel transfer	repeat as required

DESCENT CHECK

Seat belts	tighten
Fuel quantity	checked
Power	as required

APPROACH CHECK

Landing light	as required
Altimeters	set QNH+compare
Approach briefing	completed
Wing flaps	as required

FINAL CHECK

Brakes	checked
Wing flaps below 108 KIAS	as required

Maneuvering speed:

94 KIAS (780-980 kg)
 108 KIAS (981-1150 kg)

AFTER LANDING CHECK

Alternate air	off
Time	check
Transponder	standby
Wing flaps	retract
Pitot heat	off
Landing light	as required

PARKING CHECK

Power lever	Idle, min. 2 min.
All Avionics and Electric	off
Engine Master	off
ACL	off
Electric Master switch	off
Interior light	check off

KIAS / GROSSWEIGHT	980 kg	1000 kg	1150 kg
Rotate Vr	54	55	59
Best rate Vy (flaps T/O)	59	60	66
Best rate Vy (flaps UP)	78	78	78
Cruise climb			
Flaps T/O	108	108	108
Flaps LDG Vfe	91	91	91
Final Vat	63	63	71

