

**PREFLIGHT**

A/C documents	aboard+checked
Foreign object	check
Flight controls	check free
Engine master	check off
Avionic master	check off
Electric Master key	on
Fuel indication	check quantity
External lights	on
Pitot heat	on
Pitot heat	check outside
Stall warning	check outside
External lights	check outside
All Electric	off
Electric master switch	off

Chocks, tow bar, tie down	check removed
Canopy and rear door	check
Nose gear	check
Cowling+propeller+spinner	check
Engine oil	check quantity (min 4,5 lit, max 6 lit. )
Gearbox oil	level within sight glass
Air intakes (5x)	check unobstructed
Fuel sump	drain
Left fuel quantity	check visual
Left fuel drain	drain
Left main gear	check
Left wing+aileron+flap	check
Tail section	check
Elevator+rudder	check

**PREFLIGHT cont.**

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
Emergency fuel valve	check normal
Alternate engine air	check closed
Alternate static source	check closed
All electric	check off
Avionic master	check off
Engine master	check off
Pitot heat	check off
ECU SWAP	check AUTO
Circuit breakers	check in
Passenger briefing	completed
Rear door	closed+latched
Seat belts	fasten

Electric Master key	on
Annunciator panel	check
Acknowledge button	press
Engine instruments	check
Low coolant warning light	check off

**STARTING ENGINE**

Strobe lights ACL	on
Power lever	idle power
Engine master	on
Glow indication	check extinguished
Propeller area	clear
Electric master key	start
Oil pressure	check
Avionic master	on
Annunciations+engine instrument	check+press acknowledge
Warm up	idle power (2 minutes)
Warm up continue with 1400RPM	until oil temp > 50°C and coolant temp > 60°C

**BEFORE TAXI**

Ammeter – pitot heat on/off	check reading
Electric / lights	on as required
Circuit breakers	check in
Wing flaps	full travel to check then T/O
Electric trim	test+both switches
Elevator trim	set for T/O
Gyro instruments	set
Heading bug	set RWY heading
Altimeters 2x	set+compare
Avionics	set for departure

**TAXI**

Taxi light	on
Brakes	check
Flight instruments	check

**BEFORE TAKE OFF**

Taxi light	off
Engine instruments	check green range
Power lever	idle, check 890+/-20 RPM
ECU test	initiate + monitor
ECU swap	ECU B then AUTO
Alternate engine air	check as required
Wing flaps	check T/O
Elevator trim	set for T/O
Flight controls	check free
Canopy front+rear door	check latched+warning
Seat belts	tighten
Departure briefing	completed
T/O briefing	completed

**LINE UP / TAKE OFF**

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

Power lever full forward	RPM 2240 – 2300 check LOAD 90 – 100 % check
Rotate	49/55/59 KIAS Vr (A/C mass)
Initial climb (flaps T/O)	54/60/66 KIAS Vy (A/C mass)

**CLIMB**

Climb power	max. 100%
Wing flaps	check up
Landing light	off
Best ROC Vy (flaps UP)	60/68/73 KIAS

**CRUISE**

Altimeters	set+compared
Power according AFM (e.g. ISA at 9000ft)	60%, 4,0 Gal/h,114 KTAS 70%, 4,7 Gal/h,124 KTAS 80%, 5,7 Gal/h,131 KTAS
Trim	as required
Fuel transfer	repeat as required

**APPROACH**

Altimeters	set QNH+compare
Fuel quantity / balance L/R	checked
Landing light	on
Parking brake	check released
Seat belts	tighten
Approach briefing	completed

**FINAL APPROACH**

Wing flaps APP<108 KIAS	APP
Wing flaps LDG<91 KIAS	LDG / as required
Brakes	press check
Speed AT with flaps LDG - min.	58/63/71 KIAS (A/C mass)

**AFTER LANDING**

Alternate air	off
Time	check
Transponder	as required
Wing flaps	retract
Pitot heat	off
Landing light / taxi light	off / on

**PARKING**

Taxi light	off
Power lever	2 min. idle
Avionic master	off
All electric except ACL	off
Engine master	off
Strobe lights ACL	off
Electric master key	off
Interior light	check off

<b>CIAS / GROSSWEIGHT</b>	850 kg	1000 kg	1150 kg
Rotate Vr	49	55	59
Best rate Vy (flaps T/O)	54	60	66
Best rate Vy (flaps UP)	60	68	73
Cruise climb	65	70	75
Flaps T/O max.	108	108	108
Flaps LDG Vfe max.	91	91	91
Final Vat min.	58	63	71
Maneuvering speed	94	←980 kg →	108