

Before Starting engine

Preflight inspection completed
(Interior lighting checked for N-VFR)

Alt/Bat. switch	on
Warning lights	on
Circuit breakers	checked
Avionics master	on
Ships papers	on board
Loose objects	stowed
Emergency equipment	checked
Parking brake	set
Seats	adjusted & locked
Seatbelts & harnesses	fastened
Canopy	closed (check click for latch)
Passenger briefing	completed

Start-up

ATIS	received
..... Request start-up	
QNH / ALT	set
Fuel selector	least full tank
Fuel pump	on
Fuel pressure warning light	off
Avionics master	off
Anti-Collision-Light (ACL)	on
Carb.heat	COLD (push in)
Prop.control	HIGH RPM (fwd)
Power lever friction	set
When COLD throttle	CLOSED (idle)
Choke	pull & hold
When HOT throttle	0,5 cm OPEN
Outside	clear
..... Start-engine	
Magnetos	both
Throttle	800 rpm
Oil pressure	risen within 10 sec.
Avionics master	on/set
Fuel pump	off
Warning lights	off
Flaps	checked, CRUISE (up)
Altimeter/ dir. gyro	set QNH/checked
Flight controls	free movement (check rudder during taxiing)
Elevator trim	check and set T/O

Before taxi

Taxi clearance	received
Nav. & landing lights	as required
Parking brake	off

Taxi

Limit rpm to 800 for 2 min.

Brakes	checked
PFD & compass	checked

Engine Run-up

Nose wheel	aligned
Parking brake	set
Fuel selector	fullest tank
Engine instr. & voltmeter	check
Throttle	1700rpm
Oil pressure	checked
Magneto's	max.drop/diff. 120/50rpm
Carb.heat	checked (drop 20-50rpm)
Prop.control cycle (3x)	drop 200 rpm then HIGH RPM (fwd) (cycle 1x after 1st flight)
Throttle	CLOSED then 800rpm (1200 RPM when engine cold)
	Avoid prolonged run 800 – 1200rpm

Before take-off

Canopy	closed & latched
Magnetos	both
Fuel pump	on
Anti-Collision-Light (ACL)	on
Flaps	checked & set T/O
Carb.heat	as required
Trim	set T/O
Fuel selector	fullest tank, sufficient
Flight instruments	checked
Warning lights	off
Engine instr. & voltmeter	check
Flight controls	free and easy
Seatbelts & harnesses	fastened
PFD/MFD/COMM/NAV	set
Crew briefing	completed
(Safety/departure/TEM)	
..... Line-up	
Parking brake	release
Carb.heat	COLD (push IN)
Landing light	as required
Transponder	ALT

After take-off

200ft AGL

Flaps	CRUISE (up)
Carb.heat	check cold (in)

300ft AGL

Prop.control	check 2260rpm
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1000ft AGL

Fuel pump	off
Warning light	off
Landing light	as required

Climb

Airspace	reviewed
Altimeter	QNH / 1013
RPM	check 2260rpm
Temps & pressures	checked

Cruise

Fuel	fullest tank, sufficient
Radio (active & stby freq.)	set
Engine instruments	checked
Direction	checked
Altimeter	baro/ altitude/ airspace

Descent

Airspace	reviewed
Altimeter	QNH / 1013
Carb.heat	as required
Power	set 5" lower for ROD 500 fpm
MAP	decrease 1" / 1000ft decent

Entry / Approach

ATIS	received
Altimeter	set QNH
Dir. gyro	checked
Fuel pump	on
Landing light	as required
COM/NAV	set
Engine instruments	checked
Fuel selector	fullest tank
Brakes/ parking brake	checked/off
Seatbelts & harnesses	fastened
Loose objects	stowed
Briefings	completed
(Passenger/TEM)	

Downwind

Power	set 22"/2000rpm
Fuel pump	checked
Carb.heat	ON (pull out)
Flaps (below 90kts)	set T/O

After landing

Flaps	up
Carb.heat	COLD (push in)
Fuel pump	off
Landing light	as required
Transponder	checked GND

Engine shut-down

Throttle	CLOSED for 1 minute
Fuel pump	off
Avionics-master	off
Landing & nav.lights	off
Flaps	LDG (down)
Magnetos	off (key removed)
Anti-Collision-Light (ACL)	off
Alt/Bat. switch	off
Times & left Hobbs	noted

Emergencies

Refer to Airplane Flight Manual emergency checklist.
Keep flying the aircraft!

Recommended speeds ACM

Lift-off/50ft	55/65 kts (vol/2260rpm)
Vx/ Vy	60/ 65 kts (vol/2260rpm)
En-route climb	70 kts (vol/2260rpm)
Cruise @ 65% < 2000ft	105 kts (25"/2000rpm)
Cruise @ 65% > 2000ft	105 kts (see cruise table)
Best glide (flaps CRUISE)	78 kts
Downwind (flap CRUISE)	85 kts (22"/2000rpm)
Downwind (flap T/O)	80 kts (22"/2000rpm)
Base leg (flaps T/O)	75 kts (as req.)
Final/barrier (flaps LDG)	65/60 kts (as req.)
Final (flapless)	70 -75 kts (as req.)

■ = Memory Items