



**Before Starting Engine**

Outside inspection	completed
Towbar	stowed
Ship's papers	on board
Parking brake	set
Seats	asjust & secured
Safety belts	fastened
Doors	closed & locked
Fuel selector	on
All electrical switches	off
Radios	off
Circuit breakers	in
Master switch	on
Fuel quantity	checked

**Starting Engine**

Carburetor heat	cold
Mixture	rich
Prime	max 1½ (throttle)
Throttle	± 1 cm.
Propeller area	clear
Beacon light switch	on (if applicable)
Ignition switch	start

**After Starting**

Oil pressure	check
Starter warning light	off
Throttle	1,000 rpm
Ammeter	check
Flaps	up
Radios	on
Start flight time	notice

**During Taxiing**

Brakes	check
Gyros	check

**Engine Check**

Parking brake	set
Throttle	1,000 rpm
Mixture	rich
Carburetor heat	cold
Check behind	clear
Throttle	1,700 rpm
Engine instruments	check
Ammeter	check
Suction	green
Magnetos	max. drop 150 rpm max. diff. 75 rpm
Carburetor heat	check operation
Idling	500 - 700 rpm
Throttle	1,000 rpm
Throttle friction	set

**Before Take-off**

Primer pump	closed & locked
Ignition	both
Flight controls	free & correct
Trim	set for take-off
Carburetor heat	cold
Mixture	rich
Flaps	as required
Flight instruments	check & set
Engine instruments	check
Radios & Nav. equipment	check & set
Safety belts	fastened
Doors & windows	closed & locked
Smoking	not allowed
Parking brake	off

**Normal Take-off (see owners manual)**

Throttle	full
Lift nose at	50 kts
Climb	70 kts

**After Take-off**

Brakes	apply
Flaps	up >200 ft
Throttle	full
Climb speed	± 70 kts

**Cruise**

Throttle	± 2,300 rpm
Carburetor heat	as required

**Before Descent**

Mixture	rich
Carburetor heat	as required
Altimeter	set
Fuel selector	on

**Downwind Checks**

Primer	closed & locked
Ignition	both
Carburetor heat	hot
Throttle	± 2,000 rpm
Mixture	rich
Flaps	10°
Fuel selector	on
Fuel quantity	checked
Engine instruments	check
Brakes	check
Safety belts	fastened
Smoking	not allowed
Speed	70 kts



**Baseleg Checks**

Throttle	± 1,500 rpm
Flaps	20°
Speed	± 70 kts

**Final Checks**

Throttle	± 1,500 rpm
Flaps	20° - 40°
Speed	60 - 70 kts

**After Landing**

Flaps	up
Pitot heat	off
Carburetor heat	cold

**After Parking**

Parking brake	set
Throttle	1,000 rpm
Radios & Nav. equipment	off
All electric switches	off
Mixture	idle cut off
Ignition	off
Master switch	off
Control lock	install
Time & Tachometer	check

**Go Around**

Throttle	full
Carburetor heat	cold
Flaps	20° at 65 kts 10° >200 ft flaps up

**Touch & Go**

Flaps	as required
Throttle	full
Carburetor heat	cold

**Emergency Procedures**

**Engine Fire in Flight**

Mixture	idle cut off
Fuel selector	off
Master switch	off
Cabin heat & air vents	off (except overhead)
Airspeed	120 kts

*If fire is not extinguished, increase glide speed to find an airspeed which will provide an incombustible mixture.*

**Electrical Fire in Flight**

Master switch	off
All electrical switches	off
Radio switches	off
Cabin head & air vents	closed
Fire extinguisher (if available)	active

**Fire breaks out & electrical power is necessary for continuance of flight**

Master switch	on
Circuit breakers	check for faulty circuit, do NOT reset
Radio & Electrical switches	on one by one to localize the short circuit
Cabin heat & air vents	open if fire is completely extinguished

*Refer also the Operations Manual for further details*