



C-182 RG Condensed Checklist

BEFORE STARTING CHECK

Preflight	Complete
Seats and belts	Check
Brakes	Test, set
Fuel selector valve	Both
Cowl Flaps	Open
Landing Gear	Down
Carb Heat	Off
Circuit breakers	Check
Avionics master	Off
Electrical equipment	Off

ENGINE START CHECK

Mixture	Rich
Prop	FWD
Master switch	Bat-On
Beacon	On
Throttle	Pump (1-6)
Propeller area	Clear

COLD START

Prime	1-6 times
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AFTER START

Throttle	900 RPM
Oil pressure	Check
Alternator	On
Ammeter	Check
Avionics master	On
Flaps	Up
Mixture	Lean

PRE-TAXI CHECK

Flight Instruments	Check
Lights	As required
Radio	Check
Parking brake	Off
Brakes	Check

BEFORE TAKEOFF CHECK

Parking Brakes	On
Doors/Windows	Closed/locked
Flight controls	Free, correct
Fuel selector valve	Both
Elevator, trim	Set for takeoff
Mixture	Rich
Aux Pump	On/Off

Throttle	1700 RPM
Magnetos	Right, then left
Engine gauges	Check
Ammeter	Check
Suction gauge	Check
Carb heat	Check/On/Off
Prop	Cycle
Throttle	900 RPM

Flight instruments	Check and set
Fuel quantity	Check
Radios/Nav aids	Set
Lights/strobes	Set
Wing flaps	Up
Transponder	Alt, code set
Autopilot	Off
Departure Plan	Complete
Parking brake	Off

Flaps	0°-20°
Mixture	Rich
Light	As req.

CLIMB CHECK (500' AGL)

Gear	Up
Flaps	Up
Throttle/Prop	23"/2400 RPM

CRUISE CHECK

Power	Set
Mixture	Adjust
Lights/strobes	Set
Directional gyro	Check
Engine Gauges	Check
Cowl Flaps	Closed

DESCENT CHECK

Fuel Selector	Both
Mixture	Adjust
Carb heat	Set as required
Seats/Belts	Adjust
Lights	On
Alt/Inst/Radio	Set

BEFORE LANDING

Carb heat	On
Landing Gear	Down
Mixture	Rich
Prop	HI RPM

AFTER LANDING CHECK

Wing flaps	Up
Carb heat	Off
Lights/strobes	As required
Transponder	Standby
Cowl Flaps	Open

SECURING AIRPLANE CHECK

Radios	Off
Electrical equip	Off
Mixture	Idle cut-off
Magnetos	Off
Master switch	Off
Parking brake	Set
Control lock	Install
Hobbs meter	Note time
Tie-downs	Secure

ENGINE FAILURES

ENGINE FAILURE IMMEDIATELY AFTER TAKEOFF

Airspeed	70 KIAS (flaps up) 65KIAS(flapsdown)
Mixture	Idle cut-off
Fuel Selector Valve	Off
Ignition Switch	Off
Wing Flaps	As required
Master Switch	Off

ENGINE FAILURE IMMEDIATELY AFTER TAKEOFF

Airspeed	80 KIAS
Carburetor Heat	On
Fuel Selector Valve	Both
Mixture	Rich
Ignition Switch	Both (or Start if propeller is stopped)
Primer	In and Locked
Aux Fuel Pump	On

FORCED LANDINGS

Airspeed	70 KIAS (flaps up) 65KIAS(flapsdown)
Prop	Full AFT
Mixture	Idle cut-off
Fuel Selector Valve	Off

EMERGENCY LANDING WITHOUT ENGINE POWER

Ignition Switch	Off
Wing Flaps	As req.(40° rec.)
Master Switch	Off
Doors	Unlatch prior to touchdown
Touchdown	Slightly tail low
Brakes	Apply heavily

LANDING GEAR FAILS TO EXTEND

Gear Lever	Down
CB	Check
Emergency Hand Pump	Extend, pump about 20 cycles
Gear light	On
Pump	Stow

FIRES

ENGINE FIRE DURING START ON GROUND

Cranking	Continue, til start
<i>If engine starts:</i>	
Power	1700RPM/few min.
Engine	Shutdown & inspect for damage

If engine fails to start:

Throttle	Full open
Mixture	Idle cut-off
Cranking	Continue 2-3 min
Extinguisher	Obtain
Engine	Secure
a. Master switch	Off
b. Ignition switch	Off
c. Fuel Shutoff Valve	Off
Fire	Extinguish (try to remove carburetor air filter if it is ablaze)
Fire Damage	Inspect, repair damage before conducting another flight.

ENGINE FIRE IN FLIGHT

Mixture	Idle cut-off
Fuel Selector Valve	Off
Master Switch	Off
Cabin Heat and Air	Off (ex. ovrhd vents)
Airspeed	100 KIAS (if fire is not extinguished, increase glide speed)
Forced Landing	Execute (as Emerg. Landing Without Engine Power).

ELECTRICAL FIRE IN FLIGHT

Master Switch	Off
All other Switches (except ignition switch)	Off
Vents/Cabin Air/Heat	Closed
Fire Extinguisher	Activate
<i>If the fire appears out and electrical power is necessary for continuance of flight:</i>	
Master Switch	On
Circuit Breakers	Check for faulty circuit, do not reset.
Radio/Electrical Switches	On (one at a time, with delay after each short circuit is localized)
Vents/Cabin Air/Heat	Open when fire is extinguished.

CABIN FIRE

Master Switch	Off
Vents/Cabin Air/Heat	Closed
Fire Extinguisher	Activate
WARNING	
After discharging an extinguisher within a closed cabin, ventilate cabin. Land the airplane ASAP to inspect for damage.	

SPEED REFERENCE

	<u>KTS</u>
V _R	50
V _{SO}	41
V _{S1}	47
V _X	64
V _Y	88
Cruise Climb	100
V _A	89-112
Glide	80
V _{FE}	95-140
V _{NO}	143
V _{NE}	182
V _{LE/VLO}	140