

Cessna 172 RG



PREFLIGHT

COCKPIT	
Pilots Operating Handbook	AVAILABLE
Wt and Balance	CHECK
Parking Brake	SET
Landing Gear Lever	DOWN
Control Lock	REMOVE
Ignition Switch	OFF
Avionics Power	OFF
Master switch	ON
Fuel gauges	CHECK
Landing Gear Lights	LIT - 1 GREEN
Master switch	OFF
Fuel Selector	BOTH
Alternate Static	OFF
Baggage Door	CHECK

EMPENNAGE	
Rudder Gust Lock	REMOVE
Tail Tiedown	REMOVE
Elevator	CHECK
Rudder	CHECK
Elevator Trim Tab	CHECK

RIGHT WING	
Aileron	CHECK
Wing Tip	CHECK
Leading Edge	CHECK
Wing Tiedown	REMOVE
Main Wheel / Tire	CHECK
Flap	CHECK
Fuel sump(s)	DRAIN
Belly Fuel Sump(s)	DRAIN
Fuel Quantity	CHECK VISUALLY
Fuel Filler Cap	SECURE

PREFLIGHT (CONT.)

NOSE/POWERPLANT	
Static Source Opening	CHECK (Both)
Engine Oil Dipstick	CHECK
Fuel Strainer	DRAIN
Propellor & Spinner	CHECK
Landing Lights	CHECK
Nose Gear Doors	CHECK
Nosewheel Strut and Tire	CHECK
Air Filter	CHECK
Exhaust Stack	CHECK
Alternator Belt	CHECK
Nose Tiedown	REMOVE
Nose Wheel Tiedown	REMOVE
Windscreen	CHECK

LEFT WING	
Main Wheel / Tire	CHECK
Fuel sump(s)	DRAIN
Fuel Quantity	CHECK VISUALLY
Fuel Filler Cap	SECURE
Pitot Tube / Cover	REMOVE / CHECK
Fuel Vent	CHECK
Stall Warning Vane	CHECK
Wing Tiedown	REMOVE
Leading Edge	CHECK
Wing Tip	CHECK
Aileron	CHECK
Flap	CHECK

BEFORE STARTING ENGINE	
Preflight Inspection	COMPLETE
Passenger Briefing	COMPLETE
Seats	ADJUSTED /LOCKED
Seatbelts / Harness	FASTENED
Fuel Selector	BOTH
Avionics Power Switch	OFF
Brakes	TEST & SET
Cowl Flaps	OPEN
Landing Gear Lever	DOWN
Circuit Breakers	CHECK IN
Beacon switch	ON
Electrical Equipment	OFF
Radios	OFF

STARTING ENGINE

Mixture Control	RICH
Propellor	High RPM
Carb Heat	OFF
Throttle Control	Pump 1 -2
Throttle Control	Open 1/4 inch
IF HOT turn aux fuel pump ON	
Propellor area	'Clear'
Master Switch	ON
Ignition Switch	START
Oil Pressure	GREEN ARC
Lights and Beacon	ON
Avionics Power	ON
Ammeter Indication	CHECK
Mixture Control	LEAN
Radios	ON

FREQUENCIES

UNITED FLIGHT	123.5
HOOKS UNICOM	122.95
HOOKS ATIS	126.375
HOOKS GROUND	121.8
HOOKS TOWER	118.4
APPROACH	123.80 / 124.35
FLIGHT SERVICE	122.4

BEFORE TAXI

Flaps	UP / CHECK
Radios	SET
Transponder	ALTITUDE
Instruments	CHECK / SET
Area	CLEAR
Brakes	RELEASE / TEST
Taxi Light	ON

BEFORE TAKEOFF

Taxi Light	OFF
Parking Brake	SET
Cabin Doors	CLOSED LOCKED
Doors / Windows	CLOSED
Flight Controls	FREE/CORRECT
Flight Instruments	CHECK SET
Fuel Selector	RECHECK BOTH
Mixture Control	ENRICHEN
Aux Fuel Pump	ON (check press.)

BEFORE TAKEOFF (CONT.)

Aux Fuel Pump	OFF
Trim	TAKEOFF
Throttle	1800 RPM
Magnetos	CHECK
Propellor	CYCLE
Carb Heat	CHECK
Instruments Ammeter	CHECK
Suction	CHECK
Throttle	1000 RPM or less
Radios & Avionics	SET
Autopilot	OFF
Strobes & Lights	AS DESIRED
Throttle Friction Lock	ADJUST
Flaps	TAKEOFF
Brakes	RELEASE
Approach Path	VISUALLY CLEAR
Transponder	ALTITUDE
Takeoff Briefing - Emerg. Procedures	
Line Up Check	'THAT S'
Time - Heading - Alt / Alt - Transponder	

TAKEOFF

--- NORMAL ---

Flaps	0 DEGREES
Carb Heat	OFF
Throttle Control	FULL
Engine Instruments	GREEN ARC
Rotate	55 KIAS
Climb	70 - 80 KIAS
Brakes	APPLY BRIEFLY
Landing Gear (in climb)	RETRACT

--- SHORT FIELD---

Flaps	0 DEGREES
Carb Heat	OFF
Brakes	APPLY
Throttle Control	FULL
Mixture Control	RICH
Brakes	RELEASE
Elevator	SLIGHT TAIL LOW
Rotate - Clear Obstacle	63 KIAS
Climb	70 - 80 KIAS
Landing Gear (after Obst)	RETRACT

ENROUTE CLIMB	
--- NORMAL ---	
Airspeed	70 - 85 KIAS
Power	25 IN and 2500 RPM
Fuel Selector	BOTH
Mixture Control	RICH
Cowl Flaps	OPEN
--- MAXIMUM PERFORMANCE---	
Airspeed	84KIAS
Power	FULL & 2700 RPM
Fuel Selector	BOTH
Mixture Control	RICH
Cowl Flaps	FULL OPEN
CRUISE	
Power	less than 75%
Elevator and Rudder	ADJUST
Mixture	LEAN
Cowl Flaps	CLOSED
Engine Instruments	GREEN ARC
Lights	AS REQUIRED

DESCENT	
Fuel Valve	BOTH
Power	AS NEEDED
Carb Heat	AS NEEDED
Mixture	ADJUST
Cowl Flaps	CLOSED
Wing Flaps	AS DESIRED
Engine Instruments	GREEN ARC
Airport Environment	PREP

BEFORE LANDING	
Seatbacks	MOST UPRIGHT
Seats/Seatbelts	CHECK SECURE
Fuel Valve	BOTH
Landing Gear	DOWN
Landing Gear	CHECK - 1 GREEN
Mixture control	RICH
Carb Heat	ON
Propellor	HIGH RPM
Autopilot	OFF
Landing Light	AS NEEDED
GUMPS C	COMPLETE

LANDING	
--- NORMAL ---	
Airspeed (flaps up)	65- 75 KIAS
Flaps	AS REQUIRED
Airspeed (flaps down)	60 - 70 KIAS
Elevator trim	ADJUST
Touchdown	MAINS FIRST
Landing Roll	Lower Nose Gently
Braking	Minimum required
--- SHORT FIELD ---	
Airspeed (Flaps Up)	65 - 75 KIAS
Flaps	30 DEGREES
Airspeed (until flare)	63 KIAS
Elevator trim	ADJUST
Power (after obstac.)	IDLE
Touchdown	MAINS FIRST
Braking	MAXIMUM
Flaps	RETRACT
---GO AROUND ---	
Throttle control	FULL & 2700 rpm
Carb Heat	OFF
Flaps	TO 20 DEGREES
Airspeed	65 KIAS
Flaps	10 DEGREES
Obstacle	CLEAR
Airspeed	76 KIAS
Flaps	RETRACT
Cowl Flaps	OPEN

AFTER LANDING (off active runway)	
Flaps	RETRACTED
Carb Heat	OFF
Cowl Flaps	OPEN
Transponder	STANDBY
Lights	AS NEEDED
Mixture	LEAN FOR TAXI

SHUTDOWN	
Parking Brake	SET
Throttle	1000 RPM
Avionics & Electrics	OFF
Mixture Control	IDLE CUTOFF
Throttle	CLOSE
Ignition Switch	OFF
Master Switch	OFF

ENGINE FAILURES	
--- TAKEOFF RUN ---	
Throttle control	IDLE
Brakes	APPLY
Flaps	VERIFY / RETRACT
Mixture	CUTOFF
Ignition	OFF
Master	OFF
---CLIMBOUT ---	
Airspeed	65 KIAS
Fuel Valve	OFF
Mixture	CUTOFF
Throttle control	IDLE
Ignition switch	OFF
Flaps	AS REQUIRED
Master	OFF
---INFLIGHT (RESTART) ---	
Airspeed	75 KIAS
SELECT FIELD; FLY TO IT	
Fuel Valve	ON
Mixture	RICH
Carb Heat	ON
Fuel Pump	ON
Primer	IN/LOCKED
Ignition:	
Prop turning	BOTH
Prop stopped	START
Xponder	7700
Radio	121.5 / "Mayday!"
---INFLIGHT (SECURE) ---	
Airspeed	75 KIAS
Fuel Valve	OFF
Mixture	CUTOFF
Throttle control	IDLE
Ignition	OFF
Flaps	AS REQUIRED
Landing gear	AS REQUIRED
Master	OFF
Doors	OPEN
Seatbelts	FASTENED / TIGHT
Prep Passengers	

V SPEEDS - KIAS	
Vso	42
Vs	50
Vx	67
Vg	73
Vy	84
Vle	164
Vlo	140
Vfe	130 appch - 100 full
Va	89-106
Vno	145
Vne	164

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LANDING GEAR FAILS TO EXTEND	
Master Switch	ON
Landing Gear Lever	DOWN
Landing Gear Breaker	IN
Gear Pump Breaker	IN
Emerg Hand Pump	EXTEND & PUMP
Gear Down Light	ON
Pump Handle	STOW

GEAR UP LANDING	
Seatbelts	FASTENED / TIGHT
Landing Gear Lever	UP
Landing Gear Breaker	IN
Gear Pump Breaker	IN
Runway	SELECT LONGEST
Flaps (ON FINAL)	30 DEGREES
Airspeed	65 KIAS
Doors	UNLATCH
Master	OFF
Avionics Power	OFF
Touchdown	SLIGHT TAIL LOW
Mixture	CUTOFF
Ignition switch	OFF
Fuel Valve	OFF
Aircraft	EVACUATE