

NORMAL PROCEDURES

CESSNA-172XP on WHEELS

BEFORE STARTING ENGINE 1. Preflight Inspection -- COMPLETE 2. Seats/belts/straps -- BRIEF/ADJUST/ LOCK 3. Fuel Shutoff Valve -- ON (push full in) 4. Fuel Selector Valve -- BOTH 5. Avionics Switch, Electrical Equipment -- OFF 6. Cowl Flaps - OPEN 7. Circuit Breakers -- CHECK IN	ENROUTE CLIMB 1. Fuel Selector Valve -- BOTH 2. Cowl flaps -- OPEN, as REQ'D MAXIMUM PERFORMANCE CLIMB 3. Power -- FULL THROTTLE and 2600 RPM 4. Airspeed -- 81 KIAS ==> 76 KIAS (10,000') 5. Mixture -- LEAN per fuel flow placard NORMAL CLIMB 3. Power -- 25" MP and 2500 RPM 4. Airspeed -- 85 KIAS 5. Mixture -- LEAN per POH (11.5 gph) ECONOMY/NOISE ABATEMENT CLIMB 3. Power -- 25" MP and 2200 RPM 4. Airspeed -- 85 KIAS 5. Mixture -- LEAN per POH (9.4 gph)
STARTING ENGINE 1. Mixture -- RICH 2. Propeller -- HIGH RPM 3. Throttle -- CLOSED 4. Master -- ON 5. Aux Fuel Pump -- HIGH 6. Throttle -- ADVANCE, 8-10 GPH, CLOSED 7. Aux fuel Pump -- OFF 8. Propeller Area -- CLEAR 9. Ignition Switch -- START 10. Throttle -- IDLE, 1000 RPM or less 11. Oil Pressure -- CHECK 12. Beacon, nav, strobe lights -- ON, as REQ'D 13. Avionics Switch & Radios -- ON 14. Transponder -- ALT	CRUISE 1. Power -- 15-25"MP, 2200-2600 RPM (<=80%) 2. Elevator/rudder trim -- ADJUST 3. Mixture -- LEAN via JPI or POH 4. Cowl Flaps - CLOSED, as REQ'D
BEFORE TAKEOFF/RUNUP 1. Doors & Windows* -- CLOSED/LOCKED 2. Flight Controls -- FREE and CORRECT 3. Flight Instruments -- SET 4. Fuel Selector Valve* -- BOTH 5. Elevator and Rudder Trim* for -- TAKEOFF 6. Mixture -- RICH 7. Throttle -- 1800 RPM a. Magnetos -- CHECK (150/50), BOTH b. Propeller -- CYCLE high-low-high c. Engine Instruments -- CHECK d. Suction Gage -- CHECK e. Alternator -- CHECK f. Throttle -- IDLE, 1000 RPM or less 8. Radios -- SET 9. Throttle Friction Lock -- ADJUST	DESCENT 1. Fuel Selector -- BOTH 2. Cowl Flaps -- CLOSED 3. Power -- AS DESIRED 4. Mixture -- ENRICHEN, as req'd for smoothness
NORMAL TAKEOFF 1. Prop -- FULL 2. Mixture -- ESTIMATED FOR DENSITY ALT 3. Wing flaps -- 0° to 10° (10° Preferred) 4. Cowl Flaps -- OPEN 5. Throttle -- SMOOTHLY ADVANCE FULL 6. Mixture -- LEAN per fuel flow placard 7. Elevator -- LIFT NOSE WHEEL at 55 KIAS 8. Prop -- 2600 RPM unless obstacles 9. Climb speed: a. Obstacles -- Flaps 10°, 59 KIAS, 65 at 10,000' b. No Obstacles -- Vy = Flaps 0°, 81 KIAS 10. Prop -- 2600 RPM when over obstacles 11. Wing flaps -- UP over obstacles and > 70 KIAS 12. Noise abatement -- MP 25", PROP 2200	BEFORE LANDING 1. Belts/straps/seats -- SECURE 2. Cowl Flaps -- CLOSED 3. Gas (Fuel Selector Valve) -- BOTH 5. Mixture -- SET for balked landing per placard 6. Propeller -- HIGH RPM (after MP reduction)
*Re-check before takeoff after landing Vs0 = 46 Vs1 = 54 Vg = 75 Va = 105/96/87 @ (2550/2150/1750)	NORMAL LANDING 1. Airspeed -- 65-75 (flaps UP) 2. Wing flaps -- 0°-10° < 110 KIAS, 10°-40° < 85 KIAS 3. Airspeed -- 60-70 KIAS (Flaps down) 4. Elevator & Rudder Trim -- ADJUST 5. Touchdown -- MAIN WHEELS FIRST 6. Landing Roll - LOWER NOSE WHEEL GENTLY 7. Braking -- MINIMUM REQUIRED
	BALKED LANDING 1. Power -- FULL PROP and FULL THROTTLE 2. Wing Flaps -- RETRACT to 20° 3. Airspeed -- 55 KIAS 4. Wing Flaps -- RETRACT slowly after 65 KIAS 5. Cowl Flaps -- OPEN
	AFTER LANDING 2. Cowl Flaps -- OPEN 3. Wing Flaps -- UP
	SHUTDOWN 1. Throttle -- 1500 RPM 2. Mixture -- LEANED 3. ELT - CHECK 121.5 4. Avionics -- OFF 5. Throttle -- IDLE 6. Magneto Ground -- CHECK 7. Mixture -- IDLE CUT-OFF 8. Ignition Switch -- OFF 9. Master Switch -- OFF 10. Fuel Selector Valve -- RIGHT TANK 11. Control Lock/Pitot Cover -- INSTALLED