

1980 C-172RG

Preflight Check
Pages 4-4 to 4-6 of
Pilot's Operating Handbook

STARTING

- 1. Seats & Belts – ADJUST & LOCK**
- 2. Flight Controls – FREE**
- 3. Fuel Selector Valve – BOTH**
- 4. Landing Gear Lever – DOWN**
- 5. Cowl Flaps – OPEN**
- 6. Radios & Switches – OFF**
- 7. Circuit Breakers – CHECK**
- 8. Carburetor Heat – COLD**
- 9. Mixture – RICH**
- 10. Propeller – FULL IN (high RPM)**
- 11. Brakes – TEST & SET**
- 12. Master Switch – ON**
- 13. Fuel Quantities – CHECK**
- 14. Prime – as required, then LOCK**
- 15. Throttle – CRACKED**
- 16. CLEAR Area**
- 17. START**
- 18. IDLE – 800-1000 RPM**
- 19. Oil Pressure – CHECK**
- 20. Radios, Beacon, etc. – ON**

RUN UP CHECK

- 1. Brakes – SET**
- 2. Flight Controls – CHECK**
- 3. Fuel Selector Valve - BOTH**
- 4. Mixture – RICH**
- 5. Cowl Flaps – OPEN**
- 6. Flaps – CHECK & SET for takeoff**
- 7. Trim Tabs – SET**
- 8. Landing Gear Lever – DOWN**
- 9. Aux. fuel pump – ON. Check fuel pressure. Then OFF.**
- 10. Throttle – 1800 RPM**
- 11. Engine Instruments & Ammeter – CHECK**
- 12. Suction – CHECK**
- 13. Carburetor Heat – CHECK then OFF**
- 14. Magnetos – CHECK**
 - Max drop – 150 RPM
 - Max diff – 50 RPM
- 15. Propeller – CYCLE then FULL IN**
- 16. IDLE**

- 17. Flight Instruments – SET**
- 18. Radios – SET**
- 19. Cabin Doors & Windows – LATCHED**
- 20. Seat Belts – CHECK**
- 21. Brakes – RELEASE**
- 22. CLEAR Area**

TAKEOFF

- 1. Rotation 55 KIAS**
- 2. Best rate of climb 84 KIAS (S.L.)**
- 3. Best angle of climb 63 KIAS (S.L.)**
Flaps up
- 4. Cruise climb 85-95 KIAS**
 $V_a - 106$ KIAS $V_{glide} - 73$ KIAS

LANDING

- 1. G - GAS BOTH TANKS**
- 2. U - UNDERCARRIAGE DOWN & LOCKED**
- 3. M - MIXTURE RICH**
- 4. P - PROPELLER FULL IN**
- 5. C - COWL FLAPS AS REQUIRED**
- 6. C - CARB HEAT ON**
 $V_{short\ field} - 63$ KIAS

SHUT DOWN

- 1. Cowl flaps – OPEN**
- 2. IDLE – 1200 RPM**
- 3. All electrical switches – OFF**
- 4. Mixture – LEAN to cutoff**
- 5. Master & Ignition – OFF**
- 6. Controls – LOCKED**
- 7. Secure Aircraft – Close Flight Plan**

ENGINE OUT EMERGENCY

- 1. Establish best glide – 73 KIAS**
- 2. Note wind – Select landing field**
- 3. Carb Heat – ON**
- 4. Mixture – RICH**
- 5. Fuel selector valve – ON**
- 6. Primer – LOCKED**
- 7. Magnetos – CHECK**
IF RESTART IMPOSSIBLE
MAYDAY on 121.5
Report position
Belt & harnesses – TIGHTEN
Passengers – WARN
Throttle – CLOSE
Fuel Selector Valve – OFF
On Short Final
Landing Gear - as desired
Doors – OPEN
Master & Ignition – OFF