

1977 C-172
Lycoming O-320-D engine

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. Radios & Switches – OFF**
- 5. Circuit Breakers – CHECK**
- 6. Carburetor Heat – COLD**
- 7. Mixture – RICH**
- 8. Brakes – TEST & SET**
- 9. Master Switch – ON**
- 10. Fuel Quantities – CHECK**
- 11. Prime – as required, then LOCK**
- 12. Throttle – CRACKED**
- 13. CLEAR Area**
- 14. START**
- 15. IDLE – 800-1000 RPM**
- 16. Oil Pressure – CHECK**
- 17. Radios, Beacon, etc. – ON**

RUN UP CHECK

- 1. Brakes – SET**
- 2. Flight Controls – CHECK**
- 3. Fuel Selector Valve - BOTH**
- 4. Mixture – RICH**
- 5. Flaps – CHECK & SET for takeoff**
- 6. Trim Tabs – SET**
- 7. Throttle – 1700 RPM**
- 8. Engine Instruments & Ammeter – CHECK**
- 9. Suction – CHECK**
- 10. Carburetor Heat – CHECK then OFF**
- 11. Magnetos – CHECK**
 - Max drop – 125 RPM
 - Max diff – 50 RPM
- 12. IDLE**
- 13. Flight Instruments – SET**
- 14. Radios – SET**

15. Cabin Doors & Windows – LATCHED

16. Seat Belts – CHECK

17. Brakes – RELEASE

18. CLEAR Area

TAKEOFF

- 1. Rotation 55 KIAS**
- 2. Best rate of climb 76 KIAS (S.L.)**
- 3. Best angle of climb 56 KIAS (S.L.)**
Flaps up
- 4. Cruise climb 80-90 KIAS**
 $V_a - 97 \text{ KIAS}$ $V_{\text{glide}} - 65 \text{ KIAS}$

SHUT DOWN

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

ENGINE OUT EMERGENCY

- 1. Establish best glide – 65 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
Doors – OPEN
Master & Ignition – OFF