



REFLIGHT CHECKS

CESSNA 172-R

www.cockpitfanatic.com

GENERAL INFORMATION:

- 1. Oil : **Ashless Dispersant**
- 2. Oil Weight: **15W-50 or 20W- 50**
- 3. Oil Minimum: **5 qts**
- 4. Oil Maximum: **8 qts**
- 5. Fuel: **100 LL Avgas**
- 6. Fuel Color: **Blue**
- 7. Max Fuel: **56 gal**
- 8. Max Useable Fuel: **53 gal**
- 9. Load w/ Full Fuel: **480 lbs**
- 10. Max Demonstrated Crosswind for Takeoff and Landing: **15 KTS**

CABIN

- 1 Hobbs & Tachometer **CHECK**
- 2 Ignition Key **ON DASH**
- 3 Headset **ATTACHED**
- 4 POH/ Weight & Balance **AVAILABLE**
- 5 Parking Brake **SET**
- 6 Control Wheel Lock **REMOVE**
- 8 Avionics Power Switch **OFF**
- 9 Master Switch **ON**
- 10 Fuel Quantity Indicators **CHECK**
- 11 Pitot Tube Cover **REMOVE**
- 12 Avionics Master Switch **ON**
- 13 Avionics Cooling Fan **AUDIBLE**
- 14 Avionics Master Switch **OFF**
- 15 Static Ps Alternate Source Valve **OFF**
- 16 Annunciator Panel Switch **TEST**
- 17 Fuel Selector Valve **BOTH**
- 18 Flaps **EXTEND**
- 19 Ext Lights (Beacon/Landing/Taxi) **CHECK**
- 20 Fuel Shutoff Valve **ON (Push In)**

EXTERIOR CHECKS

- 1 Fuselage **CHECK VISUALLY**
- 2 Baggage door **LOCKED**
- 3 Rudder Lock/ Tie Down **REMOVE**
- 4 Rudder and Stops **CHECK VISUALLY**
- 5 Elevators **FREE & SECURE**
- 6 Trim Tab **CHECK Security**
- 7 Antennas **CHECK Security**
- 8 RT Aileron/ Flap **FREE & SECURE**
- 9 RT Wing Tie Down **DISCONNECT**
- 10 Fuel Tank Vent Opening **NO STOPPAGE**
- 11 Fuel Sumps (5) RT Wing **DRAIN & CHECK**
- 12 RT Fuel Cap & Vent **QUANT/SECURE/CLR**
- 13 RT Wheel\Tire\Brake **CHECK**
- 14 Oil Dipstick/ Filler Cap **CHECK (5-8 qts)**
- 15 Strainer/Quick Drains (3) **DRAIN/ CHECK**
- 16 Nose Wheel/ Strut **CHECK**
- 17 Propeller and Spinner **NO NICKS/ SECURE**
- 18 Engine Cooling Inlets **NO OBSTRUCTIONS**
- 19 Air Filter **NO RESTRICTIONS**
- 20 Static Source Opening **NO STOPPAGE**
- 21 LFT Fuel Cap & Vent **QUANT/SECURE/CLR**
- 22 Fuel Tank Vent Opening **NO STOPPAGE**
- 23 Stall Warning Opening **NO STOPPAGE**
- 24 LFT Wing Tie Down **DISCONNECT**
- 25 Landing/ Taxi Light(s) **CLEAN/ SECURE**
- 26 LFT Aileron/ Flap **FREE & SECURE**
- 27 Fuel Sumps (5) LFT Wing **DRAIN & CHECK**
- 28 LFT Wheel\Tire\Brake **CHECK**

BEFORE STARTING ENGINE

- 1 Preflight Inspection **COMPLETE**
- 2 Passenger Briefing **COMPLETE**
- 3 Seats and Seat Belts **ADJUST/ LOCK**
- 4 Brakes **TEST & SET**
- 5 Circuit Breakers **CHECK IN**
- 6 Electrical Equip/ Autopilot **OFF**
- 7 Avionics Power Switch **OFF**
- 8 Fuel Selector Valve **BOTH**
- 9 Fuel Shutoff Valve **ON (FULL IN)**
- 10 Avionics Circuit Breakers **CHECK IN**

STARTING ENGINE (With Battery/ Fuel Injected)

- 1 Throttle **OPENING 1/4 INCH**
- 2 Mixture **IDLE CUT OFF**
- 3 Propeller Area **CLEAR**
- 4 Master Switch **ON**
- 5 Auxiliary Fuel Pump **ON**
- 6 Mixture **ADVANCE 3-5 GPH**
- 7 Auxiliary Fuel Pump **IDLE CUT OFF**
- 8 Ignition Switch **OFF**
- 9 Oil Pressure **START/ ADVANCE**
- 10 NAV Light/ Beacon **MIXTURE TO RICH**
- 11 Mixture **MIN 20/ MAX 115**
- 12 Avionics **50-90 GREEN ARC**
- 13 Radios **ON**
- 14 Transponder **LEAN FOR TAXI**
- 15 Flaps **ON**
- 16 Ammeter **CHECK ON**
- 17 Heading Indicator **STANDBY**
- 18 Automated Weather **RETRACT**
- 19 Altimeter **CHECK**
- 20 Depart/ Taxi **SET**



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LIGHT CHECKS

BEFORE TAKEOFF

- | | | |
|----|------------------------|------------------------------|
| 1 | Brakes | SET |
| 2 | Passenger Seat Backs | UPRIGHT |
| 3 | Seats and Seat Belts | SECURE |
| 4 | Cabin Doors | LOCKED |
| 5 | Flight Controls | FREE & CORRECT |
| 6 | Flight Instruments | CHECK & SET |
| 8 | Fuel Gauges | CHECK |
| 9 | Mixture | RICH |
| 10 | Fuel Selector | BOTH |
| 11 | Elevator Trim | TAKEOFF |
| 12 | Throttle | 1800 RPM |
| 13 | Left Magneto | <150 RPM DROP |
| 14 | Right Magneto | <150 RPM DROP |
| 15 | Magneto Differential | <50 RPM Difference |
| 16 | Suction Gauge | IN GREEN |
| 17 | Ammeter | NO DISCHARGE |
| 18 | Annunciator Panel | CLEAR |
| 19 | Throttle | FULL OUT |
| 20 | Throttle | 1000 RPM/ FRICTION |
| 21 | Radio/ Avionics/ Trans | SET |
| 21 | Autopilot | OFF |
| 22 | Wing Flaps | SET for Takeoff |
| 23 | Windows | SECURE |
| 24 | Taxi | ANNOUNCE |

TAKEOFF

- | | | |
|---|---------------|----------------------------|
| 1 | Lights | STROBE/LAND/NAV ON |
| 2 | Camera | TRANSP- ALTITUDE |
| 3 | Action | FULL RICH/ THROTTLE |
| 4 | Rotate | 55 KIAS |
| 5 | Climb Out | 70-80 KIAS |

ENROUTE CLIMB

- | | | |
|---|----------|-------------------|
| 1 | Airspeed | 70-85 KIAS |
| 2 | Throttle | FULL |
| 3 | Mixture | RICH |

CRUISE

- | | | |
|---|--------------------|------------------------------|
| 1 | Airspeed | 2000-2400 RPM <80% |
| 2 | Elevator Trim | ADJUST |
| 3 | Mixture | LEAN for 9-10 GPH |
| 4 | Landing/Taxi Light | OFF |

DESCENT

- | | | |
|---|---------------|-----------------------------|
| 1 | Power | (1500-2000 RPM) |
| 2 | Mixture | ADJUST for smooth op |
| 3 | Fuel Selector | BOTH |

BEFORE LANDING

- | | | |
|---|------------------|------------------------|
| 1 | Seatbacks/ belts | UPRIGHT/ SECURE |
| 2 | Fuel Selector | BOTH |
| 3 | Mixture | RICH |
| 4 | Land/Taxi Light | ON |
| 5 | Autopilot | OFF |

AFTER LANDING

- | | | |
|---|--------------------|----------------------|
| 1 | Runway | CLEAR ACTIVE |
| 2 | Radio Call | TAXI POSITION |
| 3 | Flaps | UP |
| 4 | Transponder | STBY |
| 5 | Land/Strobe Lights | OFF |

SECURING AIRPLANE

- | | | |
|----|---------------|------------------------|
| 1 | Avionics | OFF |
| 2 | Mixture | IDLE CUT OFF |
| 3 | Ignition | OFF KEY ON DASH |
| 4 | Master | OFF |
| 5 | Parking Brake | SET |
| 6 | Beacon/Taxi | OFF |
| 7 | Control Lock | INSERT |
| 8 | Fuel Selector | LEFT or RIGHT |
| 9 | Hobbs/ Tach | RECORD |
| 10 | Headset | OFF/ BAG |
| 11 | Ties/ Chock | SECURE |



| CHAP | PGS | DESCRIPTION |
|------|----------|--|
| APT | APT-1-6 | Published airport directory |
| VOR | VOR-1,2 | Published VOR directory |
| NDB | NDB-1,2 | Published NDB directory |
| INT | INT-1,2 | Published intersection directory |
| USR | USR-0-3 | User defined waypoints |
| ACT | ** | Active waypoint information (D> included) |
| NAV | NAV-1-4 | Navigation data (page 4 is map) |
| FPL | FPL-0-25 | Flight plans active and stored |
| CAL | CAL-1-8 | Calculations: distance, time, fuel, air data |
| SET | SET-1-11 | Setup: position, date/time, updates |
| OTH | OTH-1-6 | Deleting user waypoints, status, remarks |

GPS DIRECT

- Press the **Direct-To** button
- Use the inner and outer knobs to enter ICAO and **Press ENT**
- The display screen will show the city, state and airport information. **Press ENT and NAV-1 will display**

FLIGHT PLAN

- Change chapter to FPL** with outer knob
- Choose a Flight Plan with inner knob other than FPL-0 (choose blank if available)
- Press CRSR**
- Use inner knob to select the letters of the ICAO or NDB or VOR. Outer knob moves cursor left to right
- When the 1st waypoint is entered **press ENT x2**
- Use the same procedure for the rest of the waypoints
- Click CRSR to turn off cursor** function
- Find the FLP you created w/ the inner/outer knobs**
- Press CRSR** and move to "Use" or "Use Inverted"
- Press ENT** the FLP entered will be displayed as FLP-0 or active flight plan



EMERGENCY PROCEDURES

CESSNA 172-R

Emergency Freq: 121.5

EMERGENCY

ENGINE FAILURE

AFTER TAKEOFF

- 1 Fuel Selector **BOTH**
 - 2 Mixture **RICH**
- IF ENGINE FAILS TO START
- 3 Airspeed **65 KTS**
 - 4 Mixture **CUTOFF**
 - 5 Fuel Shutoff Valve **OFF (Out)**
 - 6 Ignition Switch **OFF**
 - 7 Master Switch **OFF**

DURING FLIGHT

- 1 Airspeed **65 KTS**
- FLY THE AIRPLANE
- 2 Fuel Shutoff Valve **ON (IN)**
 - 3 Fuel Selector Valve **BOTH**
 - 4 Auxiliary Fuel Pump **ON**
 - 5 Mixture **RICH**
 - 6 Ignition Switch **BOTH**
- SEE EMERGENCY LANDING W/O POWER

ALTERNATOR

- 1 Avionics Power Switch **OFF**
 - 2 Alternator Circuit Breaker **CHECK IN**
 - 3 Master Switch **OFF**
 - 4 Master Switch **ON**
 - 5 Low Voltage Light **CHECK OFF**
 - 6 Avionics Power Switch **ON**
- IF LOW VOLTAGE ON AGAIN
- 7 Alternator **OFF**
 - 8 Nonessential Electrical Equip **OFF**
 - 9 LAND AS SOON AS POSSIBLE

FIRES

DURING START ON GROUND

- 1 Cranking **CONTINUE**
If Engine Fails to Start
- 2 Throttle **FULL OPEN**
- 3 Mixture **CUTOFF**
- 4 Master Switch **OFF**
- 5 Ignition Switch **OFF**
- 6 Fuel Shutoff Valve **OFF (Pull Out)**
- 7 Auxiliary Fuel Pump **OFF**

ENGINE DURING FLIGHT

- 1 Mixture **CUTOFF**
- 2 Fuel Shutoff Valve **OFF (Pull Out)**
- 3 Auxiliary Fuel Pump **OFF**
- 4 Master Switch **OFF**
- 5 Cabin Heat & Air **OFF**
- 6 Increase Airspeed **BLOW OUT**
- 7 Forced Landing **EXECUTE**

ELECTRICAL IN FLIGHT

- 1 Master Switch **OFF**
- 2 Avionics **OFF**
- 3 All Other Switches **OFF**
- 4 Cabin Heat & Air **OFF/CLOSE**

AIRSPEEDS

EMERGENCY OPERATIONS

- 1 Engine Failure After Takeoff **65 KTS**
- 2 Maneuvering Speed
 - 2450 lbs **99 KTS**
 - 2100 lbs **92 KTS**
 - 1600 lbs **82 KTS**
- 3 Maximum Glide **65 KTS**
- 4 Landing without Power
 - Flaps UP **65 KTS**
 - Flaps DOWN **60 KTS**

LANDING/ COM LOSS

LANDING W/O POWER

- 1 Airspeed **65 KTS/ 60 KTS FLAPS**
- 2 Mixture **CUTOFF**
- 3 Fuel Shutoff **OFF (Pull Out)**
- 4 Ignition Switch **OFF**
- 5 Wing Flaps **AS REQUIRED**
- 6 Master Switch **OFF**
- 7 Seatbelts **TIGHT**
- 8 Door **UNLATCH**
- 9 Touchdown **SLIGHTLY TAIL LOW**
- 10 Brakes **APPLY HEAVILY**

COMMUNICATION LOSS

- 1 Frequency **CHECK**
- 2 Volume/Squelch **CHECK**
- 3 Speaker/Phones Switch **CHECK SELECTION**
- 4 Headset Jacks **RESET**
- 5 O/H Speaker-Hand Mike **TRY BOTH**
- 6 Circuit Breakers **CHECK**
- 7 Other Radio **Use if available**
- 8 VOR Frequency **MONITOR**
- 9 Squawk **7600**
- 10 Tower Light Signals **OBSERVE**

LIGHT GUN SIGNALS

| Signal | Ground | In Flight |
|---------------|--------------------------|--------------------|
| Steady Green | Cleared for T/O | Cleared to land |
| Flash Green | Cleared for Taxi | Return for landing |
| Steady Red | Stop | Continue circling |
| Flash Red | Taxi clear of R/W | Unsafe don't land |
| Flash White | Return to starting point | |
| Alt Red/Green | Extreme Caution | Extreme Caution |