

## C172R & (SP) Checklist

Vne 163 Vno 129  
Va 99 – 82 (105-90) Vfe 110 & 85  
Vs 44 (48) Vso 33 (40)  
Vx 62 Vy 74  
Vr 55 Vg 65 (68)

Usable Fuel: 53 gallons

Max T/O Weight: 2450 (2550)

### PREFLIGHT

#### 1. Cabin

AROW Docs – On Board  
Dispatch – Correct  
Control Wheel Lock – Remove  
Flight Controls – Free & Correct  
Ignition Switch – Off  
Circuit Breakers – Check In  
Avionics Master – Off  
Master Switch – On  
Fuel Qty – Check  
Flaps – Down  
Annunciator Panel – Test  
Lights – Check As Required  
Master Switch – Off  
Alternate Static – Check  
Trim – Take Off

#### 2. Empennage

Baggage Door – Locked & Secure  
Antennas – Secure  
Inspection Panels – Secure  
Control Surfaces – Good Cond & Moves Freely  
Rudder Gust – Remove  
Tie Down – Remove  
Trim Tab – Secure & Correct

#### 3. Right Wing

Flap – Check  
Aileron – Good Cond. & Moves Freely  
Lights – Check  
Wing Tip – Secure  
Leading Edge – Smooth  
Air Inlet – Clear  
Tie Down – Remove  
Tire – Proper Inflation & Good Tread  
Brake Pads & Rotor – Check

Tank Sump – Drain & Check (5)

Fuel Qty. – Check

Fuel Cap – Secure

Inspection Covers – Secure

Window – Clear

#### 4. Nose

Engine Oil – Between 5 & 8

Strainer Drain – Check (3)

Propeller & Spinner – Check

Alternator Belt – Check

Air Filter & Intakes – No Blockages

Nose Wheel Strut – Good Condition

Nose Tire – Proper Inflation & Good Tread

Wheel Chalk – Remove

Static Port – Clear Of Blockages

Windshield – Clear

#### 5. Left Wing

Air Inlet – Clear

Pitot Tube – Remove Cover & Clear

Stall Warning – Free & Clear

Tie Down – Remove

Tank Vent – Check

Tank Sump – Drain & Check (5)

Fuel Qty. – Check

Fuel Cap – Secure

Inspection Covers – Secure

Leading Edge – Check

Landing & Taxi Lights – Check

Wing Tip – Secure

Lights – Check

Aileron – Good Cond. & Moves Freely

Flap – Check

Tire – Proper Inflation & Good Tread

Brake Pads & Rotor – Check

Window – Clear

### START & TAXI

#### 1. Before Starting Engine

Preflight – Complete

Seats, Safety Restraints – Brief & Secure

Fuel Selector – Both

Fuel Shutoff – On

Electrical Equipment – Off

#### 2. Starting Engine

Throttle – Open ½ Inch

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Mixture – Cutoff

Master Switch – On

Beacon – On

Fuel Pump – On

Mixture – Full Rich For 3 Seconds

Check Fuel Flow Then Idle-Cutoff →

Fuel Pump – Off

Area – Clear

Brakes – Hold

Ignition Switch – Start

Mixture – Rich On Start

Throttle – Adjust <1000 Rpm

Oil Pressure – Green

Oil Temp – Green

#### 2.5 Hot Start

Throttle – Open ¼ INCH

Mixture – Cutoff

Master Switch – On

Alternator – On

Beacon – On

Area – Clear

Ignition Switch – Start

Mixture – Rich On Start

Throttle – Adjust <1000 Rpm

Oil Pressure – Green

Oil Temp – Green

\*If Engine Does Not Start Then Open Throttle ½

#### 3. Taxi

Mixture – Lean For Taxi ~ 1 Inch

Flaps – Up

Avionics – On & Set

Transponder – Standby & 1200

Wx – Get

Lights – As Required

Brakes – Test

Clearance – Get

#### 3.5 While Taxiing

Flight Instruments – Check & Set

### TAKEOFF

#### 1. Run Up

Aircraft – Into Wind & Clear Of Traffic

Nose Wheel – Straight

**For reference only. The pilot is at all times responsible for operating the aircraft in accordance with the manufacturer's limitations as published in the Pilot's Operating Handbook.**



Wait For Engine To Stop  
Ignition Switch – Off  
Battery Master – Off  
Beacon – Off

## 2. Securing

Control Wheel Lock – Install  
Dispatch – Get Hobbs & Tach & Key  
Tie Downs – Secure  
Ruder Gust Lock – Install

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Revision 2

## EMERGENCY C172

### Engine Failures

#### 1. Take Off Roll

- Throttle – Idle
- Brakes – Apply
- Flaps – Up
- Mixture – Cutoff
- Ignition Switch – Off
- Master Switch – Off

#### 2. After Rotation

- Airspeed – 65 KIAS (Flaps up)  
60 KIAS (Flaps down)
- Mixture – Cutoff
- Fuel Shutoff – Off
- Ignition – Off
- Flaps – As Required
- Master – Off
- Door – Open & Jammed
- Land – Straight or Within 45°

#### 3. During Flight

- Airspeed – 62 (68) KIAS
- Fuel Shutoff Valve – On (push in)
- Fuel Selector – Both
- Aux Fuel Pump – On
- Mixture – Rich
- Ignition – Both or Start\* (if prop stopped)
- Aux Fuel Pump – Off\* (if no fuel flow turn on)

## FORCED LANDINGS

#### 1. No Engine

- Seats & Seat Belts – Secure
- Airspeed – 65 KIAS (Flaps up)  
60 KIAS (Flaps down)
- Mixture – Cutoff
- Fuel Valve – Off
- Ignition – Off
- Flaps – As required
- Master – Off (when landing assured)
- Doors – Open & Jammed
- Touchdown – Slightly tail low
- Brakes – Apply heavily

#### 2. With Engine

- Seats & Seat Belts – Secure
- Airspeed – 60 KIAS

Flaps – 20°

Mixture – Cutoff

Fuel Valve – Off

Ignition – Off

Flaps – As required

Master – Off (when landing assured)

Doors – Open & Jammed

Touchdown – Slightly tail low

Brakes – Apply heavily

#### 3. Ditching

- Radio – 121.5 & Report
- Transponder 7700
- Seats & Seatbelts – Secure
- Heavy Objects – Secure
- Flaps – 20° – 30°
- Power – 300 ft/min @ 55KIAS
- No Power – Flaps 10° – 60 KIAS  
– No Flaps – 65 KIAS

#### Approach

- High Winds, Heavy Seas – Into Wnd
- Light Winds, Heavy Swells –  
Parallel Swells

Doors – Unlatch & Jamb

ELT – Activate

## FIRES

#### 1. Engine During Start

Ignition – Continue Cranking  
If Start

Power – 1700 RPM

Engine – Shutdown

If No Start

Throttle – Full

Mixture – Cutoff

Fuel Shutoff – Off

Fuel Pump – Off

Ignition – Off

Fire Extinguisher – Get

Master – Off

Fire – Extinguish

#### 2. Engine In Flight

Mixture – Cutoff

Fuel Valve – Off

Fuel Pump – Off

Master – Off

Cabin Heat & Air – Off

Airspeed – 100 KIAS up to Vno

Forced Landing – Execute

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#### 3. Electrical In Flight

- Master – Off
- Vents & Cabin Air – Off
- Fire Extinguisher – Use If Needed
- Avionics – Off
- Electrical Switches – Off
- Fire Out – Ventilate Cabin
- Battery Master – On
- Slowly Turn On Necessary Devices
- Land – ASAP

#### 4. Wing

- Lights – Off
- Pitot Heat – Off
- Slip – Keep Flames Away From Tanks

## ICING

- Pitot Heat – On
- Turn Back Or Change Altitude
- Cabin Heat – On
- Watch Engine Indications
- Land ASAP
- Higher Stall Speed
- No Flaps
- Use Forward Slip For Visibility
- Airspeed – 65 – 75 KIAS
- Land Level

## STATIC BLOCKAGE

- Alt Static Source – Pull On
- Airspeed – Calibration Section 5

## FLAT TIRE

#### 1. Main

- Approach – Normal
- Flaps – 30°
- Touchdown – Good Tire First
- Directional Control – Good Tire Brake

#### 2. Nose

- Approach – Normal

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Flaps – As Needed  
Touchdown – Mains  
Hold Nose Off

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Revision 1

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