

CESSNA 172S SKYHAWK NORMAL CHECKLISTS

PREFLIGHT INSPECTION

PREFLIGHT–Cabin

- A-R-O-W Papers Checked
- POH.....Available in Airplane
- Control Lock Remove
- Ignition Switch Off
- Avionics Master Switch Off
- Master Switch..... On
- Fuel Quantity Indicators Check Quantity
- Avionics Master Switch On
- Avionics Cooling Fan Check Audibly for Operation
- Avionics Master Switch Off
- Static Pressure Alternate Source Valve..... Off
- Annunciator Panel Switch Hold in Test then Release
- Fuel Selector Valve Both
- Fuel Shutoff Valve..... On
- Flaps Extend
- Pitot Heat On & check tube warm within 30 secs.
- Master Switch..... Off
- Baggage Door Check, Lock with key
- Autopilot Static Source Opening Check for blockage

PREFLIGHT–Empennage

- Rudder Gust Lock Remove
- Tail Tiedown Check
- Control Surfaces Check

PREFLIGHT–Right Wing

- Aileron Check
- Wing Tiedown..... Remove
- Main Wheel Tire & Brake Pads Check
- Fuel Sample Obtain
- Fuel Quantity Check Visually
- Fuel Filler Cap..... Secure

PREFLIGHT–Nose

- Engine Oil Level Check (> 6 qts)
- Fuel Strainer..... Check
- Propeller and Spinner Check
- Landing Light..... Check
- Nose Wheel Strut and Tire..... Check
- Flight Instrument Static Source..... Check
- Aileron Check

PREFLIGHT–Left Wing

- Main Wheel Tire & Brake Pads Check
- Fuel Sample Obtain
- Fuel Quantity Check Visually
- Fuel Filler Cap..... Secure
- Pitot Tube Cover Remove
- Fuel Tank Vent Opening Check
- Stall Warning Opening Check
- Wing Tiedown Remove

BEFORE START CHECKLIST

- Preflight & Passenger Briefing Complete
- Cell Phones Off
- Seats / Belts Adjusted & Locked
- Circuit Breakers Check In
- Electrical Equipment Off
- Avionics Master Switch Off
- Fuel Selector Valve..... Both
- Fuel Shutoff Valve..... On (push full in)
- Avionics Circuit Breakers Check In
- Brakes Hold

STARTING ENGINE CHECKLIST

- Throttle Open 1/4 Inch
- Mixture Idle Cutoff
- Propeller Area CLEAR
- Master Switch..... On
- Flashing Beacon On
- If Engine is Cold:**
 - Auxiliary Fuel Pump Switch On
 - Mixture Set to Full Rich then Idle Cutoff
 - Auxiliary Fuel Pump Switch Off
- Ignition Switch Start
- Mixture Advance to Rich when engine starts
- Throttle 1,000 RPM Max
- Oil Pressure Check
- Mixture Lean For Taxi

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AFTER START CHECKLIST

- Wing Flaps Up
- Avionics Master Switch On
- ATIS Obtain
- Altimeter Set
- Heading Indicator Set
- Transponder STBY

TAXI CHECKLIST

- Brakes Test
- Turn Coordinator, Attitude Indicator, HI Operating

BEFORE TAKEOFF CHECKLIST

- Parking Brake Set
- Doors and Windows Closed & Locked
- Flight Instruments Set & Checked
- Flight Controls Free & Correct
- Fuel Quantity Check
- Fuel Selector Both
- Elevator and Rudder Trim Set
- Mixture Rich
- Throttle 1800 RPM
 - Magnetos Check (150 RPM Max Drop)
 - Vacuum Gauge Check
 - Engine Instruments / Ammeter Check
 - Throttle 1000 RPM
- Throttle Friction Lock Adjust
- Radios Set
- NAV/GPS Switch Set
- Autopilot Off
- Manual Electric Trim Check
- Elevator Trim SET for takeoff
- Parking Brakes Release

-----CLEARED FOR TAKEOFF-----

- Departure Time Record
- Instruments Check
- Transponder ALT
- Landing Light On
- Strobe Lights On

NORMAL TAKEOFF

- Wing Flaps 0° - 10°
- Throttle Full
- Mixture Rich
- Elevator Control Lift nose wheel at 55 KIAS
- Climb Speed 70-80 KIAS

SHORT FIELD TAKEOFF

- Wing Flaps 10°
- Brakes Apply
- Throttle Full
- Mixture Rich
- Brakes Release
- Elevator Control Slightly Tail Low
- Climb Speed 56 KIAS until obstacles cleared

AFTER TAKEOFF CHECKLIST

- Oil Pressure Check
- Flaps Retract
- Aircraft Lighting As Required

ENROUTE CLIMB

- Airspeed 70-85 KIAS
- Throttle Full
- Mixture Rich (Lean above 3000' MSL)

CRUISE

- Power Set per AFM
- Elevator Trim Adjust
- Mixture Lean above 3000' MSL
- Landing Light Off

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DESCENT CHECKLIST

- Seats & Belts Secure
- Fuel Selector Both
- Mixture Enrich
- Engine Instruments Check
- Avionics Set
- NAV/GPS Switch Set
- Aircraft Lights As Required
- Pitot Heat As Required

BEFORE LANDING CHECKLIST

- GUMPS check Complete
- Fuel Selector Both
- Landing Light On
- Seat Belts / Harnesses On
- Flaps As Required
- Mixture Rich (Below 3000' MSL)
- Autopilot Off
- Carburetor Heat As Required
- Normal Approach 60-70 KIAS
- Short / Soft Field Approach 55 KIAS

GO AROUND

- Power Full Throttle
- Wing Flaps 10°
- Wing Flaps Up
- ATC Advise

AFTER LANDING CHECKLIST

- Exterior Lights As Required
- Pitot Heat Off
- Mixture Lean for taxi
- Wing Flaps Up
- Transponder STBY
- Elevator Trim Takeoff

PARKING CHECKLIST

- Avionics Master Off
- Panel Lights Off
- Mixture Idle Cutoff
- Master Switch Off
- Ignition Switch Off
- Cabin Air Closed
- Hobbs / Tach Time Record

SECURING AIRCRAFT CHECKLIST

- Master Switch Off
- Electrical Equipment Off
- Avionics Master Switch Off
- Wing Flaps Up
- Air Inlet Closed on both sides
- Control Lock Installed
- Fuel Selector Valve LEFT or RIGHT
- Garbage Removed from cabin
- Cabin Door Locked
- Cargo Door Locked
- Aircraft Covers & Intake Covers Installed
- Tiedowns Secured
- Cell Phones On

CESSNA 172S SKYHAWK EMERGENCY CHECKLIST

*FLY THE AIRPLANE – SILENCE THE WARNING –
CONFIRM THE EMERGENCY*

ENGINE FAILURE DURING TAKEOFF

- Throttle Idle
- Brakes Apply
- Wing Flaps Retract
- Mixture Idle Cutoff
- Ignition Switch Off
- ATC Advise

ENGINE FAILURE AFTER TAKEOFF

- Airspeed 70 (Flaps Up)
..... 65 (Flaps Down)
- Mixture Idle Cutoff
- Fuel Shutoff Valve OFF (pull full out)
- Ignition Switch Off
- Wing Flaps As Required
- ATC Advise
- Master Switch Off

ENGINE FAILURE IN FLIGHT

- Airspeed 68 KTS
- Fuel Shutoff Valve ON (push full in)
- Fuel Selector Valve Both
- Auxiliary Fuel Pump Switch On
- Mixture Rich
- Ignition Switch BOTH (or START)
- Auxiliary Fuel Pump Switch Off
- ATC Advise
- Transponder 7700
- Landing Site Determine

LANDING WITHOUT ENGINE POWER

- Airspeed 70 KIAS (Flaps Up)
..... 65 KIAS (Flaps Down)
 - Mixture Idle Cutoff
 - Fuel Shutoff Valve OFF (pull full out)
 - Ignition Switch Off
 - Wing Flaps As Required
- Below 500 Feet:**
- Master Switch Off
 - Doors Unlatch
 - Touchdown Slightly Tail Low

FLIGHT INTO ICING CONDITIONS

- Pitot Heat On
- Cabin Heat On
- Direction and / or Altitude Change
- ATC Advise

ENGINE FIRE

On Ground:

- Cranking Continue

If Engine Starts:

- Power 1800 RPM
- Engine Shutdown & Inspect

If engine fails to start:

- Throttle Full Open
- Mixture Idle Cut-Off
- Cranking Continue
- Fuel Shutoff Valve OFF (pull full out)
- Auxiliary Fuel Pump Switch OFF
- Fire Extinguisher Activate
- Engine Secure
 - Master Switch Off
 - Ignition Switch Off

In Flight :

- ATC Advise
- Mixture Idle Cutoff
- Fuel Shutoff Valve Pull Out (OFF)
- Auxiliary Fuel Pump Switch Off
- Master Switch Off
- Cabin Heat and Air Off
- Airspeed 100 KIAS
- Accomplish LANDING WITHOUT ENGINE

ELECTRICAL FIRE

- Master Switch Off
- Vents / Cabin Air / Heat Closed
- Fire Extinguisher Activate
- All Individual Electric Switches Off

If fire appears out and electrics needed:

- Master Switch On
- Circuit Breakers Check
- Electrical Switches On 1 at a time
- ATC Advise

AIRSPEEDS FOR EMERGENCY OPS

Engine Failure After Takeoff:

- Wing Flaps Up 70 KIAS
- Wing Flaps Down 65 KIAS

Maneuvering Speed:

- 2550 Lbs 105 KIAS
- 2200 Lbs 98 KIAS
- 1900 Lbs 90 KIAS

Maximum Glide 68 KIAS

Precautionary Landing with Engine 65 KIAS

Landing Without Engine Power:

- Wing Flaps Up 70 KIAS
- Wing Flaps Down 65 KIAS