

Cessna Skyhawk 172K (180hp) Checklist

PREFLIGHT (Cabin)

- 1 AROW DocumentsOn Board
- 2 Control Wheel LockRemove
- 3 Ignition/AvionicsOff
- 4 Master SwitchOn
- 5 Fuel Quantity Indicators..Check
- 6 FlapsExtend
- 7 Master SwitchOff

PREFLIGHT (External)

- 1 Baggage doorSecure
- 2 Flap/Aileron/RudderCheck
- 3 Fuel Quantity (both).....Check
- 4 Fuel Tank Sump (both)...Drain
- 5 Wheel Tire/Brake/Strut...Check
- 6 Oil Level6-8 qts
- 7 Fuel Strainer.....Drain
- 8 Alternator BeltCheck
- 9 Propeller & SpinnerCheck
- 10 Landing Light.....Check
- 11 Air Filter.....Check
- 12 Static Source.....Check
- 13 Visual InspectionComplete
- 14 Debris Around Aircraft...Remove
- 15 Tie-DownsRemove

ENGINE START

- 1 Preflight Inspection.....Complete
- 2 PassengersBriefed
- 3 Seats, Belts, Harnesses..Adjust
- 4 Avionics & ElectricalOff
- 5 Circuit Breakers.....In
- 6 Carburetor Heat.....Cold
- 7 MixtureRich
- 8 Fuel Selector ValveBoth
- 9 Prime (2 to 6 strokes)As Required
- 10 Beacon lightOn
- 11 Master Switch.....On
- 12 Throttle (1/2 inch)Open
- 13 Brakes.....Hold
- 14 Propeller AreaClear
- 15 Ignition SwitchStart
- 16 Throttle1000 RPM
- 17 Oil Pressure (Green)Check
- 18 FlapsRetract
- 19 Transponder.....Standby
- 20 Radio Master.....On
- 21 ATIS/AWOS/ASOSObtain
- 22 Taxi ClearanceObtain
- 23 Brakes.....Test

TAXIING

- 1 Brakes/InstrumentsCheck
- 2 X-wind Taxi-Actions.....As Required

FIRE DURING START

- 1 CrankingContinue
- If Starts:**
- 2 Power1700 RPM
 - 3 Engine.....Shutdown
- If fails to start:**
- 4 Throttle.....Full Open
 - 5 MixtureCut-off
 - 6 CrankingContinue
 - 7 Fire Extinguisher.....Obtain
 - 8 Engine.....Secure
 - 9 Master SwitchOff
 - 10 Magneto SwitchOff
 - 11 Fuel Selector.....Off
 - 12 FireExtinguish

RUN UP

- 1 Parking Brake/BrakesHold
 - 2 Cabin Doors/Windows....Closed
 - 3 Flight Controls.....Free
 - 4 Flight InstrumentsSet
 - 5 Fuel Selector ValveBoth
 - 6 MixtureRich
 - 7 Elevator TrimSet
- C
- I
- G
- A
- R
- S
- 8 Throttle.....1700 RPM
 - 9 Magnetos
(125 max/ 50 diff Check
 - 10 Carburetor Heat Check
 - 11 Ammeter & Suction Check
 - 12 Throttle.....1000 RPM
 - 13 Throttle Friction Lock Adjust
 - 14 Engine Instruments Check
 - 15 Radios & Avionics Set
 - 16 Lights As Req.
 - 17 Transponder ALT
 - 18 Brakes.....Release

AFTER LANDING

- 1 Lights (Strobe/Landing)..Off
- 2 Carburetor Heat Off
- 3 Mixtures Rich
- 4 Wing Flaps.....Retract
- 5 Transponder Standby
- 6 Clearance Obtain
- 7 Flight Plan.....Close

SECURING THE PLANE

- 1 Brakes.....Hold
- 2 Radio Master Off
- 3 Electrical Equipment Off
- 4 Mixture Idle Cut-Off
- 5 Magnetos Off
- 6 Master Switch Off
- 7 Control Lock.....Install
- 8 Tie-Down Complete

C172K

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C172K

NORMAL TAKEOFF

- 1 Wing FlapsUp
- 2 Carburetor Heat Cold
- 3 Throttle Full
- 4 Engine Instruments Green
- 5 Airspeed Alive - Rotate...68 MPH
- 6 Climb Airspeed – V_y.....82 MPH
- 7 Cruise Climb.....85 MPH

SHORT FIELD TAKEOFF

- 1 Wing FlapsUp
- 2 Carburetor Heat Cold
- 3 Brakes Hold
- 4 Throttle Open
- 5 Mixture(Lean >3K alt.)
- 6 Engine Instruments Green
- 7 Brakes.....Release
- 8 Airspeed Alive - Rotate...60 MPH
- 9 Pitch for.....68 MPH
- 10 Above Obstacle.....80-90 MPH

CLIMB

- 1 Best rate.....82 MPH
- 2 Best angle68 MPH
- 3 Cruise Climb.....80-90 MPH
- 4 Landing light.....Off
- 5 Flight Plan Open
- 6 Flight FollowingRequest

CRUISE

- 1 Power 2200-2700 RPM ..Set
- 2 Elevator Trim.....Set
- 3 MixtureLean
- 4 Recheck landing lightOff
- 5 ChecklistFlip

DESCENT

- 1 MixtureRich
- 2 Carburetor HeatAs Required
- 3 Power.....As Required
- 4 MagnetosBoth
- 5 PrimerIn and Lock

PRE-LANDING

- 1 ATIS/AWOS/ASOSObtain
- 2 Flight FollowingCancel
- 3 Flight PlanClose
- 4 Seats, Belts, Harnesses .Adjust
- 5 Carburetor HeatOn
- 6 MixtureRich
- 7 Gas Selector Valve.....Both
- 8 Systems (Land Light)On
- Air Cond./AutopilotOff

fpm	mph	flap	RPM
0	min	30°	1700
0	70	20°	1800
0	100	0°	2100

fpm	mph	flap	RPM
500	100	0°	1800
500	70	20°	1100

NORMAL LANDING

- 1 Airspeed 70-80 MPH
- 2 Wing Flaps..... As Required
- 3 Final Approach/30°Flps.. 65-75 MPH

SHORT FIELD LANDING

- 1 Airspeed 70-80 MPH
- 2 Wing Flaps..... Full - 30°
- 3 Airspeed 70 MPH
- 4 Power Reduce Idle

BALKED LANDING

- 1 Throttle Full
- 2 Carburetor Heat Cold
- 3 Wing Flaps..... 20° Immediate
- 4 Climb Airspeed 68 MPH
- 5 Wing Flaps to clear obs.. 10°
- 6 Wing Flaps after clear Retract
- 7 Climb Airspeed 80-90 MPH

ENGINE FAILURE DURING TAKEOFF RUN

- 1 Throttle Idle
- 2 Brakes Apply
- 3 Wing Flaps..... Retract
- 4 Mixture Cut-off
- 5 Magnetos Off
- 6 Master Switch Off

ENGINE FAILURE IMMEDIATELY AFTER TAKEOFF

- 1 Airspeed 80 MPH (No flaps)
..... 75 MPH (flaps)
- 2 Mixture Cut-off
- 3 Fuel Selector..... Off
- 4 Magnetos Off
- 5 Wing Flaps..... As req.
- 6 Master Switch Off

ENGINE FAILURE During Flight

- 1 Airspeed 80 MPH
- 2 Best Field to Land Identify
- 3 Primer Locked
- 4 Magnetos Both
- 5 Master Switch On
- 6 Carburetor Heat On
- 7 Mixture Rich
- 8 Fuel Selector Valve..... Both
- 9 Prop Stopped..... Start

V-SPEEDS

(V _A) Maneuvering Speed.....	121 MPH
(V _{FE}) Max Flap Extended	100 MPH
(V _{NO}) Max Cruising.....	145 MPH
(V _{NE}) Never Exceed	182 MPH
(V _S) Stall Speed (normal)	64 MPH
(V _{SO}) Stall Speed (landing)	56 MPH
(V _X) Best Angle of Climb	68-74 MPH
(V _Y) Best Rate of Climb.....	82-79 MPH
(L/D _{MAX}) Best Glide Speed	80 MPH

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FORCED LANDING w/ POWER

- 1 Wing Flaps20°
- 2 Airspeed.....70 MPH
- 3 Selected FieldFly Over
- 4 Avionics/ElectricalOff
- 5 Wing Flaps30°
- 6 Airspeed.....70 MPH
- 7 Master Switch.....Off
- 8 Doors before landing.....Unlatch
- 9 Touchdown.....Tail low
- 10 Ignition Switch.....Off
- 11 Brakes Apply.....Heavy

FORCED LANDING w/o POWER

- 1 Airspeed.....80 MPH (No flaps)
.....75 MPH (Full flaps)
- 3 Radio Call121.5 MHZ
- 4 Transponder.....7700
- 5 Mixture Idle.....Cut-Off
- 6 Fuel Selector ValveOff
- 7 Ignition Switch.....Off
- 8 Wing Flaps30° recom.
- 9 Master Switch.....Off
- 10 Doors before landing.....Unlatch
- 11 Touchdown Tail-LowMains 1st

DITCHING

- 1 Transmit MAYDAY121.5 MHz
- 2 Squawk7700
- 3 Heavy baggageJettison
- 4 Water land (light wind)....Parallel to swells
- 5 Power (300ft/min).....65 MPH
- 6 Doors before landing.....Unlatch
- 7 Touchdown.....Level

ENGINE FIRE IN FLIGHT

- 1 MixtureCut-off
- 2 Fuel Selector.....Off
- 3 Master Switch.....Off
- 4 Cabin Heat and Air.....Off
- 5 Overhead VentsOpen
- 6 Airspeed.....115 MPH
- 7 Forced LandingExecute

CABIN FIRE

- 1 Master Switch.....Off
- 2 Vents/Cabin Air/Heat.....Closed
- 3 Fire ExtinguisherUse
- 4 Land.....ASAP

WING FIRE

- 1 Navigation Light.....Off
- 2 Pitot Heat.....Off
- 3 Strobe LightOff
- 4 Slide Slip flames away from fuel
- 5 Land.....ASAP

ELECTRICAL FIRE IN FLIGHT

- 1 Master SwitchOff
- 2 Radio MasterOff
- 3 All ElectricalOff
- 4 Magnetos.....Both
- 5 Vents/Cabin Air/HeatClosed
- 6 Fire ExtinguisherUse
- 7 CabinVent
- 8 Master SwitchOn
- 9 Circuit BreakersCheck
- 10 Radio SwitchesOff
- 11 Radio MasterOn
- 12 Radio/Electrical.....On
- 13 Vents/Cabin Air/HeatOpen

INADVERTENT ICING

- 1 Pitot HeatOn
- 2 Turn back/Change Altitude
- 3 Cabin Heat.....Open
- 4 ThrottleMax Cruise
- 5 Carburetor HeatApply
- 6 Mixture.....Lean
- 7 No Flap LandingPerform
- 8 Airspeed70-80 MPH

STATIC SOURCE BLOCKAGE

- 1 Alternate Static Source ..On
- 2 Landing Airspeed.....70-80 MPH

AMMETER SHOWS EXCESSIVE RATE OF CHARGE

- 1 AlternatorOff
- 2 Alternator Breaker.....Pull
- 3 Nonessential Electrical...Off
- 4 Land.....ASAP

LOW-VOLTAGE LIGHT ON

- 1 Radio MasterOff
- 2 Alternator Breaker.....Check
- 3 Master SwitchOff(both)
- 4 Master SwitchOn
- 5 Low-Voltage LightCheck
- 6 Radio MasterOn

If Light Still On:

- 7 AlternatorOff
- 8 Nonessential Electrical...Off
- 9 Land.....ASAP

C172 MPH