
Cessna Skyhawk SP

C172S NAVI/NAVII



Checklist

Normal
Emergency
Briefings

Normal Checklist

Cabin

Pitot Tube Cover Remove
 Control Lock Remove
 Papers AROW
 Hobbs/Tach Time Verify
 Maintenance Status Check
 Master Switch On
 Flaps Extend
 Lights Check
 Fuel Check Gauges
 Volts Minimum 22 Volts
 Master Switch Off

Exterior

Fuel Sump
 Oil Check
 Stall Indicator Test

Empennage

Baggage Door Locked
 Autopilot Static Source Check (If Installed)
 Airframe Check
 Control Surfaces Check
 Elevator Trim Tab Check
 Antennas Check

Right Wing

Door Check
 Main Gear/Brake/Wheel Check
 Flap Check
 Aileron Check
 Wingtip Check
 Leading Edge/Strut Check

Nose

- Cowl Check
- Exhaust Check
- Engine Cooling Air Inlets Clear
- Propeller and Spinner Check
- Air Filter Check
- Nose Wheel Strut and Tire Check
- Static Source Opening Check

Left Wing

- Pitot Tube Check
- Fuel Tank Vent Check
- Landing/Taxi Lights Enclosure Check
- Leading Edge/Strut Check
- Wingtip Check
- Aileron Check
- Flap Check
- Main Gear/Brake/Wheel Check
- Door Check

Final Check

- Aircraft Roll Forward
- Fuel Quantity & Quality /Caps / Drains / Vents Confirm
- Stall Indicator - Test Confirm
- Baggage Door Confirm
- Engine / Oil / Belt / Prop / Air Intake/Exhaust Confirm
- Fuselage & Wing Surfaces & Controls Confirm
- Pitot & Static Ports Confirm
- Gear / Tires / Brakes Confirm
- Antennas Confirm
- Ties / Chock Confirm

Before Start

Passenger Brief	Read
Seat Belts	Fastened
Fuel Selector	Both
Fuel Shutoff Valve.....	Pushed In (On)
Alternate Static.....	Checked/Off
Avionics Master	Off
Circuit Breakers	In
Beacon	On
Brakes	Pedal Check
Seat Track/Back	Lock

----- Passenger Briefing -----

Seat belts must be worn during the entire flight. To fasten your seatbelt, pull the belt across your body and insert metal tab into the receiver. To release your seatbelt, press the red button or lift the tab.

In the event of a fire, the fire extinguisher is located between the front two seats. To use, pull the pin, aim at the base of the fire, and using a sweeping motion, pull the trigger. Do not use unless Pilot In Command orders it.

In the event of an emergency, the emergency exits are the doors and windows. To close your door, pull it toward you, and push down on the handle. To open it, lift up on the handle and push out.

To open your window, lift the lever and push out. To close it, pull in and push down on the lever.

The rear windows may be kicked out for an emergency exit.

This is a non-smoking flight.

Please help watch for other air traffic. If you see another aircraft, please call it out.

Engine Starting

Engine Fire During Start Checklist	Brief
Brakes	Hold
Master Switch	On
Prime	Complete
Throttle	1/4"
Prop	Clear
Magnetos	Start
Mixture	Rich on Start
RPM	1000
Oil Pressure	Check
Vacuum/Amps/Volts	Check
Circuit Breakers	Check
Avionics Master	On
Mixture	Ground Lean
Flaps	Up

Line Out

Transponder	Check Code
Controls	Check
Attitude Indicator	Check
Heading Indicator	Check
Autopilot	Check
Annunciator Panel	Check
Radios	Set
ATIS	Obtain
Flight Plan	Program (GPS)
Lights	As Required
Oil Temperature	Green Arc
Transponder	Alt
Taxi Clearance	Obtain (Towered)/CTAF Call (Non-Towered)
Brakes	Test

Runup

Radio..... Tower/CTAF (If completed at end of runway)
 Throttle..... 1800 RPM
 Mags Check..... 150 max/50 diff
 Vacuum..... Check
 Amps/Volts Check
 Oil Pressure & Temperature Check
 Mixture Rich
 Throttle Idle Check (600-800)/Then 2200 RPM
 Mixture Lean for Best Power (Density Alt. Greater Than 3000 MSL)
 Throttle..... 1000 RPM

Pre-Takeoff

Radios Check
 Trim Set
 Flaps.....As Required
 LightsAs Required
 Doors/Windows..... Close
 Abort Plan..... Brief
 Final Clear

----- Abort Briefing -----

Below 1000 ft AGL (specify MSL altitude), land straight ahead making small turns to avoid obstacles.

Above 1000 ft AGL (specify MSL altitude) or after turning crosswind, pitch for best glide, maneuver for best field which may be the airport and execute engine failure during flight checklist.

Climb

Airspeed 85 kts (1000 ft AGL)
Mixture Top of Green (3000 ft MSL)

Cruise

Power Set
Heading Indicator Check
Landing Light Off
----- *if on a cross-country* -----
Mixture Lean for Peak

Descent

Fuel Both
Landing Light On
Seat Belts On

Pre-Landing

Mixture Rich/Best Power
Flaps As Required

After Landing

Flaps Retract
Mixture Ground Lean
Lights As Required

Shutdown

Transponder Company Code
 Throttle 1800 RPM (15-20 seconds)
 Avionics Master Off
 All Electrical Off (Except Beacon)
 Throttle/Mixture 1000 RPM/Full Lean
 ----- *after propeller stops* -----

Magnetos Off
 Master Switch Off

Line In

Push Back Parking Spot
 Propeller Inspect
 Tie Downs Install
 Fuel Selector Left
 Hobbs/Tach Time Record
 Control Lock Install
 Pitot Cover Install

Emergency Checklist

Items in a Dashed Box are immediate action items which should be committed to memory.

Review the Cessna 172S NAVII Skyhawk SP information manual, section 3, to fully understand how and why to use the checklist.

Engine Failure During Takeoff Roll

Throttle.....	Idle
Brakes.....	Apply
Flaps.....	Up
Mixture.....	As Required
Magnetos.....	As Required
Master Switch.....	As Required

Engine Failure Immediate After Takeoff

Airspeed.....	70 (Flaps Up)
.....	65 (Flaps Down)
Flaps.....	Full before T/D
Fuel Shutoff Valve.....	Pull/off
Mixture.....	Full Lean
Master Switch.....	Off

Engine Failure In Flight

Airspeed.....	68 KIAS
Aux Fuel Pump.....	On
Fuel Selector.....	Both
Fuel Shutoff Valve.....	Push/on
Mixture.....	Adjust
Throttle.....	Adjust
Magnetos.....	Check R, L, & Both

----- if no start -----

Emergency Landing Without Power

Aux Fuel Pump.....	Off
Fuel Shutoff Valve.....	Pull/off
Mixture.....	Full Lean
Magnetos.....	Off
Flaps.....	As required- Full before T/D
Master Switch.....	Off
Seat Backs.....	Upright
Seat Belts.....	Secure
Doors.....	Unlatch before Touchdown

Precautionary Landing

Seat Backs Upright
 Seat Belts Secure
 Flaps As required- Full before T/D
 Airspeed 60-65 KIAS
 Doors Unlatch before Touchdown
 Master Switch Off
 Magnetos Off

Engine Fire During Start

Cranking Continue
 ----- *if engine starts* -----
 Power 1800 rpm/30-60 sec
 Mixture Lean
 Magnetos, Master Off
 ----- *if engine does not start* -----
 Throttle Full Open
 Mixture Full Lean
 Cranking Continue (30 sec max)
 Fuel Shutoff Valve Pull/off
 Master Switch Off
 Magnetos Off

Engine Fire In Flight

Fuel Shutoff Valve Pull/off
 Mixture Full Lean
 Aux Fuel Pump Check-off
 Cabin Heat and Air Vents Off
 Airspeed 100 KIAS

Electrical Fire In Flight

Master Switch Off
 Cabin Heat and Air Vents Off
 Fire Extinguisher Activate as Required

----- *after fire is extinguished* -----

Cabin Heat and Air Vents Open
 All Electrical Switches Off
 Circuit Breakers Check (Do not Reset)
 Master Switch On
 Avionics Master On (1 bus at a time)
 Radios & Electrical Equipment On 1 at a time as required to terminate flight

Cabin Fire

Master Switch Off
 Cabin Heat and Air Vents Closed/Off
 Fire Extinguisher Activate as Required

----- *after fire is extinguished* -----

Cabin Heat and Air Vents On

Wing Fire

Exterior Light Switches Off
 Pitot Heat Off

Note

Side slip as required to keep flames away from tank and cabin. Land as soon as possible using flaps only as required.

High Voltage

Alternator Off
 Nonessential Electrical Equipment Off

Low Voltage

- Avionics Master Switch Off
- Alternator Circuit Breaker Check In
- Master Switch Off
- Master Switch On (after 5 minutes)
- Low Voltage Annunciator Check Off
- Avionics Master On
- Voltmeter > 27.5 Volts
- Ammeter Positive
----- *If Low Voltage Annunciator remains on or comes on again* -----
- Alternator Off
- Nonessential Electrical Equipment Off

WNC Aviation Emergency Contact

828-687-7540 Ext 7700

WNC Aviation After-Hours Duty Line

828-687-7540 Ext 55

KAVL ATC Operations

828-684-0421