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# Cessna Skyhawk SP

C172S NAVI/NAVII

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## 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
- Fire Extinguisher ..... Check

**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/Spinner ..... Check
- Air Filter ..... Check
- Nose Wheel/Strut/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 (After Positive Start)  
 Throttle ..... 1000 RPM  
 Oil Pressure..... Check  
 Vacuum (If Installed)/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 (If Installed) ..... Check  
 Amps/Volts ..... Check  
 Oil Pressure & Temperature ..... Check  
 Mixture ..... Rich  
 Throttle Idle ..... Check (600-800 RPM)  
 Mixture (Density Altitude >3000 MSL) ..... 2200 RPM/Lean for Best Power  
 Throttle ..... 1000 RPM

**Pre-Takeoff**

Radios ..... Check  
 Trim ..... Set  
 Flaps ..... As Required  
 Lights ..... As 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 KIAS (1000 ft AGL)  
Mixture ..... Top of Green (3000 ft MSL)

**Cruise**

Power ..... Set  
Heading Indicator ..... Check  
Landing Light ..... Off

----- *If On Cross-Country* -----

Mixture ..... Lean as Required

**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 (20 Seconds)  
 Avionics Master ..... Off  
 All Electrical ..... Off (Except Beacon/Master)  
 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 KIAS (Flaps Up)  
 ..... 65 KIAS (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



**Electrical Fire In Flight**

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

----- *After Fire Is Extinguished* -----

Cabin Heat/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/Air Vents ..... Closed/Off  
 Fire Extinguisher ..... Activate as Required

----- *After Fire Is Extinguished* -----

Cabin Heat/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**