

---

---

# Cessna Skyhawk SP

C172S NAVIII

---

---



## Checklist

Normal  
Emergency  
Briefings

# Normal Checklist

**Cabin**

Pitot Tube Cover ..... Remove  
 Control Lock..... Remove  
 Papers ..... AROW  
 Master Switch..... On  
 Avionics Fans ..... Check  
 Flaps..... Extend  
 Lights ..... Check  
 Fuel ..... Check Gauges  
 Hobbs/Tach Time..... Verify  
 Volts..... Check (22V minimum)  
 Master Switch..... Off  
 Maintenance Status..... Check

**Exterior**

Fuel ..... Sump  
 Oil ..... Check  
 Stall Indicator..... Test

**Empennage**

Baggage Door ..... Locked  
 Autopilot Static Source..... Check  
 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.....	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
STBY BATT Switch .....	Test (10 sec)/Arm
Engine Indicating System.....	Verify (no red x)
E BUS Volts / M BUS Volts .....	Verify (24) / Verify (<1.5)
BATT S Amps / STBY BATT Annunciator.....	Verify (discharge) / Check
Brakes .....	Hold
Master Switch.....	On
Prime .....	Complete
Throttle.....	1/4"
Prop .....	Clear
Magnetos.....	Start
Mixture .....	Rich on Start
RPM .....	1000
Oil Pressure/Vacuum/Amps/Volts .....	Check
Circuit Breakers .....	Check
Avionics Master .....	On
Mixture .....	Ground Lean
Flaps/ Fuel Quantity .....	Up/Set

**Line Out**

Transponder .....	Check Code
Controls .....	Check
Stby Attitude Indicator .....	Check
Heading Indicator .....	Check
Autopilot.....	Check
Annunciators .....	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..... 175 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
- 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 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 ..... 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  
Hobbs/Tach Time ..... Record  
Stby Battery ..... Off

**Line In**

Push Back ..... Parking Spot  
Propeller ..... Inspect  
Tie Downs ..... Install  
Fuel Selector ..... Left  
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 NAVIII 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.....	Retract
Mixture.....	Idle Cutoff
Magnetos.....	Off
Stby Battery Switch.....	Off
Master Switch.....	Off

**Engine Failure Immediate After Takeoff**

Airspeed.....	70 (Flaps Up)
.....	65 (Flaps Down)
Mixture Control.....	Idle Cutoff
Fuel Shutoff Valve.....	Off
Magnetos.....	Off
Wing Flaps.....	As Required
Stby Batt.....	Off
Master Switch.....	Off
Cabin Door.....	Unlatch
Land.....	Straight Ahead

**Engine Failure In Flight**

Airspeed.....	68 KIAS
Fuel Shutoff Valve.....	On
Fuel Selector.....	Both
Fuel Pump.....	On
Mixture.....	Rich
Magnetos.....	Both (Start if propeller is stopped)
Fuel Pump.....	Off

**Emergency Landing Without Power**

Pilot and Passenger Seat Backs .....	Most Upright Position
Seats and Seat Belts.....	Secure
Airspeed.....	70 (Flaps Up)
.....	65 (Flaps Down)
Mixture.....	Idle Cutoff
Fuel Shutoff Valve.....	Off
Magnetos.....	Off
Wing Flaps .....	As Required
Stby Batt .....	Off
Master Switch.....	Off
Doors .....	Unlatch before Touchdown
Touchdown.....	Slightly Tail Low
Brakes .....	Apply Heavily

**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
<i>----- if engine starts -----</i>	
Power .....	1800 rpm(for a few minutes)
Engine .....	Shutdown
<i>----- if engine does not start -----</i>	
Throttle.....	Full
Mixture .....	Idle Cutoff
Magnetos.....	Start (Continue Cranking)
Fuel Shutoff Valve.....	Off
Fuel Pump.....	Off
Magnetos.....	Off
Stby Batt .....	Off
Master Switch.....	Off
Engine .....	Secure
Parking Brake.....	Release
Fire Extinguisher .....	Obtain
Airplane .....	Evacuate
Fire.....	Extinguish
Fire Damage.....	Inspect

**Engine Fire In Flight**

Mixture .....	Idle Cutoff
Fuel Shutoff Valve.....	Off
Fuel Pump.....	Check-off
Master Switch.....	Off
Cabin Vents.....	Open
Cabin HT and Cabin AIR Control Knobs .....	Off
Airspeed.....	100KIAS
Forced Landing .....	Execute

**Electrical Fire In Flight**

Stby Batt .....	Off
Master Switch.....	Off
Cabin Vents.....	Closed
Cabin HT and Cabin AIR Control Knobs .....	Off
Fire Extinguisher .....	Activate
Avionics Switch.....	Off
All Other Switches .....	Off

**Warning**

After the fire extinguisher has been used, make sure that the fire is extinguished before exterior air is used to remove smoke from the cabin.

Cabin Vents.....	Open
Cabin HT and Cabin AIR Control Knobs .....	On

**Note**

If fire has been extinguished and electrical power is necessary for continued flight to nearest suitable airport or landing area.

Circuit Breakers .....	Check (Do not Reset)
Master Switch.....	On
Stby Batt .....	Arm
Avionics Master .....	On (1 bus at a time)

**Cabin Fire**

Stby Batt .....	Off
Master Switch.....	Off
Cabin Vents.....	Closed/Off
Cabin HT and Cabin AIR Control Knobs .....	Off
Fire Extinguisher .....	Activate

**Warning**

After the fire extinguisher has been used, make sure that the fire is extinguished before exterior air is used to remove smoke from the cabin

Cabin Vents.....	Open
Cabin HT and Cabin AIR Control Knobs .....	On

**Note**

Land the airplane as soon as possible to inspect for damage

**Wing Fire**

Land and Taxi Light Switches .....	Off
Nav Light Switch .....	Off
Strobe Light Switch .....	Off
Pitot Heat Switch .....	Off

**Note**

Perform a sideslip to keep the flames away from the fuel tank and cabin. Land as soon as possible using flaps only as required for final approach and touchdown.

**High Voltage**

Master Switch .....	Off
Electrical Load .....	Reduce Immediately
Land .....	As Soon as Practical

**Low Voltage**

Master Switch .....	Off
ALT FIELD Circuit Breaker .....	Check In
Master Switch .....	On
Low Volts Annunciator .....	Check
M Bus Volts .....	Check (27.5V minimum)
M Batt Amps .....	Check Charging
<i>----- If Low Volts Annunciator remains on or comes on again -----</i>	
Master Switch .....	Off
Electrical Load .....	Reduce
Land .....	As Soon as Practical

**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**