

**C172SP GROUND PROCEDURES****DISPATCH**

Weather ..... **BRIEF**  
 W&B ..... **CHECK**  
 Perf. Reqs. .... **CHECK**  
 NOTAMs ..... **CHECK**  
 IMSAFE ..... **CHECK**  
 Charts ..... **PACK**  
 Squawks ..... **CHECK**

**INTERIOR**

Pitot Cover ..... **REMOVE**  
 Papers ..... **AROW**  
 Fuel Selector ..... **BOTH**  
 Fuel Shutoff ..... **IN**  
 Trim ..... **TAKEOFF**  
 Master ..... **ON**  
 Flaps ..... **30°**  
 Fuel Gauges ..... **NOTE**  
 Fuel Annunciators ... **OFF**  
 Annunciators ..... **TEST**  
 Avionics Fan ... **AUDIBLE**  
 Alternate Static .. **CHECK**  
 Int. Lights ..... **CHECK**  
 Ext. Lights ..... **CHECK**  
 Pitot Heat ..... **CHECK**  
 Master ..... **OFF**  
 Hobbs & Tach .. **RECORD**  
 Seat ..... **ADJUST**

**EXTERIOR**

Fuel ..... **QUANTITY**  
 Fuel ..... **QUALITY**  
 Static Port ..... **CLEAR**  
 Leading Edges ... **CHECK**  
 Stall Indicator .... **CLEAR**  
 Fuel Vent ..... **CLEAR**  
 Ailerons ..... **CHECK**  
 Flaps ..... **CHECK**  
 Elevator ..... **CHECK**  
 Rudder ..... **CHECK**  
 Trim Tab ..... **CHECK**  
 Exhaust ..... **SECURE**  
 Intake ..... **CLEAR**  
 Prop ..... **CHECK**  
 Engine .... **COWL., BELT**  
 Oil ..... **6-8 QT.**  
 Fuel Caps ..... **SECURE**  
 Windscreen ..... **CLEAN**

Baggage Door .. **CLOSED**  
 Ties/Chocks .. **REMOVED**  
 Walk Around

**START**

Passengers ..... **BRIEF**  
 Brakes ..... **SET**  
 Seat Track ..... **LOCKED**  
 Seatbelts ..... **CHECK**  
 Circuit Breakers ..... **IN**  
 Avionics ..... **OFF**  
 Throttle ..... **1/4"**  
 Mixture ..... **LEAN**  
 Prop ..... **CLEAR**  
 Master ..... **ON**  
 Beacon ..... **ON**

Aux Fuel Pump ..... **ON**  
 Mixture ..... **RICH**  
 Fuel Flow ..... **3-5 GPH**  
 Mixture ..... **IDLE C/O**  
 Aux Fuel Pump ..... **OFF**

Mags ..... **START**  
 Mixture ..... **RICH**  
 Oil Pressure ..... **GREEN**  
 Throttle ..... **1,000 RPM**  
 Mixture ..... **LEAN**

**PRE-TAXI**

Seat Belts ..... **CHECK**  
 Flaps ..... **UP**  
 Heat/Vent/Defrost **CHECK**  
 Avionics ..... **ON**  
 ATIS ..... **GET**  
 Altimeter ..... **SET**  
 XPDR ..... **ALT. & SQWK**  
 ADS-B ..... **ON**  
 Radio ..... **TEST**  
 Taxi Lights .... **AS REQ'D**  
 Brakes ..... **TEST**

**TAXI**

Controls ..... **WIND**  
 Attitude Indicator . **CHECK**  
 Turn Coordinator . **CHECK**  
 Heading Indicator .... **SET**

**RUNUP**

Brakes ..... **SET**  
 Fuel ..... **BOTH**  
 Controls .. **FREE & CORR**  
 Annunciators ..... **CHECK**  
 Instruments ..... **CHECK**  
 Mixture ... **BEST POWER**  
 Throttle ..... **1,800 RPM**  
 Mags ..... **<150↓ <50Δ**  
 Vacuum Sys. .... **GREEN**  
 Electric. Sys. .... **CHECK**  
 Oil Pressure ..... **GREEN**  
 Oil Temperature .. **GREEN**  
 Throttle ..... **1,000 RPM**  
 Mixture ..... **LEAN**  
 Throttle Friction ..... **SET**  
 Radios ..... **SET**

**SWITCH TO FLIGHT  
SHUTDOWN**

ELT ..... **CHECK 121.5**  
 Avionics ..... **OFF**  
 Mixture ..... **C/O**  
 Mags ..... **OFF**  
 Master ..... **OFF**  
 Fuel ..... **LEFT**  
 Lights ..... **OFF**

**SECURING**

Hobbs & Tach .. **RECORD**  
 Control Lock ..... **SET**  
 Tie Downs ..... **SECURE**  
 Pitot Cover .... **REPLACE**  
 Sun Shades ... **REPLACE**  
 Doors ..... **LOCK**  
 Squawks ..... **RECORD**  
 Flight Plan ..... **CLOSE**

**FIRE ON START  
IF START**

Throttle ..... **1,800 RPM**  
 Run .....  
 Mixture ..... **IDLE C/O**

**IF NO START**

Crank ..... **CONTINUE**  
 Throttle ..... **FULL**  
 Mixture ..... **IDLE C/O**  
 Fuel Shutoff ..... **OUT**  
 Master & Mags ..... **OFF**

# C172SP FLIGHT PROCEDURES

## PRE-TAKEOFF

Runway ..... **CHECK**  
 Technique ..... **NOTE**  
 Crosswind ..... **CHECK**  
 Abort Plan ..... **BRIEF**  
 TPA/Departure .... **BRIEF**

HI ..... **SET & BUG**  
 Flaps ..... **SET**  
 Trim ..... **TAKEOFF**  
 Lights ..... **ON**  
 XPDR ..... **SET**  
 Mixture ... **BEST POWER**  
 Time ..... **NOTE**

## CLIMB

Speed ..... **70-85**  
 Flaps ..... **UP**  
 Power ..... **FULL**  
 Mixture ..... **LEAN >3K**  
 Engine Inst. .... **CHECK**

## CRUISE

Power ..... **SET**  
 Mixture ..... **LEAN >3K**  
 Instruments ..... **CHECK**  
 Flaps ..... **UP**  
 Switches (Pump) .....

## DESCENT

Fuel ..... **BOTH**  
 Power ..... **SET**  
 Mixture ..... **ENRICH**  
 Instruments ..... **CHECK**  
 Lights ..... **ON**  
 ATIS ..... **GET**  
 Altimeter ..... **SET**  
 Tower ..... **CONTACT**

## PRE-LANDING

Autopilot ..... **OFF**  
 Seat Belts .... **SECURED**  
 Fuel ..... **BOTH**  
 Brakes ..... **TEST**  
 Mixture ..... **RICH**  
 Lights ..... **ON**  
 Flaps ..... **AS REQ'D**

## AFTER LANDING

Flaps ..... **UP**  
 Trim ..... **TAKEOFF**  
 Switches ..... **OFF**  
 Mixture ..... **LEAN**

## ENGINE FAILURE

Best Glide ..... **68**  
 Landing Site ..... **FIND**  
 Wind ..... **IDENTIFY**  
 Fuel Cutoff ..... **IN**  
 Fuel Selector ..... **BOTH**  
 Aux Fuel Pump ..... **ON**  
 Mixture ..... **RICH**  
 Mags ..... **TEST BOTH**  
 Master ..... **ON**

## FORCED LANDING

Best Glide ..... **68**  
 Squawk ..... **7700**  
 Emergency ... **DECLARE**  
 Mixture ..... **IDLE C/O**  
 Fuel Shutoff ..... **OUT**  
 Mags ..... **OFF**  
 Flaps ..... **AS REQ'D**  
 Master ..... **OFF**  
 Seatbelts ..... **SECURE**  
 Doors ..... **UNLATCH**  
 Landing ..... **EXECUTE**

## LOW VOLTAGE

Power ..... **>1000 RPM**  
 Avionics Master .... **OFF**  
 Alt. CB ..... **CHECK IN**  
 Master Switch .... **CYCLE**  
 "VOLTS" .... **CHECK OFF**  
 Avionics Master ..... **ON**  
 If "VOLTS" illuminated:  
 Master ..... **ALT OFF**  
 Nonessential Equip .. **OFF**  
 Flight ..... **TERMINATE**

## OVERVOLTAGE

Master ..... **ALT. OFF**  
 Nonessential Equip. . **OFF**  
 Flight ..... **TERMINATE**  
 Beware Compass Deviat'n

## ENGINE FIRE

Mixture ..... **IDLE C/O**  
 Fuel Shutoff ..... **OUT**  
 Master ..... **OFF**  
 Heat & Air ..... **CLOSE**  
 Airspeed ..... **100+**

**Forced Landing**

## ELECTRICAL FIRE

All Switches ..... **OFF**  
 Vents/Air ..... **CLOSE**  
 Extinguisher ..... **USE**  
 Ensure Fire Extinguished  
 Vents ..... **OPEN**  
 Breakers ..... **CHECK**  
 Master .. **ON IF CRITICAL**  
 Flight ..... **TERMINATE**

## IMPORTANT NUM.

V<sub>X</sub> ..... **62**    V<sub>Y</sub> ..... **74**  
 S<sub>0</sub> ..... **40**    V<sub>S1</sub> ..... **48**  
 V<sub>FE 10</sub> .. **110**    V<sub>FE</sub> ..... **85**  
 V<sub>NO</sub> ... **129**    V<sub>NE</sub> .... **163**  
 V<sub>ROT</sub> .... **55**    V<sub>A2550</sub> .. **105**  
 V<sub>A2200</sub> ... **98**    V<sub>A1900</sub> ... **90**  
 Fuel .... **56**    Usable .. **53**  
 Best Glide ..... **68**  
 Max Gross ..... **2550**  
 Max Crosswind ..... **15**

## NORMAL TAKEOFF

Flaps ..... **0°**  
 Rotate .. **55**    Climb ... **74**

## SHORT TAKEOFF

Flaps ..... **10°**  
 Use Entire Pavement  
 Brakes ..... **APPLY**  
 Climb ..... **56**  
 Flaps ..... **UP >60 KIAS**

## SOFT TAKEOFF

Flaps ..... **10°**  
 Elevator ..... **FULL UP**  
 Ground Effect  
 Climb ..... **74**  
 Flaps ..... **UP >60 KIAS**

## NORMAL LANDING

Downwind ..... **85**  
 Base ..... **75**  
 Final ..... **60 - 70**

## SHORT LANDING

Short Final ..... **61**  
 Touchdown  
 Flaps ..... **UP**  
 Breaks ..... **HEAVY**  
 Yoke ..... **BACK**