

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

Weather ..... **BRIEF**  
 NOTAMs ..... **CHECK**  
 W&B ..... **CHECK**  
 Perf. Reqs. .... **CHECK**  
 Squawks ..... **CHECK**  
 IMSAFE ..... **CHECK**  
 Devices ..... **CHARGED**

**INSPECTION**

AV1ATE ..... **CHECK**  
 Fuel ..... **STICK**  
 AROW ..... **CHECK**  
 Scout ..... **SETUP**  
 Avionics ..... **OFF**  
 Master ..... **ON**  
 Fuel Gauge ..... **TRUE**  
 Flaps ..... **EXTEND**  
 Electrics ..... **TEST**  
 Electrics ..... **OFF**  
 Master ..... **OFF**  
 Oil ..... **6-8 QTS**  
 Fuel ..... **DRAIN**  
 Exterior ..... **CHECK**  
 Ties/Chocks ... **REMOVE**  
 Baggage ..... **CHECK**  
 Walkaround .. **EXECUTE**  
 Seat ..... **ADJUST**

**START**

Passengers ..... **BRIEF**  
 Seatbelts ..... **CHECK**  
 iPad ..... **CONN SCOUT**  
 ForeFlight .. **START REC**  
 Circuit Breakers . **CHECK**  
 Standby Battery ... **TEST**  
 Standby Battery ... **ARM**  
 Engine Ind. .... **CHECK**  
 Bus E Volts ..... **24 MIN**  
 M Bus Volts .... **1.5 MAX**  
 BATT S Amps ... **CHECK**  
 STBY BATT ..... **CHECK**  
 Alt. Static ..... **CHECK**  
 Fuel Shutoff ..... **IN**  
 Fuel Selector .... **BOTH**  
 Brakes ..... **SET**  
 Master ..... **BATT ON**  
 Avionics ..... **BUS 1 ON**  
 Avionics ..... **FAN**

Avionics ..... **BUS 1 OFF**  
 Avionics ..... **BUS 2 ON**  
 Avionics ..... **AFT FAN**  
 Avionics ..... **BUS 2 OFF**  
 Beacon ..... **ON**

**HOT: SKIP PRIME**

Throttle ..... **1"**  
 Mixture ..... **RICH**  
 Fuel Pump ..... **ON**  
 Fuel Pump ..... **OFF**

**END PRIME**

Mixture ..... **IDLE C/O**  
 Throttle ..... **SLIGHT**  
 Clear Prop . **ANNOUNCE**  
 Mags ..... **START**  
 Mixture .. **BEST POWER**  
 Throttle ..... **1000 RPM**  
 Oil Pressure .... **CHECK**  
 Master ..... **ALT ON**  
 Mixture ..... **LEAN**  
 Flaps ..... **UP**  
 Lights ..... **ON**  
 Avionics ..... **ON**  
 Radios ..... **SET**  
 ATIS ..... **GET**  
 Barometer ..... **SET**  
 XPDR ..... **SET**

**TAXI**

Brakes ..... **TEST**  
 Controls ..... **WIND**  
 Taxi Turns .... **EXECUTE**

**RUNUP**

Brakes ..... **SET**  
 Controls ..... **CORRECT**  
 PFD ..... **NO RED XS**  
 Flight Inst. .... **CHECK**  
 Fuel ..... **BOTH**  
 Autopilot ..... **CHECK**  
 Trim ..... **TAKEOFF**  
 GPS/NAV ..... **CONFIG**  
 Heading Bug ..... **SET**  
 Radios ..... **SET**  
 XPDR ..... **SET**  
 Mixture .. **BEST POWER**  
 Throttle ..... **1800 RPM**  
 Annunciators ... **CHECK**  
 Vacuum ..... **CHECK**

Amps/Volts ..... **CHECK**  
 Oil ..... **CHECK**  
 Mags ..... **CHECK**  
 Throttle ..... **1000 RPM**  
 Throttle Friction .... **SET**

**SWITCH TO FLIGHT****SHUTDOWN**

XPDR ..... **SET**  
 Brakes ..... **SET**  
 Electrical ..... **OFF**  
 Avionics ..... **OFF**  
 Mixture ..... **IDLE C/O**  
 Mags ..... **OFF**  
 Master ..... **OFF**  
 Fuel ..... **LEFT**  
 ForeFlight ... **STOP REC**  
 Flight Plan ..... **CLOSE**

**SECURING**

Scout ..... **REMOVE**  
 Control Lock ..... **SET**  
 Hobbs/Tach ..... **NOTE**  
 Squawks ..... **NOTE**  
 Sun Shade ... **REPLACE**  
 Pitot Cover ... **REPLACE**  
 Wheels ..... **CHOCK**  
 Ties ..... **TIE**  
 Doors ..... **LOCK**

**FIRE ON START****IF START**

Run ..... **5 sec**  
 Mixture ..... **IDLE C/O**  
 Evacuate ..... **GO**

**IF NO START**

Crank ..... **CONTINUE**  
 Mixture ..... **IDLE C/O**  
 Throttle ..... **FULL**  
 Fuel Shutoff ..... **OUT**  
 Evacuate ..... **GO**

## C172SP FLIGHT PROCEDURES

### TAKEOFF BRIEF

Runway .....**CHECK**  
HI .. **SET TO COMPASS**  
Crosswind .....**CHECK**  
Abort Speed .....**NOTE**  
Technique .....**NOTE**  
Flaps .....**SET**  
Min. Ret. Alt. ....**NOTE**  
Best Glide ..... **60-70**  
Time .....**NOTE**  
Mixture .. **BEST POWER**

### CLIMB

Flaps .....**UP**  
Mixture ..... **LEAN >3k**  
HI .. **SET TO COMPASS**  
Engine Inst. ....**CHECK**

### PRE-DESCENT

HI .. **SET TO COMPASS**  
Engine Inst. ....**CHECK**  
ATIS .....**GET**  
Barometer .....**SET**  
Tower .....**CONTACT**  
Fuel .....**BOTH**  
Mixture .....**ENRICH**  
Lights .....**ON**

### AFTER LANDING

Flaps .....**UP**  
Trim .....**TAKEOFF**  
Mixture .....**LEAN**  
Taxi Diag. ....**OPEN**

### SWITCH TO GROUND

#### TAKEOFF CFGS

##### NORMAL

Flaps .....**UP**  
Rotate .....**55**  
Climb ..... **74**

##### SHORT

Flaps .....**10**  
Brakes .....**SET**  
Climb ..... **56 TO 50'**  
Flaps .....**UP**

##### SOFT

Flaps .....**10**  
Nosewheel .....**LIGHT**  
Ground Effect ..... **60**

Climb ..... **65**  
Flaps .....**UP**

#### APPROACH CFGS

##### NORMAL/SOFT

Flaps .....**FULL**  
Speed ..... **65**

##### SHORT

Flaps .....**FULL**  
Speed ..... **60**

#### LOW VOLTAGE

Power .... **GT 1000 RPM**  
Lights/Pitot ..... **OFF**  
Avionics ..... **OFF**  
Master ..... **ALT OFF**  
Alt .....**CHECK**  
Master .....**ALT ON**  
Avionics ... **ESSENTIAL**  
Lights/Pitot . **ESSENTIAL**  
Flight ..... **TERMINATE**

#### CYCLE ONCE ONLY

#### OVERVOLTAGE

Master ..... **ALT OFF**  
Alt .....**PULL**  
Avionics ..... **OFF**  
Lights/Pitot ... **Essential**  
Flight ..... **TERMINATE**

#### ENGINE FAILURE

Best Glide ..... **60-70**  
Landing Site ..... **FIND**  
Fuel Shutoff ..... **ON**  
Throttle ..... **HALF**  
Throttle ..... **FULL**  
Mixture ..... **VARY**  
Fuel Pump ..... **ON**  
Mags ..... **TEST BOTH**

#### IF NO RESTART

Squawk .....**7700**  
Emergency .. **DECLARE**  
Fuel Shutoff .....**OUT**  
Mixture ..... **IDLE C/O**  
Mags .....**OFF**  
Master .....**OFF**  
Doors .....**UNLATCH**  
Landing ..... **EXECUTE**

### ENGINE FIRE

Mixture ..... **IDLE C/O**  
Fuel Shutoff .....**OUT**  
Master .....**OFF**  
Cabin Air .....**CLOSE**  
Vents .....**OPEN**  
Speed ..... **INCREASE**  
Flight ..... **TERMINATE**

### ELECTRICAL FIRE

Master .....**OFF**  
Vents/Air ..... **CLOSE**  
Extinguisher .....**USE**  
Vents .....**OPEN**  
Breakers .....**CHECK**  
Master .**ON IF CRITICAL**  
Flight ..... **TERMINATE**