

C172SP G1000 GROUND PROCEDURES

DISPATCH

Weather **BRIEF**
 NOTAMS **CHECK**
 W&B **CHECK**
 Perf. Reqs. **CHECK**
 Squawks **CHECK**
 IMSAFE **CHECK**
 Devices **CHARGE**

PASSENGER BRIEF

PIC **NOTE**
 Ramp Safety **NOTE**
 Flight Plan **NOTE**
 Seatbelts **NOTE**
 Air Vents **NOTE**
 Safety Equipment .. **NOTE**
 Traffic & Talking **NOTE**
 Questions **NOTE**

INSPECTION

AV1ATE **CHECK**
 AROW **CHECK**
 Fuel **STICK**
 Scout **SETUP**
 Avionics **OFF**
 Master **ON**
 Fuel Gauges **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**
 E Bus Volts **24 MIN**
 M Bus Volts **2 MAX**

BATT S Amps **CHECK**
 Alt. Static **CHECK**
 Fuel Shutoff **IN**
 Fuel Selector **BOTH**
 Brakes **SET**
 Master **BATT ON**
 Avionics **BUS 1 FAN**
 Avionics **BUS 2 FAN**
 Avionics **OFF**
 Beacon **ON**

HOT: SKIP PRIME

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

END PRIME

Mixture **IDLE C/O**
 Throttle **SLIGHT**
 Prop **CLEAR**
 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**
 Transponder **SET**
 Totalizer **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**
 Transponder **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

Transponder **SET**
 Brakes **SET**
 Electrical **OFF**
 Avionics **OFF**
 Mixture **IDLE C/O**
 Mags **OFF**
 Master **OFF**
 Standby Batt. **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 G1000 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**
Timer **START**
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**

IMPORTANT NUM.

V_{so} **40**
V_s **48**
V_{rotate} **55**
V_x **62**
V_y **74**
V_{fe} **85**
V_{fe-10} **110**
V_a **105**
V_{no} **129**
V_{ne} **163**
Best Glide **60–70**
Max Gross **2550**
Max Crosswind **15**
Fuel **56**
Usable Fuel **53**