

C172SP G1000 GROUND PROCEDURES

DISPATCH

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

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**
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 Batt. . **TEST/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**
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**
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**

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**
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 **65**
Max Gross **2550**
Max Crosswind **15**
Fuel **53**