

C172SP 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 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**

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**