

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_X **62** V_Y **74**
 S₀ **40** V_{S1} **48**
 V_{FE 10} .. **110** V_{FE} **85**
 V_{NO} ... **129** V_{NE} **163**
 V_{ROT} **55** V_{A2550} .. **105**
 V_{A2200} ... **98** V_{A1900} ... **90**
 Fuel **56** Usable ... **53**
 Best Glide **68**
 Max Gross **2550**
 Max Crosswind **15**

TAKEOFF CFGS

NORMAL

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

SHORT

Flaps **10°**
 Brakes **APPLY**
 Climb **56**
 Flaps ... **UP AT >60 KIAS**

APPROACH

NORMAL

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