

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 & Correct**
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

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 **Brief**
 Time **Note**
 HI **Set To Compass**
 Flaps **Set**
 Trim **Takeoff**
 Lights **On**
 XPDR **Set**
 Mixture **Best Power**

CLIMB

70-85 KIAS
 Flaps **Up**
 Power **Set**
 Mixture **Lean >3k**
 Engine Inst. **Check**

CRUISE

Power **Set**
 Mixture **Lean >3k**
 Instruments **Check**
 Flaps **Up**
 Switches (Pump)

DESCENT

Fuel **Both**
 Power **Set**
 Mixture **Lean >3k**
 Instruments **Check**
 Lights **On**
 ATIS **Get**
 Altimeter **Set**
 Tower **Contact**

PRE-LANDING

Autopilot **Off**
 Seat Belts **Secured**
 Fuel **Both**
 Brakes **Test**
 Mixture **Best Power**
 Flaps **As Req'd**
 Lights **On**

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 . **Execute**

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
 V_{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**