

16895 (C172SP G1000)



**PREFLIGHT INSPECTION**

**First Items**

PITOT GATOR ..... REMOVE AND SECURE  
TIE-DOWN ..... REMOVE AND SECURE  
FUEL QUANTITY ..... CHECK VISUALLY  
FUEL SUMPS ..... DRAIN AND CHECK  
OIL LEVEL ..... CHECK

**Interior**

FIRE EXTINGUISHER ..... CHECK GAUGE  
AROW & COMPASS CARD ..... PRESENT  
CONTROL WHEEL LOCK ..... REMOVE AND SECURE  
CIRCUIT BREAKERS ..... CHECK IN  
AVIONICS MASTER SWITCH ..... OFF  
MASTER SWITCH ..... ON  
AVIONICS FAN ..... CHECK  
EXTERIOR LIGHTS ..... CHECK  
PITOT HEAT ..... CHECK  
FLAPS ..... FULLY EXTEND  
MASTER SWITCH ..... OFF  
FUEL SELECTOR ..... BOTH  
FUEL SHUTOFF VALVE ..... IN

**Empennage**

BAGGAGE DOOR & WINDOW ..... CHECK  
BODY & EXTERNAL DATA PLATE ..... CHECK  
AUTO PILOT STATIC PORT ..... CHECK  
STABILIZERS & CONTROL SURFACES ..... CHECK  
ANTENNAS ..... CHECK

**Right Wing**

TRAILING AND LEADING EDGE ..... CHECK  
FLAP AND AILERON ..... CHECK  
WHEEL, TIRE, BRAKES ..... CHECK  
FUEL ..... CHECK AND SECURE CAP

**Nose**

WINDSHIELD ..... CLEAN  
OIL ..... CHECK & SECURE  
ENGINE INLETS, FILTER, PROP, SPINNER ..... INSPECT  
NOSE WHEEL TIRE & STRUT ..... CHECK  
STATIC PORT ..... CHECK

**Left Wing**

FUEL ..... CHECK AND SECURE CAP  
PITOT TUBE ..... CHECK  
STALL HORN OPENING ..... CHECK  
FUEL TANK VENT ..... CHECK  
WHEEL, TIRE, BRAKES ..... CHECK  
TRAILING AND LEADING EDGE ..... CHECK  
FLAP AND AILERON ..... CHECK

**BEFORE TAXI**

AIRPORT DIAGRAM ..... OUT / AVAILABLE  
LANDING & TAXI LIGHTS ..... NIGHT OR IFR  
TAXI AREA ..... CLEAR  
BRAKES ..... CHECK  
TAXI CLEARANCE ..... OBTAIN / BRIEF  
IFR FLIGHTS ..... CHECK INSTRUMENTS IN TURN

**BEFORE TAKEOFF**

MIXTURE ..... AS REQ  
THROTTLE ..... 1800 RPM  
MAGNETOS ..... CHECK

(MAX DROP 150 RPM)

ENGINE INSTRUMENTS, VAC, & AMPS ..... CHECK  
THROTTLE ..... IDLE / CHECK 600-800 RPM  
THROTTLE ..... 1000 RPM  
EMERGENCY RESPONSE ..... BRIEF  
FLIGHT CONTROLS ..... FREE & CORRECT  
FLIGHT INSTRUMENTS ..... CHECK & SET  
AUTOPILOT ..... OFF  
TRIM ..... SET T/O  
FLAPS ..... SET  
GPS ..... SET  
ENGINE INSTRUMENTS ..... CHECK  
SEATS & SEATBELTS ..... LOCKED & FASTENED

**FINAL ITEMS**

DOORS & WINDOWS ..... CLOSED & LOCKED  
STROBE & LANDING LIGHT ..... ON  
TRAFFIC ..... CHECK  
MIXTURE ..... AS REQ  
SET FRQ / CONTACT TWR ..... CHECK

**AFTER TAKEOFF**

CRUISE CLIMB ..... CHECK  
FLAPS ..... UP  
LANDING LIGHT ..... OFF

**CRUISE**

POWER ..... SET  
ENGINE INSTRUMENTS ..... CHECK  
MIXTURE ..... LEAN

**..ENGINE FAILURE IN FLIGHT..**

AIRSPEED ..... Vg 68 KIAS  
FUEL SHUTOFF VALVE ..... ON/IN  
FUEL SELECTOR VALVE ..... BOTH  
FUEL PUMP ..... ON  
FLAPS ..... UP  
MIXTURE ..... RICH  
MAGNETOS ..... CHECK ALL

**IF PROP NOT WINDMILLING**

IGNITION SWITCH ..... START  
MAGNETOS ..... CHECK ALL

**DECLARE EMERGENCY  
SECURE ENGINE**

**..ENGINE SECURE / POWER OFF LAND..**

LANDING AREA ..... SELECT & INSPECT  
AIRSPEED ..... Vg 68 KIAS  
MIXTURE ..... CUTOFF  
FUEL SHUTOFF VALVE ..... OFF  
IGNITION & ELECTRICAL SWITCH ..... OFF  
FLAPS ..... AS REQ  
MASTER SWITCH ..... OFF  
DOORS ..... (Prior to touchdown) UNLATCH  
BRAKES ..... APPLY HEAVILY

**..ENGINE FIRE IN FLIGHT..**

**DECLARE EMERGENCY**

MIXTURE ..... IDLE CUT OFF  
FUEL SHUTOFF VALVE ..... OFF  
FUEL PUMP ..... OFF  
MASTER SWITCH ..... OFF  
AIRSPEED ..... 100 KIAS glide  
CABIN HEAT & AIR ..... OFF  
IF FIRE PERSISTS ..... INCREASE SPEED

**DO NOT ATTEMPT ENGINE RESTART**

**..EMERGENCY DESCENT..**

THROTTLE ..... IDLE  
DESCENDING TURNS ..... 30° 45° BANK  
AIRSPEED ..... 100 KIAS

**DECLARE EMERGENCY**

**..CABIN FIRE..**

MASTER SWITCH ..... OFF  
VENTS, CABIN HEAT & AIR ..... CLOSED  
FIRE EXTINGUISHER ..... ACTIVATE

**WHEN FIRE IS OUT**

CABIN ..... VENTILATE  
**LAND AS SOON AS POSSIBLE**

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## V – SPEEDS

Vso.....	40 KIAS
Vs1.....	48 KIAS
Vr.....	55 KIAS
Vx (50 ft obst.) .....	56 KIAS
Vx .....	62 KIAS
Vg .....	68 KIAS
Vy .....	74 KIAS
Vfe.....	85 KIAS
Va .....	90-105 KIAS
Vno .....	129 KIAS
Vne .....	163 KIAS

## LOCAL FREQUENCIES

CLL ATIS .....	126.85
CLL Ground .....	128.70
CLL Tower .....	118.50
HOU Departure.....	134.30
Flight Service .....	122.65
CFD .....	123.00
RWV, LHB, 60R.....	122.90
11R.....	123..07

## SQUAWK CODES

7500 .....	HIJACKING
7600.....	LOST COMMS
7700.....	EMERGENCY

## VFR APPROACH

WEATHER.....CHECK  
 ALTIMETER.....SET  
 STANDBY ALTIMETER.....SET  
 FUEL SELECTOR.....BOTH  
 PARKING BRAKE.....CHECK RELEASED  
 LANDING LIGHT.....ON  
 AIRPORT DIAGRAM AVAILABLE.....CHECK  
 SEAT BELTS.....FASTENED  
 CALL TWR / CTAF.....10-15NM OUT

## IFR APPROACH

WEATHER.....CHECK  
 ALTIMETER.....SET  
 STANDBY ALTIMETER.....SET  
 APPROACH.....BRIEF AND LOAD  
 FUEL SELECTOR.....BOTH  
 PARKING BRAKE.....CHECK RELEASED  
 LANDING LIGHT.....ON  
 SEAT BELTS.....FASTENED  
 —WHEN DIRECT TO IAF OR VECTORED—  
 FLIGHT & NAV INSTRUMENTS.....SET/IDENT  
 GPS.....ACTIVATE APPROACH  
 AIRSPEED.....90 KIAS

## BEFORE LANDING

FUEL SELECTOR.....BOTH  
 POWER.....SET  
 MIXTURE.....AS REQ  
 FLAPS.....AS REQ

## AFTER LANDING

TRIM.....CENTERED  
 FLAPS.....UP  
 MIXTURE.....LEAN  
 TAXI CLEARANCE.....OBTAIN & BRIEF

## SHUTDOWN

TRANSPONDER.....1200  
 AVIONICS MASTER.....OFF  
 THROTTLE.....1000 RPM  
 MIXTURE.....CUTOFF  
 IGNITION.....OFF  
 RECORD TIMES.....COMPLETE  
 MASTER SWITCH.....OFF  
 STANDBY BATTERY.....OFF  
 ELECTRICAL SWITCHES.....OFF  
 FLIGHT CONTROLS.....SECURE  
 TIEDOWN / CHOCK.....SECURE  
 PITOT GATOR.....INSTALL

## BEFORE START

NOSE AND CHOCKS AREA.....CLEAR  
 PASSENGER BRIEF.....SAFETY  
 Seats & Seatbelts, Air Vents, Fire Extinguisher, Exits & Emergency, Traffic Scanning & Talking, Your questions?  
 SEAT & SEAT BELTS.....ADJUST AND LOCK  
 CIRCUIT BREAKERS.....CHECK IN ALL SWITCHES.....OFF  
 ALTERNATE STATIC SOURCE.....OFF  
 FUEL SELECTOR VALVE.....BOTH  
 FUEL SHUTOFF VALVE.....IN  
 STBY BATT SWITCH.....TEST  
 STBY BATT SWITCH.....ARM  
 ENGINE INDICATING SYSTEM  
**BUS E Volts - 24 VOLTS Minimum**  
**M BUS Volts - 1.5 or Less**  
**BATT S Amps -Verify Discharge Shown (negative)**  
**STBY BATT Annunciator Listed in Alerts**  
 MASTER SWITCH.....ON  
 BEACON.....ON  
 NAV LIGHT.....ALWAYS ON  
 FUEL GAUGES.....CHECK

## WARM or COLD START

### Warm Start

MIXTURE.....CUTOFF

### Cold Start

MIXTURE.....RICH  
 THROTTLE.....OPEN  
 FUEL PUMP.....(Check Pressure Alt, 3-6 seconds)  
 MIXTURE.....CUTOFF  
 WAIT.....60 SECONDS

## STARTING ENGINE

THROTTLE.....1/4" OPEN  
 BRAKES.....HOLD  
 PROP AREA.....CLEAR  
 IGNITION.....START  
 MIXTURE.....(Advance smoothly as engine starts) RICH

## AFTER START

THROTTLE.....1000 RPM  
 OIL PRESSURE.....CHECK GREEN  
 MIXTURE.....LEAN  
 AMPS (M BATT & S BATT).....CHECK (positive charge)  
 FLAPS.....UP  
 AVIONICS SWITCH.....ON  
 HEADSETS.....ON  
 COMS.....SET FREQS  
 WEATHER.....CHECK  
 FLIGHT INSTRUMENTS.....CHECK & SET  
 TRANSPONDER.....SET CODE / ALT MODE  
 GPS & NAV.....SET