

212BS (C172SP)



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
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

ANNUNCIATOR PANEL LIGHTS CHECK
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
HEADING INDICATOR SET TO COMPASS

..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

212BS (C172SP)

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
HEADING INDICATOR.....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
HEADING INDICATOR.....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
MASTER SWITCH.....OFF
ELECTRICAL SWITCHES.....OFF
RECORD TIMES.....COMPLETE
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
MASTER SWITCH.....ON
BEACON.....ON
NAV LIGHT.....NIGHT ONLY
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
THROTTLE.....1000 RPM
FLAPS.....UP
AVIONICS SWITCH.....ON
HEADSETS.....ON
COMS.....SET FREQS
WEATHER.....CHECK
ALTIMETER.....SET
FLIGHT INSTRUMENTS.....CHECK
TRANSPONDER.....SET CODE / ALT MODE
GPS & NAV.....SET