

N6238A

2008 CESSNA 172S

PREFLIGHT

WX/WEIGHT/FPA/AROW.....COMPLETE
TIES, LOCKS, CHOCKS.....REMOVED
PARKING BRAKE.....SET
IGNITION & AVIONICS BUS 1 & BUS 2 ..OFF
MASTER.....ON
• PFD.....VERIFY ON
• FUEL QUANTITY ON PFD.....CHECK
• LOW FUEL L/R ANNUNCIATORS.....NOT VISIBLE
• OIL PRESSURE ANNUNCIATOR.....ON
• LOW VACUUM ANNUNCIATOR.....ON
• AVIONICS SWITCH: BUS 1: ON; FAN HEARD....OFF
• AVIONICS SWITCH: BUS 2: ON; FAN HEARD....OFF
• LOW VOLTS ANNUNCIATOR.....SHOWN
• FLAPS.....EXTEND
• PITOT HEAT SWITCH.....ON/CHECK
• STROBES/NAVS/LANDING.....ON/CHECK
PITOT/LIGHTS/MASTER.....OFF
TRIM.....TAKE OFF
FUEL SELECTOR.....BOTH
ALTERNATE STATIC AIR VALVE.....OFF
FIRE EXTINGUISHER.....SECURE/GREEN
FUSELAGE / ANTENNAS.....CHECK
EMPENNAGE.....MOVEMENT & SECURITY
FLAPS: HINGES,PINS,NUTS.....SECURED
AILERONS: HINGES/MOVEMENT.....CHECK
WING SURFACES/LEADING EDGE.....CHECK
TIRES, LINES, BRAKES, STRUT.....CHECK
FUEL.....SUPPLY, SUMP, VENTS
OIL.....5-8 QUARTS.....LONG FLIGHT: FILL TO 8
PROP CLEAN FROM NICKS & CUTS.....CHECK
ENGINE COMPARTMENT.....CLEAR
AIR FILTER.....CLEAN
STATIC/PITOT/DRAIN.....CLEAR
STALL WARNING VENT.....CLEAR
STORAGE.....LOCKED
HOBBS.....LOGGED

PASSENGER BRIEF: SAFEST

Seatbelts, Air vents, Fire extinguisher
Exits, Sick, Talking

PRE-START

SEAT BACK, TRACK & BELTS.....LOCK / ON
FUEL SELECTOR/VALVE.....ON/BOTH
FUEL SHUTOFF VALVE.....ON
LIGHTS/ELECTRICAL/RADIOS.....OFF
PARKING BRAKES.....TEST/SET
CIRCUIT BREAKERS.....IN

ENGINE START

THROTTLE.....OPEN 1/4 INCH
MIXTURE.....IDLE
STANDBY BATTERY SWITCH: TEST 8-10 SECS - GREEN
LIGHT ON THEN ARM - PFD COMES ON
ENGINE INDICATING SYSTEM.....NO RED X'S
VOLTS.....BUS "E" 24 MIN & BUS "M" < 1.5
BATTERY S AMPS.....NEGATIVE DISCHARGE
STBY BATT ANNUNCIATOR.....ON
PROP AREA.....CLEAR
MASTER SWITCH.....ON
BEACON.....ON
TOE BRAKES.....HOLD
COLD: FUEL PUMP ON ~ RICH 3-5 SECS ~ OFF
• IF WARM, DO NOT PRIME!
IGNITION.....START
MIXTURE.....SMOOTHLY ADVANCE
THROTTLE.....1000 RPM
OIL PRESSURE.....RISE IN 30 SEC'S OR LESS

AMPS (M BATT AND S BATT).....POS CHARGE
LOW VOLTS ANNUNCIATOR.....NOT SHOWN
AVIONICS SWITCH BUS 1 AND BUS 2.....ON
TRANSPONDER....."ALT"
FLAPS.....RETRACTED
MIXTURE.....LEAN 1° FOR TAXI
PRE-TAXI / TAXI
FREQ/ATIS/ALTIMETER.....SET
LIGHTS.....AS REQUIRED
TAXI CALL.....RADIO TEST
BRAKES.....TEST
INSTRUMENTS.....CK
RUN UP
BRAKES.....SET/HOLD
LIGHTS.....AS REQ'D
CABIN DOORS.....LATCHED
INSTRUMENTS.....SET / NO RED X'S
AP.....ENGAGE, TEST, DISENGAGE
FLIGHT DIR.....OFF
FLIGHT CONTROLS.....FREE & CORRECT
ALTIMETERS (PRIMARY & STANDBY).....SET
ALTIMETER SELECT.....SET
STANDBY FLIGHT INSTRUMENTS.....CHECK
FUEL QUANTITY.....CHECK/NOT IN YELLOW
TRIM/FLAPS.....SET FOR TAKEOFF
MAGS TEST
MIXTURE.....FULL RICH
THROTTLE.....1800 RPM
MAGS TEST.....DROP <150..DIFF B/T MAGS: < 50
FUEL FLOW / OIL PRESS / OIL TEMP / VAC.....GREEN
ENGINE INSTR.....AMMETERS, VOLTS.....CHECK
ANNUNCIATORS.....OFF
THROTTLE/LOCK.....IDLE CK / 1000
RADIOS, COMM, NAV, GPS.....SET / CHECK
MIXTURE: AS REQUIRED FOR DA.....CHECK & SET
CDI SOFT KEY.....SELECT NAV SOURCE
FUEL.....BOTH

ABORT PLAN READY!

ROLL BEFORE ROTATION: Any Anomaly

- Throttle Idle, Brake, Exit RWY

AFTER ROTATION W/USABLE: Engine Fail/Fire

- Throttle Idle, Land straight ahead

AFTER ROTATION, W/O USABLE, <1000: Vg 68 KTS, best spot 30° of nose, communicate, shut down, emg. landing

AFTER ROTATION >1000: Vg 68 KTS, standard rate turn back to the field

PRE-TAKE OFF

LIGHTS.....AS REQUIRED
INSTRUMENTS.....SET
TRANSPONDER.....ALT
TIME.....NOTED
SEAT BELTS, DOORS, WINDOWS.....SECURED
BRAKE.....RELEASE
TAKE OFF
FLAPS.....UP
THROTTLE.....FULL OPEN
INSTRUMENTS.....GREEN
AIRSPEED.....ALIVE
V_r.....55 KTS
V_y.....70-80 KTS
ENROUTE
CLIMB.....70-85 KTS
MIXTURE.....LEAN FOR ALTITUDE
CRUISE.....POWER 2100 to 2700 RPM (< 75%)
ELEVATOR TRIM.....ADJUST
MIXTURE.....LEAN

OPERATING SPEEDS: KTS
ALL AIRSPEEDS BASED ON MAX WEIGHT

VNE	NEV.EXCEED	163	VG GLIDE	68
VNO	CRUISE	129	VSO STALL DIRTY	40
VA	MANEUVER	105	VS1 STALL CLEAN	48
VR	ROTATE	55	VFE FLAPS 10°	110
VX	BEST ANGLE	62	VFE 20°-30°	85
VY	BEST RATE	74	SH.FIELD APP 30°	71
	CLIMB ENROUTE	75-80	XWIND	15
	SHORT FLD CLIMB	56		

PRE-DESCENT/LANDING

WX.....OBTAINED
ALTIMETER.....SET
RADIOS.....SET
NAV/GPS.....TUNE
SEATBELTS/DOORS/WINDOWS.....SECURE
MIXTURE.....RICH
AIRSPEED FLAPS UP.....65-75 KTS
FLAPS EXTEND: 10° < 110 KTS & 10°-30° < 85 KTS
GO AROUND

THROTTLE.....FULL OPEN
FLAPS.....Retract to 20
AIRSPEED.....60 KTS
FLAPS.....10° UNTIL OBST CLR'D
CLEAR RUNWAY
LIGHTS.....AS REQUIRED
MIXTURE.....LEAN FOR TAXI
FLAPS.....RETRACTED
TRANSPONDER.....ALTITUDE
TRIM.....SET FOR TAKEOFF
SHUTDOWN

LIGHTS.....OFF
STBY BATTERY.....OFF
AVIONICS.....OFF
MIXTURE, MAGS, MASTER.....OFF
POST FLIGHT CHECK
HOBBS/TACH.....LOGGED
SQUAWKS.....LOGGED
WINDOWS.....CLEAN
CONTROL LOCK/BELTS.....SET
SHADE.....SET
TRASH/ITEMS.....REMOVED
TIES, LOCKS, CHOCKS.....SECURE
DOORS.....LOCKED

A/C INFORMATION

MAX GROSS: 2558	BAGGAGE: 120
FUEL: 100LL BLUE CAPACITY P/TANK: 28g USEABLE P/TANK: 26.5g	ELECTRICAL: 28 V DC SYSTEM MAIN BATTERY: 24 V STANDBY BATTERY: 24 V ALTERNATOR: 60 AMP
OIL CAPACITY: 5-8 QTS OIL WEIGHT: 20W50	TIRE PRESSURE NOSE: 45 PSI MAINS: 38 PSI
VACUUM: 3.7 - 4.2 in. Hg.	SERVICE CEILING: 14,000

EFFECTIVE 03-30-24

POWER LOSS IN FLIGHT

EMERGENCY LANDING

- A: AIRSPEED: 68 KTS
B: BEST SPOT TO LAND WIND DIR/VELOCITY
C: CHECK ENGINE
• FUEL SELECTOR.....BOTH
• MIXTURE.....RICH
• PRIMER.....IN/LOCKED
• MAGS.....CHECK
D: DECLARE EMERGENCY
• TWR, APP, Unicom.....121.5
• SQUAWK.....7700
• E.L.T.....ON
E: ENGINE SECURE
• FUEL SHUT OFF VALVE.....OFF
• MIXTURE.....FULL CUT-OFF
• THROTTLE.....IDLE CUT-OFF
• FULL FLAPS.....WHEN FIELD ASSURED
• AVIONICS, MASTER, MAGS.....OFF
• SEAT BELTS/HARNESS.....SECURE
• DOORS.....UNLATCH/PROP
• FORCE LAND.....PROTECT BODY
ENGINE FIRE START UP
STARTED

IGNITION SWITCH START

- DRAW FLAMES INTO CYLINDER
- IF STARTED: 1800 RPM FOR A FEW MINUTES

MIXTURE / FUEL / SELECTOR.....OFF
EXTERNAL EXTINGUISHER
NOT STARTED

THROTTLE.....OPEN
MIXTURE / FUEL / SELECTOR.....OFF
MAGS.....TURN 5 SECONDS & SHUTDOWN
FUEL SHUTOFF VALVE.....OFF
AUXILIARY FUEL PUMP SWITCH.....OFF
ENGINE
• MASTER OFF
• IGNITION OFF
PARKING BRAKE.....EVACUATE
AIRPLANE.....EXTINGUISH
ENGINE FIRE IN FLIGHT

MIXTURE.....OFF
FUEL SHUTOFF VALVE.....OFF
AUX FUEL PUMP.....OFF
MASTER SWITCH.....OFF
CABIN HEAT/AIR.....OFF
SLIP/EMG DESCENT OR 100 KTS.....OFFSET FLAMES
FORCED LANDING.....EXECUTE

ELECTRICAL

MASTER & STBY BATTERY SWITCHES.....OFF
CABIN HEAT/AIR.....OFF
DEFROSTER.....OFF
LAND AS SOON AS PRACTICAL
IF FIRE CONTINUES, USE FIRE EXTINGUISHER, VENTILATE
CABIN AND LAND AS SOON AS PRACTICAL
EMERGENCY LANDING PROCEDURES

RADIO FAILURE

AUDIO PANEL.....ON
CIRCUIT BREAKERS.....IN
VOLUME.....CHECK
ALT. SWITCH.....RECYCLE