**C172 NAV III Preflight Checklist**

**PREFLIGHT**

**CABIN**

POH/Weight & Balance……….CHECK

G1000 Reference Guide..…….CHECK

Parking Brake…..………….............SET

Control Wheel Lock…........REMOVE

MAGNETOS....…………………………OFF

AVIONICS…..……………………………OFF

MASTER………..…………………………ON

BEACON……………………................ON

FUEL QTY...………………………….CHECK

LOW FUEL Annunciators………………………CHECK

OIL PRESSURE Annunciator………………………..CHECK

LOW VACUUM Annunciator...........................CHECK

AVIONICS Bus 1…………….............ON

Forward Avionics Fan……..…..CHECK

AVIONICS Bus 1……………………….OFF

AVIONICS Bus 2………………………..ON

Aft Avionics Fan…………….……CHECK

AVIONICS Bus 2…….…………………OFF

LOW VOLTS Annunciator.…...CHECK

Ldg/Taxi/Nav/Strobe…….ON/CHECK

MASTER………………….………………OFF

Elevator Trim…..………………..Set T/O

FUEL SELECTOR………..............BOTH

ALT STATIC……….…….……………….OFF

FIRE EXTINGUISHER…………...CHECK

**EMPENNAGE**

Baggage Door…………………....CHECK

Autopilot Static Source…………………...............CHECK

Control Surfaces………...........CHECK

Elevator Trim……..……………..Set T/O

Static wicks…………………………CHECK

Antennas…………..……………....CHECK

**RIGHT WING**

Flap…………………....................CHECK

Aileron………………………….…...CHECK

Tire/Brakes………………..……….CHECK

Fuel Tank Sump Valves..........DRAIN

Fuel quantity……………………...CHECK

**NOSE**

Fuel Tank Sump Valves.……...DRAIN

Oil Dipstick……………………….…CHECK

Engine Cooling Air Inlets……..CLEAR

Propeller/Spinner………….…...CHECK

Air Filter……………...................CHECK

Nosewheel Strut/Tire………….CHECK

Static Source……………………….CHECK

**LEFT WING**

Fuel Tank Vent Opening........CHECK

Stall Warning Opening.……….CHECK

Fuel Quantity………………………CHECK

Fuel Tank Sump Valves………..CHECK

Tire/Brakes………………………...CHECK

Aileron ………….…...CHECK

Flaps …CHECK

**C172 NAV III Normal Checklist**

**BEFORE START**

Passenger Briefing…….........................COMPLETE

Seats/Seat Belts……….............................SECURED

FUEL SELECTOR………....................................BOTH

FUEL SHUTOFF…………………….….……………………..IN

STBY BATT…………………..........................TEST/ARM

Circuit Breakers…………………..………………………….IN

AVIONICS……………………………..........................OFF

FUEL SELECTOR………………….........................BOTH

FUEL SHUTOFF VALVE…………..…........................IN

**ENGINE START**

MASTER..…………………......................................ON

Prime……………………………………………AS REQUIRED

Propellor Area…………..….............................CLEAR

Starter……………………….…………………………ENGAGE

Mixture………......………..........................FULL RICH

Throttle……………………...........................1000 RPM

Oil Pressure..…………...………………………GREEN ARC

AMPS (M Batt & S Batt…………….….…...CHARGING

LOW VOLTS Annunciator….........................CHECK

Mixture……………………………………………………..LEAN

**BEFORE TAXI**

AVIONICS………………………………………………………ON

Flight Instruments…………………………….CHECK/SET

Fuel/Gal Remaining……………………………RESET/SET

Autopilot/Electric Trim…………………………….CHECK

GPS Status……………………………………………….CHECK

Flaps……………………………………………………………..UP

**RUN UP**

Parking Brake…………………………………..…………..SET

Flight Controls………………………..….FREE/CORRECT

Windows…………………………………..…………..CLOSED

FUEL SELECTOR……………………………..………….BOTH

Mixture………………………………………………FULL RICH

THROTTLE………………………………..………..1800 RPM

Magnetos……………………………..………………..150/50

Engine Inst/Annunciators……………………..…CHECK

Throttle Idle………………………………...675 RPM MIN

Throttle…………………………………..…………1000 RPM

Mixture……………………………………………..………LEAN

**BEFORE TAKEOFF**

Departure Briefing…………………………….COMPLETE

Elevator Trim………………………………………………..T/O

Flaps…………………………………………………VERIFY/SET

Instruments/Bugs………………………..…..CHECK/SET

Autopilot (if installed)………………………………….OFF

Cabin doors/windows............................LATCHED

Parking Brake……………………………………..RELEASED

**CLIMB**

Flaps…………………………………………………………..…UP

Climb Power…………………………………………………SET

Mixture…………………………………………AS REQUIRED

**CRUISE**

Cruise power………………………………………………..SET

Mixture……………………………………………………..LEAN

Lights……………………………………………AS REQUIRED

**DESCENT**

Arrival Briefing……………………………..…..COMPLETE

FUEL SELECTOR…………………………………………BOTH

Mixture……………………………………………..ENRICHEN

Instruments/Bugs…………………………….CHECK/SET

Lights…………………………………………………………….ON

Seatbelts……………………………………………………….ON

**AFTER** **LANDING**

Elevator Trim………………………………………………..T/O

Flaps……………………………………………………………..UP

Mixture……………………………………………………..LEAN

Lights……………………………………………AS REQUIRED

**SHUTDOWN**

Parking Brake……………………………………..………..SET

Throttle……………………………………………..1000 RPM

Mixture Control……………………………..IDLE CUTOFF

Ignition Switch……………………………………………..OFF

Nav Lights…………………………………………………….OFF

**FREQUENCIES**

Air America Flight Center – 122.9

ATIS – 132.875

KDAB Clearance – 119.3

KDAB Ground – 121.9

KDAB Tower 120.7/118.1

KDAB N. App. 4000’-7500’ – 118.85

KDAB S. App. 3500’ or less – 125.35

KDAB N. App. 3500’ or less – 125.8

KDAB S. App 4000’-7500’ – 127.075

S. Practice Area – 123.5

N. Practice Area – 122.85

Flt Service St. Pete (24H) – 122.4 / 122.65 /(800) 992-7433

Emergency – 121.5

**C172 NAV III Emergency Checklist**

**ENGINE FAILURE DUR. T/O ROLL**

Directional Control…………………………….MAINTAIN

Throttle……………………………CLOSE IMMEDIATELEY

Brake…………………………………………….AS REQUIRED

Flaps……………………………………VERIFY 0 (RETRACT)

Mixture Control……………………………..IDLE CUTOFF

Ignition Switch……………………………………………..OFF

Stby Batt Switch……………………………..……………OFF

Master…………………………………………..…………….OFF

**ENGINE FAILURE AFTER T/O**

Airspeed…….70 KIAS (flaps up) / 65 KIAS (flaps down)

Throttle…………………….……..CLOSE IMMEDIATELY

Fuel Shutoff Valve…………………………….…………OFF

Mixture Control……………………..……..IDLE CUTOFF

Flaps………………………………..…………..AS REQUIRED

Ignition Switch………………………..…………………..OFF

Stby Batt Switch………………………..…………………OFF

Master………………………………………..……………….OFF

Cabin Doors…………………………………………UNLATCH

Land……………………………………….STRAIGHT AHEAD

**ENGINE FAILURE DUR. FLIGHT**

Airspeed…………………………………………………68 KIAS

Flaps……………………………………………..………………UP

Landing Site…………………………………………….SELECT

FUEL SELECTOR………………………..……VERIFY BOTH

FUEL SHUTOFF……………………………..………IN FULLY

Mixture Control…………………………FULL FORWARD

Auxiliary Fuel Pump………………………………………ON

Ignition Switch………………………………..BOTH (start)

*If the engine fails to start:*

Airspeed…………………………………………………68 KIAS

FUEL SELECTOR………………………..……VERIFY BOTH

FUEL SHUTOFF……………………………..………IN FULLY

Mixture………………………..…..IDLE CUTOFF (slowly)

Throttle……………………..…FULL FORWARD (slowly)

Auxiliary Fuel Pump……………………..……………..OFF

Ignition Switch………………………………..BOTH (start)

*If the engine fails to start:*

Transponder…………………………………..………….7700

Radio…………………………………………………………121.5

**EMERGENCY LANDING W/O POWER**

Passenger seats………………….…………….…UPRIGHT

Seatbelts………………………………………………..…….ON

FUEL SHUTOFF………………………………..…………..OFF

Mixture………………………………………….IDLE CUTOFF

Flaps……………………………………30 RECOMMENDED

ELT………………………………………………………ACTIVATE

Ignition Switch……………………………………………..OFF

Stby Batt Switch…………………………..………………OFF

Master…………………………………………..…………….OFF

Cabin Doors…………………………………………UNLATCH

Touchdown………………………….SLIGHTLY TAIL LOW

Brakes…………………………………………APPLY HEAVILY

**ENGINE FIRE IN FLIGHT**

Mixture………………………………..………..IDLE CUTOFF

FUEL SHUTOFF………………………………....OUT FULLY

Auxiliary Fuel Pump……………………………..………OFF

Master…………………………………………………..…….OFF

Cabin Vents…………………………….OPEN AS NEEDED

Cabin Air/Heat……………………………………………..OFF

Airspeed………...INCREASE 100 KIAS/EXTINGUISH

Forced Landing…………………………..………..EXECUTE

**CABIN FIRE IN FLIGHT**

Stby Batt Switch……………………………..……………OFF

Master……………………………………………..………….OFF

Cabin Vents/Air/Heat………………………..……..CLOSE

Fire Extinguisher………………………………DISCHARGE

Cabin Vents/Air/Heat……………………………..…OPEN

Airport……………………………………………..……….LAND

**ELECTRICAL FIRE IN FLIGHT**

Stby Batt Switch……………………………..…….……..OFF

Master……………………….…………………………..……OFF

Cabin Vents/Air/Hea…………………………...…..CLOSE

Fire Extinguisher…………………………..…DISCHARGE

Avionics…………………………………………..…………..OFF

Cabin Vents/Air/Heat…………………………..……OPEN

**WING FIRE IN FLIGHT**

Ldg/Taxi Lights…………………………………..…………OFF

Navigation Lights..…………………………………..…..OFF

Strobe Lights………………………………………..………OFF

Pitot Heat……………………………………………..……..OFF

*Perform a forward slip to keep flames away from the aircraft.*