



Cockpit

Parking Brake - SET
Tie Downs - REMOVE
Documents - ARROW
Hobbs/Tach - RECORD
Circuit Breakers - IN
Control Lock - REMOVE
Avionics - OFF
Master Switch - ON
Fuel Gauges - CHECK

Exterior

Lights - ON/CHECK
Stall Horn - TEST
Pitot/ Static - CLEAR - Heat - IF IFR
Master Switch - OFF
Flaps - DOWN CHECK HINGES
PROPER DEGREE
Ailerons - MOVMENT FREE AND
CORRECT
Fuel Tanks - VISUALLY CHECK
Fuel Sumps - TAKE SAMPLE -
ELCTRIC PUMP SAMPLE
Fuel Vents - CLEAR
Main Gear Struts - PROPER
INFLATION - 4.5 INCH - INSPECT
TIRE AND BRAKES
Horizontal Stabilator - MOVMENT
FREE AND CORRECT
Trim Tab - MOVES WITH
STABILATOR
Rudder - CHECK ATTACHMENT
POINTS
Propeller - CHECK FOR DAMAGE
Nose Strut - CHECK TIRE / TRAVEL
ON STRUT - 3.25 INCH
Oil - MIN 4 Qts MAX 8 Qts
Baggage Door - SECURED

Before Start

Safety Brief
Seat Belts - ON
Brakes - SET
Carb Heat - OFF
Fuel Selector - FULLEST TANK
Key - IN IGNITION

Engine Start

Master Switch - ON
Nav Lights - ON
Beacon - ON
Mixture - RICH
Electric Fuel Pump - ON
Carb Heat - COLD
Prime - 3x IF COLD
Primer - LOCKED
Throttle - OPEN 1/8th"
Check Area - CLEAR PROP
Starter - ENGAGE
Throttle - 800-1000 RPM
Oil Pressure - CHECK
Avionics Master - ON
GPS - CURRENT IFR
Transponder - ALT / CODE

Warm Up

Throttle - 1000 RPM
Flaps - RETRACT
Weather - OBTAIN
Mixture - LEAN AS NEEDED

Taxi

Brake - CHECK
Taxi Light - AS NEEDED
Taxi Clearance - AS
NEEDED/DIAGRAM
Throttle - AS NEEDED

Run Up

Park Brake - SET
Doors/Windows -
CLOSED/LOCKED
Flight Controls - FREE AND
CORRECT
Electric Fuel Pump - OFF
Fuel Valve - SWITCH
TANKS / CHECK
PRESSURE
Electric Fuel Pump - ON
Mixture - RICH
Trim - SET TAKEOFF
Throttle - 2000 RPM
Magneto - CHECK / 150
DROP MAX / 75 DIFF MAX
Vacuum - GREEN - 5" - +- .1
Carb Heat - ON then OFF /
75-100 RPM DROP
Ammeter - POSITIVE

Run Up Continued

Engine Instruments - ALL GREEN
Annunciator Panel - TEST
Mixture - SET
Throttle - IDLE CHECK
Flight Instrument - SET
Flaps - SET
Avionics - PROGRAM
Transponder - VERIFY ALT/CODE
Clearance - OBTAIN IF NEEDED
Strobe Light - ON
Nav Light - ON FOR ADSB
Park Brake - RELEASE

Normal Takeoff/Climb

Mixture - RICH BELOW
3000FT
Flaps - 0°
Electric Fuel Pump - ON
Carb Heat - COLD
Throttle - FULL
Elevator - ROTATE 60Kts
Climb - 79Kts Vy

Cruise

Pitch - LEVEL AT ALT
Electric Fuel Pump - OFF
Throttle - 2200-2500 RPM
Trim - AS NEEDED
Mixture - LEAN AS NEEDED

Before Landing

Seat Belts - ON
Weather - OBTAIN
Fuel Valve - BOTH
Mixture - RICH BELOW
3000FT
Carb Heat - ON
Flaps - 10° BELOW 103Kts
Final Approach Speed -
70Kts

After Landing

Carb Heat - COLD
Throttle - 1000 RPM
Flaps - RETRACT
Trim - SET

Shut Down

Parking Brake - SET
Throttle - IDLE
Magnetos - GROUND
CHECK
Avionics - OFF
Lights - OFF
Oil Temp/Pressure - GREEN
Electric Fuel Pump - OFF
Mixture - CUT OFF
Magnetos - OFF/KEY OUT
Master Switch - OFF
Hobbs/Tach - RECORD
Fuel Valve - LEFT OR RIGHT
Control Lock - SECURE

V Speeds ALL KNOTS

VR- 60	VSO 1.3 - 54
VX- 63	VFE - 103
VY- 79	VNO - 126
VA- 2150LBS - 111	VNE - 160
1531LBS - 88	
VSO- 44	VG - 73
Vs1- 50	
Max Cross Wind - 17	

Fuel - Oil

Fuel Capacity - 50 Gal
Usable Fuel - 48 Gal
USABLE CAPACITY 24 GAL. USABLE
CAPACITY TO BOTTOM OF FILLER
NECK INDICATOR 17 GAL.
Oil - 4 Qrt MIN - 8 Qrt MAX

Emergency

Engine Failure - Takeoff

Airspeed - Vg
Best Place to Land - RUNWAY IF SUFFICIENT REMAINING
Checklist - **FUEL SELECTOR SWITCH TANKS, ELECTRIC FUEL PUMP ON, MIXTURE RICH, CARB HEAT ON, PRIMER LOCKED**
Declare Emergency - 7700, 121.5 IF ABLE
Execute - POWER OFF LANDING

Engine Failure - Airborne

Airspeed - 73Kts
Fuel Selector - SWITCH TANKS
Electric Fuel Pump - ON
Mixture - RICH
Carb Heat - ON
Primer - LOCKED
If power is regained - Carb Heat OFF, ELECTRIC FUEL PUMP OFF - Land as soon as practical

Power Off Landing

Airspeed - 63-73Kts
Mixture - CUT OFF
Fuel Selector - OFF
Magnetos - OFF
Doors - Unlatch
Master - OFF

Fire - During Start

Starter - CONTINUE TO CRANK
Mixture - CUT OFF
Throttle - FULL
Electric fuel pump - OFF
Fuel selector - OFF
Abandon if fire continues crank engine

Fire - In Flight

Source - ELECTRICAL or ENGINE
Master - OFF IF ELECTRICAL
Avionics - OFF IF ELECTRICAL
Vents - CLOSED
Fire Extinguisher - USE IF EQUIPED
Land - AS SOON AS PRACTICAL

Fire - In Flight Continued

Source - ENGINE
Mixture - OFF
Fuel Selector - OFF
Airspeed - 100Kts
Vents - CLOSED
Fire Extinguisher - USE IF EQUIPED
Land - AS SOON AS PRACTICAL
POWER OFF LANDING

Electrical Over Voltage

Avionics - OFF
Master - OFF
Master - ON CYCLED
If over voltage light is off
Avionics - ON
Land - AS SOON AS PRACTICAL

Ammeter Discharge

Alternator Switch - OFF
Non-Essential Equipment - OFF
Land - AS SOON AS PRACTICAL

Engine Roughness

Carb Heat - ON
If roughness continues after 1 min
Carb Heat - OFF
Mixture - ADJUST FOR SMOOTHNESS
Fuel Selector - SWITCH TANKS
Engine Gauges - CHECK - First indication of engine failure LOW PRESSURE, HIGH TEMP
Magnetos - CHECK LEFT, RIGHT, BOTH
Land - AS SOON AS PRACTICAL,
Prepare for POWER OFF LANDING

Emergency General

Squawk Codes

7500 - Hijacking
7600 - Lost Comms
7700 - Emergency

Emergency Radio Calls

Frequency - 121.5 - **STAY WITH ATC IF ALREADY TALKING TO THEM**
MAYDAY - 3x (Life Threatening)
PAN - 3x (Non-Life Threatening)

Frequencies Near KHFY

KGEZ - 122.8 CTAF - 121.55 ASOS
KMQJ - 122.975 CTAF - 124.175 AWOS
KBAK - 118.6 CT - 119.75 AWOS
INDY APP - 127.15 - 124.95
KIND TOWER - 120.9

Check List Legend

Pre-Flight

Engine Checks

Normal Operations

Emergency