



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
 Lights - ON/CHECK
 Stall Horn - TEST
 Pitot/ Static - CLEAR - Heat - IF IFR
 Flaps - DOWN CHECK HINGES
 PROPER DEGREE
 Master Switch - OFF

Exterior

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- 2325LBS - 111	VNE - 160
1531LBS - 88	
VSO- 41	VG - 73
Vs1- 47	
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