

BEFORE STARTING

Preflight COMPLETE
Passenger Briefing
Seats.....ADJUSTED
Seatbelts.....FASTENED
Flight Controls.....CHECK
All Switches.....OFF
Fuel Selector Valve..... BOTH
Fuel Shutoff Valve..... ON
Cowl Flaps.....OPEN
Beacon..... ON

STARTING

(For starting with External power – see aircraft POH)
STBY BATT SwitchTEST
Hold for 10 seconds verify green light remains on
STBY BATT Switch..... ARM
Engine Inst..... NO RED X's
Electrical System:
 BUS E..... ≥ 24 VOLTS
 M BUS..... ≤ 1.5 VOLTS
 BATT S Amps...NEGATIVE
 STBY BATT AnnunON
Throttle.....OPEN 1/4 INCH
Prop.....FORWARD
Mixture..... RICH
Master Switch.....ON

COLD START

Aux Fuel Pump.....ON UNTIL
 RISE IN FUEL FLOW
Aux Fuel Pump..... OFF
Mixture..... IDLE CUT-OFF

HOT START

Mixture—IDLE CUT-OFF

ENGINE FLOODED START

Mixture.....IDLE CUT-OFF
Throttle..... FULL OPEN

Brakes.....TESTED & HOLD
Propeller.....CLEAR
Ignition..... START
 When engine starts
Mixture. ADVANCE TO RICH
Throttle.....1000 RPM
Oil Pressure..... GREEN ARC

BEFORE TAXI

Flaps UP
Mixture..... LEAN FOR TAXI
Amps (M Batt & Batt S).....+
Low Volts Annun..... OFF
Avionics ON
Transponder..... 1200
CDI Nav Source..... SET
Heading bug..... SET
PFD ALT Pre Select..... SET
MFD Fuel quantity..... SET
Comm Freqs.....SET
NAV Freqs..... SET
Audio Panel..... SET
ATIS..... CHECK
PFD Baro..... SET
Standby Altimeter.....SET
Parking Brake..... OFF
Contact Ground or
Announce taxiing
Brakes.....RELEASE & TEST

TAXI

Flight Controls:
POSITION FOR WIND

BEFORE TAKEOFF

BrakesSET
Doors/Windows CLOSED
MixtureENRICHED
Throttle1800 RPM
MagnetosCHECK
(Max drop-175 RPM Max diff- 50 RPM)
Prop.....CYCLE
Engine Inst.....GREEN ARC
Ammeter CHECK
Suction GREEN ARC
Throttle idle...SMOOTH OPS
Throttle1000 RPM
TrimTAKEOFF
A/POFF
RadiosSET
Fuel ValveBOTH
MixtureAS REQUIRED
SeatbeltsFASTENED
Cowl Flaps.....OPEN

TAKEOFF BRIEFING

EMERGENCY RESPONSE

Contact Tower or
Announce departure
Approach PathCLEAR
Takeoff timeNOTE
Initial Heading.....NOTE

NORMAL TAKEOFF

Flaps10°
ThrottleFULL
Engine Inst..... GREEN ARC
Tach.....2400 RPM
Rotate55 KIAS
Flaps.....>65 KIAS UP
Climb80 KIAS

CRUISE CLIMB

Airspeed.....85-95 KIAS
Mixture..... AS REQUIRED
Engine Inst..... GREEN ARC

CRUISE

Pitch.....LEVEL
AirspeedCRUISE
Power.....SET
Prop.....2300 RPM
Trim.....ADJUST
Mixture.....LEAN
Engine Inst..... GREEN ARC
Cowl Flaps....AS REQUIRED
Cross check
Pitch -- Power – Trim
Heading Indicator
Altimeter Setting
Flight planOPEN
Flight Following.... REQUEST

DESCENT

Fuel Valve.....BOTH
Mixture..... AS REQUIRED
Power AS REQUIRED
Prop..... AS REQUIRED
Engine Inst.....GREEN ARC
Cowl Flaps....AS REQUIRED

Airport Environment
Preparation

BEFORE LANDING

Fuel Valve..... BOTH
Mixture AS REQUIRED
Power..... AS REQUIRED
Prop.....HIGH RPM
Seatbelts FASTENED
Lights AS REQUIRED
A/P.....OFF
GUMPCS

NORMAL LANDING

Airspeed70-80 KIAS
Flaps..... AS REQUIRED
Trim AS REQUIRED
BrakesMINIMUM

GO AROUND

ThrottleFULL
MixtureRICH
FlapsRETRACT TO 20°
Airspeed60 KIAS
ObstacleCLEAR
Airspeed80 KIAS
FlapsRETRACT SLOWLY
Cowl Flaps.....OPEN

*Cram It, Climb It, Clean It,
Cool it, Call It*

AFTER LANDING

Taxi ...CLEAR OF RUNWAY
FlapsRETRACTED
LightsAS REQUIRED
MixtureLEAN
Cowl Flaps.....OPEN
Contact ground ,taxi to ramp

SHUTDOWN

Tach time.....RECORD
S SwitchesOFF
L Lean toCUTOFF
I IgnitionOFF
M MasterOFF
Standby battery.....OFF
TrimTAKEOFF
Control LockINSTALL
Hobbs.....RECORD
Pitot CoverON
Tie downsSECURE
Flight PlanCLOSE

MISCELLANEOUS

V-SPEEDS

Vso.....41 KIAS
Vs1.....51 KIAS
Vx65 KIAS
Vy80 KIAS
Vg76 KIAS
Vfe.....99 KIAS
Va108-91 KIAS
Vno140 KIAS
Vne175 KIAS

FREQUENCIES:

ATIS126.85
Ground128.70
Tower118.50
Center120.40
UNICOM.....122.95
Flight Service122.65
CFD123.00
RWV, LHB, 60R..... 122.90

**EMERGENCY
ENGINE FAILURES**

TAKEOFF RUN

Throttle.....IDLE
BrakesAPPLY
Flaps RETRACT
MixtureCUTOFF
IgnitionOFF
Master.....OFF

CLIMB OUT

Airspeed75 KIAS
Fuel ValveOFF
Mixture..... CUTOFF
Throttle.....IDLE
Ignition.....OFF
FlapsAS REQUIRED
MasterOFF

IN-FLIGHT: RESTART

Airspeed76 KIAS
SELECT A FIELD: FLY TO IT
Fuel Shutoff Valve.....ON
Fuel Valve both.....ON
MixtureRICH
IGNITION:
Prop turningBOTH
Prop StoppedSTART
Try various combinations of
mixture, throttle, aux fuel
pump
Transponder7700
Radio:121.5
MAYDAY

IN-FLIGHT: SECURE

Airspeed 76 KIAS
Fuel Shutoff ValveOFF
Mixture CUTOFF
ThrottleIDLE
IgnitionOFF
Flaps AS REQUIRED
MasterOFF
DoorsOPEN
Seatbelts..... FASTEN
Prep Passengers

ENGINE FIRE IN FLIGHT

MixtureCUTOFF
Fuel Shutoff Valve.....OFF
Master Switch..... OFF
Vents/ Cabin Air/ Heat
CLOSED
Airspeed.....100 KIAS
or better to extinguish flames

PROCEED TO IN-FLIGHT
SECURE

ELECTRICAL FIRE

Master Switch.....OFF
Vents/Cabin/Heat/Air
CLOSED
Window: OPEN to clear
cabin.
LAND AS SOON AS
POSSIBLE