

BEFORE STARTING

Preflight Flight ...COMPLETE
Passenger Briefing
 Seats ADJUSTED
 Seatbelts FASTENED
 Radio MasterOFF
 Circuit BreakersIN
 Beacon.....ON
 BrakesTESTED/HOLD

STARTING

MixtureRICH
 ThrottleOPEN ¼ INCH
 PropellerAREA CLEAR
 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

Ignition Switch.....START
When engine starts

Mixture..ADVANCE TO RICH
 Throttle1000 RPM
 Oil PressureGREEN ARC
 Ammeter.....CHECK
 Mixture.....LEAN

BEFORE TAXI

Flaps UP
 Transponder 1200 & ALT
 Radio MasterON
 Audio PanelAUTO
 RadiosSET
 ATIS/WxCHECK
 Flight InstCHECK/SET
 Flight controlsCHECK
 AreaCLEAR
 Contact Ground
 Brakes ...RELEASE/TEST

TAXI

Flight Controls:
 POSITION FOR WIND

BEFORE TAKEOFF

BrakesSET
 Doors/Windows CLOSED
 MixtureENRICHED
 Throttle1800 RPM
 MagnetosCHECK
 (Max drop-150 RPM Max
 diff- 50 RPM)
 Engine Inst.....GREEN ARC
 Ammeter CHECK
 Suction GREEN ARC
 Throttle.....600-700 RPM
Check for Smooth Idle
 Throttle1000 RPM
 TrimTAKEOFF
 Flight InstSET
 RadiosSET
 Fuel ValveBOTH
 MixtureAS REQUIRED
 SeatbeltsFASTENED

**TAKEOFF BRIEFING
 EMERGENCY RESPONSE**

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

NORMAL TAKEOFF

FlapsUP
 ThrottleFULL
 Engine Inst..... GREEN ARC
 Rotate55 KIAS
 Climb74 KIAS

CRUISE CLIMB

Airspeed.....80-90 KIAS
 Mixture..... AS REQUIRED
 Engine Inst..... GREEN ARC

CRUISE

Pitch.....LEVEL
 AirspeedCRUISE
 Power.....2400 RPM
 Trim.....ADJUST
 Mixture.....LEAN
 Engine Inst..... GREEN ARC
 Check-.PITCH POWER TRIM
 Heading Indicator
 Altimeter Setting
 Flight planOPEN
 Flight Following.... REQUEST

DESCENT

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

**Airport Environment
 Preparation****BEFORE LANDING**

Fuel Valve..... BOTH
 Mixture AS REQUIRED
 Seatbelts FASTENED
 Lights AS REQUIRED
 A/P.....OFF
 GUMPS

NORMAL LANDING

Airspeed65 KIAS
 Flaps..... AS REQUIRED
 Trim AS REQUIRED
 BrakesMINIMUM

GO AROUND

ThrottleFULL
 Carb Heat.....OFF
 MixtureRICH
 FlapsRETRACT TO 20°
 Airspeed59 KIAS
 ObstacleCLEAR
 Airspeed74 KIAS
 FlapsRETRACT SLOWLY

*Cram It, Climb It, Clean It,
 Call It*

AFTER LANDING

Taxi ...CLEAR OF RUNWAY
 FlapsRETRACTED
 LightsAS REQUIRED
 MixtureLEAN
 Contact ground or taxi to
 ramp

SHUTDOWN

S SwitchesOFF
L Lean toCUTOFF
I IgnitionOFF
M MasterOFF
 TrimTAKEOFF
 Control LockINSTALL
 Hobbs/TachRECORD
 Pitot CoverON
 Tie downsSECURE
 Flight PlanCLOSE

MISCELLANEOUS**V-SPEEDS**

Vso.....40 KIAS
 Vs1.....48 KIAS
 Vx56 KIAS
 Vy74 KIAS
 Vg68 KIAS
 Vfe.....85 KIAS
 Va97-105 KIAS
 Vno129 KIAS
 Vne163 KIAS

FREQUENCIES:

ATIS126.85
 Ground128.70
 Tower118.50
 Departure.....134.30
 Center128.07
 UNICOM.....122.95
 Flight Service122.65
 CFD123.00
 RWV, LHB, 60R..... 122.90

**EMERGENCY
ENGINE FAILURES****TAKEOFF RUN**

Throttle.....IDLE
 BrakesAPPLY
 FlapsRETRACT
 MixtureCUTOFF
 IgnitionOFF
 Master.....OFF

CLIMB OUT

Airspeed65 KIAS
 Fuel ValveOFF
 Mixture.....CUTOFF
 Throttle.....IDLE
 Ignition.....OFF
 FlapsAS REQUIRED
 MasterOFF

IN-FLIGHT: RESTART

Airspeed65 KIAS
 SELECT A FIELD: FLY TO IT
 Fuel ValveON
 MixtureRICH
 Carb HeatON
 PrimerIN/LOCKED
 IGNITION:

Prop turningBOTH
 Prop StoppedSTART

Transponder7700
 Radio:121.5
 MAYDAY

IN-FLIGHT: SECURE

Airspeed 68 KIAS
 Fuel Shutoff Valve OFF
 Mixture CUTOFF
 ThrottleIDLE
 IgnitionOFF
 Flaps AS REQUIRED
 MasterOFF
 DoorsOPEN
 Seatbelts..... FASTEN
 Prep Passengers

ENGINE FIRE IN FLIGHT

MixtureCUTOFF
 Fuel Shut Off 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