

BEFORE STARTING

PreflightCOMPLETE
Passenger Briefing
Seats ADJUSTED
Seatbelts FASTENED
Avionics MasterOFF
Circuit BreakersIN
Beacon.....ON
BrakesTESTED/HOLD

STARTING

MixtureRICH
ThrottleOPEN ¼ INCH
PropellerAREA CLEAR
Master Switch.....ON

COLD OR WARM START?

COLD START

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

WARM START

NO PRIME!

Mixture.....IDLE CUT-OFF

Ignition Switch.....START

When engine starts

Advance Mixture slowly (3/4)
Throttle1000 RPM
Oil PressureGREEN ARC
Ammeter.....CHECK
Mixture.....LEAN

BEFORE TAXI

Flaps UP
Radio MasterON
Transponder 1200 & ALT
Audio PanelCHECK
RadiosSET
ATIS/WxCHECK
Flight InstCHECK/SET
Flight controlsCHECK
AreaCLEAR
Contact Ground
BrakesRELEASE/TEST

TAXI

Flight Controls:
POSITION FOR WIND

BEFORE TAKEOFF

BrakesSET
Doors/Windows CLOSED
MixtureENRICHED
Throttle1800 RPM
MagnetosCHECK
(max drop 150 RPM diff < 50 RPM)
Engine Inst.....GREEN ARC
Ammeter CHECK
Annunciators All OFF
Vacuum..... GREEN ARC
Throttle..... ALL OUT
Smooth Idle....600 700 RPM
Throttle1000 RPM
Autopilot OFF
TrimTAKEOFF
Flight Inst SET
Radios SET
Fuel Valve BOTH
MixtureAS REQUIRED
SeatbeltsFASTENED

Takeoff Briefing

Emergency Response

Contact Tower or
Announce departure
Approach PathCLEAR
Takeoff timeNOTE
Initial Heading.....NOTE
R.E.A.C.T: Rpm, Engine
inst., Airspeed, Centerline,
Takeoff point

NORMAL TAKEOFF

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

CRUISE CLIMB

Throttle FULL
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 – *Set to
Compass*
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
MixtureRICH
FlapsRETRACT TO 20°
Airspeed60 KIAS
ObstacleCLEAR
Airspeed74 KIAS
Flaps ...RETRACT 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

Transponder1200
S SwitchesOFF
L Lean toCUTOFF
I IgnitionOFF
M MasterOFF
TrimTAKEOFF
Control LockINSTALL
Hobbs/TachRECORD
Pitot CoverON
Tie downsSECURE
ChocksINSTALL
Flight PlanCLOSE

FLOODED ENGINE START

ThrottleHalf Open
MixtureIDLE CUTOFF

ENGAGE STARTER

When engine fires.....
Slowly advance mixture (3/4)
Retard Throttle to 1000 RMP

MISCELLANEOUS

V-SPEEDS

V_{so}.....40 KIAS
V_{s1}.....48 KIAS
V_x62 KIAS
V_x (50 ft obst.) 56 KIAS
V_y74 KIAS
V_g68 KIAS
V_{fe}.....85 KIAS
V_a90-105 KIAS
V_{no}129 KIAS
V_{ne}163 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
Flaps RETRACT
MixtureCUTOFF
IgnitionOFF
Master.....OFF

CLIMB OUT

Airspeed ...70 (flaps up) or 68
Fuel ValveOFF
Mixture..... CUTOFF
Throttle.....IDLE
Ignition.....OFF
FlapsAS REQUIRED
MasterOFF

IN-FLIGHT: RESTART

Airspeed68 KIAS
SELECT A FIELD: FLY TO IT
Fuel Shutoff ValveON
Fuel Selector BOTH
MixtureRICH
Auxiliary Fuel Pump ON

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 higher to extinguish flames

PROCEED TO IN-FLIGHT
SECURE

ELECTRICAL FIRE

Master Switch.....OFF
Vents/Cabin/Heat/Air
CLOSED
Fire extinguisher IF NEEDED
Open window/vents after fire
is out to clear cabin
LAND AS SOON AS
POSSIBLE