

## BEFORE STARTING

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

## STARTING

(For starting with External power – see aircraft POH)  
STBY BATT Switch .....TEST  
*Hold for 10 seconds verify green light remains illuminated*  
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 Annun .....ON  
Throttle.....OPEN 1/4 INCH  
Mixture..... RICH  
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

Mixture—IDLE CUT-OFF

## NO PRIME!

Mixture.....IDLE CUTOFF  
Ignition Switch.....START

When engine starts, advance mixture slowly to ¾ position

Oil Pressure...GREEN ARC  
Throttle... 1000 RPM  
Ammeter...CHECK  
Mixture...LEAN

## BEFORE TAXI

Flaps ..... UP  
Mixture..... LEAN FOR TAXI  
Amps (M Batt & Batt S).....+  
Aux Fuel Pump.....OFF  
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  
Autopilot Baro..... SET  
A/P Alt Preselect..... SET  
Parking Brake..... OFF  
Contact Ground or  
Announce taxiing  
Brakes.....RELEASE & TEST

## TAXI

Flight Controls:  
POSITION FOR WIND

## BEFORE TAKEOFF

Brakes .....SET  
Doors/Windows .... CLOSED  
Mixture .....ENRICHED  
Throttle .....1800 RPM  
Magnetos .....CHECK  
(Max drop-175 RPM Max diff- 50 RPM)  
Engine Inst.....GREEN ARC  
Ammeter ..... CHECK  
VAC..... GREEN ARC  
Throttle idle...SMOOTH OPS  
Throttle ..... 1000 RPM  
Trim .....TAKEOFF  
A/P .....OFF  
Radios .....SET  
Fuel Valve .....BOTH  
Aux Fuel Pump.....OFF  
Mixture .....AS REQUIRED  
Seatbelts .....FASTENED  
**Emer. Response.....BRIEF**  
Contact Tower or  
Announce departure  
Approach Path .....CLEAR  
Takeoff time .....NOTE  
Initial Heading.....NOTE  
**R.E.A.C.T**  
Rpm, engine inst., airspeed,  
centerline, take off point

**DO NOT REMOVE THIS  
CHECKLIST FROM THE  
AIRCRAFT**

## NORMAL TAKEOFF

Flaps .....0° to 10°  
Throttle .....FULL  
Engine Inst..... GREEN ARC  
Rotate .....55 KIAS  
Flaps.....>60 KIAS UP  
Climb .....74 KIAS

## CRUISE CLIMB

Airspeed.....80-90 KIAS  
Mixture..... AS REQUIRED  
Engine Inst..... GREEN ARC  
Aux Fuel Pump.....OFF

## CRUISE

Pitch.....LEVEL  
Airspeed .....CRUISE  
Power.....2400 RPM  
Trim.....ADJUST  
Mixture.....LEAN  
Engine Inst..... GREEN ARC  
*Cross check*  
Pitch -- Power – Trim  
Heading Indicator  
Altimeter Setting  
Flight plan .....OPEN  
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  
Aux Fuel Pump.....OFF  
Seatbelts ..... FASTENED  
Lights ..... AS REQUIRED  
A/P.....OFF  
GUMPS

## NORMAL LANDING

Airspeed .....65 KIAS  
Flaps..... AS REQUIRED  
Trim ..... AS REQUIRED  
Brakes .....MINIMUM

## GO AROUND

Throttle .....FULL  
Mixture .....RICH  
Flaps .....RETRACT TO 20°  
Climb .....60 KIAS  
Obstacle .....CLEAR  
Flaps .....RETRACT TO 10°  
Airspeed .....min 65 KIAS  
Flaps .....RETRACT

## AFTER LANDING

Taxi ...CLEAR OF RUNWAY  
Flaps .....RETRACTED  
Aux Fuel Pump..... OFF  
Lights .....AS REQUIRED  
Mixture .....LEAN  
Contact ground or taxi

## SHUTDOWN

Transponder.....1200  
Tach time.....RECORD  
**S** Switches .....OFF  
**L** Lean to .....CUTOFF  
**I** Ignition .....OFF  
**M** Master .....OFF

Standby Battery.....OFF  
Trim .....TAKEOFF  
Control Lock .....INSTALL  
Hobbs.....RECORD  
Pitot Cover .....ON  
Tie downs .....SECURE  
Flight Plan .....CLOSE

## MISCELLANEOUS

## V-SPEEDS

Vso.....40 KIAS  
Vs1.....48 KIAS  
Vx .....62 KIAS  
Vy .....74 KIAS  
Vg .....68 KIAS  
Vfe.....85 KIAS  
Va .....90-105 KIAS  
Vno .....129 KIAS  
Vne .....163 KIAS

## FREQUENCIES:

ATIS .....126.85  
Ground .....128.70  
Tower .....118.50  
Approach.....134.30  
Flight Service .....122.65

## ENGINE FLOODED START

Mixture.....IDLE CUT-OFF  
Throttle..... HALF OPEN  
Brakes..... HOLD  
Propeller.....CLEAR  
Ignition..... START  
*When engine starts*  
Slowly advance mixture (3/4)  
Retard Throttle.....1000 RPM

Oil Pressure..... GREEN ARC

## EMERGENCY ENGINE FAILURES

## TAKEOFF RUN

Throttle.....IDLE  
Brakes .....APPLY  
Flaps ..... RETRACT  
Mixture .....CUTOFF  
Ignition .....OFF  
Master.....OFF

## CLIMB OUT

Airspeed .....68 KIAS  
Fuel Valve .....OFF  
Mixture..... CUTOFF  
Throttle.....IDLE  
Ignition.....OFF  
Flaps .....AS REQUIRED  
Master .....OFF

## IN-FLIGHT: RESTART

Airspeed .....68 KIAS  
SELECT A FIELD: FLY TO IT  
Fuel Shutoff Valve.....ON  
Fuel Valve .....BOTH  
Mixture .....RICH  
IGNITION:  
Prop turning .....BOTH  
Prop Stopped .....START  
Try various combinations of  
mixture, throttle, aux fuel  
pump  
Transponder .....7700  
Radio: .....121.5  
MAYDAY

## IN-FLIGHT: SECURE

Airspeed ..... 68 KIAS  
Fuel Shutoff Valve .....OFF  
Mixture ..... CUTOFF  
Throttle .....IDLE  
Ignition .....OFF  
Flaps ..... AS REQUIRED  
Master .....OFF  
Doors .....OPEN  
Seatbelts..... FASTEN  
Prep Passengers

## ENGINE FIRE IN FLIGHT

Mixture .....CUTOFF  
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

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