

PREFLIGHT- CABIN

1. Cover REMOVE (store on table in outbuilding)
2. POH/AFM AVAILABLE IN AIRPLANE
3. Control Wheel Lock..... REMOVE
4. Parking BrakeSET
5. Aspen EFIS Master Switch..... OFF
6. Avionics Power Switches.. PRIM & STBY OFF
7. Ignition Switch OFF
8. Landing Gear Lever DOWN
9. Master Switch ON
10. FlapsFULL DOWN
11. Low Voltage & Alternate Out Lights ON
12. Vacuum Warn Buttons . CHECK EXTENDED
13. Landing Gear Lights/Horn...PRESS TO TEST
14. Fuel On-Off Valve..... ON
15. Fuel Quantity Indicators CHECK QUANTITY
16. Fuel Selector Valve..... BOTH ON
17. STBY Avionics Switch..... ON
18. Avionics Cooling Fan CHECK AUDIBLE
19. STBY Avionics Switch..... OFF
20. Bcn/Strobe/Posit/Land/Taxi Lights..... ON
21. Stall Warning Vane.....CHECK for horn
22. Pitot Tube Cover REMOVE
23. Strobe Lights CHECK
24. Position Lights CHECK
25. Beacon CHECK
26. Landing and Taxi Lights CHECK
27. Position/Landing/Taxi Lights..... OFF
28. Windshield Anti-Ice.. ON, panel warm, OFF
29. Pitot HeatON 30 seconds, then OFF
30. Pitot Tube.....CLEAR and VERY WARM
31. Stall Warning Sensor. PERCEPTIBLY WARM
32. Ice Detector Light.....CHECK OPERATION
33. Master Switch OFF
34. Static Pressure Alternate Source OFF
35. Trim Controls NEUTRAL
36. Oxygen Supply Pressure..... CHECK
37. Oxygen MasksAVAILABLE as required
38. Hydraulic Fluid Reservoir CHECK
39. VOR Log.....CHECK
40. FLASHLIGHT..... AVAILABLE if night flight
41. Digital Clock VERIFY/SET correct time

PREFLIGHT- EMPENNAGE

1. Static Source Openings (2)..... CHECK
2. Baggage Door CHECK
3. RSM CONDITION and SECURITY
4. RSM Vent Hold.....CLEAR of OBSTRUCTIONS
5. RSM Lightning Tape . CONDITION/SECURITY
6. Rudder Gust Lock REMOVE
7. Tail Tie-Down REMOVE
8. Control Surfaces..... CHECK

PREFLIGHT- RIGHT WING

1. Main Wheel TireCHECK (55 PSI)
2. Main Wheel Tire and Wheel Well..... CHECK
3. Flaps, track, linkage..... CHECK
4. Aileron..... CHECK

5. Aileron Gap Seal..... CHECK
6. Fuel Tank Vent CHECK
7. Wing Tie Down..... DISCONNECT
8. De-ice Boots...CHECK (tears,abrasion,clean)
9. Fuel Tank Sump Quick-Drain Valve.... DRAIN
10. Fuel QuantityCHECK VISUALLY
11. Fuel Filler Cap SECURE

PREFLIGHT- NOSE

1. Prop & Spinner..... CHECK
2. Prop Anti-Ice Boots CHECK
3. Air Inlets (3) CHECK
4. Nose Gear Doors..... CHECK
5. Nose Wheel TireCHECK (88 PSI)
6. Nose Strut & Wheel Well..... CHECK
7. Engine Oil Filler Cap CHECK
8. Engine Oil Dipstick .. CHECK(7-10qt),SECURE
9. Fuel Strainer Quick-Drain..... DRAIN (#1)
10. Fuel Reservoir Quick-Drain DRAIN (#2)
11. Vapor Return Line DRAIN (#3)

PREFLIGHT- LEFT WING

1. De-ice Boots...CHECK (tears,abrasion,clean)
2. Fuel Tank Sump Quick-Drain Valve.... DRAIN
3. Fuel Quantity CHECK VISUALLY
4. Fuel Filler Cap..... SECURE
5. Wing Tie-Down DISCONNECT
6. Fuel Tank Vent CHECK
7. Aileron..... CHECK
8. Aileron Gap Seal..... CHECK
9. Flaps, track, linkage CHECK
10. Main Wheel TireCHECK (55 PSI)
11. Main Wheel Tire and Wheel Well.... CHECK
12. Parking Brake RELEASE

POSTFLIGHT- SECURING AIRPLANE

1. Parking Brake SET
2. Throttle 1000 RPM
3. Turbocharger Cool Down.....5 minutes
4. Electrical Equipment (Except Beacon) ... OFF
5. Aspen EFIS Master Switch..... OFF
6. Avionics PRIM/STBY Switches..... OFF
7. Throttle IDLE
8. Magneto..... MOMENTARY OFF CHECK
9. Mixture IDLE CUT OFF
10. Magneto Switch OFF
11. Master Switch OFF
12. Control Lock INSTALL
13. Fuel Selector Valve LEFT or RIGHT
(select downhill wing if parked on slope)
14. Cabin Heat/Air Vents CLOSED
15. Hobbs and Tach Time RECORDED
16. Pitot Cover INSTALLED
17. Wheel Chocks INSTALLED
18. Tiedowns (3) SECURED
19. Doors..... LOCKED
20. Aircraft INSPECTED FOR DAMAGE
21. Aircraft Cover INSTALL

BEFORE STARTING ENGINE

1. Hobbs and Tach Time.....RECORDED
2. Preflight Inspection.....COMPLETE
3. Passenger BriefingCOMPLETE
4. Seats, Belts, Harnesses ADJUST & LOCK
5. Brakes.....TEST & SET
6. Aspen EFIS Master Switch..... OFF
7. Avionics PRIM and STBY Switches OFF
8. Circuit Breakers CHECK IN
9. Electrical Equipment..... OFF
10. Landing Gear Lever DOWN
11. Autopilot OFF
12. Cowl Flaps OPEN
13. Manual Primer IN and LOCKED

STARTING ENGINE

1. Beacon Switch..... ON
2. Position Lights ON as required (if night)
3. Throttle CLOSED
4. Propeller..... HIGH RPM
5. Mixture..... RICH
6. Propeller Area CLEAR
7. Battery Master Switch ON
8. Auxiliary Fuel Pump Switch..... ON
9. Throttle .ADVANCE for 50-60 PPH then IDLE
10. Auxiliary Fuel Pump Switch..... OFF
11. Ignition Switch START
12. Throttle ADVANCE slowly
13. Ignition Switch ... RELEASE as engine starts
14. Throttle 1000 RPM
15. Oil Pressure CHECK
16. Flaps UP
17. Mixture .LEANED (to just rich of rpm drop)
18. Dual Alternator Functional Check
 - a) ALT1 & ALT2 switches OFF
CHECK LOW VOLTAGE & ALT lights ILLUMINATED
 - b) ALT1 switch ON
CHECK LOW VOLTAGE & ALT 1 light EXTINGUISHED
V/A switch SELECT ALT1 and VERIFY charging
 - c) ALT1 switch OFF, ALT2 switch ON
CHECK LOW VOLTAGE & ALT 2 light EXTINGUISHED
V/A switch SELECT ALT2 and VERIFY charging
 - d) ALT1 & ALT2 switches ON
V/A switch SELECT BAT and VERIFY charging
V/A switch SELECT VOLT and VERIFY 28v
19. Aspen EFIS Master Switch..... ON
20. Avionics PRIM Switch..... ON
21. Initial Fuel..... SPECIFIED on JPI EDM830
22. Aspen AHRS Alignment COMPLETE prior to taxi

RUNUP

1. Parking BrakeSET
2. Seats, Belts, Harnesses CHECK SECURE
3. Cabin Doors..... CLOSED & LOCKED
4. Flight Controls..... FREE & CORRECT
5. EFIS..... CDI Source, IAS, HDG, ALT,
..... BARO, GPSS/Hdg

6. Flight Instruments.....CHECK & SET
7. Auxiliary Fuel Pump OFF
8. Fuel On-Off Valve..... RECHECK ON (full in)
9. Fuel Quantity CHECK
10. Fuel Selector Valve RECHECK BOTH ON
11. Radios & Avionics.....SET
12. Propeller Anti-Ice Switch ON
13. Prop Anti-Ice Ammeter GREEN
..... momentary change during cycling
14. Windshield Anti-Ice Switch ON
observe airplane ammeter or compass flicker
15. Windshield Anti-Ice Switch OFF
16. Prop Anti-Ice Switch OFF after 1 minute
17. Autopilot Automatic Disconnect PERFORM
 - a. PULL-TURN knob .. CENTER and PULL OUT
 - b. AP Lateral TRIM control CENTER
 - c. Control Wheel HOLD to reduce motion
 - d. AP ON-OFF Rocker Switch ON
 - e. AP "TEST EA FLT" button PUSH and HOLD
VERIFY: AP On-Off Rocker Switch OFF,
AP DISC WARN light YELLOW,
AP Disengage Horn 1-2 sec tone
 - f. AP DISENGAGE switchPULL
VERIFY: AP DISC WARN light out
 - g. PULL-TURN knob PUSH IN
18. Electric Trim
 - a. Elect Trim Disengage Switch ..DISENGAGE
 - b. Electric Trim..... VERIFY disabled
 - c. Electric Trim Switch ON
 - d. Electric Trim.....ACTUATE, SET for takeoff
19. Rudder TrimSET for takeoff
20. Oil temp MINIMUM 75°F
21. Throttle 1700 RPM
 - a. Magnetos..... CHECK (150/50)
 - b. Propeller CYCLE
 - c. Suction Gage and Buttons CHECK
 - d. De-Icing Press Switch..... ON & release
VERIFY: Tail, Outer Wing, Inner Wing INFLATE
6 sec; Pressure Light ON in 3 sec, OFF after 18
sec; BOOTS check for COMPLETE DEFLATION
 - e. Engine Instruments & Ammeter . CHECK
22. Throttle IDLE CHECK
23. Throttle 1000 RPM
24. Throttle Friction Lock..... ADJUST
25. Wing Flaps.. 0-20° (10° typical,20° soft field)
26. CHTs MINIMUM 160°F
27. Cowl Flaps OPEN
28. Parking Brake RELEASE

BEFORE TAKEOFF (crossing hold short line)

1. Mixture FULL RICH
2. Landing & Taxi Light..... ON
3. Strobe LightsAS DESIRED
4. Transponder..... VERIFY squawk
5. Pitot Heat.....AS REQUIRED
6. Prop Anti-Ice Switch.....AS REQUIRED
7. Windshield Anti-Ice Switch AS REQUIRE

TAKEOFF – NORMAL

1. Mixture..... FULL RICH
2. Cowl Flaps OPEN
3. Autopilot Verify OFF and Turn Knob IN
4. Wing Flaps...0-20° (10° typical, 20° soft field)
5. Brakes..... APPLY
6. ThrottleADVANCE to 50% HP
7. Brakes.....RELEASE
8. ThrottleADVANCE over 5-10sec
9. Power 34"and 2700 RPM (5 min limit)
10. Mixture ADJUST to redline flow 186 PPH
11. Elevator Control LIFT NOSE at **65-70 kts**
12. Climb Speed **80-90 kts** (Flaps 10°)
13. Brakes. APPLY momentarily when airborne
14. Landing Gear RETRACT at positive climb
15. Wing FlapsRETRACT after obstacles & **85kt**
16. Climb Speed **100-120 kts** (Vy 100)

TAKEOFF - SHORT

1. Wing Flaps 10°
2. Steps 1-10 of Normal Takeoff
3. Elevator Control LIFT NOSE at **65 kts**
4. Climb Speed 78 KIAS (Flaps 10°)
5. Landing GearRETRACT after obstacles cleared
6. Wing Flaps..... RETRACT after **85 kts**

ENROUTE CLIMB

1. Airspeed105-120 kts (120 for better cooling)
2. Power 30" and 2500 RPM
3. Mixture LEAN to 145 PPH (~25.3 GPH on JPI) richer if needed for better cooling
4. Cowl Flaps OPEN

MAXIMUM PERFORMANCE CLIMB

1. Airspeed 100 KIAS
2. Power 32" and 2600 RPM to 10,000'
3. Mixture LEAN to 153 PPH (~26.7 GPH on JPI) richer if needed for better cooling
4. Fuel Selector Valve..... BOTH
5. Cowl Flaps OPEN

CRUISE

1. Power 2300-2500RPM,15-30"MP,<= **75% HP**
2. Elevator and Rudder Trim ADJUST
3. Cowl Flaps AS REQUIRED (half open typical)
4. Mixture....PRELEAN to 1400F on cylinder #1
5. Mixture LEAN to 100F Rich of Peak using JPI (~110 PPH or 19.1 GPH on JPI at 75% HP typ)
6. Cowl Flaps AS REQUIRED for CHT≤380°F

DESCENT

1. Auxiliary Fuel pump OFF
2. Power AS DESIRED (monitor **JPI shock cooling CLD<50°/min**, gradual 3"MP/min reduction typical)
3. Cowl Flaps CLOSED (re-open as needed during decent and after level off)
4. Mixture NO CHANGE under normal conditions

BEFORE LANDING

1. Seats, Belts, Harnesses SECURE
2. Auxiliary Fuel Pump OFF
3. Cowl Flaps CLOSED
4. Fuel Selector Valve..... BOTH ON

5. Landing Gear EXTEND (below 165 KIAS)
6. Landing Gear CHECK
7. Mixture FULL RICH after final pwr reduction
8. Propeller HIGH RPM after final pwr reducti
9. Autopilot OFF (before landing)

NORMAL LANDING

1. Airspeed85 to 95 KIAS (flaps UP)
2. Wing Flaps..... AS DESIRED
3. Airspeed 70 to 80 KIAS (flaps DOWN)
4. Elevator Trim..... ADJUST as desired
5. Touchdown MAIN WHEELS FIRST
6. Landing Roll... LOWER NOSE WHEEL GENTLY
7. Braking MINIMUM REQUIRED

SHORT FIELD LANDING

1. Wing Flaps..... FULL DOWN
2. Airspeed 74 KIAS
3. Elevator Trim..... ADJUST
4. Power .. REDUCE idle after clearing obstacle
5. Touchdown MAIN WHEELS FIRST
6. Braking APPLY HEAVILY
7. Wing Flaps.. RETRACT for maximum braking

BALKED LANDING / MISSED APPROACH

1. Autopilot DISENGAGE Switch PULL BACK OFF
2. Mixture FULL RICH
3. Propeller FULL RPM
4. Power 34" and 2700 RPM (5 min limitation)
5. Wing Flaps....RETRACT to 20° (immediately)
6. Climb Speed 70 KIAS
7. Mixture ADJUST to 186 PPH
8. Cowl Flaps OPEN
9. Wing Flaps..... RETRACT slowly after 75 KIAS

AFTER LANDING

1. Turbocharger 5 min cool down
2. Mixture ...LEANED (to just rich of rpm drop)
3. Wing Flaps..... RETRACT
4. Cowl Flaps OPEN
5. Landing Light..... OFF
6. Taxi LightAS REQUIRED
7. Strobe Light.....AS REQUIRED
8. Pitot Heat..... OFF
9. Prop Anti-Ice Switch..... OFF
10. Windshield Anti-Ice Switch OFF

ICING ENCOUNTERS**Before Visible Moisture Encountered below 40°F:**

1. Prop Anti-Ice Switch..... ON
2. Prop Anti-Ice Ammeter MONITOR
3. Windshield Anti-Ice Switch ON
4. Pitot Switch ON

During Icing Encounters:

5. Ice-Detector Light ON as required
6. Ice Build-up MONITOR until 1/4 to 1/2"
7. De-icing Switch ON and RELEASE
8. Power INCREASE as required
9. Airspeed . MAINTAIN BETWEEN 90-165 KIAS with 1/2" or more of ice accumulation
10. Cowl Flaps AS REQUIRED, CHT≤380°F (use CLIMB Power/Mixture settings as required)

HIGH ALTITUDE CRUISE Power Setting Notes (Follow Normal CRUISE Checklist):

- **Observe AFMS MP Limitations**
- Use the higher RPM range settings to reduce bootstrapping and smoother engine operation

HIGH ALTITUDE DESCENT Power Setting Notes (Follow Normal DESCENT Checklist):

- Plan descent using 65%-75% CRUISE POWER range settings to keep engine warm
- Lower landing gear if additional drag is needed to increase descent rate (observe landing gear limits 165 IAS operate, 203 IAS down)

AFMS Maximum Manifold Pressure Limitations						
Take-off 5 min	S.L.-10K ft MSL	12K-16K ft MSL	20K ft MSL	22K ft MSL	24K ft MSL	26K ft MSL
34 " MP	32" MP	31" MP	29" MP	25" MP	23" MP	21" MP

Example Power Settings from AFMS												
Pressure Altitude	%HP MP RPM TAS				%HP MP RPM TAS				%HP MP RPM TAS			
	4000'	-13C				7C				27C		
75		27	2300	153	75	29	2300	156	75	30	2400	162
71		26	2300	150	72	28	2300	154	71	28	2400	157
8000'	-21C				-1C				19C			
	75	27	2300	163	75	2	2300	167	75	29	2400	171
	72	26	2300	161	68	26	2300	160	72	28	2400	167
12000'	-29C				-9C				11C			
	75	26	2300	174	75	27	2300	177	75	28	2400	180
	71	24	2300	170	72	26	2300	174	70	26	2400	174
16000'	-37C				-17C				3C			
	75	24	2400	178	75	26	2400	182	75	28	2400	184
	68	22	2400	169	70	24	2400	175	70	26	2400	178
20000'	-45C				-25C				-5C			
	75	24	2400	183	75	26	2400	187	75	27	2400	191
	71	22	2400	179	72	24	2400	183	72	26	2400	187
24000'	-53C				-33C				-13C			
	75	21	2500	186	75	23	2500	190	(not available)			
	71	20	2500	181	72	22	2500	186	71	23	2500	186
	65	18	2500	172	67	20	2500	178	68	22	2500	182

Approximate Approach and Landing Power Settings (adjust as needed)

Approach Segments	MP	RPM	GEAR	FLAPS	AIRSPEED	VSI
Procedure Turn	18"	2300	UP	0	120	0
Inbound to FAF	17"	2300	UP	10	100	0
Inbound to FAF - alternative	22"	2300	DOWN	10	100	0
Precision Descent	16"	2300	DOWN	10	100	-500
Non-precision Descent	13"	2300	DOWN	10	100	-800
Non-precision Drive	22"	2300	DOWN	10	100	0
Landing Segments	MP	RPM	GEAR	FLAPS	AIRSPEED	VSI
45 - Downwind	21"	2300	DOWN	0	100	0
Downwind Descent	15"	Full	DOWN	10	100	-500
Base	15"	Full	DOWN	20	90	-500
Final	15"	Full	DOWN	30	80	-500
Final (short field)	15"	Full	DOWN	30	74	-400

ENGINE FAILURE DURING TAKEOFF ROLL

1. Throttle..... IDLE
2. BrakesAPPLY
3. Wing Flaps RETRACT
4. Mixture..... IDLE CUT-OFF
5. Ignition Switch.....OFF
6. Master Switch.....OFF

ENGINE FAILURE IMMEDIATELY AFTER TAKEOFF

1. Airspeed.....85 KIAS
2. Mixture.....IDLE CUT-OFF
3. Fuel On-Off ValveOFF (pull out)
4. Wing Flaps AS REQ'D (30° recommended)
5. Ignition Switch.....OFF
6. Master Switch.....OFF

ENGINE FAILURE DURING FLIGHT (RESTART)

1. Airspeed.....85 KIAS
2. Fuel Selector Valve BOTH ON
3. Auxiliary Fuel Pump.....ON
4. Throttle..... HALF OPEN
5. Mixture ... Lean from full rich until restart occurs
6. Mixture..... ADJUST
7. Throttle..... ADJUST
8. Auxiliary Fuel Pump.....OFF
9. Mixture..... ADJUST
10. Fuel Selector Valve AS DESIRED

EMERGENCY LANDING with NO ENGINE POWER

1. Airspeed.....90 KIAS (flaps UP), 80 KIAS (DOWN)
2. Mixture.....IDLE CUT-OFF
3. Fuel On-Off ValveOFF (pull out)
4. Ignition Switch.....OFF
5. Landing Gear DOWN (UP if rough or soft terrain)
6. Wing Flaps ... AS REQUIRED (30° recommended)
7. Doors UNLATCH PRIOR TO TOUCHDOWN
8. Master Switch..... OFF when landing is assured
9. Touchdown..... SLIGHTLY TAIL LOW
10. Brakes..... APPLY HEAVILY

PRECAUTIONARY LANDING w/ ENGINE POWER

1. Airspeed.....80 KIAS
2. Wing Flaps 10°
3. Selected Field..... FLY OVER
4. Electrical Switches.....OFF
5. Landing Gear DOWN (UP if rough or soft terrain)
6. Wing Flaps30° (on final approach)
7. Airspeed..... 75 KIAS
8. Doors UNLATCH PRIOR TO TOUCHDOWN
9. Avionics Power & Master OFF when landing assured
10. Touchdown..... SLIGHTLY TAIL LOW
11. Ignition Switch.....OFF
12. Brakes..... APPLY HEAVILY

ENGINE FIRE IN FLIGHT

1. Mixture.....IDLE CUT-OFF
2. Fuel On-Off ValveOFF (pull out)
3. Master Switch.....OFF
4. Cabin Heat and Air.....OFF
5. Airspeed.....120 KIAS
6. Forced Landing EXECUTE

ENGINE FIRE DURING START ON GROUND

1. Ignition Switch..... START (continue cranking)
 2. Auxiliary Fuel Pump.....OFF
- If engine starts:**
3. Power 1700 RPM for a few minutes
 4. Engine..... SHUTDOWN and inspect for damage

If engine fails to start:

5. Cranking.....CONTINUE (ignition switch START)
6. Throttle..... FULL OPEN
7. Mixture..... IDLE CUT OFF
8. Fire Extinguisher OBTAIN
9. Engine..... SECURE
 - a. Ignition SwitchOFF
 - b. Master SwitchOFF
 - c. Fuel On-Off Value.....OFF (pull out)
10. Fire..... EXTINGUISH using fire extinguisher
11. Fire Damage..... INSPECT

ELECTRICAL FIRE IN FLIGHT**If Aspen PFD IS source of smoke or fire:**

1. Aspen PFD on/off Switch.....OFF

If Aspen PFD IS NOT source of smoke or fire:

1. Master Switch.....OFF
 2. Avionics Power Switch.....OFF
 2. All Other Switches (except ignition)OFF
 3. Vents/Cabin Air/Heat CLOSED
 4. Fire Extinguisher..... ACTIVATE
- If fire is out & electrical power is necessary:**

5. Master Switch.....ON
6. Circuit Breakers CHECK (do not reset)
7. Radio Switches.....OFF
8. Avionics Power Switch.....ON
9. Radio/Electrical SwitchesON, 1 at a time
10. Vents/Cabin Air/Heat OPEN when fire out

CABIN FIRE

1. Master Switch.....OFF
2. Vents/Cabin Air/Heat CLOSED
3. Fire Extinguisher..... ACTIVATE
4. Land as soon as practical

WING FIRE

1. Navigation Light SwitchOFF
2. Strobe light Switch.....OFF
3. Pitot Heat Switch.....OFF

LANDING GEAR FAILS TO RETRACT

1. Master Switch..... ON
2. Landing Gear Lever.....CHECK (lever full up)
3. Landing Gear & Gear Pump CBs IN
4. Gear Up Light..... CHECK
5. Landing Gear Lever..... RECYCLE
6. Gear Motor CHECK operation (ammeter & noise)

LANDING GEAR FAILS TO EXTEND

1. Landing Gear Lever..... DOWN
2. Emergency Hand PumpEXTEND & PUMP
3. Gear Down Light..... ON
4. Pump Handle STOW

GEAR UP LANDING

1. Landing Gear Lever..... UP
2. Landing Gear & Gear Pump CBs IN
3. Runway SELECT longest hard surface/smooth sod
4. Wing Flaps 30° (on final approach)
5. Airspeed 75 KIAS
6. Doors UNLATCH PRIOR TO TOUCHDOWN
7. Avionics Power & Master Switches.....OFF
8. Touchdown..... SLIGHTLY TAIL LOW
9. Mixture..... IDLE CUT-OFF
10. Ignition Switch.....OFF
11. Fuel On-Off Valve OFF
12. AirplaneEVACUATE

LANDING WITHOUT POSITIVE GEAR DOWN

1. Before Landing Check..... COMPLETE
2. Approach NORMAL (full flap)
3. Landing Gear & Gear Pump CBs IN
4. LandingTAIL LOW as smoothly as possible
5. Braking.....MINIMUM necessary
6. Taxi SLOWLY
7. Engine..... SHUTDOWN before inspecting gear

LANDING WITH A DEFECTIVE NOSE GEAR

1. Moveable Load..... TRANSFER to baggage area
2. Passenger MOVE to rear seat
3. Before Landing Checklist COMPLETE
4. Runway..... HARD SURFACE or SMOOTH SOD
5. Wing Flaps30°
6. Cabin Doors . UNLATCH PRIOR TO TOUCHDOWN
7. Avionics Power & Master Switches.....OFF
8. Land SLIGHTLY TAIL LOW
9. Mixture..... IDLE CUT-OFF
10. Ignition Switch.....OFF
11. Fuel On-Off Valve OFF (pull out)
12. Elevator Control HOLD NOSE OFF GROUND
13. Airplane EVACUATE as soon as it stops

LANDING WITH A FLAT MAIN TIRE

14. ApproachNORMAL (full flap)
15. Touchdown..... GOOD TIRE FIRST, hold off bad
16. Direction Control .. MAINTAIN CONTROL using brake on good wheel

DITCHING

1. Radio..... TRANSMIT MAYDAY, then 7700
2. Heavy Objects.....SECURE OR JETTISON
3. Landing Gear..... UP
4. Wing Flaps 30°
5. Power .ESTABLISH 300 ft/min DESCENT at 75 KIAS
6. Approach: High Winds, Heavy Seas.. INTO WIND
Light Winds, Heavy Swells PARALLEL TO SWELLS
7. Cabin Doors UNLATCH
8. Touchdown LEVEL ATTITUDE @ 300 ft/min
9. Face.... CUSHION at touchdown with folded coat
10. Airplane EVACUATE
11. Life Vests and RaftINFLATE

EMERGENCY DESCENT

1. Seat Belts and Shoulder Harnesses SECURE
 2. Throttle..... IDLE
 3. Propeller HIGH RPM
 4. Mixture FULL RICH
 5. Landing Lear EXTENDED
 6. Wing Flaps UP
- Airspeed SMOOTH AIR:*
7. During landing gear extension.....165 KIAS
 8. After landing gear is full extended203 KIAS
- Airspeed ROUGH AIR*
9. 4000 Lbs.....130 KIAS
 10. 3350 Lbs.....119 KIAS
 11. 2700 Lbs.....106 KIAS

EXCESSIVE FUEL VAPOR

1. Auxiliary Fuel PumpON
2. Mixture RESET as required
3. Fuel Selector Valve BOTH ON
(if vapor symptoms)
4. Auxiliary Fuel Pump OFF (after stabilization)
5. Mixture RESET as required
6. Fuel Selector Valve AS DESIRED

AUTOPILOT MALFUNCTION

1. Control Wheel. OPERATE to override autopilot
2. AUTOPILOT DISENGAGE switchPULL OFF

ELECTRIC TRIM RUNAWAY

1. Elevator Trim Disengage SwitchDISENGAGE
2. Elevator Trim Circuit Breaker PULL-OFF
3. Manual Trim AS REQUIRED

ONE ALT OFF LIGHT ILLUMINATED

1. Affected alternator switch CYCLE OFF and ON
If ALT OFF light is still illuminated
2. TURN OFF affected alternator and reduce electric load to extinguish LOW VOLTAGE

If affected alternator ALT REG breaker is tripped

- 3 RESET and repeat 1&2

If affected alternator ALT circuit breaker is out

4. V/A SELECT affected alternator and MONITOR
5. Turn ON affected alternator

If significant output is indicated: TURN OFF alternator and continue or terminate flight with load reduced to remaining alternator

If no output is indicated.. : TURN OFF alternator, RESET ALT circuit breaker and TURN ON alternator

If ALT breaker trips again or output is excessive:

TURN OFF the affected alternator and continue or terminate flight with reduced electric load

If output not excessive, DISREGARD ALT OUT land and have system checked prior to next flight

LOSS OF AVIONICS POWER

1. PRIM avionics power switch.....OFF
2. STBY avionics power switch..... ON

LOSS OR SUDDEN REDUCTION ALL ELECTRICAL POWER

1. If ALT circuit breakers are tripped, RESET
2. Both Alt sections of master ...CYCLE OFF and ON

If electrical power is restored:

3. Continue flight, check system prior to next flight

If electrical power is not restored:

4. BAT section of master switchOFF
5. PRI avionics power switch & equipmentOFF
6. ALT RESTART DEPRESS and RELEASE

If electrical power is restored:

7. Check LOW VOLTAGE, ALT 1,ALT2 light extinguished
8. PRI avionics power switch & equipment ON
9. Continue flight with BAT master switch OFF

If electrical power is not restored:

10. Pull both ALT CBs OFF and turn OFF the alternator sections of the master switch
11. Set V/A selector to BAT and observe as the BAT section of master is turned ON. If V/A shows a full scale discharge, turn BAT section of the master switch OFF and TERMINATE flight without electrical power
12. With normal battery discharge, use essential electrical equip as required, land as soon as practical

ICING -- STATIC SOURCE BLOCKAGE

1. Alternate Static..... PULL ON
2. Airspeed..... Climb +5 KIAS; Approach +7 KIAS
3. Altitude.....Cruise +160 ft; Approach +70 ft

PROPELLER ANTI-ICE SYSTEM MALFUNCTION

1. Propeller EXERCISE to MAX RPM
2. Propeller Anti-Ice Ammeter CHECK periodic fluctuations within the green arc
3. ***If reading is below the green arc:*** Prop Anti-Ice OFF
4. Icing Conditions EXIT

EXIT FROM SEVERE ICING (AD 98-05-14 R1)

1. Request priority handling from ATC
2. Avoid abrupt and excessive maneuvering
3. Do not engage the autopilot
4. If autopilot is engaged, hold the control wheel firmly and disengage
5. If an unusual roll response or uncommanded roll control movement is observed, reduce angle-of-attack
6. Do not extend flaps when holding in icing
7. If flaps are extended, do not retract them until airframe is clear of ice
8. Report these weather conditions to ATC

WING & STABILIZER DE-ICE SYSTEM FAILURE

If wing/stabilizer de-ice boots fail to inflate sufficiently during any or all of the three sequences of one cycle:

1. Right vacuum pump operation..... VERIFY
2. De-ice circuit breaker VERIFY pushed full in
3. Pressure light operation PRESS TO TEST
4. Another cycle..... ATTEMPT

If system is still deficient:

5. AVOID icing conditions
6. If unshed ice exists during an approach, EXECUTE Inadvertent Icing Encounters emergency checklist

INADVERTENT ICING ENCOUNTERS

1. Pitot Heat ON
2. Propeller Anti-ice..... ON
3. Windshield Anti-Ice ON
4. Maneuver TURN BACK or CHANGE ALTITUDE
5. Cabin Heat & Defrost..... FULL ON
6. Engine Speed .. INCREASE (If excessive vibration, reduce to 2200 then rapidly FULL FORWARD)
7. Induction Air Filter..... MONITOR signs of ice
8. Nearest airport or off-field if necessary LAND
9. Power, Approach speed, Stall Speed, Landing Roll plan higher with 1/4" or more on wing LE
10. Windshield..... SCRAPE as required
11. Flaps (up to 1" ice)..... 10° to 20°
12. Flaps (> 1" ice) 0°
13. Approach speed: Flap 20° 85-95 KTS
Flap 0° 105 KTS
14. Landing MAINS first, avoid slow/high flare
15. Missed approach AVOID
(max power, 95 KIAS, retract flaps slowly)