

CABIN

1. Required Documents.....A.R.O.W.
2. Control Wheel Lock REMOVE
3. Ignition Switch OFF / KEY ON DASH
4. Avionics Master Switch OFF
5. Master Switch ON
6. Fuel Quantity Indicators CHECK
7. Avionics Master Switch ON
8. Avionics Cooling FanAUDIBLE
9. Avionics Master Switch OFF
10. Static Pressure Alternate Source..... OFF
11. Annunciator Panel Switch TEST
12. FlapsFULL DOWN
13. All Exterior Lights ON
14. Pitot Cover.....REMOVED
15. Pitot Heat ON
16. Check Operation of :
..... Nav/Strobe, Beacon, and Landing Light
17. Stall Warning CHECKED
18. Pitot Tube.....CLEAR / WARM
19. Exterior LightsAll OFF, BEACON ON
20. Pitot Heat OFF
21. Master Switch OFF
22. Fuel Selector BOTH
23. Fuel Shutoff Valve ON (Push full in)
24. Elevator Trim.....SET for takeoff
25. Autopilot Static Source.CHECK (97PD, 2164Z)
26. Windshield CLEAN

EMPENNAGE

1. Baggage Door CHECK
2. Rudder Gust Lock (if installed) REMOVE
3. Tail Tie-Down DISCONNECT
4. Control Surfaces CHECK
5. Trim Tab CHECK
6. Airplane Antennas CHECK

RIGHT WING

1. Flap and Aileron CHECK
2. Wing Tip CHECK
3. Leading Edge CHECK
4. Wing Tie-Down REMOVE
5. Main Wheel Tire / Brake CHECK
6. Fuel Quick Drain Valves (5).....CHECK
7. Fuel QuantityCHECK VISUALLY
8. Fuel Filler Cap.... vent unobstructed SECURE

NOSE

1. Fuel Quick Drain Valves (3)..... CHECK
2. Engine Oil/Filler Cap..... CHECK (5-8 qts)
3. Engine Cooling Air Inlets CLEAR
4. Propeller and Spinner CHECK
5. Air Filter.....CHECK
6. Nose Wheel Strut and TireCHECK
7. Left Static Source Opening CHECK

LEFT WING

1. Fuel Quantity CHECK VISUALLY
2. Fuel Filler Capvent unobstructed SECURE
3. Fuel Quick Drain Valves (5) CHECK
4. Main Wheel Tire / Brake CHECK
5. Leading Edge CHECK
6. Fuel Tank Vent Opening CHECK
7. Stall Warning Opening CHECK
8. Wing Tie-DownREMOVE
9. Landing/Taxi Light(s)..... CHECK
10. Wing Tip CHECK
11. Aileron and Flap..... CHECK



**Note: Leaning Procedures
For extended ground operations**

1. Throttle1200 RPM
2. Mixture Lean for maximum RPM
3. Throttle1000 RPM

BEFORE STARTING ENGINE

1. Preflight Inspection..... COMPLETE
2. Passenger Briefing COMPLETE
3. Seats/SeatBeltsADJUST, LOCK
4. Fuel selector valve BOTH
5. Fuel shutoff valve.....ON (Push full in)
6. Av. Pwr Switch, Elect. Equip.....OFF
7. Brakes TEST; SET/HOLD
8. Circuit Breakers..... CHECK IN

STARTING ENGINE (With Battery)

1. Beacon ON
2. Alternate Air OFF (9537Q only)
3. Throttle OPEN 1/4"
4. Mixture IDLE CUT OFF
5. Propeller area CLEAR
6. Master switch ON

**NOTE: if engine is warm, omit priming
procedure (Steps 7-10)**

7. Aux Fuel Pump ON
8. MixtureADVANCE for fuel flow
9. Mixture CUTOFF
10. Aux Fuel Pump OFF

11. Ignition switch START
12. MixtureADVANCE when engine fires
13. Oil pressure..... CHECK
14. Throttle 1000 RPM or LESS
15. Mixture Lean (As Req'd)
16. Nav, strobe lights ON, as REQ'd
17. Avionics power switch & radios ON
18. Transponder ALT
19. Flaps.....RETRACT
20. GPS..... Initial fuel; Runway diagram
21. ATIS / Altimeter SET
22. Taxi Lights ON as REQ'd

RUNUP

1. Parking Brakes SET or HOLD
2. Seat & Seat Belts..... CHECK SECURE
3. Doors & Windows..... CLOSED/LOCKED
4. Flight controls FREE and CORRECT
5. Flight Instruments..... CHECK & SET
(Heading & Altimeter)
6. Fuel Quantity CHECK
7. Fuel Selector Valve BOTH
8. Mixture RICH
9. Throttle 1800 RPM
 - a. Magnetos CHECK BOTH (150/50)
 - b. Alternate Air CHECK (9537Q only)
 - c. Engine instruments CHECK
 - d. Vacuum Gage CHECK
 - e. Ammeter CHECK
 - f. Annunciator Panel NONE Illuminated
10. Throttle CHECK IDLE
11. Throttle 1000 RPM or LESS
12. Throttle friction lockADJUST
13. Electric Trim TEST (97PD, 2164Z)
14. Autopilot baro setting..... SET (97PD, 2164Z)
15. Autopilot TEST, DISCONNECT
16. Elevator Trim SET for takeoff
17. Radios, Avionics, GPS SET
18. Wing flapsas REQ'D
19. Takeoff Briefing COMPLETE
20. Lights.....as REQ'D

BEFORE TAKEOFF

1. Doors & WindowsCLOSED/LOCKED
2. Fuel Quantity.....CHECK
3. Fuel Selector Valve BOTH
4. Elevator Trim.....SET for takeoff
5. Mixture..... RICH
6. Wing flaps..... as REQ'D
7. At runway Lights as REQ'd
8. GPS Zoom..... SET

**INFLIGHT CHECKS
CONTINUED ON SECOND CARD**

SECURING AIRPLANE

1. Parking Brake SET or HOLD
2. Throttle 1500 RPM
3. Mixture..... LEANED, 20 seconds
4. Avionics CHECK 121.5
5. Throttle REDUCE as REQ'd
6. Parking Brake RELEASED
7. All lights As Req'd
8. Throttle IDLE
9. Avionics Power Switch, Elect. Equip..... OFF
10. Exterior, Interior & Panel Lights OFF
11. Beacon Light ON
12. Magneto Ground.....CHECK
13. Mixture..... IDLE CUT OFF
14. Ignition Switch..... OFF
15. Aircraft Keys ON DASH
16. Master Switch OFF
17. Fuel Selector..... RIGHT TANK
18. Gust Lock INSTALLED
19. Pitot Cover..... INSTALLED
20. Wheel Chocks..... INSTALLED
21. Tie Downs INSTALLED
22. Tires and Aircraft..... INSPECTED
23. Shade/Canopy Cover INSTALLED

FIRE DURING START

1. Ignition Switch ... START, continue cranking if engine starts:
2. Power 1,800 RPM for a few minutes
3. Engine.....SHUTDOWN
- If engine fails to start:
4. Throttle..... FULL OPEN
5. Mixture..... IDLE CUT OFF
6. Cranking..... CONTINUE
7. Fuel Shutoff Valve OFF (Pull full out)
8. Auxiliary Fuel Pump..... OFF
9. Fire ExtinguisherACTIVATE
10. Master Switch OFF
11. Ignition Switch..... OFF
12. Airplane EVACUATE

NORMAL TAKEOFF

1. Takeoff Briefing COMPLETE
2. Doors & Windows CLOSED/LOCKED
3. Fuel Quantity CHECK
4. Fuel Selector Valve BOTH
5. Elevator Trim set for TAKEOFF
6. Lights REQ'D
7. Wing flaps 0 - 10°
8. Throttle FULL OPEN
9. Mixture RICH
..... (when > 3000', LEAN max RPM)
10. Rotate **55 KIAS**
11. Climb Speed Vy = **74 KIAS**
12. Wing Flaps RETRACT

SHORT / SOFT FIELD TAKEOFF

1. Steps 1-5 of Normal Takeoff
2. Wing Flaps 10°
Soft Field – make rolling takeoff, skip step 3
3. Brakes APPLY
4. Throttle FULL OPEN
5. Mixture RICH
..... (when > 3000', LEAN max RPM)
6. Brakes RELEASE, if not already
7. Elevator Control SLIGHTLY TAIL LOW
8. Climb Speed **56 KIAS** until over obstacles
9. Wing flaps RETRACT after **60 KIAS**

ENROUTE CLIMB

1. Airspeed **70-85 KIAS**
2. Throttle FULL OPEN
3. Mixture RICH
..... (when > 3000', LEAN max RPM)

CRUISE

1. Power 2100-2700 RPM (75% max)
2. Elevator trim ADJUST
3. Mixture LEAN as REQ'd

DESCENT

1. Power as REQ'd
2. Mixture ENRICHEN, as REQ'd
3. Alternate Air .ON (if icing conditions, 9537Q only)
4. ATIS / Altimeter SET
5. Fuel selector valve BOTH
6. Wing Flaps AS DESIRED

BEFORE LANDING

1. Seats/SeatBelt UPRIGHT,ADJUST,LOCK
2. Fuel Selector Valve BOTH
3. Mixture RICH (or as REQ'd)
4. Alternate Air .ON (if icing conditions, 9537Q only)
5. Landing/Taxi Lights ON
6. Autopilot DISCONNECT

NORMAL LANDING

1. Airspeed **65 - 75 KIAS (flaps UP)**
2. Wing flaps as DESIRED (< 110/85 KIAS)
3. Airspeed **60 - 70 KIAS (flaps down)**
4. Touchdown MAIN WHEELS FIRST
5. Landing Roll LOWER NOSE WHEEL
6. Braking MINIMUM REQUIRED

SHORT-FIELD LANDING

1. Airspeed 65 - 75 KIAS (flaps UP)
2. Wing Flaps FULL DOWN (30°)
3. Airspeed **61 KIAS (until flare)**
4. Throttle REDUCE to idle after obstacles
5. Touchdown MAIN WHEELS FIRST
6. Brakes APPLY HEAVILY–don't lock brakes
7. Wing flaps RETRACT

BALKED LANDING

1. Throttle FULL OPEN
2. Alternate Air OFF (9537Q only)
3. Wing Flaps RETRACT TO 20°
4. Climb speed **60 KIAS**
5. Wing Flaps 10° (until over obstacles)
6. Wing Flaps RETRACT after **65 KIAS**

AFTER LANDING

1. Wing Flaps UP
2. Alternate Air OFF (9537Q only)
3. Taxi & Landing Light ON as REQ'd
4. Transponder ALT
5. Airport Taxi Diagram DISPLAYED

Vso	40	Oil (full/min)	8 / 5
Vs1	48	Fuel [use]	53
Vr	55	Weight TO	2550#
Vx	62	Weight Lnd	2550#
Vy	74	Demo Xwind	15
Vg	68		
Vfe/10°	110	App FL DN	60 - 70
Vfe/>10	85	App FL UP	65 - 75
Va	90/105		
Vno	129		
Vne	163		

ENGINE FAILURE DURING FLIGHT

1. Airspeed **68 KIAS**
2. Select landing area
3. Fuel Shutoff Valve **ON (push full in)**
4. Fuel Selector Valve **BOTH**
5. Auxiliary Fuel Pump Switch **ON**
6. Mixture **RICH**
7. Alternate Air **OPEN (N9537Q Only)**
8. Ignition Switch BOTH or START
9. Auxiliary Fuel Pump Switch OFF
10. Transponder 7700; Mayday call

ENGINE FIRE IN FLIGHT

1. Mixture **IDLE CUT OFF**
2. Fuel Shutoff Valve **PULL OUT (OFF)**
3. Auxiliary Fuel Pump Switch **OFF**
4. Master Switch **OFF**
5. Cabin Heat/Air OFF (except overhead vents)
6. Airspeed 100 kts (to extinguish fire)
7. Forced Landing EXECUTE

EMERGENCY LANDING NO POWER or ENGINE FAILURE AFTER TAKEOFF

1. Passenger Seat Backs MOST UPRIGHT
2. Seats and Seat Belts SECURE
3. Airspeed **70 KIAS (flaps UP)**
..... **65 KIAS (flaps DOWN)**
4. Mixture IDLE CUT OFF
5. Fuel Shutoff Valve OFF (Pull Full Out)
6. Ignition Switch OFF
7. Wing Flaps AS REQ'D (30° recommended)
8. Master Switch OFF (landing assured)
9. Doors UNLATCH prior to touchdown
10. Touchdown SLIGHTLY TAIL LOW
11. Brakes APPLY HEAVILY

DITCHING

1. Radio TRANSMIT MAYDAY (location)
2. Transponder SQUAWK 7700
3. Heavy objects SECURE or JETTISON
4. Passenger Seat Backs MOST UPRIGHT
5. Seats and Seat Belts SECURE
6. Wing Flaps 20°-30°
7. Power 300 fpm descent @ 55 KIAS
Without power 70 KIAS flaps up OR
..... 65 KIAS flaps 10°
8. Approach:
High winds, heavy seas INTO THE WIND
Light winds, heavy swells... PARALLEL TO SWELLS
9. Cabin doors UNLATCH
10. Touchdown LEVEL ATTITUDE
11. Face CUSHION at touchdown
12. ELT ACTIVATE
13. Airplane .Evacuate by door (open window)
14. Life Vests/Raft CLEAR of A/C INFLATE

LOW VOLTS ANNUCIATOR ILLUMINATE

1. Avionics Power Switch OFF
2. ALT FLD Circuit Breaker CHECK
3. Master Switch OFF (both sides)
4. Master Switch ON (both sides)
If VOLTS light stays off:
5. Avionics Pwr Switch ON
If VOLTS light comes on:
6. Alternator OFF
7. Nonessential Radio and Equipment OFF
8. Flight TERMINATE

ELECTRICAL FIRE IN FLIGHT

1. Master Switch **OFF**
 2. Vents/Cabin Air/Heat **CLOSED**
 3. Fire Extinguisher **ACTIVATE**
 4. Avionics Master Switch OFF
 5. All Other Switches (except ignition) OFF
- If Fire is CONFIRMED OUT Ventilate Cabin
6. Vents/Cabin Air/Heat OPEN (if Fire is out)
- If Fire is out & elec. power is necessary:
7. Master Switch ON
 8. Circuit Breakers CHECK (Don't reset)
 9. Radio Switches OFF
 10. Avionics Master Switch ON
 11. Radio/Electrical Switches ON (1 at time)

CABIN FIRE

1. Master Switch **OFF**
 2. Vents/Cabin Air/Heat ... **CLOSED**(avoids draft)
 3. Fire Extinguisher **ACTIVATE**
- If Fire is CONFIRMED OUT Ventilate Cabin
4. Vents/Cabin Air/Heat OPEN (if fire is out)
 5. Land the airplane as soon as possible

WING FIRE

1. Landing/Taxi Light Switches **OFF**
2. Navigation Light Switch **OFF**
3. Strobe Light Switch **OFF**
4. Pitot Heat Switch **OFF**
5. Sideslip NOSE TO SIDE WITH FIRE

AUTOPILOT or TRIM MALFUNCTION

1. Control Wheel GRASP FIRMLY & CONTROL
2. A/P DISC/TRIM INT switch PRESS & HOLD
3. Aircraft RE-TRIM manually as needed
4. Autopilot Circuit Breaker PULL

AMMETER SHOWS EXCESSIVE CHARGE

1. Alternator -- OFF
2. Nonessential Electrical Equip -- OFF
3. Flight -- TERMINATE as soon as practical.

INADVERTENT ICING ENCOUNTER

1. Turn pitot heat switch ON
2. Turn back or change altitude
3. Pull cabin heat control full out and open defroster outlets
4. See expanded checklist for remaining items

STATIC SOURCE BLOCKAGE

1. Static Pressure Alt Source Valve ... PULL ON
2. Airspeed Consult calibration tables

SEE CHECKLIST IN AIRCRAFT FOR ADDITIONAL EMERGENCY PROCEDURES