

**PA-34 – N54384 CHECKLIST**

Verbally verify completion of each item & section.

**PRE-FLIGHT INSPECTION**

PAVE / IMSAFE / W & B – COMPLETE

**Cabin / Electrical**

1. Documents – **A.R.R.O.W.**
2. Gear Handle – **DOWN**
3. Cowl Flaps – **OPEN**
4. Flaps – **EXTEND & RETRACT**
5. Trim Tabs – **NEUTRAL**
6. Fuel Selectors / Cross-feeds – **ON / DRAIN**
7. All Switches – **OFF**
8. Master Switch – **ON**
9. Gear Indicator & Warning Lights – **CHECK**
10. Fuel Gauges / Electric Gyro – **CHECK**
11. Lights, Pitot Heat & Stall Warning – **CHECK**
12. Master Switch – **OFF**
13. Pitot Static – **DRAIN**

**Right Wing**

1. Control Surfaces – **CHECK**
2. Wingtip & Leading Edge – **CHECK**
3. Fuel Quantity – **CHECK / CAP SECURE**
4. Wing Tie-Down – **DISCONNECT**
5. Wing Fuel Sumps (2) – **CHECK**
6. Oil – **CHECK (6 – 8 Quarts)**
7. Prop / Spinner – **CHECK CONDITION**
8. Cowl Flap – **CHECK**
9. Nacelle Fuel Sump – **CHECK**
10. Tire, Brake and Strut – **CHECK**

**Nose**

1. Nose Tire & Strut – **CHECK**
2. Nose Baggage – **CHECK / DOOR SECURE**
3. Windshield – **CLEAN**

**Left Wing**

1. Oil – **CHECK (6 – 8 Quarts)**
2. Nacelle Fuel Sump – **CHECK**
3. Tire, Brake and Strut – **CHECK**
4. Cowl Flap – **CHECK**
5. Prop / Spinner – **CHECK CONDITION**
6. Wing Tie-Down – **DISCONNECT**
7. Wing Fuel Sumps (2) – **CHECK**
8. Pitot – **CHECK CLEAR**
9. Fuel Quantity – **CHECK / CAP SECURE**
10. Leading Edge & Wingtip – **CHECK**
11. Control Surfaces – **CHECK**

**Empennage**

1. Ballast – **CHECK**
2. Passenger Doors – **SECURE**
3. Left Static Port – **CHECK CLEAR**
4. Dorsal Air Inlet – **CHECK**
5. Control Surfaces – **CHECK**
6. Tail Tie-down – **DISCONNECT**
7. Antennas – **CHECK**
8. Right Static Port – **CHECK CLEAR**

**BEFORE STARTING ENGINE**

1. Pre-flight – **COMPLETE**
2. Passenger Briefing – **S.A.F.E.T.Y.**
3. Seats & Seatbelts – **ADJUST & SECURE**
4. Fuel Selectors – **ON**
5. Cowl Flaps – **OPEN**
6. Turbos – **OFF (UP)**
7. All Circuit Breakers – **IN**
8. Avionics Master – **OFF**
9. Electrical Equipment – **OFF**

**STARTING ENGINE**

1. Brakes – **TEST & HOLD**
2. Mixture – **IDLE CUTOFF**
3. Propeller – **FULL FORWARD**
4. Throttle – **OPEN ½ INCH**
5. Master, Beacon & Strobe Lights – **ON**
6. Left Magnetos (2) – **ON**
7. Left Boost Pump – **ON**
8. Mixture – **RICH TO STABLE FLOW THEN OFF**
9. Propeller Area – **“CLEAR!”**
10. Starter – **ENGAGE**
11. Mixture – **3/4 UPON IGNITION**
12. Throttle – **1,000 RPM**
13. Oil Pressure – **> 30 PSI in 30 SECONDS**
14. Left Boost Pump – **OFF**
15. Left Alternator – **ON**
16. Repeat Steps 6 – 15 For Right Engine

HOT START – NO BOOST  
FLOODED – THROTTLE ½ OPEN, NO BOOST

**PRE-TAXI & TAXI**

1. Avionics Mater – **ON**
2. Transponder – **STANDBY**
3. ATIS – **CHECK**
4. Clearance – **OBTAIN**
5. Transponder – **SET CODE & SET TO “ALT”**
6. Brakes – **CHECK**
7. Instruments – **CHECK DURING TAXI (IFR)**

**RUN UP**

1. (C)ontrols – **FREE & CORRECT**
2. (I)nstruments – **SET**
3. (G)as – Fuel Selectors **ON / CHECK QUANTITY**
4. (A)ttitude (Trim/Flaps/Autopilot) – **SET / UP (25° SHORT FIELD) / OFF**
5. (R)adios – **COM / NAV / TRANSPONDER**
6. (S)ecure – **DOORS (TOP & BOTTOM) / WINDOWS & SEATBELTS**
7. Brakes – **HOLD**
8. Mixture – **3/4**
9. Props – **FULL FORWARD**
10. Throttles – **1500 RPM**  
- Props Feather – **CHECK (500 MAX DROP)**

**PA-34 – N54384 CHECKLIST**

Verbally verify completion of each item & section.

**PRE-FLIGHT INSPECTION**

PAVE / IMSAFE / W & B – COMPLETE

**Cabin / Electrical**

1. Documents – **A.R.R.O.W.**
2. Gear Handle – **DOWN**
3. Cowl Flaps – **OPEN**
4. Flaps – **EXTEND & RETRACT**
5. Trim Tabs – **NEUTRAL**
6. Fuel Selectors / Cross-feeds – **ON / DRAIN**
7. All Switches – **OFF**
8. Master Switch – **ON**
9. Gear Indicator & Warning Lights – **CHECK**
10. Fuel Gauges / Electric Gyro – **CHECK**
11. Lights, Pitot Heat & Stall Warning – **CHECK**
12. Master Switch – **OFF**
13. Pitot Static – **DRAIN**

**Right Wing**

1. Control Surfaces – **CHECK**
2. Wingtip & Leading Edge – **CHECK**
3. Fuel Quantity – **CHECK / CAP SECURE**
4. Wing Tie-Down – **DISCONNECT**
5. Wing Fuel Sumps (2) – **CHECK**
6. Oil – **CHECK (6 – 8 Quarts)**
7. Prop / Spinner – **CHECK CONDITION**
8. Cowl Flap – **CHECK**
9. Nacelle Fuel Sump – **CHECK**
10. Tire, Brake and Strut – **CHECK**

**Nose**

1. Nose Tire & Strut – **CHECK**
2. Nose Baggage – **CHECK / DOOR SECURE**
3. Windshield – **CLEAN**

**Left Wing**

1. Oil – **CHECK (6 – 8 Quarts)**
2. Nacelle Fuel Sump – **CHECK**
3. Tire, Brake and Strut – **CHECK**
4. Cowl Flap – **CHECK**
5. Prop / Spinner – **CHECK CONDITION**
6. Wing Tie-Down – **DISCONNECT**
7. Wing Fuel Sumps (2) – **CHECK**
8. Pitot – **CHECK CLEAR**
9. Fuel Quantity – **CHECK / CAP SECURE**
10. Leading Edge & Wingtip – **CHECK**
11. Control Surfaces – **CHECK**

**Empennage**

1. Ballast – **CHECK**
2. Passenger Doors – **SECURE**
3. Left Static Port – **CHECK CLEAR**
4. Dorsal Air Inlet – **CHECK**
5. Control Surfaces – **CHECK**
6. Tail Tie-down – **DISCONNECT**
7. Antennas – **CHECK**
8. Right Static Port – **CHECK CLEAR**

**BEFORE STARTING ENGINE**

1. Pre-flight – **COMPLETE**
2. Passenger Briefing – **S.A.F.E.T.Y.**
3. Seats & Seatbelts – **ADJUST & SECURE**
4. Fuel Selectors – **ON**
5. Cowl Flaps – **OPEN**
6. Turbos – **OFF (UP)**
7. All Circuit Breakers – **IN**
8. Avionics Master – **OFF**
9. Electrical Equipment – **OFF**

**STARTING ENGINE**

1. Brakes – **TEST & HOLD**
2. Mixture – **IDLE CUTOFF**
3. Propeller – **FULL FORWARD**
4. Throttle – **OPEN ½ INCH**
5. Master, Beacon & Strobe Lights – **ON**
6. Left Magnetos (2) – **ON**
7. Left Boost Pump – **ON**
8. Mixture – **RICH TO STABLE FLOW THEN OFF**
9. Propeller Area – **“CLEAR!”**
10. Starter – **ENGAGE**
11. Mixture – **3/4 UPON IGNITION**
12. Throttle – **1,000 RPM**
13. Oil Pressure – **> 30 PSI in 30 SECONDS**
14. Left Boost Pump – **OFF**
15. Left Alternator – **ON**
16. Repeat Steps 6 – 15 For Right Engine

HOT START – NO BOOST  
FLOODED – THROTTLE ½ OPEN, NO BOOST

**PRE-TAXI & TAXI**

1. Avionics Mater – **ON**
2. Transponder – **STANDBY**
3. ATIS – **CHECK**
4. Clearance – **OBTAIN**
5. Transponder – **SET CODE & SET TO “ALT”**
6. Brakes – **CHECK**
7. Instruments – **CHECK DURING TAXI (IFR)**

**RUN UP**

1. (C)ontrols – **FREE & CORRECT**
2. (I)nstruments – **SET**
3. (G)as – Fuel Selectors **ON / CHECK QUANTITY**
4. (A)ttitude (Trim/Flaps/Autopilot) – **SET / UP (25° SHORT FIELD) / OFF**
5. (R)adios – **COM / NAV / TRANSPONDER**
6. (S)ecure – **DOORS (TOP & BOTTOM) / WINDOWS & SEATBELTS**
7. Brakes – **HOLD**
8. Mixture – **3/4**
9. Props – **FULL FORWARD**
10. Throttles – **1500 RPM**  
- Props Feather – **CHECK (500 MAX DROP)**

**11. Throttles – 1700 RPM**

- Mags – **CHECK (125 MAX DROP)**
- Oil Pressure / Temp – **CHECK IN LIMITS**
- Suction – **CHECK**
- Alternators / Voltage Reg. – **CHECK**

**12. Throttles – 2000 RPM**

- Propellers – **CYCLE TO LINE ON QUADRANT**
- RPM & Oil Pressure – **DROP**
- Manifold Pressure – **RISE**

**13. Throttles – 1000 RPM****14. Clearance – REVIEW****15. Takeoff Emergency Briefing – COMPLETE****TAKEOFF**

1. All Lights – **ON**
2. Boost Pumps – **ON**
3. Mixtures – **RICH BELOW 3000 FEET**
4. PROPS – **FULL FORWARD**
5. Throttles – **FULL FORWARD**
6. Elevator – **RAISE NOSE Vr 80 MPH**
7. Pitch – **Vx 90 / Vy 105 MPH**

**ENROUTE CLIMB**

1. Gear & Flaps – **UP ABOVE 200 FEET**
2. Pitch – **120 MPH**
3. Propellers – **SET BELOW REDLINE & SYNC**
4. Boost Pumps – **OFF**
5. Mixtures – **LEAN PER POH**

**CRUISE**

1. Mixtures/Props/Throttles – **SET PER POH**
2. Cowl Flaps – **CLOSED**
3. Elevator/Rudder – **TRIM**
4. Gauges – **MONITOR**

**TURBO OPERATION (ONLY ABOVE 3,500 MSL)**

1. Climb – maintain 25" MP / 2500 RPM
2. Cruise – set 24" MP / 2400 RPM
3. Mixture – below 75% power lean to Peak MP then enrichen ½"
4. Monitor temps in all ops (CHT 350-400°F)
5. On descent close Waste Gate 1" per minute

**DESCENT**

1. Turbos – **OFF**
2. Manifold Pressure – **DO NOT EXCEED 75% HP**

**BEFORE LANDING**

1. (A)utopilot – **OFF**
2. (A)ltimeter – **SET**
3. (L)ights – **ON**
4. (G)as – Selectors **ON** / Boost – **ON**
5. (U)ndercarriage – **DOWN BELOW 150 MPH**
6. (M)ixtures – **RICH BELOW 3000 FEET**
7. (P)ropellers – **FULL FORWARD**
8. (S)eatbelts – **SECURE**

**LANDING**

1. Flaps – **SET BELOW 125 MPH**
2. Airspeed – **90-95 MPH (87 SHORT FIELD)**
3. Braking – **MINIMUM REQUIRED**

**AFTER LANDING**

1. Flaps – **UP**
2. Cowl Flaps – **OPEN**
3. Mixture – **LEAN FOR TAXI**
4. Fuel Pumps – **OFF**
5. Lights (Except Beacon) – **OFF**
6. Trim – **RESET FOR TAKEOFF**

**SHUTDOWN**

1. Parking Brake – **SET**
2. Transponder – **1200 THEN STANDBY**
3. Avionics Master – **OFF**
4. Ignition Grounding – **CHECK**
5. Propellers – **FULL FORWARD**
6. Mixtures – **IDLE CUTOFF**
7. Electrical / Lights (Except Beacon) – **OFF**
8. Alternators / Magnetos – **OFF**
9. Master Switch – **OFF**
10. Tie Downs – **CONNECT**
11. Record – **HOBBS, TACH, ADDITIONS OF FUEL & OIL, POST FLIGHT CHECK**

**V Speeds (mph) and Weights:**

Vr – 80 Vx – 90 Vy – 105  
 Vlr – 125 Vle – 150  
 Vfe – 10° – 160 / 25° – 140 / 40° – 125  
 Vref – 95 Vg – 120 Va – 146

Vmc – 80 Vxse – 85 Vyse – 105

Gross Weight = 4,200 Takeoff  
 4,000 Landing  
 Empty Weight = 2,928  
 Useful Load = 1,272

**THIS CHECKLIST IS FOR REFERENCE ONLY  
 ALWAYS CONSULT AIRCRAFT POH**

**ENGINE FAILURE DURING TAKEOFF (ABORT)**

1. Throttles – **IDLE**
2. Brakes – **MAXIMUM**
  - If insufficient runway to stop
3. Master Switch – **OFF**
4. Fuel Selectors – **OFF**
5. Continue straight ahead if possible

**ENGINE FAILURE AFTER TAKEOFF**

1. Pitch – **BLUE LINE** or Vxse if needed
2. Bank – **5°** into Good Engine & Ball ½ **Out**
3. Mixture / Prop / Throttle – **FULL FORWARD**
4. Gear – **UP**
5. Flaps – **UP**
6. Boost Pumps – **ON**
7. Prop – **IDENTIFY / VERIFY / FEATHER**

**11. Throttles – 1700 RPM**

- Mags – **CHECK (125 MAX DROP)**
- Oil Pressure / Temp – **CHECK IN LIMITS**
- Suction – **CHECK**
- a. Alternators / Voltage Reg. – **CHECK**

**12. Throttles – 2000 RPM**

- Propellers – **CYCLE TO LINE ON QUADRANT**
- RPM & Oil Pressure – **DROP**
- Manifold Pressure – **RISE**

**13. Throttles – 1000 RPM****14. Clearance – REVIEW****15. Takeoff Emergency Briefing – COMPLETE****TAKEOFF**

1. All Lights – **ON**
2. Boost Pumps – **ON**
3. Mixtures – **RICH BELOW 3000 FEET**
4. PROPS – **FULL FORWARD**
5. Throttles – **FULL FORWARD**
6. Elevator – **RAISE NOSE Vr 80 MPH**
7. Pitch – **Vx 90 / Vy 105 MPH**

**ENROUTE CLIMB**

1. Gear & Flaps – **UP ABOVE 200 FEET**
2. Pitch – **120 MPH**
3. Propellers – **SET BELOW REDLINE & SYNC**
4. Boost Pumps – **OFF**
5. Mixtures – **LEAN PER POH**

**CRUISE**

1. Mixtures/Props/Throttles – **SET PER POH**
2. Cowl Flaps – **CLOSED**
3. Elevator/Rudder – **TRIM**
4. Gauges – **MONITOR**

**TURBO OPERATION (ONLY ABOVE 3,500 MSL)**

1. Climb – maintain 25" MP / 2500 RPM
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4. Monitor temps in all ops (CHT 350-400°F)
5. On descent close Waste Gate 1" per minute

**DESCENT**

1. Turbos – **OFF**
2. Manifold Pressure – **DO NOT EXCEED 75% HP**

**BEFORE LANDING**

1. (A)utopilot – **OFF**
2. (A)ltimeter – **SET**
3. (L)ights – **ON**
4. (G)as – Selectors **ON** / Boost – **ON**
5. (U)ndercarriage – **DOWN BELOW 150 MPH**
6. (M)ixtures – **RICH BELOW 3000 FEET**
7. (P)ropellers – **FULL FORWARD**
8. (S)eatbelts – **SECURE**

**LANDING**

1. Flaps – **SET BELOW 125 MPH**
2. Airspeed – **90-95 MPH (87 SHORT FIELD)**
3. Braking – **MINIMUM REQUIRED**

**AFTER LANDING**

1. Flaps – **UP**
2. Cowl Flaps – **OPEN**
3. Mixture – **LEAN FOR TAXI**
4. Fuel Pumps – **OFF**
5. Lights (Except Beacon) – **OFF**
6. Trim – **RESET FOR TAKEOFF**

**SHUTDOWN**

1. Parking Brake – **SET**
2. Transponder – **1200 THEN STANDBY**
3. Avionics Master – **OFF**
4. Ignition Grounding – **CHECK**
5. Propellers – **FULL FORWARD**
6. Mixtures – **IDLE CUTOFF**
7. Electrical / Lights (Except Beacon) – **OFF**
8. Alternators / Magnetos – **OFF**
9. Master Switch – **OFF**
10. Tie Downs – **CONNECT**
11. Record – **HOBBS, TACH, ADDITIONS OF FUEL & OIL, POST FLIGHT CHECK**

**V Speeds (mph) and Weights:**

Vr – 80 Vx – 90 Vy – 105  
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**ENGINE FAILURE DURING TAKEOFF (ABORT)**

1. Throttles – **IDLE**
2. Brakes – **MAXIMUM**
  - If insufficient runway to stop
3. Master Switch – **OFF**
4. Fuel Selectors – **OFF**
5. Continue straight ahead if possible

**ENGINE FAILURE AFTER TAKEOFF**

1. Pitch – **BLUE LINE** or Vxse if needed
2. Bank – **5°** into Good Engine & Ball ½ **Out**
3. Mixture / Prop / Throttle – **FULL FORWARD**
4. Gear – **UP**
5. Flaps – **UP**
6. Boost Pumps – **ON**
7. Prop – **IDENTIFY / VERIFY / FEATHER**

**ENGINE FAILURE IN FLIGHT (TROUBLESHOOT)**

1. Fuel Flow – **MIXTURE / BOOST PUMP**
2. Fuel Quantity – **SELECT CROSSFEED**
3. Magnetos – **LEFT/RIGHT/BOTH**
4. Oil Pressure and Temp – **CHECK**

**SECURING FAILED ENGINE**

1. Throttle – **IDLE**
2. Propeller – **FEATHER**
3. Mixture – **IDLE CUTOFF**
4. Trim – **ADJUST AS NEEDED (BALL ½ OUT)**
5. Magnetos, Boost Pump & Alternator – **OFF**
6. Cowl Flap – **CLOSED**
7. Fuel Selector – **OFF**
8. Electrical Load – **MINIMIZE**

**ENGINE RESTART**

1. Fuel Selector – **ON or CROSS-FEED**
2. Boost Pump – **OFF**
3. Magneto Switches – **ON**
4. Throttle – **OPEN ½ INCH**
5. Prop – **FULL FORWARD**
6. Mixture – **FULL RICH**
7. Starter – **ENGAGE**
8. **If no restart – PRIME 3 SECONDS & RETRY**
9. Warm Up – **2000 RPM, 15 INCHES MP**
10. Alternator – **ON**
11. Cowl Flap – **AS NEEDED**

**SINGLE ENGINE LANDING**

1. Airspeed – **105 MPH ON FINAL**
2. Landing Gear – **DOWN ON FINAL**
3. Flaps – **LANDING ASSURED, AS NEEDED**

**SINGLE ENGINE GO-AROUND (MIN 300 FT AGL)**

1. Throttle – **FULL POWER / MAINTAIN HDG**
2. Pitch – **BLUE LINE**
3. Flaps – **RETRACT TO 25°**
4. Landing Gear – **UP**
5. Flaps – **UP WITH POSITIVE RATE OF CLIMB**
6. Trim – **FOR SINGLE ENGINE CLIMB**

**ENGINE FIRE IN FLIGHT**

1. Fuel Selector – **OFF**
2. Mixture – **IDLE CUTOFF**
3. Propeller – **FEATHER**
4. Boost Pump – **OFF**
5. Magneto & Alternator – **OFF**
6. **DO NOT ATTEMPT RESTART**

**ENGINE FIRE ON GROUND**

1. **CONTINUE CRANKING**
  - If start: **1700 RPM THEN SHUTDOWN**
  - If no start: **SHUTDOWN**
    - Ignition – **OFF**
    - Master Switch – **OFF**
    - Fuel Shutoff Valve – **OFF**
    - Fire – **EXTINGUISH**

**ELECTRICAL FIRE IN FLIGHT**

1. Master Switch – **OFF**
2. All Switches Except Magnetos – **OFF**
3. Vents/Cabin Air/Heat – **CLOSED/OFF**
4. Fire – **EXTINGUISH**

**WHEN FIRE APPEARS OUT**

5. Cabin – **VENTILATE**
6. Circuit Breakers – **CHECK, DON'T RESET**
7. Master Switch – **ON**
8. Radios & Elec Equip – **ON ONE AT A TIME**

**EMERGENCY DESCENT**

1. Throttles – **IDLE**
2. Propellers – **FULL FORWARD**
3. Landing Gear – **DOWN BELOW 150 MPH**
4. Pitch – **120 MPH & BANK 30°**

**PROPELLER OVERSPEED**

1. Throttle – **IDLE**
2. Airspeed – **105 MPH**
3. Propeller – **LOW RPM (NOT FEATHERED!)**
4. Throttle – **SLOWLY INCREASE (until governor engaged)**
5. Propeller & Throttle – **SLOWLY INCREASE AS REQ.**

6. Continue at reduced power & airspeed

7. Land – **AS SOON AS POSSIBLE**

**EMERGENCY GEAR EXTENSION**

1. Landing Gear C/B – **PULL**
2. Gear Handle – **DOWN**
3. Airspeed – **BELOW 100 MPH**
4. Emergency Gear Knob – **PULL**
5. Gear Lights and Mirror – **CHECK**

**GEAR UP LANDING**

1. W/ Runway Made: Throttles – **IDLE**
2. Mixtures – **IDLE CUTOFF**
3. Propellers – **FEATHER**
4. Fuel Selectors – **OFF**
5. Magnetos – **OFF**
6. Master Switch – **OFF**
7. Door – **OPEN BEFORE TOUCHDOWN**
8. Wings – **MAINTAIN LEVEL**

**AMMETER EXCESSIVE CHARGE / DISCHARGE**

1. Alternator Switch – **CYCLE OFF THEN ON**
2. Alternator CB – **CHECK IN (IF DISCHARGE)**
3. If Condition Remains:
  - Alternator – **OFF**
  - Electrical Load – **REDUCE**
  - Flight – **TERMINATE AS SOON AS PRACTICAL**



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**ENGINE FAILURE IN FLIGHT (TROUBLESHOOT)**

1. Fuel Flow – **MIXTURE / BOOST PUMP**
2. Fuel Quantity – **SELECT CROSSFEED**
3. Magnetos – **LEFT/RIGHT/BOTH**
4. Oil Pressure and Temp – **CHECK**

**SECURING FAILED ENGINE**

1. Throttle – **IDLE**
2. Propeller – **FEATHER**
3. Mixture – **IDLE CUTOFF**
4. Trim – **ADJUST AS NEEDED (BALL ½ OUT)**
5. Magnetos, Boost Pump & Alternator – **OFF**
6. Cowl Flap – **CLOSED**
7. Fuel Selector – **OFF**
8. Electrical Load – **MINIMIZE**

**ENGINE RESTART**

1. Fuel Selector – **ON or CROSS-FEED**
2. Boost Pump – **OFF**
3. Magneto Switches – **ON**
4. Throttle – **OPEN ½ INCH**
5. Prop – **FULL FORWARD**
6. Mixture – **FULL RICH**
7. Starter – **ENGAGE**
8. **If no restart – PRIME 3 SECONDS & RETRY**
9. Warm Up – **2000 RPM, 15 INCHES MP**
10. Alternator – **ON**
11. Cowl Flap – **AS NEEDED**

**SINGLE ENGINE LANDING**

1. Airspeed – **105 MPH ON FINAL**
2. Landing Gear – **DOWN ON FINAL**
3. Flaps – **LANDING ASSURED, AS NEEDED**

**SINGLE ENGINE GO-AROUND (MIN 300 FT AGL)**

1. Throttle – **FULL POWER / MAINTAIN HDG**
2. Pitch – **BLUE LINE**
3. Flaps – **RETRACT TO 25°**
4. Landing Gear – **UP**
5. Flaps – **UP WITH POSITIVE RATE OF CLIMB**
6. Trim – **FOR SINGLE ENGINE CLIMB**

**ENGINE FIRE IN FLIGHT**

1. Fuel Selector – **OFF**
2. Mixture – **IDLE CUTOFF**
3. Propeller – **FEATHER**
4. Boost Pump – **OFF**
5. Magneto & Alternator – **OFF**
6. **DO NOT ATTEMPT RESTART**

**ENGINE FIRE ON GROUND**

1. **CONTINUE CRANKING**
  - If start: **1700 RPM THEN SHUTDOWN**
  - If no start: **SHUTDOWN**
    - Ignition – **OFF**
    - Master Switch – **OFF**
    - Fuel Shutoff Valve – **OFF**
    - Fire – **EXTINGUISH**



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**ELECTRICAL FIRE IN FLIGHT**

1. Master Switch – **OFF**
2. All Switches Except Magnetos – **OFF**
3. Vents/Cabin Air/Heat – **CLOSED/OFF**
4. Fire – **EXTINGUISH**

**WHEN FIRE APPEARS OUT**

5. Cabin – **VENTILATE**
6. Circuit Breakers – **CHECK, DON'T RESET**
7. Master Switch – **ON**
8. Radios & Elec Equip – **ON ONE AT A TIME**

**EMERGENCY DESCENT**

1. Throttles – **IDLE**
2. Propellers – **FULL FORWARD**
3. Landing Gear – **DOWN BELOW 150 MPH**
4. Pitch – **120 MPH & BANK 30°**

**PROPELLER OVERSPEED**

1. Throttle – **IDLE**
2. Airspeed – **105 MPH**
3. Propeller – **LOW RPM (NOT FEATHERED!)**
4. Throttle – **SLOWLY INCREASE (until governor engaged)**
5. Propeller & Throttle – **SLOWLY INCREASE AS REQ.**

6. Continue at reduced power & airspeed

7. Land – **AS SOON AS POSSIBLE**

**EMERGENCY GEAR EXTENSION**

1. Landing Gear C/B – **PULL**
2. Gear Handle – **DOWN**
3. Airspeed – **BELOW 100 MPH**
4. Emergency Gear Knob – **PULL**
5. Gear Lights and Mirror – **CHECK**

**GEAR UP LANDING**

1. W/ Runway Made: Throttles – **IDLE**
2. Mixtures – **IDLE CUTOFF**
3. Propellers – **FEATHER**
4. Fuel Selectors – **OFF**
5. Magnetos – **OFF**
6. Master Switch – **OFF**
7. Door – **OPEN BEFORE TOUCHDOWN**
8. Wings – **MAINTAIN LEVEL**

**AMMETER EXCESSIVE CHARGE / DISCHARGE**

1. Alternator Switch – **CYCLE OFF THEN ON**
2. Alternator CB – **CHECK IN (IF DISCHARGE)**
3. If Condition Remains:
  - Alternator – **OFF**
  - Electrical Load – **REDUCE**
  - Flight – **TERMINATE AS SOON AS PRACTICAL**