

PA-18 Amphib

PREFLIGHT

Interior

- 1. BAT Switch OFF
- 2. Fuel Gauges Check Qty
- 3. Electrical Switches All OFF
- 4. Flaps Full DN
- 5. Approved AFM & AFMS Check on brd
- 6. Life Vests Avail. for Crew & Pax

Exterior

- 1. R Flap Attach. Check Hinges & Cntl
- 2. R Aileron Attach. Check Hinges & Cntl
- 3. R Wing Top Check Cond. & VGs (5 or more Total Missing All Surfaces, Not Airworthy)
- 4. R Wing Fuel Drains DRAIN (1)
- 5. R Wing Tip & Nav Lgt Check Cond.
- 6. R Wing Tie down Remove
- 7. R Main Fuel Tank Check Qty
- 8. R. Main Gear Inflation, Brake, Shock
- 9. R Nose Gear Check Tire & Attach.
- 10. Oil Qty Check (7-8 Qts)
- 11. Propeller Check
- 12. Air Inlets Check
- 13. L Nose Gear Check Tire & Attach.
- 14. L Bottom Cowl Drain Gascolator
- 15. L Wing & Cntls Insp Same As R
- 16. L Wing Fuel Drains DRAIN (1)
- 17. Landing Light Check Cond.
- 18. Pitot Tube Check Cover
- 19. L. Main Gear Inflation, Brake, Shock
- 20. L Fuse, Top, Side, Bot. Check Cond.
- 21. L Stabilizer Check Attach. & Strut
- 22. L Elevator Check Hinge Pt
- 23. Rudder Check Hinge Pt, Cntl
- 24. R Elevator Attach, Nav Lgt Check Tab Cntl & Hinge Pt
- 25. R Stabilizer Check Attach. & Strut
- 26. R Fuse, Top, Side, Bot. Check Cond.
- 27. Floats, Struts, Flying Wires Check Attach. & Cond.
- 28. Water Rudder Check Ops & Rig
- 29. Float Compartments Check for Water

BEFORE STARTING

- 1. Seat Belts & Harnesses Fastened
- 2. Flaps Retracted
- 3. Circuit Breakers Check
- 4. Water Rudder Ops Check Visually
- 5. Water Rudders Up (Ld) Dn (Wtr)
- 6. Passenger Briefing Belts/Emergency Exit
- 7. Life Vests On Pilot and Pass

STARTING

- 1. Heel Brakes ON
- 2. Fuel Selector Fulllest Tank or BOTH
- 3. Throttle OPEN ¼ inch
- 4. Mixture Control Rich
- 5. Anti-Collision Lgt ON
- 6. BAT / ALT Switch ON
- 7. Prime As Reqd
- 8. Starter Start
- 9. After Start Check Oil Press.
- 10. Alternator Check Charging
- 11. Radio & Elec Switches ON

ENGINE CHECK

- 1. Heel Brakes ON
- 2. Engine Inst. Check in Green Arc
- 3. Throttle 1800 RPM
- 4. Magnetos <125 drop & Δ<50
- 5. Carburetor Heat HOT- RPM drop 150±50
- 6. Carburetor Heat COLD
- 7. Alternator Charging
- 8. Throttle Idle(500-700)

BEFORE TAKEOFF

- 1. Fuel Selector Fulllest Tank or BOTH
- 2. Landing Gear – WATER UP – Check Visually
LAND DN – Check Visually
- 3. Water Rudders UP
- 4. Flaps 2nd Notch – 25°
- 5. Trim Set for Takeoff
- 6. Mixture Rich
- 7. Carburetor Heat COLD
- 8. Engine Inst. Normal Range
- 9. Radios Set
- 10. Altimeter Set
- 11. Seat Belts & Harnesses Fastened
- 12. Doors Rear Closed & Latched
- 13. Flight Controls Free and Correct

TAKEOFF – WATER

- 1. Control Stick Hold Full Aft
- 2. Throttle FULL
- 3. Control Stick Move fwd when nose stops rising
- 4. Airspeed 48 – 55 mph
- 5. Control Stick Light. backpres to lift off

TAKEOFF – LAND

- 1. Throttle FULL
- 2. Rotate 48 – 55 mph
- 3. Climb Speed 65 mph
- 4. Flaps Retract @ safe alt
- 5. Landing Gear Retract (Visually verify)

BEFORE LANDING

- 1. Landing Gear – WATER UP
LAND DN
LAND GREEN
- 2. Gear Ind Lgt – WATER BLUE
LAND GREEN
- 3. Gear Position Visually Check
- 4. Water Rudders UP
- 5. Seat Belts & Harnesses Fastened
- 6. Fuel Selector Fulllest Tank or BOTH
- 7. Mixture Cntl Rich
- 8. Carburetor Heat HOT
- 9. Flaps As Required
- 10. Airspeed – Flaps UP 52 – 121 mph
Flaps DN 50 – 80 mph

LANDING – WATER

- 1. Touchdown Slightly Tail Low
- 2. Control Stick Hold Full Aft
- 3. Water Rudders DN for slow taxi

LANDING – LAND

- 1. Touchdown Slightly Tail Low
- 2. Control Stick Lower Nose wheels to rwy
- 3. Brakes As Required

SHUTDOWN

- 1. Heel Brakes ON
- 2. Radios OFF
- 3. Elec Switches OFF
- 4. Flaps Up
- 5. Magneto Grnding Check Perform Below 1000rpm
- 6. Mixture Control Full Lean
- 7. Magneto Switch OFF
- 8. Anti-Collision Lgt OFF
- 9. BAT & ALT Switch OFF
- 10. SECURING Aircraft Tied to Dock or Ramped

Flap Operating Range: 53 – 80 mph
 VX 70 mph (Flaps 25°)
 VY 73 mph (Flaps 0°)
 VA 97 mph
 VNE 129 mph

Glassy Water Cfg 55 mph, 25°, 1850 RPM
 (50-150 ft/min down)

Normal Climb 2400 RPM
 Normal Cruise 2300 RPM
 Low Cruise 2000 RPM

Pattern Power 60 mph, 25°, 2000 RPM

Weight Limitations
 Max. Takeoff and Landing Weight 2000 lbs

34.4 Gallons Usable All Flight Conditions



EMERGENCY CHECKLISTS

EMERGENCY BASIC RULES

1. Maintain Aircraft Control
2. Analyze the situation & take proper action
3. Land as soon as conditions permit

ENGINE EMERGENCY SHUTDOWN

1. Mixture Full LEAN
2. Fuel Selector OFF
3. Ignition Switch OFF

ENGINE FIRE DURING STARTING

1. Mixture Full LEAN
2. Throttle OPEN
3. Continue Cranking for several revolutions
4. Accomplish ENGINE EMERGENCY SHUTDOWN

ENGINE FIRE AFTER STARTING

1. Accomplish ENGINE EMERGENCY SHUTDOWN
2. Master Switch OFF

EMERGENCY EXIT ON GROUND

1. Accomplish ENGINE EMERGENCY SHUTDOWN
2. Master Switch OFF
3. Leave aircraft by door / kick out side window

TAKEOFF ABORT (BEFORE LIFT-OFF)

1. Throttle CLOSED
2. Brakes As Required

ENGINE FAILURE AFTER TAKEOFF (FORCED LNDG)

1. Glide Est. 70 mph Flaps 0°
2. Fuel Selector Fullst Tank
3. Mixture Rich
4. Ignition ON
5. Carburetor Heat HOT
6. If engine does not restart, Accomplish ENGINE EMERGENCY SHUTDOWN
7. Flaps As Required
8. Master Switch OFF

PARTIAL POWER IN FLIGHT

1. Mixture Rich
2. Carburetor Heat HOT
3. Airspeed Glide @ 70 mph
4. Fuel Selector BOTH
5. Ignition Switch BOTH
6. Master Switch ON

COMPLETE POWER FAILURE IN FLIGHT

1. Glide Est 70 mph
2. Attempt Engine Air Start if Warranted

ENGINE AIR START

1. Fuel Selector BOTH
2. Mixture RICH
3. Ignition Switch BOTH
4. If engine does not start try flooded engine clearing proc. with throttle wide open and mixture full lean.
5. If no start FORCED LANDING

ELECTRICAL FIRE

1. Master Switch OFF

ENGINE FIRE IN FLIGHT

1. Accomplish ENGINE EMERGENCY SHUTDOWN
2. Make forced landing

SMOKE AND FUME ELIMINATION

1. Cabin Heat Knob IN
2. Cabin Air Knob IN
3. Upper Air Vents OPEN
4. Pilot's Window OPEN

STRUCTURAL DAMAGE

1. On Takeoff ABORT
2. In Flight, maintain controllable airspeed
3. Climb to safe stall recovery altitude
4. Notify ATC
5. Determine control difficulty airspeed by slowing straight ahead, do not stall
6. Make full stop landing using 5 – 10 mph above difficulty airspeed or normal approach speed whichever is higher.

RECOVERY FROM INADVERTENT SPIN

1. Rudder FULL in opp dir of spin
 2. Elevator FULL nose down
 3. Ailerons Neutral
 4. Throttle Idle
- When Rotation Stops
5. Rudder Neutral
 6. Elevator Neutral, then ease back for level flight
 7. Flaps Retract

ALTERNATOR FAILURE

1. Output Monitor
 2. Throttle Inc to at least 900 RPM
- If Ammeter reads (-) or ALTERNATOR OFF WARNING light is illuminated:
3. ALT Switch OFF then ON (Repeat twice)
- If system will not reset:
4. Electrical Load Reduce
 5. Land as Soon as Practical

ENG FAILURE DURING TAKEOFF – WATER

1. Throttle IDLE
2. Control Wheel FULL AFT
3. Mixture CUT-OFF
4. Ignition Switch OFF
5. Master Switch OFF

FORCED LANDING ON WATER w/o POWER

1. Airspeed 70 mph
2. Landing Gear UP (BLUE lgt)
3. Gear Position Confirm Visually
4. Mixture Cutoff
5. Fuel Selector OFF
6. Ignition Switch OFF
7. Water Rudders UP
8. Flaps As Required
9. Master Switch OFF
10. Doors Unlatch
11. Touchdown Slightly Tail Low
12. Control Wheel Full Aft

FORCED LANDING ON LAND w/o POWER

1. Airspeed 70 mph
2. Landing Gear DN (GREEN lgt)
3. Gear Position Confirm Visually
4. Mixture Cutoff
5. Fuel Selector OFF
6. Ignition Switch OFF
7. Water Rudders UP
8. Flaps As Required
9. Master Switch OFF

10. Doors Unlatch
11. Touchdown Level Attitude
12. Control Wheel Full Aft
13. Brakes As Required

LANDING GEAR FAILS TO RETRACT / EXTEND

1. BAT Switch ON
2. Gear Switch Check in desired Position
3. Gear Circuit Breaker Check IN
4. Gear Lights Verify
5. Gear Position Check visually

If gear still in improper position:

6. Gear Circuit Breaker Check IN
7. Gear Switch Cycle
8. Gear Motor Check Red Light ON
9. Gear Lights Verify
10. Gear Position Check Visually
11. Airspeed Reduce to min loads

If pump is running intermittently or gear not moving:

12. Gear Circuit Breaker PULL OUT
13. Gear Switch Desired Position
14. Emer Hand Pump Select Same position as gear switch
15. Gear Circuit Breaker Push IN
16. Gear Motor Check red light on
17. Gear Lights Verify
18. Gear Position Check Visually

If gear motor inop or gear still not in desired position:

19. Gear Circuit Breaker Pull OUT
20. Gear Switch Desired Position
21. Emer Hand Pump Select Same position as gear switch
22. Emer Hand Pump PUMP
23. Gear Lights Verify Desired Ind
24. Gear Position Confirm Visually

GEAR UP or PARTIALLY EXTENDED – LAND on LAND ONLY

1. Seat Belts & Harnesses Fastened
2. Select longest smooth surface available
3. Gear Switch UP
4. Flaps DN
5. Airspeed 70 mph
6. Doors Unlatch
7. Master Switch OFF
8. Touchdown Level, min sink
9. Control Wheel Full AFT
10. Mixture Cutoff
11. Fuel Selector OFF