N75SM Cessna 182-F Checklist

BEFORE START

- 1. Passenger Brief SAFETY
- 2. Seats and Seat Belts Secure
- 3. Flight Controls Check
- 4. Brakes Test
- 5. Beacon Light ON
- 6. Master Switch ON
- 7. Avionics Switch ON
- 8. Cowl Flaps OPEN
- 9. Elevator and Rudder Trim Set for Take-Off
- 10. Fuel Selector BOTH

START

- 1. Seat Track Verify Locked
- 2. Carb Heat OFF
- 3. Mixture FULL
- 4. Prop HIGH RPM
- 5. <u>Throttle 1/2" in</u>
- 6. Prime As Req. In and Locked
- 7. Brakes HOLD
- 8. Prop Area CLEAR
- 9. Mags Start Idle 1000RPM
- 10. Oil Pressure GOOD
- 11. Nav Light ON
- 12. Mixture Taxi as req. ~ 1" Out

PRE-TAXI

- 1. <u>Flaps UP</u>
- 2. Heat/Vent/Defrost SET
- 3. Avionics SET
- 4. Transponder 1200 ALT
- 5. <u>Radios SET and TEST</u>
- 6. ATIS / AWOS Record
- 7. <u>Altimeter SET</u>

TAXI

- 1. Taxi Light ON
- 2. Brakes TEST
- 3. Route/Clearance OBTAINED
- 4. During Taxi TEST
 - a. Attitude Indicator
 - b. Turn Coordinator
 - c. H.I. and Compass

RUN-UP

- 1. Brakes SET
- 2. Fuel BOTH
- 3. <u>Trim TAKEOFF</u>
- 4. Flight Controls Free and Correct
- 5. Primer In and Locked
- 6. <u>Throttle 1700 RPM</u>

- 7. Engine Instruments GREEN
- 8. Mixture SET Peak RPM + 2-3 Twists
- 9. Carb Heat TEST
- 10. Ammeter Check
- 11. R/L Magnetos Test (150Max/50Diff)
- 12. Prop Check Operation / Full RPM
- 13. Throttle Idle CHECK
- 14. Throttle Friction SET

PRE-TAKEOFF

- 1. Flaps 0°-20° (10 Prefered)
- 2. Cowl Flaps OPEN
- 3. Trim Take Off
- 4. Doors / Windows Latched
- 5. Nav Inst Set/Verified
- 6. Transponder Set / 1200
- 7. Carb Heat OFF / as req.
- 8. Landing Light ON
- 9. <u>Time Note</u>
- 10. Brakes Release
- 11. Brief Abort/Takeoff Plan
- 12. Call/Clearance

TAKEOFF

- 1. Lined up on RWY
- 2. Throttle FULL
- 3. Engine Instruments GREEN
- 4. RPM 2500 MIN 2600 MAX
- 5. Airspeed Alive
- 6. Rotate 65 MPH
- 7. <u>Flaps UP</u>

CLIMB

- 1. Power Full or Below 22" inHg
- 2. Prop 2450
- 3. Speed 90-120 MPH
- 4. Mixture As Req.
- 5. Instruments NOMINAL
- 6. Taxi Light- OFF
- 7. Flight Plan OPEN

CRUISE

(Cont.)

- 1. Power SET (10 GPH for local flight)
- 2. <u>Prop SET (2000 2350 RPM)</u>
- 3. Cowl Flaps As Req.
- 4. Mixture 50°F rich of Peak
- 5. Instruments NOMINAL
- 6. Fuel Selector L/R As Req

DECENT

8.

1.

2.

3.

4.

5.

6.

8.

9.

1.

2.

3.

4.

5.

6.

8.

(> 75MPH)

7.

9.

1.

2.

3.

4.

5.

6.

8.

AFTER LANDING

Flaps - UP

PRE-LANDING

- 1. <u>Mixture Richen</u>
- 2. Cowl Flaps Closed
- 3. Fuel Both
- 4. Carb Heat As Req
- 5. ATIS/AWOS Obtained

Instruments - NOMINAL

Cowl Flaps - CLOSED

Fuel Selector - BOTH

Mixture - Set as Reg

Primer - In/Locked

Seatbelts - Secure

Landing Light - ON

Carb Heat - OFF

Mixture - As req

Trim - Take-Off

Taxi Light - ON

SECURING/SHUTDOWN

ELT - Silent

Mags - OFF

7. Master - OFF

Avionics - OFF

10. Avionics OFF - Verify

11. Cowl Flaps - CLOSED

12. Control Lock - INSTALL

13. Wheel Chocks - IN

15. Tie Down - As Req.

16. Doors - Secured

Cowl Flaps - Open

Transponder - GND

Landing Light - OFF

Taxi - Route/Clearance

Taxi/Landing Light - OFF

Hobbs / Tach - RECORD

Beacon/Nav Light - OFF

14. Pitot Cover/Cowl Plugs - INSTALL

9. Fuel Selector - Left or Right

Mixture - FULL LEAN

7. Prop - Full Forward

Tires/Brakes - Checked/Tested

- 6. <u>Altimeter Set</u>
- 7. RWY Determined

Carb Heat - ON

PRE-FLIGHT_____

Interior

- 1. Documents A.R.O.W
- 2. Control Lock Remove
- 3. Ignition OFF
- 4. Master ON
- 5. Avionics ON
- 6. Flaps Extend
- 7. Lights/Pitot Heat ON
- 8. Fuel Gauges Reading
- 9. Stall Horn TEST
- 10. Master/All Switches OFF
- 11. Fuel Selector BOTH

Exterior

- 1. Baggage Door LOCKED
- 2. Control Surfaces FREE & SECURE
- 3. Antennas
- 4. <u>Tires/Brakes</u>
- 5. <u>Fuel</u>
 - a. Quantity = Gauges
 - b. Sump
 - c. Strain
 - d. Caps and Vents
- 6. <u>Static Ports/Pitot Tube/OAT Probes</u>
- 7. Air Vents Openings
- 8. <u>Oil Level</u>
- 9. Prop / Spinner
- 10. Air Intake Filter
- 11. Cowl Flaps
- 12. Nose Strut
- 13. Windshield CLEAN
- 14. Tiedowns/Chocks
- 15. Final Walk Around

EXCESSIVE RATE OF CHARGE

- 1. Gen. Circuit Breaker OUT then IN
- 2. Check for Normal Function
- 3. If Excessive Rate Returns, Circut Breaker OUT
- 4. All Non-Essential Electrical Equip. OFF
- 5. <u>Terminate Flight ASAP</u>

INSUFFICIENT RATE OF CHARGE

- 1. Generator Circuit Breaker CHECK-IN
- 2. If in Cycle OUT then IN
- 3. <u>Ammeter Check for positive charge</u>

If low-voltage occurs again:

- 4. Nonessential Electrical Equipment OFF
- 5. Terminate Flight ASAP

ENGINE FIRE ON START

1. Cranking - CONTINUE

If Engine STARTS

- 2. <u>Power 1700 RPM</u>
- 3. Engine SHUTDOWN
- If Engine FAILS to Start
 - 4. <u>Throttle FULL</u>
 - 5. <u>Mixture LEAN / CUTOFF</u>
 - 6. Cranking CONTINUE
 - 7. Fire Extinguisher OBTAIN
 - 8. Engine SECURE
 - a. Master Switch OFF
 - b. Ignition Switch OFF
 - c. Fuel Selector OFF
 - 9. <u>Fire- EXTINGUISH</u>
 - 10. Fire Damage Inspect

ENGINE FIRE IN FLIGHT

- 1. <u>Mixture LEAN / CUTOFF</u>
- 2. Fuel Selector OFF
- 3. Master Switch OFF
- 4. Cabin Heat and Air OFF
- 5. Airspeed 120 MPH or Until Fire Extinguishers
- 6. Forced Landing EXECUTE

ELECTRICAL FIRE

- 1. Master Switch OFF
- 2. Avionics/All Switches OFF
- 3. Vents/Cabin Air/Heat CLOSED

Terminate Flight ASAP - If fire appears out and power is *absolutely* necessary:

- 4. Master Switch ON
- 5. Circuit Breakers CHECK <u>Do NOT Reset</u>
- 6. All Radio Equipment OFF
- 7. Avionics ON
- 8. Radios/Electrical Switches ON one at a time with delay to isolate short circuit
- 9. Vents/Cabin Air/Heat OPEN when fire is determined out

CABIN FIRE

- 1. Master Switch OFF
- 2. <u>Vents/Cabin Air/Heat CLOSED (To avoid</u> <u>drafts)</u>
- 3. Fire EXTINGUISH
- 4. Terminate Flight ASAP

WING FIRE

- 1. Nav Lights OFF
- 2. Taxi/Landing Light -OFF
- 3. Pitot Heat OFF
- 4. <u>Sideslip Perform to keep flames away from fuel</u> <u>tanks / cabin</u>
- 5. Terminate Flight ASAP

ENGINE FAILURE

TakeOff

- 1. <u>Throttle IDLE</u>
- 2. Brakes APPLY

Immediately After TakeOff

In Flight - Restart

2.

3.

4.

6.

7.

8.

2.

4.

5.

6.

7.

8.

9

- 3. Flaps UP
- 4. Mixture LEAN / CUTOFF
- 5. Ignition Switch OFF
- 6. Master Switch OFF

Complete FORCED LANDING

1. Airspeed - 80 MPH

Carb Heat - ON

Throttle - FULL

5. Prop - FULL

stopped

FORCED LANDING

1. Airspeed - 80 MPH

3. Fuel Selector - OFF

Ignition Switch - OFF

Master Switch - OFF

Touchdown - SLOW

Doors - UNLATCH

Wing Flaps - As Desired

Brakes - APPLY HEAVILY

Fuel Selector - BOTH

Mixture - RICH / FULL

Primer - IN and LOCKED

Mixture - LEAN / CUTOFF

Ignition Switch - TEST L/R, Start if propeller is